3R - 1018

2014 C-141

11/06/2014



November 6, 2014

Submitted via email w/delivery confirmation: Jim Griswold@state.nm.us

Mr. Jim Griswold, Environmental Bureau Chief New Mexico Energy, Minerals & Natural Resources Department - Oil Conservation Division 1220 South St. Francis Drive Santa Fe. New Mexico 87505

Attn: Glenn Von Gonten

Re: Notification of Affected Groundwater -

Cohn 29-10-25 #1 Pipeline Release (November 8, 2013 Release)

Enterprise Field Services, LLC

NMOCD RP# 3RP-1018

Unit Letter A, Section 25, T29N, R10W

San Juan County, New Mexico

Dear Mr. Griswold:

Enterprise Field Services, LLC (Enterprise) has confirmed that groundwater has been affected by the November 8, 2013 pipeline release at the Cohn 29-10-25#1 site referenced above. This correspondence includes an updated Form C-141, and C-141 Forms previously submitted to the NMOCD Aztec District 3 Office for your records. This report also includes reports previously submitted to the District 3 office, including the *Corrective Action Report* dated June 27, 2014, and the *Supplemental Site Investigation Report* dated September 18, 2014. The release site is located in Unit Letter A Section 25 Township 29 North Range 10 West, North 36.70314, West 107.829618 West, respectively. This release site has been assigned RP# 3RP-1018 by the New Mexico Oil Conservation Division (NMOCD).

The attached *Corrective Action Report* documents the results of the December 2013 and April 2014 initial remediation actions to mitigate the pipeline release. This report also documents removal of hydrocarbon impacted soil exceeding NMOCD standards. The attached *Supplemental Site Investigation Report*, dated September 22, 2014, documents a groundwater investigation conducted at the release site during August 2014. During this investigation, eight (8) temporary monitoring wells were installed to total depths ranging from 12 to 13 feet below ground surface. Each monitoring well was developed, purged and sampled and then properly plugged and abandoned in accordance with NMOCD and New Mexico Office of the State Engineer regulations. Laboratory analytical results indicate contaminant concentrations above New Mexico Water Quality Control Commission (NMWQCC) standards for Benzene and Total Xylenes in five (5) of the temporary monitoring wells (TMP-1, TMP-3, TMP-5, TMP-6 and TMP-7).

Enterprise is currently preparing a work plan for the proposed additional groundwater investigation to determine the extent of affected groundwater at the release site, and will proceed with this investigation when necessary landowner and agency approvals are obtained.

Mr. Jim Griswold November 6, 2014 Page Two

If you have any questions concerning the attached report, please do not hesitate to contact me at (713) 381-2286, or via email at: drsmith@eprod.com.

Sincerely,

David R. Smith, P.G.

Sr. Environmental Scientist

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

/dep Attachments

CC:

Cohn Mack S ET AL 4072 Hidden View Circle Ft. Worth, TX 76109

ec:

Glenn Von Gonten, New Mexico Oil Conservation Division, Santa Fe, NM

Mark Kelly, Bureau of Land Management, Farmington, NM Shari Ketcham, Bureau of Land Management, Farmington, NM Brandon Powell, New Mexico Oil Conservation Division, Aztec, NM Jonathan Kelly, New Mexico Oil Conservation Division, Aztec, NM Elizabeth McNally, Animas Environmental Services, Farmington, NM

District I 1625 N. French Dr., Hobbs, NM 86240 District II
811 S. First St., Artesis, NM 88210
District III
1000 Rio Brazos Road, Azlec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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

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

Revised August 8, 2011

Form C-141

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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Printed Name:	Jon E. Field	8			A	pproved by E	invironmental Spe	ecialist				
Title: Director,	Environment	tal			A	pproval Date	:	Ex	piration D	ate:		
E-mail Address	, / /				_ c	conditions of	Approval:			Attached		
Date: ///	4/2014	P	hone: (713	381-6684								-20

^{*} Attach Additional Sheets if Necessary

ENTERPRISE PRODUCTS PARTNERS L.P. ENTERPRISE PRODUCTS HOLDINGS (LC (General Partner)

ENTERPRISE PRODUCTS OPERATING LLC

August 1, 2014

7014 1200 0001 0918 5254 Return Receipt Requested

ENMRD Oil Conservation Division Aztec District III Office Attn: Cory Smith 1000 Rio Brazos Road Aztec, NM 87410

RE:

Cohn 29019025 #1 San Juan County

Dear Mr. Smith:

Attached is an updated Release Notification and Corrective Action Report (C-141) as prepared by our field representative, Thomas Long. Should have questions or need additional information, Mr. Long's number is 505-599-2286 or Jon Fields, Director-Environmental at 713-381-6684.

Yours truly,

Ivan W. Zirbes

Sr. Director, Environmental

/sjn enclosures

ENTERPRISE PRODUCTS PARTNERS L.P. ENTERPRISE PRODUCTS HOLDINGS LLC (General Partner)

ENTERPRISE PRODUCTS OPERATING LLC

November 21, 2013

ENMRD Oil Conservation Division Aztec District III Office Attn: Brandon Powell 1000 Rio Brazos Road Aztec, NM 87410 Return Receipt Requested 7012 3460 0000 1945 3654

RE:

Cohn 29-10-25 #1

Release Notification - San Juan County

Dear Mr. Powell:

Attached is the Release Notification and Corrective Action Report as prepared by our field representative, Thomas Long. Should have questions or need additional information, Mr. Long's number is 505-599-2286 or me directly at 713-381-6595.

Yours truly,

Shiver J. Nolan

Sr. Compliance Administrator

Their of Noke

enclosure

District I 1625 N. French Dr., Hobbs, NM 88240 District II 817 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

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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Describe Cause of Problem and Remedial Action Taken.* Area technician discovered a pipeline leak on the well tie line for the Cohn 29-10-25 #1. The line was isolated, depressurized and LOTO was applied. Repairs for the line are scheduled for week of December 2, 2013. The area affected is estimated to be approximately 50 feet long by 20 feet wide. Describe Area Affected and Cleanup Action Taken.* Third party environmental contractor attempted to delineate the release area using a hand auger. All soil borings were terminated at two feet below gn (bgs) surface due to auger refusal. The area affected is estimated to be approximately 50 feet long by 20 feet wide. Third party environmental contractor										de.			
will guide excavation and collect closure samples after completion of repair activities scheduled for the week of December 2, 2013. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability										danger			
should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION											nan health		
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E-mail Addre						Conditions of	Approval:			Attached			
Date: 11/	21/2013	Phone: 713-	381-6595							<u> </u>			

^{*} Attach Additional Sheets If Necessary



ENTERPRISE PRODUCTS FARTHERS L.P. ENTERPRISE PRODUCTS HOLDINGS LLC (Goneral Partner)

ENTERPRISE PRODUCTS OPERATINO LLC

October 6, 2014

ENMRD Oil Conservation Division Aztec District III Office Attn: Cory Smith 1000 Rio Brazos Road Aztec, NM 87410

Return Receipt Requested 7014 1200 0001 0918 2604

RE:

Cohn 29-10-25 #1

San Juan County

Dear Sirs:

Attached is a Release Notification and Corrective Action Report (Final) for the referenced release. Also attached is the Corrective Action Report and a Supplemental Site Investigation Report as prepared by our consultant, Apex Titan, Inc.

Should have questions or need additional information, please contact Thomas Long, our area field representative, at 505-599-2286 or me directly at 713-381-6684.

Yours truly,

Jon E. Fields

Director - Field Compliance

/sjn

enclosures

District | 1625 N. French Or., Hobbs, NM 88240 District II 811 S. First St., Artecia, NM 88210 1000 Rio Brazos Road, Aztoc, NM 87410 Dintrict IV. 1280 S. St. Francis Dr., Santa Fe, MM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Or. Santa Fo. NH 87603

Form C-141 Revised August 8, 2011

Submit 1 Copy to appropriate District Office in pocordance with 19.15.29 MISAC.

Release Notification and Corrective Action ☐ Updated ☑ Final Report Name of Company: Enterprice Field Services LLC Address: 514 Rollly Ave. Fermington, NM 87401 Contact Thomas Long Telephone No. 605-539-2286 Facility Name: Cohn 29-10-25 #1 Facility Type: Gas gathering system piceline Burface Owner, Private Mineral Owner BLM API No. LOCATION OF RELEASE Unit Letter Section Township Feet from the Range Feat from the (East/Vicut Lina County 25 20N 10M 178 285 San Juan Latitude 35,703146 Longitudo 107,829616 **MATURE OF RELEASE** Type of Release: Natural gas and possible associated liquids Volume of Rolesso: Volumo Recovered: Unknown Source of Reloase: Natural gaz gethoring pipeline Date and Hour of Occurrence: Date and Hour of Discovery: 11/00/13 at approximately 1:30 PM Unknown Was Immediate Notice Given? If YES, To Whom? ☐ Yes ☐ No ☒ Not Raquirad By Whom? Date and Hour Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. Yes X No if a Watercourse was impacted, Deccribe Fully.* Describe Cause of Problem and Remedial Action Taken." Area technician discovered a pipelino leak on the well tie line for the Cohn 29-10-25 \$1. The line was isolated, depressurized and lock out tag out was applied. Repairs for the pipeline were completed the week of December 2, 2013. Additional remediation was completed in April 2014 where approximately 720 cubic yards of hydrocarbon impacted soil was excevated and transported to an approved NMOCD land farm facility. The final excevation dimensions measured approximately elxiy-five (65) feet long by twenty-five (25) wide by approximately twelve (12) where groundwater was encountered. Approximately 300 benets water was pumped out of the excevation and transported to an approved NiviOCD disposal facility. On August 14, 2104, eight (8) soil borings were advanced to total depths ranging from 12 to 13 feet below ground surface and completed as ground/eater monitoring wells. Each monitoring wells was developed, purge and sampled. Laboratory analytical results indicate contaminant concentrations above New Mexico Water Quality Control Commission standards. Describe Area Affected and Cloanup Action Taken." Repairs for the pipeline were completed the week of Decamber 2, 2013, Additional remediation was completed in April 2014 where approximately 720 cubic yards of hydrocarbon impacted soil was excavated and transported to an approved NMOCD land farm facility. The final excavation dimensions measured approximately staty-five (65) feet long by twenty-five (26) wide by approximately twelve (12) where groundwater was encountered. Approximately 300 barrals water was pumped out of the exercation and transported to an approved NMOCD disposal facility. On August 14, 2104, eight (8) soil borings were advanced to total depths ranging from 12 to 13 feet below ground surface and completed as groundwater monitoring wells. Each monitoring wells was developed, purge and campled. Laboratory analytical results indicate contaminant concentrations above New Mexico Water Quality Central Commission standards. A third party environmental corrective action report and supplemental investigation report is included with this "Final" c-141 I hareby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NAOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endenger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" dose not relieve the operator of liability should their operations have falled to adequately investigate and remediate contamination that pose a throat to ground water, ourface water, human health or the environment. In addition, FMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature Approved by Environmental Specialist: Printed Namo: Jon E. Fleids Title: Director, Environmental Approval Date: Expiration Date: Conditions of Approval: E-mail Address: jefiqids@pprod.com Attached 10/2/2014

Attach Additional Sheets If Necessary

Phone: (713) 381-6684

January 2, 2014

ENMRD Oil Conservation Division Aztec District III Office Attn: Brandon Powell 1000 Rio Brazos Road Aztec, NM 87410 Return Receipt Requested 7012 3460 0003 3115 7605

BLM Farmington Field Office Lands Team Attn: Scott Hall/Sherrie Landon 6251 College Blvd. Ste. A Farmington, NM 87402 Return Receipt Requested 7012 3460 0003 3115 7612

RE: Co

Cohn 29-20-25#1

Release Notification - San Juan County

Gentlemen:

Attached is the Release Notification as prepared by our field representative, Thomas Long Should have questions or need additional information, Mr. Long's number is 505-599-2286 or me directly at 713-381-6684.

Yours truly,

Jon Fields

Director-Field Environmental

/sjn

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State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fa NIM 97505

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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Describe Area Affected and Cleanup Action Taken.* Third party environmental contractor attempted to delineate the release area using a hand auger. All soil borings were terminated at two feet below ground (bgs) surface due to auger refusal. The area affected is approximately 50 feet long by 20 feet wide. The pipeline was repaired and additional soil was excavated. Soil samples were collected from the excavation side walls and based on laboratory analysis and the anticipated shallow depth of groundwater indicated potential impacts to groundwater. Additional excavation of impacted soils is being scheduled. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report* does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other														
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Title: Group	Sr. Vice Pr	esident				Approval Dat	p.	1	Expiration	Date:				
E-mail Addre	ss: snolan(geprod.com	v : whom permutation of	na akang arabah a ama akan sang arabah sang arab		Conditions of	Approval:			Attached				
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SUPPLEMENTAL SITE INVESTIGATION REPORT

Property:

Cohn #1 Pipeline Release (11/08/2013) NE 1/4, S25 T29N R10W San Juan County, New Mexico

> September 22, 2014 Apex Project No. 7030413G018

> > Prepared for:

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

Prepared by:

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

Elizabeth Scaggs, P.G. Senior Program Manager

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SUPPLEMENTAL SITE INVESTIGATION REPORT

Cohn #1 Pipeline Release (11/08/2013)
NE 1/4, S25 T29N R10W
San Juan County, New Mexico

Apex Project No. 7030413G018

1.0 INTRODUCTION

1.1 Site Description & Background

The Cohn #1 pipeline release site is located within the Enterprise Field Services LLC (Enterprise) pipeline right-of-way (ROW) in the northeast (NE) ¼ of Section 25 in Township 29 North and Range 10 West (36.703146N, 107.829618W) in San Juan County, New Mexico, referred to hereinafter as the "Site" or "subject Site". The Site is located on private property owned by Mack S. Cohn and is surrounded by river terrace vegetation periodically interrupted with oil and gas gathering facilities, including one (1) Enterprise natural gas gathering pipeline which traverses the area from southeast to northwest.

During December 2013, Enterprise shut in the Cohn #1 pipeline and on December 18th, 2013, initiated excavation activities at the Site in an attempt to locate and repair a subsurface leak. The leak was subsequently identified and repaired. An unknown quantity of natural gas was released from the pipeline as a result of internal and external corrosion. The leak was identified by vapor monitoring at the ground surface. No surface expression of the release was evident.

Excavation corrective action activities began December 18, 2013 and were completed April 23, 2014. During hydrocarbon affected soil removal, groundwater was encountered at the floor of the excavation prior to soils achieving acceptable New Mexico Energy, Minerals, and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) Remediation Action Level concentrations. Therefore, additional site investigation of groundwater was warranted. Additionally, during excavation activities, Enterprise elected to remove and properly dispose of an estimated 300 barrels of potentially affected groundwater to help facilitate remediation efforts and maintain a safer and more stable working environment in, and around, the excavation. Details of the corrective actions are included in the Corrective Action Report — Cohn #1 Pipeline Release (Apex) dated June 27, 2014.

A topographic map depicting the location of the Site is included as Figure 1, a Site Vicinity Map is included as Figure 2, and a Site Plan is included as Figure 3 in Appendix A.

1.2 Project Objective

The primary objective of the supplemental site investigation was to evaluate the magnitude and extent of dissolved phase constituents of concern (COCs), if present, in groundwater.



2.0 SITE RANKING

In accordance with the New Mexico ENMRD OCD's Guidelines for Remediation of Leaks, Spills and Releases, Apex TITAN, Inc. (Apex) utilized the general site characteristics obtained during the completion of corrective action activities and information available from the Office of the New Mexico Office of the State Engineer to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the following table:

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

^{*}Groundwater was encountered during excavation activities.

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

- No water wells were identified on the Office of the State Engineer website database within the search radius. However, groundwater was encountered during excavation activities at approximately 9.5 feet below grade surface (bgs), resulting in a ranking of "20" for depth to groundwater.
- No water wells or water sources were identified within the search radius, resulting in a ranking of "0" for the Wellhead Protection Area.
- The Site is 520 feet from an unnamed wash, resulting in a ranking of "10" for distance to surface water.

3.0 SITE INVESTIGATION

3.1 Soil Borings and Temporary Monitoring Points

Eight (8) soil borings (TMP-1 through TMP-8) were advanced in the vicinity of the former pipeline release. Soil boring TMP-8 was advanced topographically upgradient of the former point of release, and soil boring TMP-5 was advanced as near as practicable to the former point of release. Soil borings TMP-4 and TMP-7 were advanced on the east and west sides of the former excavation, and soil borings TMP-1 through TMP-3, and TMP-6 were advanced topographically downgradient of the former point of release.

Figure 3 of Appendix A is a Site Map which depicts the location of the soil boring locations and former extents of the excavation.

Soil samples were collected continuously, utilizing four-foot core barrel samplers to the termination depth of each soil boring. Soil samples were observed to document soil lithology, color, moisture content, and visual and olfactory evidence of petroleum hydrocarbons. Field headspace analysis was conducted by placing the portion of the soil sampled designated for field



screening into a plastic Ziplock® bag. The plastic bag was sealed, and the sample allowed to volatilize. The air above the sample, the headspace, was then evaluated using a photoionization detector (PID) capable of detecting volatile organic compounds (VOCs). The PID was calibrated utilizing an isobutylene standard prior to use in the field.

During the completion of each soil boring, an on-Site geoscientist documented the lithology encountered and constructed a continuous profile of the soil column from the surface to the boring terminus. Soil samples from each boring location were visually inspected and classified in the field. The lithology observed during the advancement of soil boring TMP-1 at the Site included moderate olive brown clayey sand from the ground surface to approximately 4 feet bgs, underlain by moderate olive brown poorly graded sand to the terminus of the boring at 12 feet bgs. A lense of silty clayey sand was observed from 7 feet to 8 feet bgs. The remaining soil borings advanced during the drilling activities exhibited lithologic columns similar to that observed at TMP-1. Detailed lithologic descriptions are presented on the soil boring logs included in Appendix C.

Overall, PID readings ranged from zero (0) parts per million (ppm) to 276 ppm. Soil borings TMP-4 and TMP-5 exhibited PID readings above 100 ppm at the capillary fringe zone. A PID reading of 35 ppm was documented at the capillary fringe zone in TMP-6. Similarly, a PID reading of 15 ppm was documented at the capillary fringe zone in TMP-7. Significant petroleum hydrocarbon vapors were not detected with the PID in soil samples collected from soil borings TMP-1 through TMP-4, and TMP-8. Field screening results are presented on soil boring logs included in Appendix C.

Subsequent to advancement, the soil borings were converted to temporary monitoring points. The monitoring points were completed using the following methodology:

- Installation of 5 feet of 1-inch inside diameter, 0.010-inch machine slotted PVC well screen with a threaded bottom cap;
- Installation of 1-inch inside diameter, threaded flush joint PVC riser pipe to the ground surface; and
- Addition of pre-sieved 10/20 grade annular silica sand pack from the bottom of the soil boring to 2-feet above the top of the well screen.

The temporary monitoring points were developed by surging with a disposable bailer. Monitoring point construction details are presented on the soil boring logs included in Appendix C.

3.2 Groundwater Sampling Program

Prior to sample collection, the monitoring points were purged of three (3) casing volumes of groundwater, utilizing a dedicated, disposable bailer for each well. Subsequent to the completion of the purging process, one (1) groundwater sample was collected from each temporary monitoring well utilizing a disposable bailer. The groundwater samples were collected in laboratory supplied containers, sealed with custody tape and placed on ice in a cooler secured with a custody seal. The sample cooler and completed chain-of-custody forms were relinquished to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico.

3.3 Laboratory Analytical Program

The groundwater samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) using EPA SW-846 Method #8021. The containers containing the samples for organic analyses were pre-preserved with HgCl₂.



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

4.0 GROUNDWATER FLOW DIRECTION

The relative top-of-casing elevation of each of the temporary monitoring points was measured utilizing a laser level. After allowing at least 24 hrs for equilibration, Apex gauged the depth to fluids in each monitoring point. Based on the field measurements, the groundwater flow direction (gradient) at the Site is generally toward the north-northwest, with an approximate gradient of 0.004 ft/ft across the Site. Groundwater is present at approximately 9.5 feet bgs at the Site.

A groundwater gradient map for the sampling event is included as Figure 4 (Appendix A).

5.0 DATA EVALUATION

The Site is subject to regulatory oversight by the NNEPA and the New Mexico OCD. Apex utilized the New Mexico EMNRD OCD guidance and rules. To address activities related to condensate releases, the New Mexico EMNRD OCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the OCD rules, specifically NMAC 19.15.29 *Remediation Plan.* These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

5.1 Groundwater Samples

Apex compared BTEX concentrations or laboratory reporting limits (RLs) associated with the groundwater samples collected from temporary monitoring wells to the New Mexico Water Quality Control Commission (WQCC) Groundwater Quality Standards. The results of the groundwater sample analyses are summarized in Table 1 of Appendix B.

Benzene, Toluene, Ethylbenzene, and Xylenes

The groundwater samples collected from monitoring points TMP-1, TMP-3, TMP-6 and TMP-7 exhibited benzene concentrations ranging from 12 micrograms per liter (µg/L) (TMP-1) to 1,400 µg/L (TMP-6), which exceeded the WQCC Groundwater Quality Standard of 10 µg/L.

The groundwater samples collected from monitoring points TMP-2, TMP-4, TMP-5, and TMP-8 exhibited benzene concentrations ranging from below the laboratory RLs to 8.0 µg/L (TMP-2), which are below the WQCC *Groundwater Quality Standard* of 10 µg/L.

The groundwater sample collected from temporary monitoring point TMP-6 exhibited a toluene concentration of 50 µg/L, which is below the WQCC *Groundwater Quality Standard* of 750 µg/L. The groundwater samples collected from the remaining monitoring points did not exhibit toluene concentrations above the laboratory RLs, which are below the WQCC *Groundwater Quality Standard* of 750 µg/L.

The groundwater samples collected from temporary monitoring points TMP-3 through TMP-7 exhibited ethylbenzene concentrations ranging from 2.6 μ g/L (TMP-4) to 150 μ g/L (TMP-6), which are below the WQCC *Groundwater Quality Standard* of 750 μ g/L. The groundwater samples collected from the remaining temporary monitoring points did not exhibit ethylbenzene concentrations above the laboratory RLs, which are below the WQCC *Groundwater Quality Standard* of 750 μ g/L.



The groundwater sample collected from temporary monitoring point TMP-5 exhibited a xylenes concentration of 800 μ g/L, which exceeded the WQCC *Groundwater Quality Standard* of 620 μ g/L.

The groundwater samples collected from temporary monitoring points TMP-3, TMP-6, and TMP-7 exhibited xylenes concentrations ranging from 1.8 μ g/L (TMP-7) to 490 μ g/L (TMP-6), which are below the WQCC *Groundwater Quality Standard* of 620 μ g/L. The groundwater samples collected from the remaining monitoring points did not exhibit xylenes concentrations above the laboratory RLs, which are below the WQCC *Groundwater Quality Standard* of 620 μ g/L.

6.0 FINDINGS AND RECOMMENDATIONS

The primary objective of the supplemental site investigation was to evaluate the magnitude and extent of dissolved phase constituents of concern (COCs), if present, in groundwater.

- Apex installed eight (8) temporary monitoring points at the Cohn #1 release Site utilizing a Geoprobe® drilling rig.
- During the completion of the sampling event, one (1) groundwater sample was collected from each temporary monitoring point utilizing bailing techniques.
- Based on field measurements, the groundwater flow direction at the Site is generally towards the north-northwest, with an approximate gradient of 0.004 ft/ft across the Site.
- The groundwater samples collected from temporary monitoring points TMP-1, TMP-3, TMP-6 and TMP-7 exhibited benzene concentrations ranging from 12 μg/L to 1,400 μg/L, which exceed the WQCC Groundwater Quality Standard of 10 μg/L.
- The groundwater sample collected from temporary monitoring points TMP-5 exhibited a xylenes concentration of 800 µg/L, which exceeds the WQCC Groundwater Quality Standard of 620 µg/L.
- The groundwater samples collected from the remaining monitoring points did not exhibit BTEX constituent concentrations above the WQCC Groundwater Quality Standards.

Based on the results of the supplemental site investigation, Apex has the following recommendations:

- Report the groundwater sampling results to the OCD;
- Plug and abandon the temporary monitoring points: and
- Perform additional delineation activities utilizing groundwater monitoring wells to complete the delineation of the dissolved-phase groundwater plume.

7.0 STANDARD OF CARE, LIMITATIONS, AND RELIANCE

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

Enterprise Field Services LLC Supplemental Site Investigation Report Cohn #1 Pipeline Release (11/08/2013) September 22, 2014



laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client.

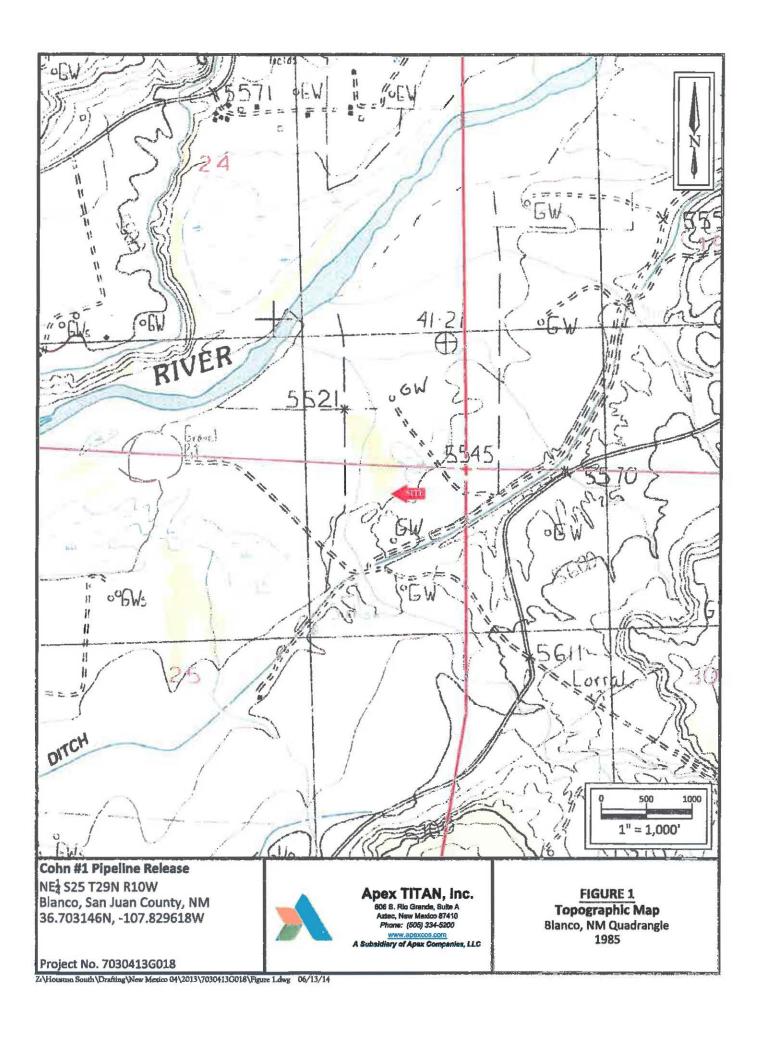
Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence 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.

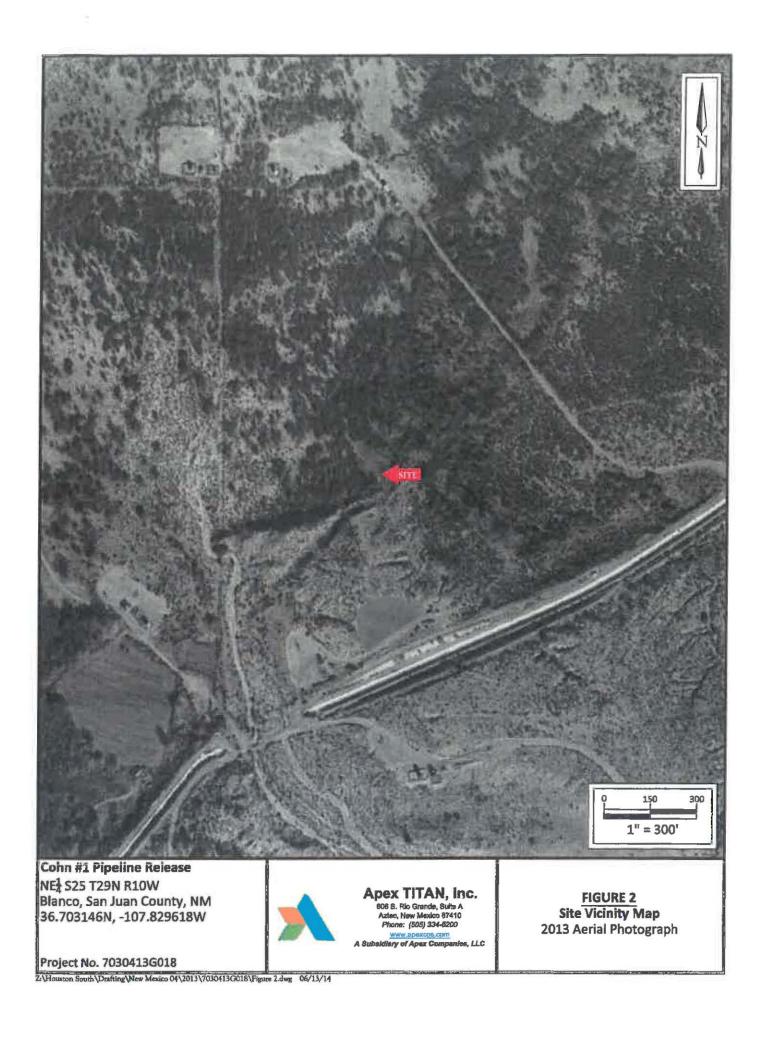
This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the expressed written authorization of Enterprise and Apex. Any unauthorized distribution 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.

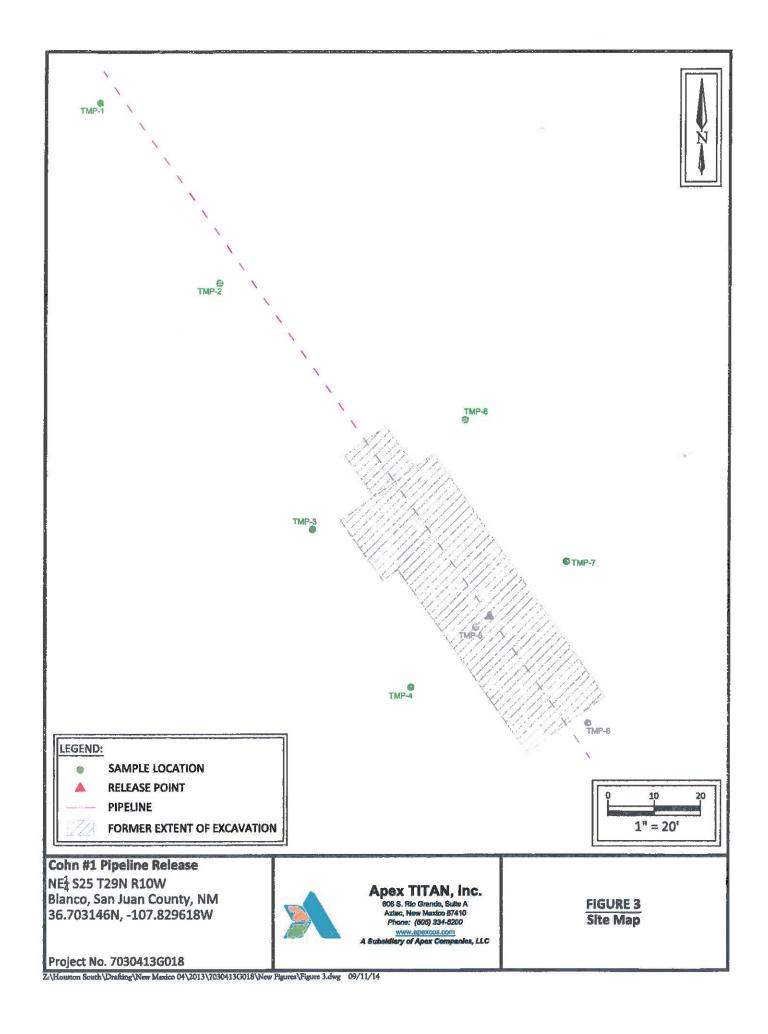


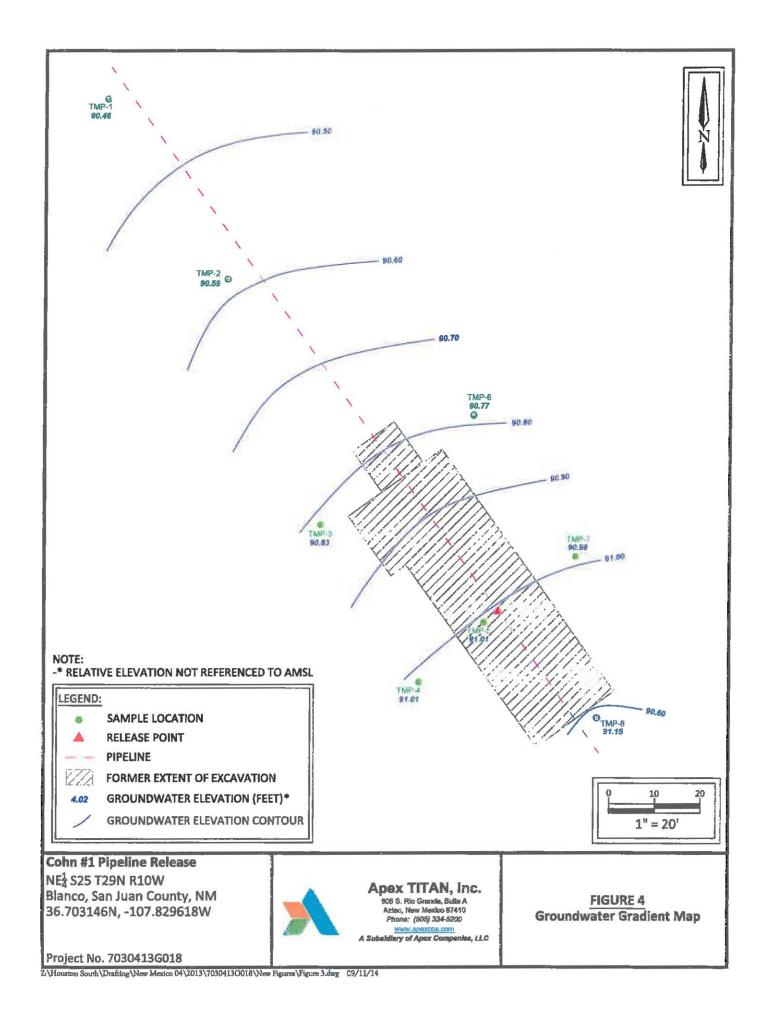
APPENDIX A

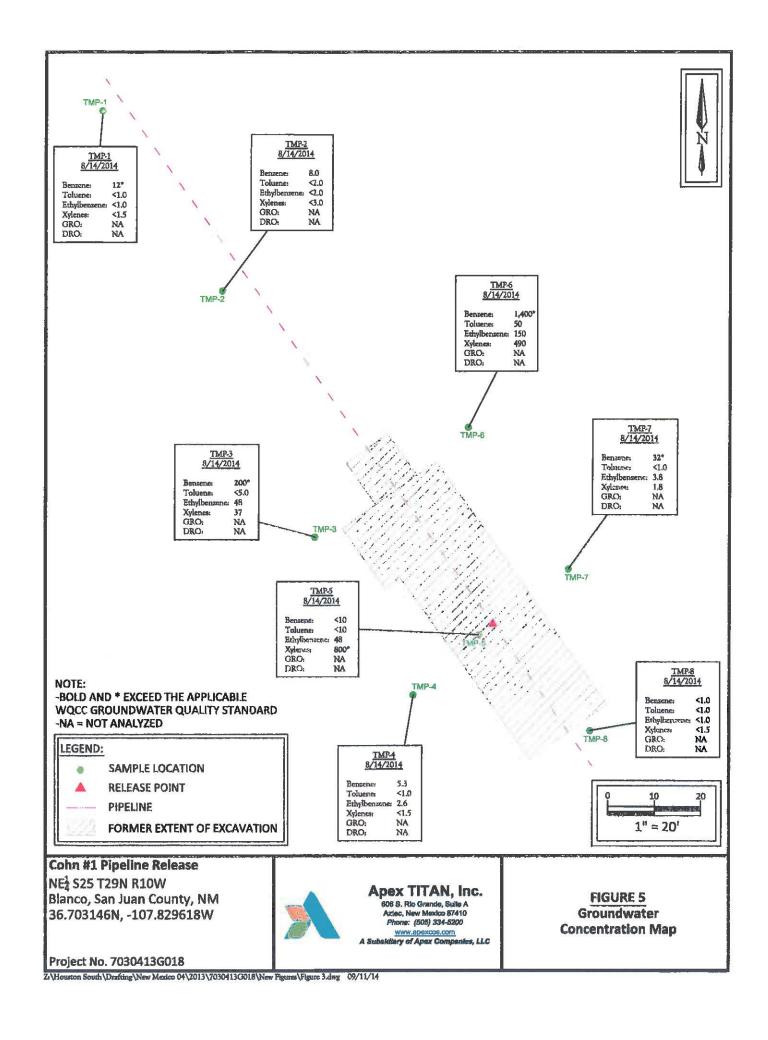
Figures













APPENDIX B

Tables



TABLE 1 Cohn #1 Pipeline Release GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Senzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (μg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
	ity Control Commission for Quality Standards	10	750	750	620	NE	NE
TMP-1	8.14.14	12	<1.0	<1.0	<1.5	NA	NA
TMP-2	8.14.14	8.0	<2.0	<2.0	<3.0	NA	NA
TMP-3	8.14.14	200	<5.0	48	37	NA	NA
TMP-4	8.14.14	5.3	<1.0	2.6	<1.5	NA	NA
TMP-5	8.14.14	<10	<10	48	800	NA	NA
TMP-6	8.14.14	1,400	50	150	490	NA	NA
TMP-7	8.14.14	32	<1.0	3.8	1.8	NA	NA
TMP-8	8.14.14	<1.0	<1.0	<1.0	<1.5	NA	NA

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

NA = Not Analyzed NE = Not Established

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



APPENDIX C
Soil Boring Logs

		11391 I	Meadowgle Houston, Te Phone: (281, www.spex liery of Apa	n Lane, Sui xas 77082) 497-1665 cos.com	te H	Project Project	t: Enterprise Field Services Name: Cohn #1 Pipeline Release Location: Rural San Juan County, New Mexico Manager: Kyle Summers	_	BORING LOG NUMBER TMP-1 Project # 7030413G018.001
Date Sam Drilled by Driller: Logged by Sampler:	y: _I y: _I	August 14 Earthworz Trujillo I. Woods I. Woods)			Top of North C West C Bench I	Surface Elevation: N/A	Casing Di Well Mate Surface C	Diameter: 2.25° sameter: 1° PVC erials: N/A completion: N/A ethod: Geoprobe
DEPTH (ft)	SAMPLE	SAMPLE ID	RECOVERY (%)	FID/PID READING (ppm)	POTENTIO- METRIC SURFACE	GBOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION		BORING / WELL COMPLETION (GRAPHIC DEPICTION)
10		ne New M	oxico 04\VA	0 - 0 - 0	3G018\\oc	(Borting Lo	CLAYEY SAND: mod olive brown, dry to moist, no eder, no state of the property	3	Filter pant (20-40 clean silies sand) Clean silies sand) Filter pant (20-40 clean silies sand) Set-ectate 40 PVC with DO 10 machine slothed agrerings (7-12 files)

Date Samplet: Date Samplet			11391 A Subsid	Meadowgk Houston, Te Phone: (281 www.apex ilary of Ape	en Lane, Sul xas 77082) 497-1655 cos.com	ile H	Projec Projec Projec	nt: Enterprise Field Services t Name: Cohn #1 Pipeline Release t Location: Rural San Juan County, New Mexico t Manager: Kyle Summers	_	BORING LOG NUMBER TMP-2 Project # 7030413G018.001
CLAYEY SAND: mod alive brown, day to alightly moist, no odor, no stabiling CORLY GRADED SAND: trace all: and clay, mod alive brown, slightly moist to moist, no odor, no stabiling CORLY GRADED SAND: trace all: and clay, mod alive brown, slightly moist to moist, no odor, no stabiling Corner of the moist, no odor, no	Drilled by Driller: Logged by	: <u>E</u> /: <u>I</u>	arthworz Trujillo I. Woods	<u> </u>			Top of North (West C Bench	Casing Elevation: N/A Coordinate: Coordinate: Mark Elevation: N/A t Completion	Casing Di Well Mate Surface C	ameter: 1" PVC rials: N/A completion: N/A
TOTAL DEPTH OF BORING - 12.0 feet BGS	DEPTH (A)	SAMPLE INTERVAL	SAMPLE	RECOVERY (%)	FID/PID READING (ppm)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLÓGIC DESCRIPTION		
25 —	15				0			staining POORLY GRADED SAND: trace silt and clay, med plive brown moist to moist, no odor, no staining -black, wet, sewer odor, staining -trace gravel @ 10 - 12 -mod olive brown, sewer odor, some staining -sandy silty clay lense @ 11 - 12		Filter pack (20-40 clean silica sand) Schedule 40 PVC with 0.010° mediline slotted openings (7-12 fact)

		11391 I	Meadowgle Houston, Te Phone: (281 www.apex liary of Ape	an Lane, Sul oxas 77082) 497-1665 cos.com	te H	Project Project	t: Enterprise Field Services t Name: Cohn #1 Pipeline Release t Location: Rural San Juan County, New Mexico t Manager: Kyle Summers	-	TMP-3 Project # 7030413G018.001
Date Sam Drilled by Driller: Logged by Sampler:	r:] 	August 14 Earthworz Trujillo I. Woods I. Woods				Top of North (West C Bench !	Surface Elevation: N/A	Casing Di Well Mate Surface C	Diameter: 2.25" ameter: 1" PVC erials: N/A ompletion: N/A ethod: Geoprobe
рветн (A)	SAMPLE INTERVAL	SAMPLE	RECOVERY (%)	FID/PID READING (ppm)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION		BORING / WELL COMPLETION (GRAPHIC DEPICTION)
10				- 0 - 3 - 3 - 3 - 3			CLAYEY SAND: mod olive brown, dry to moist, no odor, no state of the process of the control of t	n, moist, no	Filter pack (20-40 clean silies smd) clean silies smd) Filter pack (20-40 clean silies smd)
20			04370	2) 10 20 20		Barbara 2	coding 09/13/14		

Date Samp	oled: _A	11391 F	Meadowgle Houston, Te Phone: (281 www.spex litery of Ape	en Lane, Sui cas 77082) 497-1665 cos com	te H	Project Project Project	t: Enterprise Field Services Name: Cohn #1 Pipeline Release Location: Rural San Juan County, New Mexico Manager: Kyle Summers Surface Elevation: N/A	Borehole	TMP-4 Project # 7030413G018.001 Diameter: 2.25" ameter: 1"PVC
Drilled by Driller: Logged by Sampler:	: <u>I</u>	arthworz Trujillo I. Woods I. Woods				North (West C Bench	Casing Elevation: N/A Coordinate: - Mark Elevation: N/A Completion Well Stabilization	Casing Di Well Mate Surface C Boring Me	
DBPTH (#)	SAMPLE	SAMPLE	RECOVERY (%)	FID/PID READING (ppm)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION		BORING / WELL COMPLETION (GRAPHIC DEPICTION)
10		ng\New Me	saico 04\20	31 1 1	G018\loga	Boring Lo	POORLY GRADED SAND: trace silt and clay, mod olive brown moist, no odor, no staining, alight degraded hydrocarbon odor CLAYEY SILT: black, moist, sever odor, degraded hydrocarbon staining POORLY GRADED SAND: trace silt and clay, black, wet, sewe staining -grading to mod olive brown TOTAL DEPTH OF BORING - 13.0 feet BGS	n odor,	Filter panck (20-40 clean silica: sent) Schedule 40 PVC with 0.010° methins dotted upenings (8-13 freet)

Apex TITAN, Inc. 1139: Meadowgien Lane, Suite H Houston, Texas 77082 Phone: (281) 497-1865 WWW.spexcos.com A Subsidiery of Apex Companies, LLC						Client: Enterprise Field Services Project Name: Cohn #1 Pipeline Release Project Location: Rural San Juan County, New Mexico Project Manager: Kyle Summers		BORING LOG NUMBER TMP-5 Project # 7030413G018.001	
Date Sampled: August 14, 2014 Drilled by: Earthworx Driller: L. Trujillo Logged by: H. Woods Sampler: H. Woods						Ground Surface Elevation: N/A Top of Casing Elevation: N/A North Coordinate: - West Coordinate: - Bench Mark Elevation: N/A At Completion At Well Stabilization		Borehole Diameter: 2.25" Casing Diameter: 1" PVC Well Materials: N/A Surface Completion: N/A Boring Method: Geoprobe	
DBPTH (ft)	SAMPLE	SAMPLE ID	RECOVERY (%)	FID/PID READING (ppm)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION		BORING / WELL COMPLETION (GRAPHIC DEPICTION)
5				1 - 41 - 276 13			SILTY CLAYEY SAND: trace to with gravel, mod yellowish bet moist, no odor, no staining POORLY GRADED SAND: trace alls and clay, mod dive brown lenses of black, wet, sewer odor, staining -black, hydrocarben odor, sewer odor, thin lenses of sitty clay @ TOTAL DEPTH OF BORING - 13.0 feet BGS	a with thin	clean sities stud) Filtre pack (20-40 Clean sities stud) Filtre pack (20-40 Filtre

Z-\Houston South\Drafting\New Mexico 04\2013\7030413G018\logs\Boring Logs.dwg 09/17/14

Apex TITAN, Inc. Client: Enterprise Field Services **BORING LOG NUMBER** 11391 Meadowglen Lane, Suite H Houston, Texas 77082 Phone: (281) 497-1665 Project Name: Cohn #1 Pipeline Release TMP-6 Project Location: Rural San Juan County, New Mexico Project # 7030413G018.001 Project Manager: Kyle Summers A Subsidiary of Apex Companies, LLC Borehole Diameter: 2.25" Casing Diameter: 1" PVC Well Materials: N/A Ground Surface Elevation: N/A Top of Casing Elevation: N/A August 14, 2014 Date Sampled: Drilled by: Earthwork North Coordinate: ___ L. Trujillo H. Woods Driller: Surface Completion: N/A West Coordinate: __ Logged by: Boring Method: Geoprobe Bench Mark Elevation: N/A Sampler: H. Woods At Completion At Well Stabilization READING (ppm) GEOLOGIC LOG SYMBOL SAMPLE POTENTIO-METRIC SURFACE SAMPLE ID RECOVERY BORING / WELL COMPLETION (GRAPHIC DEPICTION) 8 3 GEOLOGIC DESCRIPTION CLAYEY SAND: mod olive brown, dry to moist, no odor, no staining POORLY GRADED SAND: trace silt and clay, mod olive brown to black @ 3, moist, alight sewer odor, degraded hydrocarbon odor 3 35 -clayey silt lense @ 7.5, wet 151 Flush threafed 1" ID Schedule 40 PVC with 0.010" machine slotted openings (8-13 feet) -sewer and hydrocarbon odor 31 23 . Filter pack (20-40 clean silica sand) TOTAL DEPTH OF BORING - 13.0 feet BGS

Z-\Houston South\Drafting\New Mexico 04\2013\7030413G018\logs\Borring Logs.dwg 09/17/14

>		11391 † A Subsid	Meadowgle lousion, Tec hone: (281, www.apex lary of Aper	n Lane, Sui xas 77082) 497-1665 cos.com	le H	Project Project Project	at: Enterprise Field Services t Name: Cohn #1 Pipeline Release t Location: Rural San Juan County, New Mexico t Manager: Kyle Summers	-	ORING LOG NUMBER TMP-7 Project # 7030413G018,001
Date Sam Drilled by Driller: Logged by Sampler:	y: <u>I</u>	August 14 Earthworz Trujillo I. Woods I. Woods				Top of North (West C Bench !	Surface Elevation: N/A	Casing Di Well Mate Surface C	Diameter: 2.25" ameter: 1" PVC erials: N/A completion: N/A ethod: Geoprobe
DBPTH (ft)	SAMPLE	SAMPLE	RECOVERY (%)	FID/PID READING (ppm)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION		BORING / WELL COMPLETION (GRAPHIC DEPICTION)
10				1			POORLY GRADED SAND: trace silt and clay, mod olive brown moist, slight sower odor, no staining POORLY GRADED SAND: trace silt and clay, black, moist, set slightly degraded hydrocarbon odor, staining TOTAL DEPTH OF BORING - 13.0 feet BGS		eleen either sand) Schodule 40 PVC with 0.010" machine alouted openings (8-13 feet)

	1	11391 }	Meadowgle Houston, Ta Hone: (281 Www.apex Hery of Ape	on Lene, Sui ones 77082 1) 497-1665	te H	Project Project Project	nt: Enterprise Field Services t Name: Cohn #1 Pipeline Release t Location: Rural San Juan County, New Mexico t Manager: Kyle Summers	_	BORING LOG NUMBER TMP-8 Project # 7030413G018.001
Date Sample Drilled by: Driller; Logged by: Sampler:	E L H	ugust 14 arthworx Trujillo Woods Woods				Top of North (West C Bench	Surface Elevation: N/A Casing Elevation: N/A Coordinate:	Casing Di Well Mate	Diameter: 2.25" iameter: 1" PVC erials: N/A completion: N/A ethod: Geoprobe
реутн (ft)	SAMPLE INTERVAL	SAMPLE ID	RECOVERY (%)	FID/PID READING (ppm)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION		BORING / WELL COMPLETION (GRAPHIC DEPICTION)
10		ne/New Me	nico 94\20	33	GO18\logs	Neoring Lo	CLAYEY SILTY SAND: mod olive brown, dry to moist, slight of staining POORLY GRADED SAND: trace silt and clay, black, sewer and hydrocarbon odor -wet SANDY CLAYEY SILTY: black grading to mod clive brown, wodor, staining grading to slight staining POORLY GRADED SAND: with silt, trace clay, mod of we brown sewer odor, slight staining TOTAL DEPTH OF BORING - 13.0 feet BGS	l degraded	Pilter pank (20.40 clean slike sand) Sectochile 40 PVC with 0.010° machine sloned operatings (8-13 feet)



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

OrderNo.: 1408774

August 28, 2014

Kyle Summers
Enterprise Field Services
614 Reilly Ave.
Farmington, NM 87401
TEL: (505) 599-2141

FAX

RE: Cohn #1

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 8 sample(s) on 8/15/2014 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 8/28/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services

Client Sample ID: TMP-1

Project: Cohn #1

Collection Date: 8/14/2014 11:10:00 AM

Lab ID: 140

1408774-001

Matrix: AQUEOUS

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

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES S	HORT LIST	* ***		2000	Analys	t: cadg
Benzene	12	1.0	μg/L	1	8/25/2014 11:53:36 Al	M R20777
Toluene	ND	1.0	μg/L	1	8/25/2014 11:53:36 AF	M R20777
Ethylbenzene	ND	1.0	μg/L	4	8/25/2014 11:53:36 Af	M R20777
Xylenes, Total	ND	1.5	μg/L₋	1	8/25/2014 11:53:36 AM	/ R20777
Surr: 1,2-Dichloroethane-d4	101	70-130	%REC	1	8/25/2014 11:53:36 AF	A R20777
Surr: 4-Bromofluorobenzene	101	70-130	%REC	1	8/25/2014 11:53:36 AF	A R20777
Surr: Dibromofluoromethane	89.6	70-130	%REC	1	8/25/2014 11:53:36 AM	/ R20777
Surr: Toluene-d8	102	70-130	%REC	12.0	8/25/2014 11:53:36 AM	A R20777

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

Qualifiers:

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

Page 1 of 10

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

Analytical Report

Lab Order 1408774

Date Reported: 8/28/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services

Client Sample ID: TMP-2

Project: Cohn #1

Collection Date: 8/14/2014 11:50:00 AM

Lab ID: 1408774-002

Matrix: AQUEOUS Received Date: 8/15/2014 8:00:00 AM

Analyses	Result	RL Q	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES S	HORT LIST				Analyst	cadg
Benzene	8.0	2.0	µg/L	2	8/25/2014 3:14:51 PM	R20777
Toluene	ND	2.0	μg/L	2	8/25/2014 3:14:51 PM	R20777
Ethylbenzene	ND	2.0	μg/L	2	8/25/2014 3:14:51 PM	R20777
Xylenes, Total	ND	3.0	μg/L	2	8/25/2014 3:14:51 PM	R20777
Surr: 1,2-Dichloroethane-d4	106	70-130	%REC	2	8/25/2014 3:14:51 PM	R20777
Surr: 4-Bromofluorobenzene	101	70-130	%REC	2	8/25/2014 3:14:51 PM	R20777
Surr: Dibromofluoromethane	97.9	70-130	%REC	2	8/25/2014 3:14:51 PM	R20777
Surr: Toluene-d8	101	70-130	%REC	2	8/25/2014 3:14:51 PM	R20777

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

Qualifiers:

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

Page 2 of 10

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

Date Reported: 8/28/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services

1408774-003

Client Sample 1D: TMP-3

Project: Co

Lab ID:

Cohn #1

Collection Date: 8/14/2014 2:04:00 PM

Matrix: AQUEOUS

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

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES S	HORT LIST		* * *		Analyst	cadg
Benzene	200	5.0	μg/L	5	8/25/2014 3:43:41 PM	R20777
Toluene	ND	5.0	µg/L	5	8/25/2014 3:43:41 PM	R20777
Ethylbenzene	48	5.0	µg/L	5	8/25/2014 3:43:41 PM	R20777
Xylenes, Total	37	7.5	μg/L	5	8/25/2014 3:43:41 PM	R20777
Surr: 1,2-Dichloroethane-d4	105	70-130	%REC	5	8/25/2014 3:43:41 PM	R20777
Surr: 4-Bromofluorobenzene	88.7	70-130	%REC	5	8/25/2014 3:43:41 PM	R20777
Surr: Dibromofluoromethane	92.6	70-130	%REC	5	8/25/2014 3:43:41 PM	R20777
Surr: Toluene-d8	108	70-130	%REC	5	8/25/2014 3:43:41 PM	R20777

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

Qualifiers:

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

Page 3 of 10

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

Date Reported: 8/28/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services

Client Sample ID: TMP-4

Project: Cohn #1

Collection Date: 8/14/2014 2:10:00 PM

Lab ID: 1408774-004

Matrix: AQUEOUS

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

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES S	HORT LIST				Analyst	cadg
Benzene	5.3	1.0	μg/L	1	8/25/2014 5:10:12 PM	R2077
Toluene	ND	1.0	μg/L	1	8/25/2014 5:10:12 PM	R2077
Ethylbenzene	2.6	1.0	μg/L	1	8/25/2014 5:10:12 PM	R2077
Xylenes, Total	ND	1.5	μg/L	1	8/25/2014 5:10:12 PM	R2077
Surr: 1,2-Dichloroethane-d4	107	70-130	%REC	1	8/25/2014 5:10:12 PM	R20777
Surr: 4-Bromofluorobenzene	107	70-130	%REC	1	8/25/2014 5:10:12 PM	R20777
Surr: Dibromofluoromethane	98.4	70-130	%REC	1	8/25/2014 5:10:12 PM	R20777
Surr: Toluene-d8	100	70-130	%REC	1	8/25/2014 5:10:12 PM	R20777

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

Qualifiers:

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

Page 4 of 10

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

Date Reported: 8/28/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services

Client Sample ID: TMP-5

Project: Cohn #1

Collection Date: 8/14/2014 2:18:00 PM

Lab ID: 1

1408774-005

Matrix: AQUEOUS

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

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES S	HORT LIST				Analyst	: cadg
Benzene	ND	10	μg/L	10	8/25/2014 5:39:04 PM	R2077
Toluene	ND	10	µg/L	10	8/25/2014 5:39:04 PM	R2077
Ethylbenzene	48	10	μg/L	10	8/25/2014 5:39:04 PM	R2077
Xylenes, Total	800	15	µg/L	10	8/25/2014 5:39:04 PM	R20777
Surr: 1,2-Dichloroethane-d4	97.9	70-130	%REC	10	8/25/2014 5:39:04 PM	R20777
Surr: 4-Bromofluorobenzene	93.5	70-130	%REC	10	8/25/2014 5:39:04 PM	R20777
Surr: Dibromofluoromethane	91.4	70-130	%REC	10	8/25/2014 5:39:04 PM	R20777
Surr: Toluene-d8	102	70-130	%REC	10	8/25/2014 5:39:04 PM	R20777

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

Qualifiers:

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

Page 5 of 10

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

Date Reported: 8/28/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services

Cohn #1

Project:

Lab ID:

1408774-006

Client Sample ID: TMP-6

Collection Date: 8/14/2014 2:25:00 PM

Matrix: AQUEOUS Received Date: 8/15/2014 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES S	HORT LIST		192 <u>1</u> 720		Analyst	cadg
Benzene	1400	20	μg/L	20	8/25/2014 6:07:54 PM	R2077
Toluene	50	20	μg/L	20	8/25/2014 6:07:54 PM	R2077
Ethylbenzene	150	20	µg/L	20	8/25/2014 6:07:54 PM	R2077
Xylenes, Total	490	30	μg/L	20	8/25/2014 6:07:54 PM	R2077
Surr: 1,2-Dichloroethane-d4	100	70-130	%REC	20	8/25/2014 6:07:54 PM	R2077
Surr: 4-Bromofluorobenzene	93.8	70-130	%REC	20	8/25/2014 6:07:54 PM	R2077
Surr: Dibromofluoromethane	88.6	70-130	%REC	20	8/25/2014 6:07:54 PM	R2077
Surr: Toluene-d8	102	70-130	%REC	20	8/25/2014 6:07:54 PM	R2077

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

Qualifiers:

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

Page 6 of 10

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

Date Reported: 8/28/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services

d Services Client Sample ID: TMP-7

Project: Cohn #1

Collection Date: 8/14/2014 2:30:00 PM Received Date: 8/15/2014 8:00:00 AM

Lab ID: 1408774-007

Matrix: AQUEOUS

Analyses	Result	RL Qua	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES S	HORT LIST	30-51/26-16			Analyst	cadg
Benzene	32	1.0	μg/L	1	8/25/2014 6:36:39 PM	R20777
Toluene	ND	1.0	µg/L	1	8/25/2014 6:36:39 PM	R20777
Ethylbenzene	3.8	1.0	µg/L	1	8/25/2014 6:36:39 PM	R20777
Xylenes, Total	1.8	1.5	μg/L	1	8/25/2014 6:36:39 PM	R20777
Surr: 1,2-Dichloroethane-d4	102	70-130	%REC	1	8/25/2014 6:36:39 PM	R20777
Surr: 4-Bromofluorobenzene	90.1	70-130	%REC	1	8/25/2014 6:36:39 PM	R20777
Surr: Dibromofluoromethane	95.8	70-130	%REC	1	8/25/2014 6:36:39 PM	R20777
Surr: Toluene-d8	105	70-130	%REC	1	8/25/2014 6:36:39 PM	R20777

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

Page 7 of 10

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

Analytical Report

Lab Order 1408774

Date Reported: 8/28/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services

Project: Cohn #1

Lab ID: 1408774-008

Client Sample ID: TMP-8

Collection Date: 8/14/2014 2:38:00 PM

Matrix: AQUEOUS Received Date: 8/15/2014 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES S	HORT LIST				Analyst	cadg
Benzene	ND	1.0	μg/L	1	8/25/2014 7:05:26 PM	R20777
Toluene	ND	1.0	μg/L	1	8/25/2014 7:05:26 PM	R20777
Ethylbenzene	ND	1.0	μg/L	1	8/25/2014 7:05:26 PM	R20777
Xylenes, Total	ND	1.5	μg/L	1	8/25/2014 7:05:26 PM	R20777
Surr: 1,2-Dichloroethane-d4	105	70-130	%REC	1	8/25/2014 7:05:26 PM	R20777
Surr: 4-Bromofiuorobenzene	102	70-130	%REC	1	8/25/2014 7:05:26 PM	R20777
Sur: Dibromofluoromethane	97.8	70-130	%REC	1	8/25/2014 7:05:26 PM	R20777
Surr: Toluene-d8	106	70-130	%REC	10	8/25/2014 7:05:26 PM	R20777

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

Qualifiers:

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

Page 8 of 10

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1408774

28-Aug-14

Client:

Enterprise Field Services

Project: Cohn #1										
Sample ID 5mL rb	SampT	уре: М	BLK	Tes	tCode: E	PA Method	8260: Volatil	es Short I	_lst	
Client ID: PBW	Batch	n ID: R2	20777	F	RunNo: 2	20777				
Prep Date:	Analysis D	Date: 8	/25/2014		SeqNo: (B04723	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0					in-k-d	1-3-1-1-1-1	da Arawara Lud Lu	
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr. 1,2-Dichloroethane-d4	10		10.00		99.8		130			
Surr: 4-Bromofiuorobenzene	10		10.00		100		130			
Surr: Dibromofluoromethane	9.2		10.00		92.1	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			
Sample ID 100ng Ics	SampT	ype: LC	s	Tes	tCode: E	PA Method	8260: Volatile	s Short L	.ist	
Client ID: LCSW	Batch	ID: R2	20777	F	RunNo: 3	20777				
Prep Date:	Analysis D	ate: 8/	25/2014	8	SeqNo: 6	504724	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	106	70	130			
Toluene	21	1.0	20.00	0	104	80	120			
Surr: 1,2-Dichloroethane-d4	11		10.00		106	70	130			
Sun: 4-Bromofluorobenzene	9.9		10.00		98.9	70	130			
Sun: Dipromofiuoromethane	9.5		10.00		94.7	70	130			
Sun: Toluene-d8	11		10.00		108	70	130			
Sample ID 1408774-003a ms	SampT	уре: М	3	Tes	tCode: E	PA Method	8260: Volatile	s Short L	.lst	
Client ID: TMP-3	Batch	1D: R2	9777	F	RunNo: 2	20777				
Prep Date:	Analysis D	ate: 8/	25/2014	8	SeqNo: 6	504728	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	290	5.0	100.0	200.0	90.7	70	130			
Toluene	100	5.0	100.0	0	103	67.5	123			
Surr: 1,2-Dichloroethane-d4	49		50.00		98.0	70	130			
Sur: 4-Bromofluorobenzene	47		50.00		93.7	70	130			
Sur: Dibromofiuoromethane	43		50.00		86.1	70	130			
Surr. Toluene-d8	51		50.00		102	70	130			
Sample iD 1408774-003a ms	d SampT	ype: MS	BD	Tes	tCode: E	PA Method	8260: Volatile	s Short L	.ist	
Client ID: TMP-3	Batch	ID: R2	0777	F	RunNo: 2	20777				
Prep Date:	Analysis D	ate: 8/	25/2014	S	SeqNo: 6	604729	Units: µg/L.			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	290	5.0	100.0	200.0	90.6	70	130	0.0382	20	
Toluene	96	5.0	100.0	0	96.2	67.5	123	6.47	20	

Qualifiers:

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

Page 9 of 10

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1408774

28-Aug-14

Client:

Enterprise Field Services

Project:

Cohn#1

				-		97		300 300		
Sample ID 1408774-003a msd	I SampTy	/pe: M	BD	TestCode: EPA Method 8260: Volatiles Short List						
Client ID: TMP-3 Batch ID: R20777			RunNo: 20777							
Prep Date:	Analysis Da	ate: 8/	25/2014	s	SeqNo: 6	04729	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	51		50.00		101	70	130	0	0	
Surr: 4-Bromofluorobenzene	44		50.00		87.9	70	130	0	0	
Surr: Dibromofluoromethane	44		50.00		88.4	70	130	0	0	
Surr: Toluene-d8	51		50.00		101	70	130	0	0	

Qualifiers:

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

Page 10 of 10



nuu environmeniai anaiysis laooraiory 4901 Hawkins NE

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

Sample Log-In Check List

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

Client Name: Ent	terprise	Work Order Number:	14087	774			RcptNo:	1
Received by/date:	LM	08 15/14			101-10			
Logged By: Ce	elina Sessa 8	/15/2014 8:00:00 AM			Celia	- 5	2000	
Completed By: Co	oline Şessa 8	/15/2014 9:35:43 AM			Celin	. 5	2	
Reviewed By:	A	20/15/24						
Chain of Custod	T/ x	08(1)						
1. Custody seals in	tact on sample bottles?		Yes		No		Not Present	
2. Is Chain of Custo	ody complete?		Yes		No		Not Present	
3. How was the san	nple delivered?		Cour	ier				
Log In								
4. Was an attempt	made to cool the samples?		Yes	V	No		NA 🗆	
5. Were all samples	s received at a temperature o	f >0° C to 6.0°C	Yes	V	No		NA 🗆	
6. Sample(s) in pro	per container(s)?		Yes		No			
7. Sufficient sample	volume for indicated test(s)?		Yes	V	No			
8. Are samples (exc	cept VOA and ONG) properly	preserved?	Yes	V	No			
9. Was preservative	added to bottles?		Yes		No		NA \square	
10.VOA viais have z	zero headspace?		Yes	₹	No		No VOA Viais	
11. Were any sample	e containers received broken	7	Yes		No		# of preserved	
10 -					No	п	bottles checked for pH:	
	match bottle labels? les on chain of custody)		Yes	(MZ)	MO			>12 unless noted)
578	rectly identified on Chain of C	uatody?	Yes	V	No		Adjusted?	
14. Is it clear what ar	nalyses were requested?		Yes	\checkmark				
F. C.	times able to be met? omer for authorization.)		Yes	V	No		Checked by:	
(,,,,								
Special Handling	<u>(if applicable)</u>							
16. Was client notifie	d of all discrepancies with thi	s order?	Yes		No		NA 🗹	
Person No	tified:	Date:						*
By Whom:		Via:] eMa	ll Ph	one 🗌	Fax	☐ In Person	
Regarding:	And the first the second second	and form of the part of a fact and a	Sade Santo	Subsupring a s	السلط وجود الأخا	*** - #** ***	- * *	
Client Instr	uctions:		-1			a		
17. Additional remai	ks:							
		l intact Seal No S	eal Da	te	Signed E	ly .		

C	hain-	of-Cu	stody Record	Tum-Around	lime:					B_10	A I				TI		ala		ni't	AL	
Cilent:	Tal.		ield Services LLC	M Standard	□ Rush				_											OR)	,
	ruer	rise r	TELO SECULOS CLE	Project Name												ai.co			110		
Mailing /	Address:			C-1- 11				400	14 LJ									100			
		614 1	Reilly Avenue	Cohn # Project #:	1					awkir				1000	15						
_ ravn	<u>111940</u>	α , $N \sim$	0+401					10	1. 50	5-345	-39	-	-	MANUFACTURE	-	uest	4107			75	
		7+16-	2467	7030413				0	2			-		1	N.S.C	ule Si			1		T
email or				Project Mana	ger:		21)	E	K.					Sol	S					-	
QA/QC P	-		T I aval 4 (Full Validation)	K. 1. S.			(8021)	Bas	5			SIMS)		Q	PCB's						8
Stand Accredit			☐ Level 4 (Full Validation)	-		(1) 11 10	4	H	DR(- 1	3							
□ NELA		□ Othe		On tobally with	OF Vac	H. Woods	100	MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270		Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082		3				E
□ EDD				Sample Tem	erature.	A STATE OF THE STA		띪	6	d 4	Q 20	5	fals	N.	des	2	(Semi-VOA)				5
						Made and the second		M	138	otte	et l	33	₩ ₩	E	stic	0	em;				الم
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type		×	*	8	3	3	18	\$	Suc	4	0B (s) o				4
				1 ype and #	1 9 20		ВТЕХ	BTEX+	百	리		PA	RCRA 8 Metals	Anic	808	8260B (VOA)	8270				Air
BIMIN	1110	Water	TMP-1	3-40mLVb4	Haciz	-001	X														I
8/14/4	1150	Water	TMP-2	3-40mLV04	Hacl 2	- 002	X														
			TMP-3	3-40mLUd	del.	-003	Х												•		T
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		TMP-4	3-40mLU0		-004	X											1			T
8/14/14	1418	Water	TMP-5	3-40miLVM	Hacle	-005	X														
PINFINE	1425	Water	TMP-4	3-40mLUD		-006	X														
8/14/14	1430	Water	TMP-7	3-40mLVa	Hacle	-007	X														
B/14/14	1438	Water	TMP-8	3-40MLVOR		-008	X														
			NFS.																		
			Hw																		
																					T
Date:	Time:	Relinquish	ed by:	Received by:		Date Time	Rei	mark	s: D	inec	t b	M	Enl	مروا	12:41						
8/14/14	1710	Fleat	kn M. Woods	1/ Mest	tre Was				A	Hn	To	m	حما	ng							
Date:	Time:	Relinquish	ed by:	Received by:	1/	Date Time						P	ay	Key	r '-	R	82	12	00		
MM	1815	Jun	the Valle	1	X 0	8/15/14000									.ecc						
1	f necessary,	samples sub	emitted to Hall Environmental may be sub	contracted to other	ccredited taborator	tes. This serves as notice of th	is poss	iblity.	Any s	ub-coni	racted	data	will be	e clea	rly not	ated o	n the a	analytic	cal repo	ort.	



CORRECTIVE ACTION REPORT

Property:

Cohn #1 Pipeline Release (11/08/2014)
NE 1/4, S25 T29N R10W
San Juan County, New Mexico

June 27, 2014 Apex Project No. 7030413G018

Prepared for:

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

Prepared by:

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CORRECTIVE ACTION REPORT

Cohn #1 Pipeline Release (11/08/2014)
NE 1/4, S25 T29N R10W
San Juan County, New Mexico

Apex Project No. 7030413G018

1.0 INTRODUCTION

1.1 Site Description & Background

The Cohn #1 pipeline release site is located within the Enterprise Field Services LLC (Enterprise) pipeline right-of-way (ROW) in the northeast (NE) ½ of Section 25 in Township 29 North and Range 10 West in San Juan County, New Mexico, referred to hereinafter as the "Site" or "subject Site". The Site is located on private property owned by Mack S. Cohn and is surrounded by river terrace vegetation periodically interrupted with oil and gas gathering facilities, including one (1) Enterprise natural gas gathering pipeline which traverses the area from southeast to northwest.

During December, 2013, Enterprise shut in the Cohn #1 pipeline and on December 18th, 2013, initiated excavation activities at the Site in an attempt to locate and repair a subsurface leak. The leak was subsequently identified and repaired. An unknown quantity of natural gas was released from the pipeline as a result of internal and external corrosion. The leak was identified by vapor monitoring at the ground surface. No surface expression of the release was evident.

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

1.2 Project Objective

The primary objective of the corrective actions was to reduce the concentration of chemicals of concern (COCs) in the on-Site soils to below the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), Oil Conservation Division (OCD) Remediation Action Levels using the New Mexico EMNRD OCD's Guidelines for Remediation of Leaks, Spills and Releases as guidance.

2.0 SITE RANKING

In accordance with the New Mexico ENMRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases*, Apex TITAN, Inc. (Apex), formerly Southwest Geoscience, utilized the general site characteristics obtained during the completion of corrective action activities to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the following table:



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

^{*}Groundwater was encountered during excavation activities.

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

- The Site is 520 feet from an unnamed wash, resulting in a ranking of "10" for distance to surface water.
- No water wells were identified on the Office of the State Engineer website database within the search radius. However, groundwater was encountered during excavation activities at approximately 9.5 feet below grade surface (bgs), resulting in a ranking of "20" for depth to groundwater.
- No water sources were identified within the search radius.

3.0 RESPONSE ACTIONS

3.1 Soil Excavation Activities

During December, 2013, Enterprise shut in the Cohn #1 pipeline and on December 18th, 2013, initiated excavation activities at the Site in an attempt to locate and repair a subsurface leak. The leak was subsequently identified and repaired. An unknown quantity of natural gas was released from the pipeline as a result of internal and external corrosion. The leak was identified by vapor monitoring at the ground surface. No surface expression of the release was evident. During the corrective action activities, West States Energy Contractors provided heavy equipment and labor support, and Kyle Summers, an Apex environmental professional, provided environmental support.

Excavation activities associated with the pipeline repair were completed on December 18th, 2013. Soil samples (S-1 to S-8) were collected subsequent to the pipeline repair activities on December 18th, 2013. The analyses of these initial soil samples demonstrated that hydrocarbon affected soils remained in place at the Site.

Corrective action excavation proceeded at the Site on April 23rd, 2014. The excavation was extended in all four (4) cardinal directions from the initial release point, and groundwater was encountered during the excavation activities. Subsequent to encountering groundwater in the excavation, Enterprise elected to remove and properly dispose of an estimated 300 bbls of the potentially affected groundwater to help facilitate remediation efforts and maintain a safer and more stable working environment in, and around, the excavation.

The overall surface expression of the final excavation measured approximately 65 feet long by 25 feet wide, with a total depth of approximately 12 feet bgs.



The lithology encountered during the completion of corrective action activities consisted primarily of unconsolidated sands, silty sands, and silty clays.

During excavation activities, air in the breathing zone was monitored to ensure that the Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (PEL) of 200 parts per million (ppm) Time Weighted Average (TWA) for an 8-hour work day was not exceeded. Additionally, Enterprise monitored the excavation for explosive atmosphere conditions and oxygen deficiency prior to any entries into the excavation.

Approximately 720 cubic yards of hydrocarbon affected soils were transported to the Envirotech, Inc. landfarm near Hilltop, NM for disposal/remediation. The executed C-138 forms are provided in Appendix B. The excavation was ultimately backfilled with clean imported fill and contoured to surrounding grade.

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

3.2 Soll and Water Sampling Program

Apex screened head-space samples of Site soils with a photoionziation detector (PID) fitted with a 10.6 eV lamp to estimate excavation limits.

Apex's soil sampling program included the collection of eighteen (18) final confirmation samples (S-9 through S-26) from the resulting excavation for laboratory analysis. Figure 3 depicts the approximate location of the excavated areas and shows the final confirmation sample locations in relation to the final excavation dimensions (Appendix A).

A water sample was collected from the open excavation and submitted for laboratory analysis, to evaluate the potential for groundwater impact at the Site. The water sample was collected utilizing a disposable bailer.

The samples were collected and placed in laboratory prepared glassware, labeled/sealed using the laboratory supplied labels, and placed on ice in a cooler, which was secured with a custody seal. The sample cooler and completed chain-of-custody forms were relinquished to Envirotech, Inc. Analytical Laboratory in Bloomfield, New Mexico, and/or Hall Environmental Analysis Laboratory in Albuquerque, New Mexico for analysis.

3.3 Laboratory Analytical Methods

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

Laboratory results are summarized in Table 1 and Table 2, 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, the New Mexico EMNRD OCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the OCD rules, specifically NMAC 19.15.30 *Remediation*. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

4.1 Confirmation Soil Samples

Apex compared the BTEX and TPH concentrations or reporting limits (RLs) associated with the final confirmation samples collected from the excavated area to the OCD Remediation Action Levels (RALs) for sites having a total ranking score of "30".

- The laboratory analyses of confirmation samples collected from soils remaining in place do not indicate benzene concentrations above laboratory RLs, which are below the OCD RAL.
- The laboratory analyses of the confirmation samples collected from soils remaining in place do not indicate total BTEX concentrations above the laboratory RLs, which are below the OCD RAL.
- The laboratory analyses of the confirmation sample collected from soils remaining in place indicate combined TPH GRO/DRO concentrations ranging from below the laboratory detection limits to 30.5 milligrams per Kilogram (mg/Kg) which are below the OCD RAL..

Confirmation sample results are provided in Table 1 in Appendix D.

4.2 Water Sample

Apex compared the BTEX concentrations associated with the water sample collected from the open excavation area to the New Mexico Water Quality Control Commission (WQCC) Groundwater Quality Standards (GQSs).

- The laboratory analysis of the water sample (WS-1) indicates a benzene concentration of 780 micrograms/Liter (µg/L), which exceeds the WQCC GQS if 10 µg/L.
- The laboratory analysis of WS-1 indicates a toluene concentration of 750 μg/L, which is equal to the WQCC GQS of 750 μg/L.
- The laboratory analysis of WS-1 indicates an ethylbenzene concentration of 60 μg/L, which is below the WQCC GQS of 750 μg/L.
- The laboratory analysis of WS-1 indicates a total xylenes concentration of 730 µg/L, which exceeds the WQCC GQS of 620 µg/L.

The laboratory analysis of water sample WS-1 identified a TPH GRO concentration of 5.2 milligrams per Liter (mg/L) and a TPH DRO concentration of 5.2 mg/L. TPH GRO/DRO do not have established WQCC GQSs.

It should be noted that due to the "mixing/blending" nature of excavation activities, as well as the characteristics of the native media comprising the local aquifer and vadose zone, open



excavation water sample analyses are sometimes not indicative of actual groundwater concentrations in the area.

5.0 FINDINGS AND RECOMMENDATIONS

The Cohn #1 pipeline release site is located within the Enterprise pipeline ROW in the NE ¼ of Section 25 in Township 29 North and Range 10 West in San Juan County, New Mexico. The Site is located on private property owned by Mack S. Cohn and is surrounded by river terrace vegetation periodically interrupted with oil and gas gathering facilities, including one (1) Enterprise natural gas gathering pipeline which traverses the area from southeast to northwest.

During December, 2013, Enterprise shut in the Cohn #1 pipeline and on December 18th, 2013, initiated excavation activities at the Site in an attempt to locate and repair a subsurface leak. The leak was subsequently identified and repaired. An unknown quantity of natural gas was released from the pipeline as a result of internal and external corrosion. No surface expression of the release was evident. Soil impact at the Site was remediated by physical removal (excavation).

- The primary objective of the corrective actions was to reduce the concentration of COCs in the on-Site soils to below the New Mexico EMNRD OCD RALs using the New Mexico EMNRD OCD's Guidelines for Remediation of Leaks, Spills and Releases as guidance.
- The lithology encountered during the completion of corrective action activities consisted primarily of unconsolidated silty-sands.
- The overall surface expression of the final excavation measured approximately 65 feet long by 25 feet wide, with a total depth of approximately 12 feet bgs.
- Groundwater was encountered during the corrective action excavation activities. A water sample was collected from the open excavation and submitted for laboratory analysis.
- The laboratory analysis of the water sample indicates a benzene concentration of 780 micrograms/Liter (μg/L), which exceeds the WQCC GQS if 10 μg/L.
- The laboratory analysis of WS-1 indicates a toluene concentration of 750 μg/L, which is equal to the WQCC GQS of 750 μg/L.
- The laboratory analysis of WS-1 indicates a total xylenes concentration of 730 μg/L, which exceeds the WQCC GQS of 620 μg/L.
- Prior to backfilling, eighteen (18) final confirmation samples were collected from the
 resulting excavation for laboratory analyses. Based on analytical results, soils remaining
 in place do not exhibit COC concentrations above the OCD RALs for a Site ranking of
 "30".
- A total of approximately 720 cubic yards of hydrocarbon affected soils were transported to the Envirotech, Inc. landfarm near Hilltop, NM for disposal/remediation. The excavation was ultimately backfilled with clean imported fill and contoured to surrounding grade.

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



6.0 STANDARD OF CARE, LIMITATIONS, AND RELIANCE

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

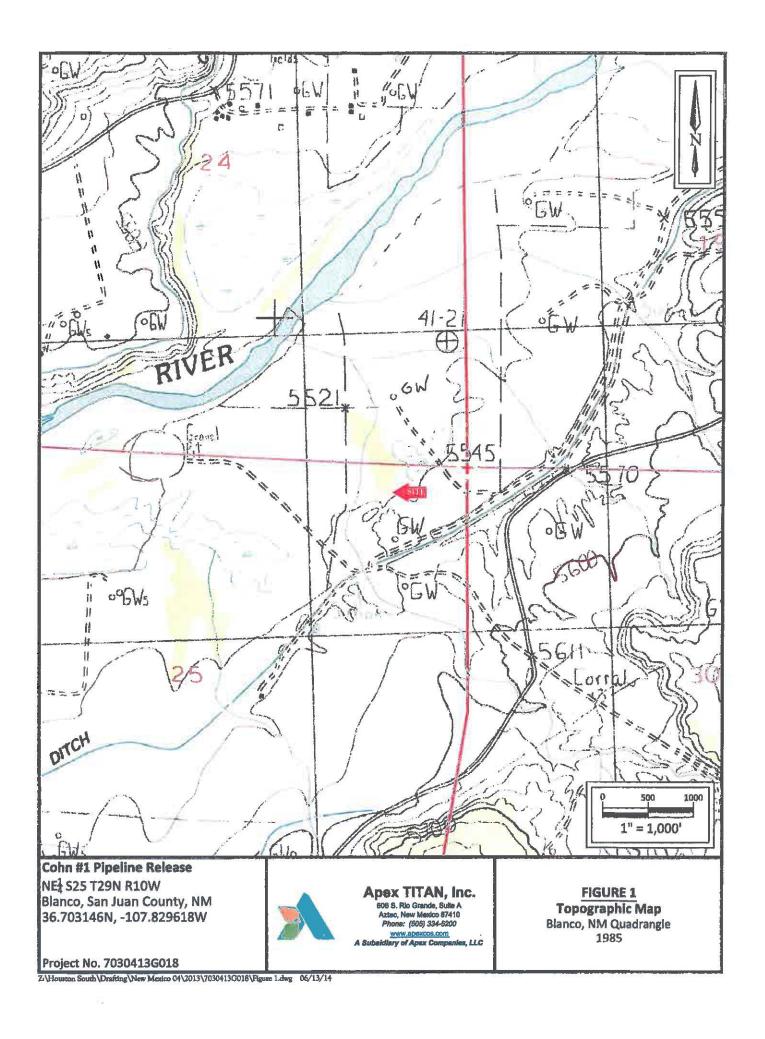
Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence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

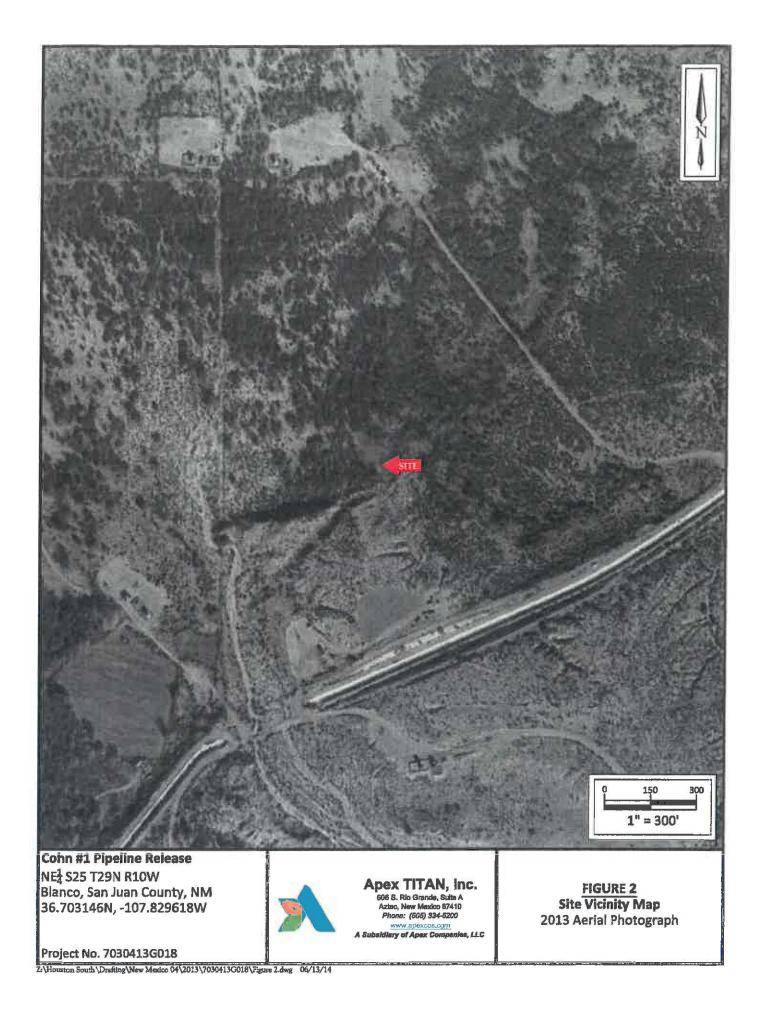
This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the expressed written authorization of Enterprise and Apex. Any unauthorized distribution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

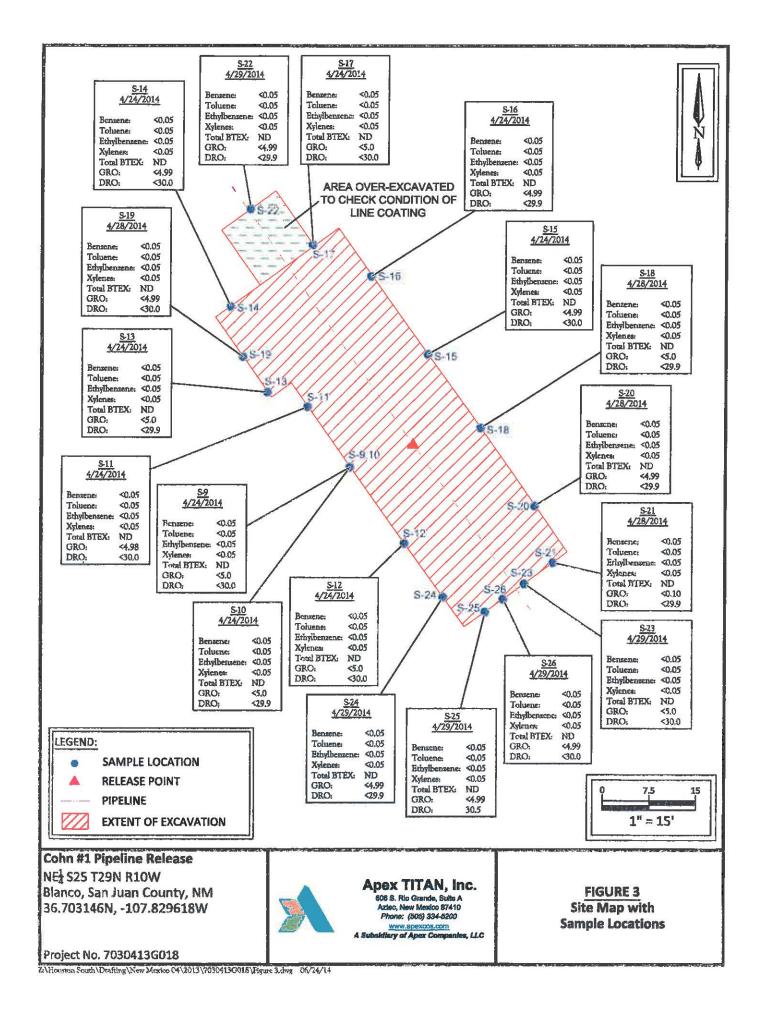


APPENDIX A

Figures









APPENDIX B

Executed C-138 Solid Waste Acceptance Forms

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

State of New Mexico Energy Minerals and Natural Resources 9 7857-0633 Revised August 1, 2011

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

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

Form C-138

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE
1. Generator Name and Address:
Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401
2. Originating Site: Cohn 29-10-25 #1 Pipeline Release
3. Location of Material (Street Address, City, State or ULSTR): Unit A Sec 25 T 29N R 10W;36.70314, -107.829618, San Juan County, NM
4. Source and Description of Waste: Hydrocarbon impacted soil from a pipeline excavation. 5. Estimated Volume 200 vd bbls Known Volume (to be entered by the operator at the end of the haul) vd bbls
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS
I, Thomas Long representative or authorized agent for Enterprise Field Services, LLC do hereby
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, 4-23-14 , representative for Enterprise Field Services, LLC authorize Envirotech, Inc. to
complete the required testing/sign the Generator Waste Testing Certification.
I, 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.
6. Transporter: West States Energy Contractors - M 05.5
OCD Permitted Surface Waste Management Facility
Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility Permit # NM-01-0011 Address of Facility: #43 Road 7175, South of Bloomfield NM Method of Treatment and/or Disposal:
☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other
Waste Acceptance Status: APPROVED DENIED (Must Be Maintained As Permanent Record)
PRINT NAME: Kendra Running TITLE: Waste Coordinator DATE: 4/23/14
SIGNATURE: No. (505) 632-0615 Surface Waste Management Facility Authorized Agent TELEPHONE NO. (505) 632-0615



MANIFEST # 46557

DATE 4/23/14 JOB # 97657 - 0633

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COMPANY CONTACT Lee MOSS	PHONE_	801-1803	DATE 4-24-14
Signatures required prior to distribution of the legal document.			



MANIFEST # 46574

DATE 4/25/14 JOB # 97057-0633

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

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mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. WOSS EX NAME O NAME SIGNATURE SIGNATURE COMPANY CONTACT See Woss PHONESOS 801803 DATE \$\frac{4}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25}\frac{1}{25



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PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

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TRANSPORTER CO.	Wass Ex	NAME OLKDOSON	SIGNATURE ORKOUSA
COMPANY CONTACT.	OJ KOLZU	PHONE 976 553 0393	SIGNATURE OSKOBOL DATE 4/28/14

Signatures required prior to distribution of the legal document.



MANIFEST#	465	86		
DATE 2//20		JOB#	97057	0633

PHONE	: (505) 632-0615 • 579	96 U.	S. HIGHWAY 64	 FARMINGTON 	NEW ME	XICO 8740)1	-17-0			
LOAD	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY				
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/	PAINT FILTER TEST Certification of above receival & placement						10				

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. WOES EX	NAME	OIKODZa	SIGNATURE	roekdza
COMPANY CONTACT OS 60020	_ PHONE _	9705530393	_ DATE	4128794



MANIFEST # 46592

DATE 4/29/14 JOB # 97057-0633

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON NEW MEXICO 87401

LOAD	COMPLETE DESCRIPTION OF SHIPMENT					TRANSPORTING COMPANY				
NO.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
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mentioned Generator/Point of Origin and that no additiona	material has been added or mixed into the load.	ža.	.	
TRANSPORTER CO. MOSS GURLSATTED	NAME NOTher BASSIENCE	SIGNAT	URE Thin 3	William .
COMPANY CONTACT Note - B. Mc Bing of the local down		_ DATE_	4-29-14	



MANIFEST# 46593

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

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by signing as the driver/transporter, I certify the material hauled from the	ine above location has not been added to o	or tampered with. I certify the m	aterial is from the above
mentioned Generator/Point of Origin and that no additional material ha	as been added or mixed into the load.	101	12 7
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COMPANY CONTACT NOW BY MERINARY PHON	340	DATE 4 29. 14	, , ,



MANIFEST # 46605

DATE 4.30-14 JOB# 97057-0633

ME- (FOE) 632-0645 - 5706 H.S. HIGHWAY 64 - FARMINGTON NEW MEYICO 97404

: (505) 632-0615 • 5796 U	.S. HIGHWAY 64	• FARMING TON	, NEW ME	(ICO 8/4)	דנ		- A Article	- dipension	
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By signing as the driver/transporter, I certify the material hauled	from the above location has not been added to	or tampered with. I certify the material is from the above
mentioned Generator/Point of Origin and that no additional mate	erial has been added or mixed into the load.	1
TRANSPORTER CO. MOSS EX	NAME NEGHAN B-WKinney	SIGNATURE THE SMILE
COMPANY CONTACT CER , MUSS	PHONE 801-1803	DATE 4-30-14
COMPANY CONTACT CERTIFIED SS	PHONE 001-1803	DATE OUT T
Signatures required prior to distribution of the legal document		



MANIFEST # 46606

DATE 4.30-14 JOB# 97057-0633

PLIONE / FOS) 632,0615 . 6706 H.S. HIGHWAY 64 . FARMINGTON NEW MEYICO 97401

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TRANSPORTER CO. MUSS EX.	NAME Noth - B. Miknas	SIGNATURE	Yala S.M.	c).
/	PHONE 801-1803		-30-14	
Signatures required prior to distribution of the legal document			and the same of the parameter manage and the same supplying	



MANIFEST # 46619

DATE 5-1-14 JOB # 97057-0633

DUDNE, (SOE) DOD DOLE - ETOC LLO LUCURNAY DA - EARMINISTONI NEW MEYICO 07404

7 110142	: (505) 632-0615 • 5796 U				XICO 6/40	,1	*********	DENIO	001101	
LOAD	COM	PLETE DESCRIPT	TON OF SHIPME	NT			TRANSPO	RTING	COMPAI	NY
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mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.	
TRANSPORTER CO. MOSS EXCANATION NAME Nagle B. M. SIGNATURE SIGNATURE SIGNATURE	7
COMPANY CONTACT ASE MOSS PHONE 801-1803 DATE 5-1-14	
Signatures required prior to distribution of the legal document	



ANIFEST#	4	66	20		

DATE 5-1-14 JOB # 97057-0633

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401 COMPLETE DESCRIPTION OF SHIPMENT TRANSPORTING COMPANY LOAD NO. POINT OF ORIGIN DESTINATION GRID **COMPANY DRIVER SIGNATURE** MATERIAL YDS BBLS TRK# TIME Colon Enterprise Clean Enumoteun moss ex 10 landfa-n 24-10-25 红腹 2 MOSC 10 11 3 10 Moss 30 RESULTS: Bow NOTES: LANDFARM **CHLORIDE TEST** EMPLOYEE: PAINT FILTER TEST Certification of above receival & placement

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above
nentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.
TRANSPORTER CO. MOSS Facas 2017 82 NAME Nothing B. M. Signature /
COMPANY CONTACT 166 MOSS PHONE 801-1803 DATE 5-1-14
Signatures required prior to distribution of the legal document



APPENDIX C

Photographic Documentation



SITE PHOTOGRAPHS

Photograph 1

Release area prior to excavation activities.



Photograph 2

Initial excavation after line repairs completed.



Photograph 3

Removing impact on west side of excavation. Note dark anaerobic material from natural decay processes.





SITE PHOTOGRAPHS

Photograph 4

Removing impacted material from northwest portion of excavation.



Photograph 5

Excavation prior to stripping back soil along pipeline.



Photograph 6

General view of reclaimed area after excavation backfill.





APPENDIX D

Tables



TABLE 1 Cohn #1 Pipeline Release SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Depth (feet)	Senzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	
	Entergy, Mineral & Natural Resources Oil Conservation Division, Remediation Action Level		10	NE	NE	NE	50	100		
			S	umples for Soils R	emoved by Excavatio	0	*/			
S-1	12/18/2013		2.73	31.3	6.33	73.6	114	397	690	
S-2	12/18/2013		8.11	78.7	15.4	165	267	806	3,850	
S-3	12/18/2013		<0.50	24.1	1.69	60.1	85.9	489	4,190	
S-4	12/18/2013		< 0.05	< 0.05	<0.05	<0.05	ND	6,23	285	
S-5	12/18/2013		<0.50	5.93	<0.50	18.7	24.6	207	1,550	
S-6	12/18/2013		<0.05	3.18	0.60	10.4	14.2	75.6	696	
S-7	12/18/2013		<0.05	< 0.05	<0.05	< 0.05	ND	7.19	103	
S-8	12/18/2013		<0.50	23.6	2.22	66.6	92,4	548	2,270	
			· · · · · · · · · · · · · · · · · · ·	Shockel	e Samples					
SP-1	4/7/2014		<0.12	< 0.25	<0.25	3.2	3.2	120	1,900	
SP-2	4/7/2014		<0.12	1.5	0.38	7.2	9.08	110	1,200	
art is to be the best of the contract of the same of			Confin	manion estimates de	Solis Remaining in					
S-9	4/24/2014		<0.05	<0.05	<0.05	<0.05	ND I	<5.00	<30.0	
S-10	4/24/2014		<0.05	< 0.05	< 0.05	< 0.05	ND I	<5.00	<29.9	
S-11	4/24/2014	i i	<0.05	< 0.05	<0.05	<0.05	ND I	<4.98	<30.0	
S-12	4/24/2014		< 0.05	< 0.05	<0.05	< 0.05	ND I	<5.00	<30.0	
S-13	4/24/2014		<0.05	< 0.05	<0.05	<0.05	ND	<5.00	<29.9	
S-14	4/24/2014		<0.05	< 0.05	<0.05	<0.05	ND	<4.99	<30.0	
S-15	4/24/2014		<0.05	<0.05	<0.05	< 0.05	ND	<4.99	<30.0	
S-16	4/24/2014		< 0.05	< 0.05	<0.05	< 0.05	ND	<4.99	<29.9	
S-17	4/24/2014		< 0.05	<0.05	<0.05	< 0.05	ND I	<5.00	<30.0	
S-18	1 4/28/2014		<0.05	<0.05	<0.05	< 0.05	ND	<5.00	<29.9	
S-19	4/28/2014		< 0.05	<0.05	<0.05	<0.05	ND	<4.99	<30.0	
S-20	4/28/2014		<0.05	<0.05	<0.05	<0.05	ND	<4.99	<29.9	
S-21	4/28/2014		<0.05	<0.05	<0.05	<0.05	ND	<0.10	<29.9	
S-22	4/29/2014		<0.05	<0.05	<0.05	<0.05	ND	<4.99	<29.9	
S-23	4/29/2014		<0.05	<0.05	<0.05	<0.05	ND	<5.00	<30.0	



TABLE 1 Cohn #1 Pipeline Release SOIL ANALYTICAL SUMMARY

Sample 1.0.	Date	Sample Depth (feet)	Benzene (mg/kg)	foluene (mg/kg)	Ethylbenzene (mg/kg)	Xyleries (mg/kg)	Total BTEX (mg/kg)	TPH GRO	TPH DRO
1-11-11-11-11-11-11-11-11-11-11-11-11-1		أحسسا			(mg/kg)		(mg/kg)		
New Mexico Entergy, Minoral & Natural Resources Department, Oil Conservation Division, Remediation Action Level		10	NE	NE	NE	50	100		
S-24	4/29/2014		<0.05	<0.05	<0.05	<0.05	ND I	<4.99	<29.9
S-25	4/29/2014		<0.05	<0.05	<0.05	<0.05	ND ND	<4.99	30.5
S-26	4/29/2014		<0.05	< 0.05	<0.05	<0.05	ND	<4.99	<30.0

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

NA = Not Analyzed

NE = Not Established

ND = Not Detected



TABLE 2 Cohn #1 Pipeline Release WATER ANALYTICAL SUMMARY

Sample I.D. Date		Benzene (μg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		10	750	750	620	NE	NE
WS-1	4/29/2014	780	750	60	730	5.2	5.2

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

NA = Not Analyzed
NE = Not Established



APPENDIX E

Laboratory Data Reports & Chain-of-Custody Documentation



Analytical Report

Report Summary

Client: Enterprise Products

Chain Of Custody Number: 16451

Samples Received: 12/18/2013 3:36:00PM

Job Number: 03022-0001 Work Order: P312087

Project Name/Location: Cohn #1

Entire Report Reviewed By:

Date:

12/20/13

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



Project Name:

Cohn#1

614 Reilly Ave Farmington NM, 87401 Project Number: Project Manager: 03022-0001 Kyle Summers-SW Geoscience Reported: 20-Dec-13 10:55

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S-1	P312087-01A	Soil	12/18/13	12/18/13	Glass Jar, 4 oz.
S-2	P312087-02A	Soil	12/18/13	12/18/13	Glass Jar, 4 oz.
S-3	P312087-03A	Soil	12/18/13	12/18/13	Glass Jar, 4 oz.
S-4	P312087-04A	Soil	12/18/13	12/18/13	Glass Jar, 4 oz.
S-5	P312087-05A	Soil	12/18/13	12/18/13	Glass Jar, 4 oz.
S-6	P312087-06A	Soil	12/18/13	12/18/13	Glass Jar, 4 oz.
S-7	P312087-07A	Soil	12/18/13	12/18/13	Glass Jar, 4 oz.
S-8	P312087-08A	Soil	12/18/13	12/18/13	Glass Jar, 4 oz.



Farmington NM, 87401

Project Name:

Cohn#1

614 Reilly Ave

Project Number:

03022-0001

Project Manager:

Kyle Summers-SW Geoscience

Reported: 20-Dec-13 10:55

S-1 P312087-01 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Volatile Organics by EPA 8021									
Benzene	2.73	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
Γoluene	31.3	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
Ethylbenzene	6.33	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
p,m-Xylenc	59.6	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
o-Xylene	14.0	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
Total Xylenes	73.6	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
Total BTEX	114	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
Surrogate: Bromochlosobensene		182 %	80	-120	1351031	12/18/13	12 19 13	EPA 8021B	S-02
Surrogate: 1,3-Dichlorobenzene		316 %	80	-120	1351031	12 18 13	12:19 13	EPA 8021B	S-02
Nonhalogenated Organics by 8015						4			
Gasoline Range Organics (C6-C10)	397	5.00	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8015D	
Diesel Range Organics (C10-C28)	690	30.0	mg/kg	.1	1351030	12/18/13	12/19/13	EPA 8015D	
GRO and DRO Combined Fractions	1090	5.00	mg/kg		[CALC]	12/18/13	12/19/13	EPA 8015D	



Farmington NM, 87401

Project Name:

Cohn #1

614 Reilly Ave

Project Number:

03022-0001

Project Manager:

Kyle Summers-SW Geoscience

Reported: 20-Dec-13 10:55

S-2 P312087-02 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	8.11	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
Toluene	78.7	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
Ethylbenzene	15.4	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
p,m-Xylene	132	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
o-Xylene	32.3	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
Total Xylenes	165	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
Tota! BTEX	267	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
Surrogate: Bromochlorobenzene		267 %	80	-120	1351031	12/18/13	12/19/13	EPA 8021B	S-02
Surrogate: 1,3-Dichlorobenzene		600 %	80	-120	1351031	12:18:13	12-19-13	EPA 8021B	S-02
Nonhalogenated Organics by 8015		all distributions in the second							
Gasoline Range Organics (C6-C10)	806	4.99	mg/kg	1	1351931	12/18/13	12/19/13	EPA 8015D	
Diesel Range Organics (C19-C28)	3850	29.9	mg/kg	1	3351030	12/18/13	12/19/13	EPA 8015D	
GRO and DRO Combined Fractions	4660	4.99	mg/kg		[CALC]	12/18/13	12/19/13	EPA 8015D	



Enterprise Products 614 Reilly Ave Farmington NM, 87401 Project Name:

Cohn#1

Project Number:

03022-0001

Project Manager:

Kyle Summers-SW Geoscience

Reported: 20-Dec-13 10:55

S-3 P312087-03 (Solid)

Prepared	Analyzed	Method N
Prepared	Analyzed	Method N
		7777711VM 1
12/19/13	12/19/13	EPA 8021B
12:19:13	12-19 13	EPA 8021B
12 19 13	12 19 13	EPA 8021B
12/19/13	12/19/13	EPA 8015D
12/19/13	12/19/13	EPA 8015D
12/19/13	12/19/13	EPA 8015D
	12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13	12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13



Farmington NM, 87401

Project Name:

Cohn #1

614 Reilly Ave

Project Number: Project Manager: 03022-0001 Kyle Summers-SW Geoscience Reported:

20-Dec-13 10:55

S-4 P312087-04 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Total BTEX	MD	9.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Surrogate: Bromochlorobenzene		110 %	80-	-120	1351031	12/19/13	12/19/13	EPA 8921B	
Surrogate: 1,3-Dichlorobenzene		108 %	80-	-120	1351031	12 19,13	12 19-13	EPA 8921B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	6.23	4.98	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8015D	
Diesel Range Organics (C10-C28)	285	30.0	mg/kg	1	1351030	12/19/13	12/19/13	EPA 8015D	
GRO and DRO Combined Fractions	291	4.98	mg/kg		[CALC]	12/19/13	12/19/13	EPA 8015D	



Project Name:

Cohn#1

614 Reilly Ave

Project Number:

03022-0001

Farmington NM, 87401 Project Manager:

Kyle Summers-SW Geoscience

Reported: 20-Dec-13 10:55

S-5 P312087-05 (Solid)

		Reporting							
Analyte	Resuit	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									1023
Benzene	ND	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
Toluene	5.93	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
Ethylbenzene	ND	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
p,m-Xylene	17.7	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
p-Xylene	1.01	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
Total Xylenes	18.7	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
Lotal R.CEX	24.6	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
Surrogate: Bromochlorobenzene		103 %	80	-120	1351031	12:19:13	12:19 13	EPA 8021B	
Surrogide: 1,3-Dichlorobenzene		103 %	80	-120	1351031	12-19.13	12:19:13	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	207	49.9	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8015D	
Diesel Range Organics (C10-C28)	1550	29.9	mg/kg	t	1351030	12/19/13	12/19/13	EFA 8015D	
GRO and DRO Combined Fractions	1760	29.9	mg/kg		[CALC]	12/19/13	12/19/13	EPA 8015D	



Project Name:

Cohn #1

614 Reilly Ave Farmington NM, 87401 Project Number: Project Manager: 03022-0001 Kyle Summers-SW Geoscience Reported: 20-Dec-13 10:55

S-6 P312087-06 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Toluene	3.18	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Ethylbenzene	0.60	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
p,m-Xylene	8.80	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
o-Xylene	1.57	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Total Xylenes	10.4	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Total BTEX	14.2	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		116%	80	-120	1351031	12/19/13	12/19/13	EPA 8021B	
Surrogate: Bromochlorobenzene		128 %	80	-120	1351031	12:19:13	12:19 13	EPA 8021B	S-02
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	75.6	4.99	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8015D	
Diesel Range Organics (C10-C28)	696	30.0	mg/kg	1	1351030	12/19/13	12/19/13	EPA 8015D	
GRO and DRO Combined Fractions	771	4.99	mg/kg		[CALC]	12/19/13	12/19/13	EPA 8015D	



Project Name:

Cohn#1

614 Reilly Ave

Project Number. Project Manager: 03022-0001

Farmington NM, 87401

Kylc Summers-SW Geoscience

Reported: 20-Dec-13 10:55

S-7 P312087-07 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	I	1351031	12/19/13	12/19/13	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Surrogate: Bromochlorobenzene		105 %	80	-120	1351031	12 19/13	12:19 13	KP.4 8021B	
Surrogate: 1,3-Dichlorobenzene		106 %	80	-120	1351031	12:19:13	12:19:13	ISPA 8021H	
Nonhalogenated Organics by 8015				4.0					
Gasoline Range Organics (C6-C10)	7.19	5,00	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8015D	
Diesel Range Organies (C10-C28)	103	29.9	mg/kg	ı	1351030	12/19/33	12/19/13	EPA 8015D	
GRO and DRO Combined Fractions	110	5.00	mg/kg		[CALC]	12/19/13	12/19/13	EPA 8015D	

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laboratory sensing ethoric tom



Farmington NM, 87401

Project Name:

Cohn #1

614 Reilly Ave

Project Number: Project Manager: 03022-0001 Kyle Summers-SW Geoscience Reported:

20-Dec-13 10:55

S-8 P312087-08 (Solid)

	Reporting							
Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ND	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
23.6	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
2,22	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
55.9	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
10.8	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
66.6	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
92.5	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
	112%	80	-120	1351031	12/19/13	12-19/13	EPA 8021B	
	113 %	80	-120	1351031	12/19/13	12 19 13	EPA 8021B	
548	49.8	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8015D	
2720	29.9	mg/kg	1	1351030	12/19/13	12/19/13	EPA 8015D	
3270	29.9	mg/kg		[CALC]	12/19/13	12/19/13	EPA 8015D	
	ND 23.6 2.22 55.9 10.8 66.6 92.5	ND 0.50 23.6 0.50 2,22 0.50 55.9 0.50 10.8 0.50 66.6 0.50 92.5 0.50 112 % 113 % 548 49.8 2720 29.9	ND	ND	ND	ND	ND	ND



Farmington NM, 87401

Project Name:

Cohn #1

614 Reilly Ave

Project Number:

03022-0001

Project Manager:

Kyle Summers-SW Geoscience

Reported: 20-Dec-13 10:55

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

ts		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1351031 - Purge and Trap EPA	5030A	0.000+1.								
Blank (1351031-BLK1)				Prepared:	18-Dec-13	Analyzed:	19-Dec-13			
Benzenc	ND	0.05	mg/kg	2.12 444 11.14						
Toluene	ND	0.05								
Ethylbenzene	ND	0.05	*							
p,m-Xylene	ND	0.05	ır							
o-Xylene	ND	0.05	+							
Total Xylenes	ND	0.05	*							
Cotal BTEX	ND	0.05	70							
Surrogate: 1,3-Dichlarobenzene	52.6		ug'L	50.0		105	80-120			
Surrogate: Bromochlorobensene	53.5		"	50.0		107	80-120			
Duplicate (135103)-DUP1)	Sour	e: P312087-	01	Prepared: I	8-Dee-13	Analyzed:	19-Dec-13			
Besizone	ND	0.50	mg/kg		2.73				30	Di
Cohene	17.4	0.50	10		31,3			57.0	30	DI
Ethylbenzene	0.67	0.50	411		6,33			162	30	DI
p,m-Xylene	40.6	0.50	391.3		59.6			38.0	30	D1
-Xylene	6.19	0.50			14.0			77.2	30	D 1
Surrogate: 1.3-Dichlorohenzene	58.2		ugL	50.0		116	80-120			
Surrogate: Bromochlorobenzene	58.3		P	50.0		117	80-120			
Matrix Spike (1351031-MS1)	Source	e; P312087-	01	Prepared: 1	8-Dec-13	Analyzed:	19-Dec-13			
Senzene	56.9		ug/L	50.0	5.48	103	39-150			
Foluene	110		9	50.0	62.7	93.6	46-148			
Ethylbenzene	63.8		41	50.0	12.7	102	32-160			
nn-Xylone	230		74	100	119	111	46-148			
-Xylese	76.7		P	50.0	28.0	97.4	46-148			
Surrogate: 1,3-Dichlorobenzens	57.2		in 1	50.0		114	89-120			
Surrogate: Bromochlorohenzene	58.9		#	50.0		118	80-120			

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Farmington NM, 87401

Project Name:

Cohn#1

614 Reilly Ave

Project Number:

03022-0001

Project Manager:

Kyle Summers-SW Geoscience

Reported: 20-Dec-13 10:55

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

	50.	Reporting		Spike	Source	V 2012/2012/00/2017	%REC	100 (02)60-	RPD			
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes		
Batch 1351030 - DRO Extraction EPA 3550C												
Blank (1351030-BLK1)				Prepared:	18-Dec-13	Analyzed:	19-Dec-13		-33-2			
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg									
Duplicate (1351030-DUP1)	Sour	rce: P312087-	01	Prepared: 1	18-Dec-13	Analyzed:	19-Dec-13			ggs —sekokat		
Diesel Range Organics (C10-C28)	671	30,0	mg/kg		590			2.78	30			
Matrix Spike (1351030-MS1)	Sous	rce: P312087-	01	Prepared: 1	18-Dec-13	Analyzed:	19-Dec-13					
Diesel Range Organics (C10-C28)	940	31.6	mg/kg	263	690	95.1	75-125					



Enterprise Products 614 Reilly Ave

Farmington NM, 87401

Project Name:

Project Manager:

Cohn #1

Project Number:

03022-0001 Kyle Summers-SW Geoscience

Reported: 20-Dec-13 10:55

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
D-4-1 1251025 D FD 4 5020 4	***									
Batch 1351031 - Purge and Trap EPA 5030A										
Blank (1351031-BLK1)				Prepared:	18-Dec-13	Analyzed:	19-Dec-13			
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg				11.00			
Duplicate (1351031-DUP1)	Sour	ce: P312087-	01	Prepared: 1	18-Dec-13	Analyzed:	19-Dec-13			
Gasoline Rauge Organics (C6-C10)	0.84	0.10	mg/kg		397	-1	5 / W 5 X 5 W 7 V	199	30	DI
Matrix Spike (1351031-MS1)	Sour	ce: P312087-	01	Prepared:	18-Dec-13	Analyzed:	19-Dec-13			
Gasoline Range Organics (C6-C10)	1.36	3773	mg/L	0.450	0.80	126	75-125			SPK1, Surt2

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5796 US Highway 64, Farmington, NM 87401

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Farmington NM, 87401

Project Name:

Cohn #1

614 Reilly Ave

Project Number:

03022-0001

Reported:

Project Manager:

Kyle Summers-SW Geoscience

20-Dec-13 10:55

Notes and Definitions

Surr2 Surrogate recovery was below acceptable limits.

SPK1 The spike recovery for this QC sample is outside of control limits.

S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present

in the sample extract.

D1 Duplicates or Matrix Spike Duplicates Relative Percent Difference exceeds 30%.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

cry Sample results reported on a dry weight basis

RPD Relative Percent Difference

			C	H	AIN O	E C	US'	ГО	D	Y	R	E	C	OF	RE)			1	64	51			of 15
Client: Enterprise / 5	WG	;		Pro	Conn #	nn:					CRO				A	NALY	/SIS	/ PAF	RAME	ETER	S			1600
Email results to: ky le, su south west geoscie h	MM Le,	R FL Com	1	Sar	ngler Name: Sum	me	25				015)	8021)	3260)					_						
Client Phone No.: 903 921 5603				Clie	ont No.: 03027	2700	001				TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion		TCLP with H/P	CO Table 910-1	118.1)	RIDE		į	Sample Cool	Sample Intact
Sample No./ Identification	Sam	te ,	Samp Tim		Lab No.	No./\	olume ntainers	Pro HNO ₃	HCI	ive	TPH (BITEX	VOC (RCRA	Cation	RCI	TOLP	CO Ta	TPH (418.1)	CHLORIDE			Sampl	Sampl
5-1	12/1	8/13	103	0	P312087-01	1 x	40x				X	X											Y	Y
5-2			103.	5	P312087-02	1																	1	
.5-3			104		P312087-03						Ц	Ц											$\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!\!$	Ш
5-4			104		P312087-04						Ш	Щ											\parallel	Ш
5-5			105		P317087-05																			Ш
5-6			105.	5	P312087-06							Ш											L	Ш
5-7			110		P3120817-07						Ц	\coprod		_							\Box		\parallel	\coprod
5-8	V	,	110	3	P3120871-08	\ \	<i>b</i>				V	4										_	1	4
	R.	NE	2																				<u> </u>	\square
Relinguished/by: (Signature)						Date / 2/19/	Time 15.36	Recei	ved t	by: (S	ignat	ture).						1				Date 12/14		Time 53/3
Relinquished by: (Signature)								Recei	ved b	y: (S	ignat	ture)					1						1	
Sample Matrix Soil Soil Solid Sludge	Aqueo	ous [) Othe	or 🗆				RU	15	H			RB	2,/	20	-					1			
□ Sample(s) dropped off after	hours	to sec	cure dro	p of	farea.	3 6	en V And	ir () †	e (C I	1												

5795 US Highway 64 a Farmington, NM 87401 a 505-632-0615 a Three Springs a 65 Mercado Street, Suite 115, Durango, CO 81301 a laboratory@envirotech-inc.com



Analytical Report

Report Summary

Client: Apex TITAN, Inc.

Chain Of Custody Number: 16915

Samples Received: 4/24/2014 2:55:00PM

Job Number: 07174-0003 Work Order: P404080

Project Name/Location: Cohn #1

		10			
Entire Report Reviewed By:			Date:	4/28/14	
Entire Report Reviewed By:	Tim Cain, Lab	poratory Manager			

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



606 S. Rio Grand, Suite A Aztec NM, 87410 Project Name:

Cohn #1

Project Number:

07174-0003

Project Manager:

Kyle Summers

Reported: 28-Apr-14 13:47

Analyical Report for Samples

Client Sample 1D	Lab Sample ID	Matrix	Sampled	Received	Container
S-9	P404080-01A	Solid	04/24/14	04/24/14	Glass Jar, 4 oz.
S-10	P404080-02A	Solid	04/24/14	04/24/14	Glass Jar, 4 oz.
S-11	P404080-03A	Solid	04/24/14	04/24/14	Glass Jar, 4 oz.
S-12	P404080-04A	Solid	04/24/14	04/24/14	Glass Jar, 4 oz.
S-13	P404080-05A	Solid	04/24/14	04/24/14	Glass Jar, 4 oz.
S-14	P404080-06A	Solid	04/24/14	04/24/14	Glass Jar, 4 oz.
S-15	P404080-07A	Solid	04/24/14	04/24/14	Glass Jar. 4 oz.
S-16	P404080-08A	Solid	04/24/14	04/24/14	Glass Jar, 4 oz.
S-17	P404080-09A	Solid	04/24/14	04/24/14	Glass Jar, 4 oz.



Project Name:

Cohn#1

606 S. Rio Grand, Suite A Aztec NM, 87410 Project Number: Project Manager: 07174-0003 Kyle Summers Reported: 28-Apr-14 13:47

S-9 P404080-01 (Solid)

		With the same of t	-71						-
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total BTEX	ND	0.05	:mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: Bromochlorobenzene		107 %	80	-120	1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		97.2 %	80	-120	1417022	04/24/14	04/25/14	EPA 8021B	
Nonhalogenated Organics by 8015				22					
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1417023	04/24/14	04/25/14	EPA 8015D	

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Laboratory departments of the control



606 S. Rio Grand, Suite A

Aztec NM, 87410

Project Name:

Cohn#1

Project Number:

Project Manager:

07174-0003 Kyle Summers Reported:

28-Apr-14 13:47

S-10 P404080-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Voiatile Organics by EPA 8021		5-0							
Benzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1417022	C4/24/14	04/25/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	94/25/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	94/25/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8031B	
Surrogate: 1.3-Dichlorobenzene		97.1 %	80	-120	1417022	04.24:14	04 25 14	EPA 8021B	
Surrogeic, Browechlarobenzene		109 %	80	-120	1417022	04 24 14	04 25 14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1417022	04/24/14	04/25/14	EPA 3015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1417023	04/24/14	04/25/14	EPA 8015D	

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Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301



Apex TITAN, Inc. 606 S. Rio Grand, Suite A Aztec NM, 87410 Project Name:

Cohn #1

Project Number: Project Manager: 07174-0003 Kyle Summers Reported: 28-Apr-14 13:47

S-11 P404080-03 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021	Corto-	8. A. 15.8.A. 100							
Benzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		93.1 %	80	-120	1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: Bromochlorobenzene		105 %	80	-120	1417022	94/24/14	04/25/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.98	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1417023	04/24/14	04/25/14	EPA 8015D	



Aztec NM, 87410

606 S. Rio Grand, Suite A

Project Name:

Cohn#1

Project Number: Project Manager: 07174-0003 Kyle Summers Reported: 28-Apr-14 13:47

S-12

P404080-04 (Solid)

1									
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Not
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	Ĭ	1417022	04/24/14	04/25/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	ī	1417022	04/24/14	04/25/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
e-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		93.2 %	80	-120	1417622	04/24/14	04:25:14	EPA 8021B	
Surrogate: Bromochlorobenzene		107 %	80-	120	1417022	04 24 14	04:25 14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	J	1417023	04/24/14	04/25/14	EPA 8015D	



Apex TITAN, Inc. 606 S. Rio Grand, Suite A

Aztec NM, 87410

Project Name:

Cohn#1

Project Number: Project Manager: 07174-0003 Kyle Summers Reported: 28-Apr-14 13:47

S-13 P404080-05 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: Bromochlorobenzene		108 %	80-	120	1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		94.7 %	80-	120	1417022	04:24:14	04/25/14	EPA 8021B	
Nonhalogenated Organics by 8015				-	t-t				
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ИD	29.9	mg/kg	1	1417023	04/24/14	04/25/14	EPA 8015D	



606 S. Rio Grand, Suite A

Aztec NM, 87410

Project Name:

Cohn #1

Project Number.
Project Manager:

07174-0003 Kyle Summers

Reported: 28-Apr-14 13:47

S-14

P404080-06 (Solid)

el .		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1417022	04/24/14	94/25/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1417022	04/24/14	94/25/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
p,m-Xylone	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		92.0 %	80	-120	1417022	94 24 14	04 25 14	KP 4 802 / B	
Surrogate: Bromochlorobenzene		107 %	80	-120	1417022	04 24 14	94 25 14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	i i	1417023	04/24/14	04/25/14	EPA 8015D	



Apex TITAN, Inc. 606 S. Rio Grand, Suite A

Aztec NM, 87410

Project Name:

Cohn #1

Project Number: Project Manager: 07174-0003 Kyle Summers Reported: 28-Apr-14 13:47

S-15 P404080-07 (Solid)

	Reporting							
Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	402	- SIA					5.2	
ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
	101 %	80-	120	1417022	04/24/14	04/25/14	EPA 8021B	
	91.3 %	80-	120	1417022	04/24/14	04/25/14	EPA 8021B	
ND	4.99	mg/kg	1	1417922	04/24/14	04/25/14	EPA 8015D	
ND	30.0	mg/kg	1	1417023	04/24/14	04/25/14	EPA 8015D	
	ND ND ND ND ND ND ND	ND 0.05 ND 0.05	ND 0.05 mg/kg O 0.05 mg/kg	ND 0.05 mg/kg 1 ND 4.99 mg/kg 1	ND 0.05 mg/kg 1 1417022 101 % 80-120 1417022 91.3 % 80-120 1417022	ND	ND	ND

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Project Name:

Cohn#1

606 S. Rio Grand, Suite A Aztec NM, 87410 Project Number: Project Manager: 07174-0003 Kyle Summers Reported: 28-Apr-14 13:47

S-16

P404080-08 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	100
Гоішепе	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
o,m-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
>-Xylene	ND	0.05	mg/kg	ı	1417022	04/24/14	04/23/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Surragate: 1,3-Dichlorobenzene		93.4 %	80	120	1417022	04/24/14	04:25:14	EPA 8021B	
Surrogate: Bromochlorobenzene		102 %	80	-120	1417022	04.24.14	04:25:14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8015D	
Diesel Range Organics (C10-C28)	CIN	29.9	mg/kg	1	1417023	04/24/14	04/25/14	EPA 8015D	

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laboratory environtech inc.com



Apex TITAN, Inc. 606 S. Rio Grand, Suite A

Aztec NM, 87410

Project Name:

Cohn #1

Project Number: Project Manager: 07174-0003 **Kyle Summers**

Reported: 28-Apr-14 13:47

S-17 P404080-09 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: Bromochlorobenzene		105 %	80-	120	1417022	04:24:14	04:25:14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		91.5 %	80-	120	1417022	04'24'14	04/25/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1417023	04/24/14	04/25/14	EPA 8015D	



606 S. Rio Grand. Suite A

Project Name:

Cohn #1

Aztec NM, 87410

Project Number: 07174-0003

Project Manager:

Kyle Summers

Reported: 28-Apr-14 13:47

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	93.9
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Note
Batch 1417022 - Purge and Trap EPA 5030A										
Blank (1417022-BLK1)				Prepared: 2	4-Apr-14	Analyzed: 2	25-Apr-14			
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05)=							
Ethylbenzene	ND	0.05	1.5							
p,m-Xylene	ND	0.05								
o-Xylene	ND	0.05	/ 4							
Total Xylenes	ND	0.05	100							
Total BTEX	ND	0.05	4							
Surrognic: 1,3-Dichlorobenzene	30.4		ug L	50.0		101	80-120			
urrogate, Bromochlarohensche	53.7		#	50.0		107	80-120			
Ouplicate (1417022-DUP1)	Sou	rce: P404073-	01	Prepared: 2	4-Apr-14 /	Analyzed: 2	l5-Apr-14			
Benzene	ND	0.05	mg/kg		ND		1.0000000000000000000000000000000000000		30	
Toluene	ND	0.05	ч		ND				30	
Zihyibenzene	ND	0.05			ND				30	
o,m-Xylene	ND	0.05			ND				30	
-Xylene	ND	0.05	0.70		ND				30	
Surrogate: 1,3-Dichlorobenzene	43.1		ugL	50.0		86.3	80-120			
Surrogate: Bromochlorobenzene	47.9			50.0		95.7	80-120			
Astrix Spike (1417622-MS1)	Son	rce: P404073-	01	Prepared: 2	4-Apr-14 A	Analyzed: 2	!5-Apr-14			
Benzene	50.3		ug/L	50.0	ND	101	39-150			
oluene	50.2		17	50.0	ND	100	46-148			
lihylbenzene	50.4		*	50.0	ND	101	32-160			
,m-Xylene	102		e	100	ND	102	46-148			
Xylene	51.3		247	50,0	ND	103	46-148			
urrogate: 1,3-Dichlorobenzene	46.4		н	50.0		92.8	80-120			
iurrogate: Bromochlorobenzene	51.3		-	50.0		103	80-120			

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Ph (970) 259-0615 Fr (800) 362-1879

Таботатогу дет втогосо боссото



Apex TITAN, Inc. 606 S. Rio Grand, Suite A Project Name:

Cohn #1

Project Number: Project Manager: 07174-0003 Kyle Summers

Reported: 28-Apr-14 13:47

Aztec NM, 87410

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1417022 - Purge and Trap EPA 5030A										
Blank (1417022-BLK1)	2480424400			Prepared: 2	24-Apr-14	Analyzed: 2	25-Apr-14			
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg			37			1-0.00	
Duplicate (1417022-DUP1)	Sou	ce: P404073-	01	Prepared: 2	24-Apr-14	Analyzed: 2	25-Apr-14			
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg		ND				30	
Matrix Spike (1417022-MS1)	Sou	ce: P404073-	01	Prepared: 2	4-Арт-14	Analyzed: 2	25-Apr-14			
Gasoline Range Organics (C6-C10)	0.48		mg/L	0.450	ND	106	75-125			

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C Din Canad Cuita A

606 S. Rio Grand, Suite A Aztec NM, 87410 Project Name:

Cohn #1

Project Number:

07174-0003

Project Manager:

Kyle Summers

Reported: 28-Apr-14 13:47

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1417023 - DRO Extraction EPA 3550C										
Blank (1417023-BLK1)				Prepared: 2	24-Apr-14	Analyzed: 2	25-Apr-14			
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg		(1) # (TON) #1 10					
Duplicate (1417023-DUP1)	Sour	rce: P404073-	01	Prepared: 2	24-Apr-14	Analyzed: 2	25-Apr-14		2.5	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg		ND		A A 300 EEE		30	
Matrix Spike (1417923-MS1)	Sour	ce: P404073-	01	Prepared: 2	24-Apr-14	Analyzed: 2	25-Арт-14			
Diesel Range Organics (C10-C28)	212		nıg/L	250	6.21	82.5	75-125			



606 S. Rio Grand, Suite A

Aztec NM, 87410

Project Name:

Cohn #1

Project Number:

07174-0003

Project Manager:

Kyle Summers

Reported: 28-Apr-14 13:47

Notes and Definitions

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

dry

Sample results reported on a dry weight basis

RPD

Relative Percent Difference

16915

CHAIN OF CUSTODY RECORD

Client: 5 WG/A	rex			oject Name / Location:						C.KO		*1	7 8 7	A	NALY	'SIS	/ PAF	RAME	TER	S	×		
Email results to: RSUMMERS PA	pexc	05.001	6an	npler Name:	Su	mpe	21	·S			(18051)	8260)	, co				Ţ						
Client Phone No. 2156	03		Clie	nt No.: 07/74	-000	3			1000	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion		TCLP with H/P	CO Table 910-1	418.1)	RIDE			Sample Cool	Sample Intact
Sample No./ Identification	Sample Date	Tim		Lab No.	of Co	Volume ntainers	HNO3	eservati HCI	VB	TPH (I	втех	VOC (RCRA	Cation	22	TCLP	CO Ta	TPH (418.1)	CHLORIDE			Samu	Sampl
5-9	4/24	12 120	00	P404080-61	1.8	402	-			X	X											į,	11
5-10		120		-02																		Ĺ	11
5-11		121	-	-63														U.T.				U	4
5-12		12.1		40-																		4	10
5-13		/33		- 05						Ц									٠			6	1
5-14		134		-06						Ц												2	10
5-15		140	- FACE (1909) 47	-67																			r
5-16		140		-08																			14
5-17	1	141	D	-09		V				V	V					0							Vi
	145,																	a					
Relinguished by: (Signature)	*				1/24/	Time 1455	Rece	ived b	iy: (S	ignat	nte)				K	_					1		Time 145
Relinquished by: (Signature)							Rece	ived b	y (ys	ighai	dre)												
Sample Matrix			-		1																-		
Soil Solid Sludge	Aqueous	☐ Oth	er 🗆											: 700									
Sample(s) dropped off after	hours to	secure dr	op of	farea.	3	P N V	ir (ol ra	e (C h	1		(7.0	7	5	.3	6	9		•		
5795 US Highway 6	4 • Farmir	ngton, NM	8740	1 • 505-632-0615 •	Three Spr	ings • 65	Merca	ido Str	eet, S	Suite	115, [Duran	go, C	0 81	301 •	labo	rator	y@en	virote	ch-in	D	ana A	maf 4 m



Analytical Report

Report Summary

Client: Apex TITAN, Inc.

Chain Of Custody Number: 16914

Samples Received: 4/28/2014 4:36:00PM

Job Number: 07174-0003 Work Order: P404111

Project Name/Location: Cohn #1

		10	122		
Entire Report Reviewed By:			Date:	4/30/14	
_	Tim Cain, La	aboratory Manager			

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



606 S. Rio Grand, Suite A

Aztec NM, 87410

Project Name:

Cohn #1

Project Number: Project Manager: 07174-0003

Kyle Summers

Reported:

30-Apr-14 12:58

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S-18	P404111-01A	Soil	04/28/14	04/28/14	Glass Jar, 4 oz.
S-19	P404111-02A	Soil	04/28/14	04/28/14	Glass Jar, 4 oz.
S-20	P404111-03A	Soil	04/28/14	04/28/14	Glass Jar, 4 oz.
S-21	P404111-04A	Soil	04/28/14	04/28/14	Glass Jar, 4 oz.



Project Name:

Cohn #1

606 S. Rio Grand, Suite A Aztec NM, 87410 Project Number: Project Manager: 07174-0003 Kyle Summers Reported: 30-Apr-14 12:58

S-18 P404111-01 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	Ĭ	1418009	04/29/14	04/29/14	EPA 8021B	
Surrogate: Bromochlorobenzene		106%	80-	-120	1418009	04/29/14	04/29/14	EPA 3021B	
Surrogate: 1,3-Dichlorobenzene		102 %	80-	-120	1418009	04/29/14	04:29:14	EPA 8021B	
Nonhalogenated Organics by 8015						z			
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	.1.	1418010	04/29/14	04/29/14	EPA 8015D	



Aztec NM, 87410

Project Name:

Cohn #1

606 S. Rio Grand, Suite A

Project Number: Project Manager: 07174-0003

Kyle Summers

Reported: 30-Apr-14 12:58

S-19

P404111-02 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EFA 8021B	
p,in-Xylene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 3021B	
o-Xylene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	I	1418009	04/29/14	04/29/14	EPA 8021B	
Total BUEX	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Surrogaio: Bromochiorobennene		101 %	80-	120	1418009	04 29:14	04:29 14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		96.1 %	80-	120	1418009	04 29 14	04/29/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	ı	1418009	04/29/14	04/29/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1418010	04/29/14	04/29/14	EPA 8015D	



Project Name:

Cohn #1

606 S. Rio Grand, Suite A Aztec NM, 87410 Project Number: Project Manager: 07174-0003 Kyle Summers Reported: 30-Apr-14 12:58

S-20

P404111-03 (Solid)

	D - 1	Reporting	*1-5-	Dillosion	Datak	December	Austral	Made	Massa
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
n-Xylene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 802]B	
Total BTEX	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Surrogate: Bromochlorobenzene		102 %	30-	120	1418009	04/29/14	04/29/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		95.4 %	80-	120	1418009	04/29/14	04/29/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1418010	04/29/14	04/29/14	EPA 8015D	



606 S. Rio Grand, Suite A

Aztec NM, 87410

Project Name:

Cohn#1

Project Number: Project Manager: 07174-0003 Kyle Summers Reported: 30-Apr-14 12:58

S-21

P404111-04 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Ethylbenzone	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Surrogate: Bromochlorobenzene	4.00	100 %	80	-120	1418009	04 29 14	04:29:14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		95.2 %	80	-120	1418009	04 29 14	94 29 14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	0.10	mg/kg	0.02	1418009	04/29/14	04/29/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1418010	04/29/14	04/29/14	EPA 8015D	



Project Name:

Cohn #1

606 S. Rio Grand, Suite A Aztec NM, 87410 Project Number: 0
Project Manager: 1

07174-0003 Kyle Summers Reported: 30-Apr-14 12:58

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

	V_0 194	Reporting	124/057	Spike	Source	ggmester.	%REC	gental en	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1418009 - Purge and Trap EPA 5030A						2				
Blank (1418009-BLK1)				Prepared &	Analyzed:	29-Apr-14	1000			
Benzene	ND	0.05	mg/kg			75.4				
Toluene	ND	0.05	*							
Ethylbenzene	ND	0.05								
p,m-Xylene	ND	0.05								
o-Xylene	ND	0.05								
Total Xylenes	ND	0.05	-							
Total BTEX	ND	0.05	и							
Surrogate: 1,3-Dichlorobenzene	48.9		ug:L	50.0		97.8	80-120			
Surrogate: Bromochlorobenzene	51.6		"	50.0		103	80-120			
Duplicate (1418009-DUP1)	Sou	rce: P404111-0	01	Prepared &	Analyzed:	29-Apr-14			1 2 2-2	
Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05			ND				30	
Ethylbenzene	ND	0.05	(0)		ND				30	
o.m-Xylene	ND	0.05	41		ND				30	
o-Xylene	ND	0.05			ND	2001 200			30	
Surrogate: 1,3-Dichlorobenzene	49.2		ug/L	50.0		98.4	80-120	Special and a		
Surrogate: Bromochlarohenzene	51.5		n n	50.0		103	80-120			
Matrix Spike (1418009-MS1)	Sour	rce: P404111-0	01	Prepared &	Analyzed:	29-Арг-14				
Benzene	48.4		ug/L	50.0	ND	96.8	39-150			
Colluene	48.8		41	50.0	ND	97.6	46-148			
Ethylbenzene	49.1			50.0	ND	98.2	32-160			
n,m-Xylene	98.5		×	100	ND	98.5	46-148			
×Xyllenc	49.1		ď	50,0	ND	98.2	46-148			
Surrogate: 1,3-Dichlorobenzene	47.8		II ee	50.0		95.6	80-120			
Surrogate: Bromochlorobenzene	49.0		. 64	50.0		98.1	80-120			

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laboratory@envirotech inc.com



Apex TITAN, Inc. 606 S. Rio Grand, Suite A Aztec NM, 87410 Project Name:

Cohn#1

Project Number: Project Manager: 07174-0003 Kyle Summers Reported:

30-Apr-14 12:58

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1418009 - Purge and Trap EPA 5030A										-
Blank (1418009-BLK1)				Prepared &	: Analyzed:	29-Apr-14				
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	* * / * * * * * * * * * * * * * * * * *						
Duplicate (1418009-DUP1)	Sour	rce: P404111-	01	Prepared &	Analyzed:	29-Apr-14				
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	t the stade of	ND	AMERICAN AND A			30	
Matrix Spike (1418009-33S1)	Sour	ce: P404111-	01	Prepared &	: Analyzed:	29-Арг-14				
Gasoline Range Organics (C6-C10)	0.47		mg/L	0.450	ND	105	75-125	100	. 5539	



Apex TITAN, Inc. 606 S. Rio Grand, Suite A Aztec NM, 87410 Project Name:

Cohn #1

Project Number: Project Manager: 07174-0003 Kyle Summers

Reported: 30-Apr-14 12:58

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1418010 - DRO Extraction EPA 3550C										
Blank (1418010-BLK1)				Prepared &	: Analyzed:	29-Apr-14				
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg							
Duplicate (1418010-DUP1)	Sour	rce: P404111-	01	Prepared &	: Analyzed:	29-Арт-14				
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg		ND	, , , , , , , , , , , , , , , , , , , ,			30	
Matrix Spike (1418010-MS1)	Sou	rce: P404111-	01	Prepared &	Analyzed:	29-Apr-14				
Diesel Range Organics (C10-C28)	222	•	mg/L	250	12.4	84.0	75-125			

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606 S. Rio Grand, Suite A

Aztec NM, 87410

Project Name:

Project Number: Project Manager: Cohn #1

07174-0003

Kyle Summers

Reported: 30-Apr-14 12:58

Notes and Definitions

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

dry

Sample results reported on a dry weight basis

RPD

Relative Percent Difference

16914

CHAIN OF CUSTODY RECORD

Client: SEOGI /AP	CX	Pr	Lo An	#1				40	200		27 Table 1		Al	VALY	'S IS	/ PAF	RAME	TER	S				
Email results to:	AARS	Casco	mpler Name:	ile	Sca	KL H	wel.	٤	-	18021)	8260)	Ø				-	A C C C C C C C C C C C C C C C C C C C						
Client Phone No.: 703-82/-564	03	CII	ent No.:			-12.4			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Catton / Anlon		TCLP with H/P	CO Table 910-1	TPH (418.1)	RIDE			Sample Cool	Sample Intact	
Sample No./ Identification	Sample Date	Sample Time	Lab No.		/olume ntainers	Pr HNO ₃	HCI	8	TPH (I	втех	voc (RCRA	Cation	ᄗ	TCLP	CO Ta	тРН (CHLORIDE			Camp	Sampl	
5-18	4/24/	9/430	P404111-01	18	Yoz.				*	X								29			-	-	1
5-19	4/28/1	1500	-02																			1	Y
5-20		15/5	-03		,																1	10	Y
5-21	4	4530	-04	V					b	¥							•				4	1.	1
			112-																				
			3/15																				
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														-				<u></u>					
Religionalisted by: (Signature)		_		475267	Jaga 1636	Rece	ived by	y: (Si	ignat	ure)	×	ریز	1	4	_						Date	Time	
Relinquished by: (Signature)							ived by	p-15	ignat	ure)								tea.			7/19	10	7
Sample Matrix																				+	-	_	-
	Aqueous																						
Sample(s) dropped off afte	wi		E			iytic	al Lai	bore	ator	У			8.1										
5795 US Highway	64 • Farming	ton, NM 874	01 • 505-632-0615 •	Three Spr	ings • 65	Merco	ido Stre	et, S	uite	1 15, E	Durar	go, (CO 81	301 •	labo	prato	ry@er	virote	ech-ine		ane 1	1 of 1	4



Analytical Report

Report Summary

Client: Apex TITAN, Inc.

Chain Of Custody Number: 16940

Samples Received: 4/29/2014 2:40:00PM

Job Number: 07174-0003 Work Order: P404115

Project Name/Location: Cohn #1

Entire Report Reviewed By:		1	Date:	5/1/14
Entire Report Reviewed by.	Tim Cain, La	boratory Manager	valo.	OT IT I

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this

analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



606 S. Rio Grand, Suite A Aztec NM, 87410 Project Name:

Cohn #1

Project Number: Project Manager: 07174-0003 Kyle Summers

Reported: 01-May-14 13:50

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container	
S-22	P404115-01A	Soil	04/29/14	04/29/14	Glass Jar, 4 oz.	
S-23	P404115-02A	Soil	04/29/14	04/29/14	Glass Jar, 4 oz.	
S-24	P404115-03A	Soil	04/29/14	04/29/14	Glass Jar, 4 oz.	
S-25	P404115-04A	Soil	04/29/14	04/29/14	Glass Jar, 4 oz.	
S-26	P404115-05A	Soil	04/29/14	04/29/14	Glass Jar, 4 oz.	



...,

Project Name:

Cohn #1

606 S. Rio Grand, Suite A Aztec NM, 87410 Project Number: Project Manager: 07174-0003 Kyle Summers Reported: 01-May-14 13:50

S-22

P404115-01 (Solid)

*		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volgtile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
p.m-Xylene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1418009	04/30/34	04/39/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1418009	04/30/14	04/39/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Surrogate: Bramochlorobenzene	***	98.6 %	80-	-120	1418009	94 30 14	04 30 14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		96.3 %	80-	-120	1418909	04 39 14	94 30 14	KPA SOZIE	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND .	29.9	mg/kg	1	1418010	04/30/14	04/30/14	EPA 8015D	



606 S. Rio Grand, Suite A Aztec NM, 87410 Project Name:

Cohn #1

Project Number: Project Manager: 07174-0003 Kyle Summers Reported: 01-May-14 13:50

S-23

P404115-02 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		94.0 %	80-	-120	1418009	04/30/14	04/30/14	EPA 8021B	
Surrogate: Bromochlorobenzene		96.4 %	80-	-120	1418009	04/30/14	04/30/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1418010	04/36/14	04/30/14	EPA 8015D	



Project Name:

Cohn #1

606 S. Rio Grand, Suite A Aztec NM, 87410

Project Number: Project Manager: 07174-0003 Kyle Summers

Reported: 01-May-14 13:50

S-24 P404115-03 (Solid)

E .									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
- Mary to	ACCOUNT	Linin	Outle	Distriction.	DRIVII	Tropared	rumyzou	Mediod	140102
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
p ₋ m-Xylene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
o-Xylcne	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Surrogate: Bromochlorobenzene		97.8 %	80	-120	1418009	04/30/14	04 30 14	EPA 8021B	
Swrogate: 1,3-Eichlorobenzene		95.2 %	80	-120	1418009	94:30:14	04:30 14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	. 1	1418010	04/30/14	04/30/14	EPA 8015D	



Apex TITAN, Inc. 606 S. Rio Grand, Suite A

Aztec NM, 87410

Project Name:

Cohn #1

Project Number: Project Manager: 07174-0003 Kyle Summers

Reported: 01-May-14 13:50

S-25 P404115-04 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1418009	94/30/14	04/30/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1418009	94/30/14	04/30/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1418009	04/30/14	94/30/14	EPA 8021B	
Surrogate: Bromochlorobenzene		97.0 %	80-	120	1418009	94/39/14	04/30/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		93.4 %	80-	120	1418009	04:30 14	04/30/14	EPA 8021B	
Nonhalogenated Organics by 8015		Wester		10			F100		
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1418009	04/39/14	04/30/14	EPA 8015D	
Diesel Range Organics (C10-C28)	30.5	30.0	mg/kg	1	1418010	04/30/14	04/30/14	EPA 8015D	



606 S. Rio Grand, Suite A

Aztec NM, 87410

Project Name:

Cohn #1

Project Number: Project Manager: 07174-0003

Kyle Summers

Reported:

01-May-14 13:50

S-26 P404115-05 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021				2.30					
Benzene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	. 1	1418009	04/30/14	04/30/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	t	1418009	04/30/14	04/30/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Surrogate: 1,3-Dichlorohenzene		89.1%	80-	120	1418009	04:30:14	04:30-14	EPA 80213	
Surrogate: Bromochlorobenzene		92.6%	80	120	1418009	04.30-14	04 30 14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1418010	04/30/14	04/30/14	EPA 8015D	



Apex TITAN, Inc. 606 S. Rio Grand, Suite A

Aztec NM, 87410

Project Name:

Cohn #1

Project Number: Project Manager: 07174-0003 Kyle Summers Reported: 01-May-14 13:50

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

143 20		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1418009 - Purge and Trap EP	A 5030A					***				
Blank (1418009-BLK1)			liber .	Prepared &	: Analyzed:	29-Apr-14				
Benzene	ND	0,05	mg/kg							
Toluene	ND	0.05	-41							
Ethylbenzene	ND	0.05	R							
p,m-Xylene	ND	0.05	**							
o-Xy!ene	ND	9.05	1.44							
Total Xylenes	ND	0.05								
l'otal BTEX	ND	0.05	it							
Surrogate: 1,3-Dichlorobenzene	48.9		ugL	50.0		97.8	80-120			
Surrogate: Bromochlorobenzene	51.6		н	50.0		103	80-120			
Duplicate (1418009-DUP1)	Source	e: P404111-	01	Prepared &	Analyzed:	29-Apr-14				
Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	п		ND				30	
Ethylbenzene	ND	0.05	п		ND				30	
o,m-Xylene	ND	0.05	19		ND				30	
>-Xylene	ND	0.05	н		ND				3C	
Surrogate: 1,3-Dichlorobenzene	49.2		ug L	50.0		98.4	80-120			
Surrogate: Bromochlorobenzene	51.5		N	50.0		103	80-120			
Matrix Spike (1418009-MS1)	Source	e: P404111-	01	Prepared &	Analyzed:	29-Apr-14				
Senzene	48.4		ug/L	50.0	ND	96.8	39-150			
Coluene	48.8			50.0	ND	97.6	46-148			
Ethylbenzene	49.1			50.0	ND	98.2	32-160			
,m-Xylene	98.5		10.0	100	ND	98.5	46-148			
Xykav	49.1		u	50.0	ND	98.2	46-148			
Surrogate: 1,3-Dichlorobenzene	47.8		- 14	50.0		95.6	80-120			
Surrogate: Bromochlorobenzene	49.0		14	50.0		98.1	80-120			

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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Ph (970) 259-0615 Fr (800) 362-1879

enviroted income.



Project Name:

Cohn #1

606 S. Rio Grand, Suite A Aztec NM, 87410 Project Number:

07174-0003

Project Manager:

Kyle Summers

Reported: 01-May-14 13:50

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source	G (71) 31 (12)	%REC	20505ce - 0	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1418009 - Purge and Trap EPA 5030A										
Blank (1418009-BLK1)				Prepared &	Analyzed:	29-Apr-14				
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg							
Duplicate (1418009-DUP1)	Sour	ес: Р404111-	01	Prepared &	: Analyzed:	29-Арт-14			_	
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg		ND				30	
Matrix Spike (1418009-MS1)	Sour	ce: P404111-	01	Prepared &	: Analyzed:	29-Apr-14	2			
Gasoline Range Organics (C6-C10)	0.47		mg/L	0.450	ND	105	75-125			



Project Name:

Cohn #1

606 S. Rio Grand, Suite A Aztec NM, 87410 Project Number: Project Manager: 07174-0003 Kyle Summers Reported: 01-May-14 13:50

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1418010 - DRO Extraction EPA 3550C				7.0	A.C					
Blank (1418010-BLK1)	100-100-100-100	7 70- 10-01-01-0	NSS-0 1010	Prepared &	Analyzed:	29-Apr-14				
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg							
Duplicate (1418010-DUP1)	Som	rce: P404111-	01	Prepared &	Analyzed:	29-Apr-14			272 24	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg		ND				30	
Matrix Spike (1418010-MSI)	Sou	rce: P404111-	01	Prepared &	Analyzed:	29-Apr-14				
Diesel Range Organics (C10-C28)	222		mg/L	250	12,4	84.0	75-125			



Aztec NM. 87410

Project Name:

Cohn #1

606 S. Rio Grand, Suite A

Project Number: Project Manager: 07174-0003 Kyle Summers Reported: 01-May-14 13:50

Notes and Definitions

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

dry

Sample results reported on a dry weight basis

RPD

Relative Percent Difference

CHAIN OF CUSTODY RECORD

Client: APCX		Pn	Cohn H	in:				240	G.R.O				Al	NALY	'SIS	PAF	RAME	TER	S			
Email results to: R Swimmers DAPE	excos,	com sa	mpler Name: Tyle Sud	eo HC	915				8015)	18021)	8260)	s)				-						
Client Phone No.: 903-82/-5603			ent No.:						TPH (Method	BTEX (Method 8021)	(Method	RCRA 8 Metals	Cation / Anion		with H/P	Table 910-1	TPH (418.1)	RIDE			000	
Sample No./ Identification	Sample Date	Sample Time	Lab No.	of C	/Volume ontainers	Pri HNO ₃	HCI	/8	-		Voc (RCRA	Cation	RCI	TCLP	CO Ta	TPH (CHLORIDE			Sample	Sampl
2-55	4/29/19	7	P40415-01	11	Yoz				X	λ											X	X
2-23		1200	P404115-02																		X	X
5-24		1210	P40415-03																		X	X
5-25		1220	1 104117-01																		S	X
5-26	~	1240	P404115-05	4	1				4	\checkmark											1	X
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Sample Matrix Soil A Solid Sludge	Aqueous [Other:			3																	
□ Sample(s) dropped off after	hours to se	ecure drop	off area.	3	env	Î [O†	e c	itor	1		į	٤.٤	1	1	.7	4	3 .	2	3)	
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

April 14, 2014

Kyle Summers Southwest Geoscience 606 S. Rio Grande Unit A

Aztec, NM 87410 TEL: (903) 821-5603 FAX (214) 350-2914

RE: COHN #1 OrderNo.: 1404314

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/8/2014 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 1404314

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/14/2014

CLIENT: Southwest Geoscience

Client Sample ID: SP-1

Project: COHN#1

Collection Date: 4/7/2014 11:40:00 AM

Lab ID: 1404314-001

Matrix: SOIL

Received Date: 4/8/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS						IIIBCN
Сестасуе Бузаннового	1000		1	□g∭g	10	<u>ci</u> anci a anon 7 Po	10000
GORIEDOOP				000	10	cd cauci a cascau 7 Po	1000
EPA METHOD 8015D: GASOLINE RA	NGE						IINSB
Сагоше Darge Organic попо	100			□g⊞g	J	consolic food on Po	1000
		7000		8 000		caused a 1 cost and PC	1000
EPA METHOD 8021B: VOLATILES							IINSB
	1.83	മ്മ		□g∭g	ii.	and o 1 and out Po	1000
Сошеле	88			□дШд		0000001010001001P0	1000
		THE				concurred a 1 count and Po	1000
				□g⊞g	-01	CONTROL 10001 or 1 Po	1000
COMPAND OF THE COMPAN	11□	min.		DISCUS		constructed or Po	100 I

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

Qualifiers:

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

Page 1 of 5

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

Analytical Report Lab Order 1404314

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/14/2014

CLIENT: Southwest Geoscience

Client Sample ID: SP-2

Project: C

Lab ID:

COHN#1

Collection Date: 4/7/2014 11:45:00 AM

1404314-002 Matrix: SOIL

Received Date: 4/8/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS					i de a dici	III)BCN
Detelia: ge lagal III (India)	11111	(1)		i giilg	16.		111111
LATERATOR	1.7	CHICA .	4.4	7)(2) = 1.3	113	A 11 a B 31 () D B A TOUR TOUR ()	1(117)
EPA METHOD 8015D: GASOLINE RAI	NGE					n.a.wi	MNSB
narbille narge (Tgahillud) in d	11 1:	101		Cgl g	51	COME ACCORDED PO	titte-
	17 U	7:14/11	- 4	(349.10	1.1	COME DO LA COMPLE	1000
EPA METHOD 8021B: VOLATILES						(icanii)	IINSB
Le Lele	[30]	1310		⊞g⊞g	1.1	LEUGS ALLEITEIM PL	1011
Попте⊓е	1 000	THE		∏g⊞g	m	compared and Po	1000
I WIL Mel'(e)'e		LIBI		1 gillig	11	naisanounima Po	10111
MARINETHIOMET	700	THE		Ogteg	11	Comparison of Po-	10; 101
пилитью общото тетете	110			FIRE	П	camata critari Po	1000

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

Qualifiers:

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

Page 2 of 5

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1404314

14-Apr-14

Client:

Southwest Geoscience

Project:	COHN#	1										
Dad De 20 MB	-12586	Са□□	illeo M	BLK	Del	‱o⊡e⊕E	PA Method	8015D: Diese	I Range	Organics	-	
omeconio PB:	S	□аШ) mo 12	586	1	BCCC00 17898						
Pred dated 4/	8/2014		ae 4	/10/2014		⊟e □□o □ 5	16454	□□IIII mg/K	g			
ОСаше			P 00	OPO Dame	□P□ □ef □a□	3000			o opo	oPoow @	O Da D	
Diesel Range Organ	ics (DRO)	00	10									
Surr: DNOP				1000	No.		Ш	101				
Dad De III LCS	3-12586	0a0 00	i⊞e □ L C	s	Dei	∭oDeO E	PA Method	8015D: Diese	l Range (Organics		
DECOMO LCS	SS	Паш	1 mc 12	586	1	0001	7898					
Predicated 4/8	3/2014		a@ 4	10/2014	i]e∏]0∏ 5	16498	□□Ⅲ□ mg/K	g			
			Poo	oPo came	□P□ □ef □a□	3 000		_ (9 00)	0 0 P 0	oPodo o	000	
Diesel Range Organ	ics (DRO)	Ш	10			110		100			18.0	
Surr: DNOP						100	00	101				
Па□ Пе Ш МВ-	12624	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	8015D: Diese	I Range (Organics		
Client ID: PBS	\$	□a⊞	00012	624	F	RunNo: 1	7898					
Pœ Dace 0 4/9	/2014		a@ 0 4/	10/2014		SeqNo: 5	16973	ODIII %REC	:			
		□е□ш	PQL	□P□ □a⊞e	□P□ □ef □a□	000		0 0 000000	0 0 P 0	oPoco o	D DaD	
Surr: DNOP		9.5		10.00		95.4	66	131				
Sample ID LCS	-12624	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Diese	I Range C	Organics	55m	
Client ID: LCS	S	Batch	ID: 12	624	F	RunNo: 1	7898			30		
Prep Date: 4/9	/2014	Analysis D	ate: 4/	10/2014	5	SeqNo: 5	16974	Units: %REC	:			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP		4,4		5.000		87.9	66	131				

Qualifiers:

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

Page 3 of 5

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

17

980

5.0

5.00

1000

WO#: 1404314

14-Apr-14

Client:

Southwest Geoscience

Project:

Gasoline Range Organics (GRO)

Sur: BFB

COHN #1

Sample ID MB-12598	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range
Client ID: PBS	Batch ID: 12598	RunNo: 17894	
Prep Date: 4/8/2014	Analysis Date: 4/9/2014	SeqNo: 516112	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	ND 5.0		
Surr: BFB	890 1000	88.9 74.5	119
Sample ID LCS-12598	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range
Client ID: LCSS	Batch ID: 12598	RunNo: 17894	
Prep Date: 4/8/2014	Analysis Date: 4/9/2014	SeqNo: 516113	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual

107

97.6

71.7

74.5

134

109

Qualifiers:

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

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1404314

14-Apr-14

Client:

Southwest Geoscience

Project:

COHN #1

Sample ID MB-12598	SampT	ype: MI	BLK	Tes	lles					
Client ID: PBS	Batch	Batch ID: 12598			RunNo: 1	7894				
Prep Date: 4/8/2014	Analysis D	ate: 4/	9/2014	8	SeqNo: 5	16138	Units: mg/k	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLlmit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Kylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	100			

Sample ID LCS-12598	SampType: LCS TestCode: EPA Method 8021B: Volatiles									
Client ID: LCSS	Batcl	h ID: 12	598	F						
Prep Date: 4/8/2014	Analysis D	Date: 4/	9/2014	8	SeqNo: 516139 Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	111	80	1⊡0		-	
Toluene	1.0	0.050	1.000	0	100	80	1⊡0			
Ethylbenzene	1.0	0.050	1.000	0	104	80	1□0			
Xylenes, Total	3.1	0.10	3.000	0	103	80	1□0			
Surr: 4-Bromofluorobenzene	1.0		1.000		116	80	100			

Qualifiers:

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

RLReporting Detection Limit Page 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com Client Name: Southwest Geoscience Work Order Number: 1404314 RoptNo: 1 Received by/date: Lindsay Mangin Logged By: 4/8/2014 10:00:00 AM 4/8/2014 10:26:28 AM Completed By: Lindsay Mangin Reviewed By: Chain of Custody Yes No 🗀 Not Present 1. Custody seals intact on sample bottles? No 🗆 Yes 🗸 Not Present 2. is Chain of Custody complete? 3. How was the sample delivered? Courier Log In No 🗆 NA 🗌 4. Was an attempt made to cool the samples? Yes V No 🗌 NA 🔲 5. Were all samples received at a temperature of >0° C to 6.0°C Yes V No 🗆 Yes V 6. Sample(s) in proper container(s)? No 🗆 7. Sufficient sample volume for indicated test(s)? Yes V No 🗆 Yes V 8. Are samples (except VOA and ONG) properly preserved? No 🗹 NA 🗔 Yes 🔲 9. Was preservative added to bottles? No VOA Vials No 🗌 Yes 10.VOA vials have zero headspace? Yes 🗆 No V 11. Were any sample containers received broken? # of preserved bottles checked for pH: No 🗌 12. Does paperwork match bottle labels? Yes V (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗆 Yes V 13. Are matrices correctly identified on Chain of Custody? No 🗆 Yes 🔽 14, is it clear what analyses were requested? No 🗌 Checked by: 15. Were all holding times able to be met? Yes V (If no, notify customer for authorization.) Special Handling (if applicable) 16. Was client notified of all discrepancies with this order? Yes 🔲 No 🗌 NA 🔽 Person Notified: Date: By Whom: Vla: eMail Phone Fax In Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information

Cooler No. | Temp C | Condition | Seal Intact | Seal No. | Seal Date |

Good

					CHAIN OF CUSTODY RECORD
Southwest	Laboratory: HALL Address: ABO		ANALYSIS REQUESTED		Lab use only Due Date:
Environmental & Hydrogeologic Consultants			(3)	9	Temp. of coolers when received (C*): 2,9
Office Location AZTEC, NM	Phone:				
Project Manager KyLE SummERS	PO/SO#: 04136018		Z 7		/
Sampler's Name AARON BRUANT	Sampler's Signature		2002		
Proj. No. Project Name COH	N#I RayType of 2x4	Containers	多到	//////	/ /
	Marks of Sample(s) tags O u tags VOA A/G	250 P/O	AH /	'	Lab Sample ID (Lab Use Only)
S4-7-14 1/40 X SP	-1 11	1	XX		1404314-001
S4-7-14 1145 X SP	-2 .	I	と と		-007
	NFS				
	B				
	1 - 2				
Turn around time ■ Normal ■ 25% Rush Relinguished by (Signature) ■ Date:	Time: Regelved by: (Signature)	Dote	e: , Time: N	OTES:	
17/19	ISIU / Christia la be to		14 15 16	JIEG.	
Relinquished by (Stringture) Date: Hotels Date:	Time: Received by (Signature)	Delte	Jul 1000		
Relinquished by (Signature) Dete:	Time: Received by: (Signature)	Date			
Relinquished by (Signature) Date:	Time: Received by: (Signature)	Date	a: Time:		
Matrix WW - Westewater W - Water Container VOA - 40 ml visi A/G - Amber	S - Soll SD - Solld L - Liquid A - Air / Or Glass 1 Liter 250 ml - Glass wide r	Bag C mouth P/	- Charcoal tube SL O - Plastic or other	- 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

May 02, 2014

Kyle Summers Southwest Geoscience 606 S. Rio Grande Unit A Aztec, NM 87410

TEL: (903) 821-5603 FAX (214) 350-2914

RE: Cohn #1 OrderNo.: 1404C00

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/30/2014 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 1404C00

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/2/2014

CLIENT: Southwest Geoscience

Client Sample ID: WS-1

Project: Cohn #1 Collection Date: 4/29/2014 8:30:00 AM

Lab ID: 1404C00-001 Matrix: AQUEOUS Received Date: 4/30/2014 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGI	≣					Analyst	BCN
Diesel Range □rganics เDR□□	5.□	1.0		mg 🗓	1	4/30⊞014 □56:53 P□	10941
Sum: DN□P	1 🗆 7	6 □7□ 45		%REC	1	430E014 □56:53 P□	1⊡941
EPA METHOD 8015D: GASOLINE RAI	NGE					Analyst	: NSB
□asoline Range □rganics ⅢR□□	5.□	0. □5		mg 🕮	5	4:30:0014 11:41:07 A	R18301
Surr: B⊡B	101	80.41118		%REC	5	4:30 E014 11:41:07 AD	R18301
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Ben⊑ene	780	□0		Elgill.	□0	4:30:0014 10:36:03 PO	R18301
Toluene	750	□0		_gill.	□0	4:30:0014 1:036:03 PO	R18301
Ethyl⊑en⊑ene	60	5.0		∐gđi.	5	4:30:0014 11:41:07 A	R18301
⊏ylenes⊑Total	730	10			5	430E014 11:41:07 AD	R18301
Surr: 4:Bromofluoro⊡en⊡ene	115	879739		%REC	5	4:30E:014 11:41:07 AD	R18301

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- - Holding times for preparation or analysis exceeded

Analyte detected in the associated Method Blank

ND Not Detected at the Reporting Limit

Page 1 of 4

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1404C00

02-May-14

Client:

Southwest Geoscience

Project:	Cohn #1										
Sample ID	MB-12941	SampT	ype: Mi	BLK	Tes	tCode: E	PA Method	8015D: Diese	i Range		
Client ID:	PBW	Batch	ID: 12	941	F	18255					
Prep Date:	4/30/2014	Analysis D	ate: 4	30/2014		SeqNo:	528470	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	ND	1.0				enanta (timbre)				E
Surr: DNOP		1.4		1.000		139	6L.7	145			
Sample ID	LCS-12941	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015D: Diese	l Range	ALL CONTRACTOR OF THE PARTY OF	
Client ID:	LCSW	Batch	ID: 12	941	F	RunNo:	18256				
Prep Date:	4/30/2014	Analysis D	ate: 4/	30/2014	8	SeqNo:	528471	Units: mg/L			
Analyte		Result	PQL.	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	5.7	1.0	5.000	0	115	78.6	146		•	
Sum: DNOP		0.61		0.5000		1 _{LL}	6山7	145			
Sample ID	LCSD-12941	SampT	ype: LC	SD	Tes	tCode: E	PA Method	8015D: Diese	l Range		
Client ID:	LCSS02	Batch	ID: 12	941	F	RunNo:	18255				
Prep Date:	4/30/2014	Analysis D	ate: 4/	30/2014	S	SeqNo:	528472	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Quat
Diesel Range (Organics (DRO)	6.0	1.0	5.000	0	119	78.6	146	3.88	□6.5	
Sun: DNOP		0.58		0.5000		115	6:17	145	0	0	

Qualifiers:

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

Page 2 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#:

1404C00

02-May-14

Client:

Southwest Geoscience

Project:

Cohn #1

Sample ID 5ML RB

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

PBW

Batch ID: R18301

0.050

RunNo: 18301

Prep Date:

Analysis Date: 4/30/2014

Units: mg/L

Analyte

Result PQL SPK value SPK Ref Val %REC LowLimit

SeqNo: 529304

HighLimit

Qual

Gasoline Range Organics (GRO) Sur: BFB

ND 18

□0.00

0.88

118

RPDLimit

Sample ID 2.5UG GRO LCS

LCSW

SampType: LCS Batch ID: R18301

PQL

0.050

RunNo: 18301

TestCode: EPA Method 8015D: Gasoline Range

80.4

HighLimlt

Client ID: Prep Date:

Analysis Date: 4/30/2014

SeqNo: 529305 %REC

Units: mg/L

%RPD

RPDLimit Qual

Gasoline Range Organics (GRO)

0.54

Result

0.5000 □0.00

SPK value SPK Ref Val

109 95.8

80 80.4

LowLimit

100

%RPD

Surr. BFB

Analyte

19

118

Qualifiers:

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

Page 3 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#:

1404C00

02-May-14

Client:

Southwest Geoscience

Project:

Cohn #1

Sample ID 5ML RB	Samp	Type: MI	BLK	TestCode: EPA Method 8021B: Volatiles							
Client ID: PBW	Batc	h ID: R1	8301	F	lunNo: 1	8301					
Prep Date:	Analysis [Date: 4	30/2014	8	SeqNo: 5	29327	Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	1.0						21 200-250			
Toluene	ND	1.0									
Ethylbenzene	ND	1.0									
Xylenes, Total	ND	1.10									
Surr: 4-Bromofiuorobenzene	: 0		.0.00		98.5	81.9	139				

Sample ID 100NG BTEX L	CS Samp1	Type: LC	S	Tes						
Client ID: LCSW	Batc	h ID: R1	8301	F	RunNo: 1					
Prep Date:	Analysis [Date: 4/	30/2014	8	SeqNo: 5	29328	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	(1)	1.0	□0.00	0	103	80	100	_		
Toluene	:0	1.0	□0.00	0	103	80	1⊓0			
Ethylbenzene	_0	1.0	□0.00	0	101	80	1∟0			
Xylenes, Total	64	10	60.00	0	107	80	11.0			
Sur: 4-Bromofluorobenzene	. 11		(0.00		103	8119	139			

Qualifiers:

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

Page 4 of 4

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: Southwest Geoscience Work Order Number: 1404C00 RcptNo: 1 Received by/date: Logged By: Ashley Gallegos 4/30/2014 10:05:00 AM Completed By: **Ashley Gallegos** 4/30/2014 10:55:56 AM Reviewed By: Chain of Custody Yes ! i No : Not Present ♥ 1. Custody seals intact on sample bottles? **Not Present** :2. Is Chain of Custody complete? Yes V No 3. How was the sample delivered? Courier Log In No [] NA : 4. Was an attempt made to cool the samples? Yes V 5. Were all samples received at a temperature of >0° C to 6.0°C No ... Yes V Sample(s) in proper container(s)? No 7 Sufficient sample volume for indicated test(s)? No ... 8. Are samples (except VOA and ONG) properly preserved? No V NA I 9. Was preservative added to bottles? Yes No L. 10.VOA vials have zero headspace? Yes Y No VOA Vials 11. Were any sample containers received broken? No V # of preserved bottles checked No I for pH: 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) (<2 or >12 unless noted) Adjusted? No 13. Are matrices correctly Identified on Chain of Custody? No L 14. Is it clear what analyses were requested? Checked by: No L 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes ... 16. Was client notified of all discrepancies with this order? Person Notified: Date: By Whom: Via: eMail : Phone ' In Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp C Condition Seal Intact Seal No Seal Date

194 5				CHAIN OF CUSTODY RECORD
Southwest SGEOSCIENCE Environmental & Hydrogeologic Consultar Office Location AZTEC, NM	Address: ABO Contact: FREGMA Phone:		ANALYSIS REQUESTED	Lab use only Due Date: Temp. of coolers / / / when received (C°): 1 2 3 4 5 Page
Project Manager KyLG Sunwer	PO/SO #: 04/3 (5)	018	/ (DY /	
Sampler's Name MARON BRYANT KYLE SUMMERS	Sampler's Signature Co.		1 12 P	
04136018 CC	HN #1	No/Type of Containers	1 6/30///	
Matrix Date Time G r identify	ng Marks of Sample(s)	VOA A/G 250 P/O	OF RE	Lab Sample ID (Lab Use Only)
W 4-29-14 0830 X W	i_(5	XX	1404000-001
	NES			
	MS			
Turn eround time Normal 25% Rus				
Relinquished by (Signature) Prefinquished by (Signature) Prefinquished by (Signature) Relinquished by (Signature) Prefinquished by (Signature)	Time: Received by: (Sign	lature) Dat	D 14 1005);
Relinquished by (Signature) Date:	Time: Received by: (Sign		e: Time:	
Medritx WW - Wastewater W - Water Container VOA - 40 m3 vial A/G - An	r S - Soll SD - Solid L - Liq ber / Or Glass 1 Liter 250 m	uld A - Air Bag C I - Glass wide mouth P.	- Charcoal tube SL - stud /O - Plastic or other	ge O-OII

Mr. Jim Griswold November 6, 2014 Page Two

If you have any questions concerning the attached report, please do not hesitate to contact me at (713) 381-2286, or via email at: drsmith@eprod.com.

Sincerely,

David R. Smith, P.G.

Sr. Environmental Scientist

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

/dep Attachments

CC:

Cohn Mack S ET AL 4072 Hidden View Circle Ft. Worth, TX 76109

ec:

Glenn Von Gonten, New Mexico Oil Conservation Division, Santa Fe, NM

Mark Kelly, Bureau of Land Management, Farmington, NM Shari Ketcham, Bureau of Land Management, Farmington, NM Brandon Powell, New Mexico Oil Conservation Division, Aztec, NM Jonathan Kelly, New Mexico Oil Conservation Division, Aztec, NM Elizabeth McNally, Animas Environmental Services, Farmington, NM

District I 1625 N. French Dr., Hobbs, NM 86240 District II
811 S. First St., Artesis, NM 88210
District III
1000 Rio Brazos Road, Azlec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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

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

Revised August 8, 2011

Form C-141

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

1220 S. St. Fr	ancia Dr., Sa	nta Fe, NM 875	605							725	1	
				Release Not	ification	on and Corre	ctive Action			Luiti	al	
							OPERAT	OR		□ Update	d [Final Repo
		prise Field Ser				Contact: The						44.00
Facility Name		Farmington, NM	87401			The state of the s	0. 505-599-2286	min min min m	ll			
Pacinty Name	3: Conn 29-1	U-25 #1	-			гасаку гуре.	Gas gathering sy	ratent bibe	SILLE			
Surface Own	er: Private			Mineral Own	er BLN				API No.			
				LOC	OHA:	N OF RELEA	SE		-			
Unit Letter	Section	Township	Range	Feet from the	40000	h South	Feet from the	East/V	est Una	County	-	
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Date: ///	4/2014	P	hone: (713	381-6684								-20

^{*} Attach Additional Sheets if Necessary

ENTERPRISE PRODUCTS PARTNERS L.P. ENTERPRISE PRODUCTS HOLDINGS (LC (General Partner)

ENTERPRISE PRODUCTS OPERATING LLC

August 1, 2014

7014 1200 0001 0918 5254 Return Receipt Requested

ENMRD Oil Conservation Division Aztec District III Office Attn: Cory Smith 1000 Rio Brazos Road Aztec, NM 87410

RE:

Cohn 29019025 #1 San Juan County

Dear Mr. Smith:

Attached is an updated Release Notification and Corrective Action Report (C-141) as prepared by our field representative, Thomas Long. Should have questions or need additional information, Mr. Long's number is 505-599-2286 or Jon Fields, Director-Environmental at 713-381-6684.

Yours truly,

Ivan W. Zirbes

Sr. Director, Environmental

/sjn enclosures

ENTERPRISE PRODUCTS PARTNERS L.P. ENTERPRISE PRODUCTS HOLDINGS LLC (General Partner)

ENTERPRISE PRODUCTS OPERATING LLC

November 21, 2013

ENMRD Oil Conservation Division Aztec District III Office Attn: Brandon Powell 1000 Rio Brazos Road Aztec, NM 87410 Return Receipt Requested 7012 3460 0000 1945 3654

RE:

Cohn 29-10-25 #1

Release Notification - San Juan County

Dear Mr. Powell:

Attached is the Release Notification and Corrective Action Report as prepared by our field representative, Thomas Long. Should have questions or need additional information, Mr. Long's number is 505-599-2286 or me directly at 713-381-6595.

Yours truly,

Shiver J. Nolan

Sr. Compliance Administrator

Their of Noke

enclosure

District I 1625 N. French Dr., Hobbs, NM 88240 District II 817 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

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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Date: 11/	21/2013	Phone: 713-	381-6595							<u> </u>			

^{*} Attach Additional Sheets If Necessary



ENTERPRISE PRODUCTS FARTHERS L.P. ENTERPRISE PRODUCTS HOLDINGS LLC (Goneral Partner)

ENTERPRISE PRODUCTS OPERATINO LLC

October 6, 2014

ENMRD Oil Conservation Division Aztec District III Office Attn: Cory Smith 1000 Rio Brazos Road Aztec, NM 87410

Return Receipt Requested 7014 1200 0001 0918 2604

RE:

Cohn 29-10-25 #1

San Juan County

Dear Sirs:

Attached is a Release Notification and Corrective Action Report (Final) for the referenced release. Also attached is the Corrective Action Report and a Supplemental Site Investigation Report as prepared by our consultant, Apex Titan, Inc.

Should have questions or need additional information, please contact Thomas Long, our area field representative, at 505-599-2286 or me directly at 713-381-6684.

Yours truly,

Jon E. Fields

Director - Field Compliance

/sjn

enclosures

District | 1625 N. French Or., Hobbs, NM 88240 District II 811 S. First St., Artecia, NM 88210 1000 Rio Brazos Road, Aztoc, NM 87410 Dintrict IV. 1280 S. St. Francis Dr., Santa Fe, MM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Or. Santa Fo. NH 87603

Form C-141 Revised August 8, 2011

Submit 1 Copy to appropriate District Office in pocordance with 19.15.29 MISAC.

Release Notification and Corrective Action ☐ Updated ☑ Final Report Name of Company: Enterprice Field Services LLC Address, 514 Rollly Ave. Fermington, NM 87401 Contact Thomas Long Telephone No. 605-539-2286 Facility Name: Cohn 29-10-25 #1 Facility Type: Gas gathering system piceline Burlace Owner, Private Mineral Owner BLM API No. LOCATION OF RELEASE Unit Letter Section Township Feet from the Range Feat from the (East/Vicut Lina County 25 20N 10M 178 285 San Juan Latitude 35,703146 Longitudo 107,829616 **MATURE OF RELEASE** Type of Release: Natural gas and possible associated liquids Volume of Rolesso: Volumo Recovered: Unknown Source of Reloase: Natural gaz gethoring pipeline Date and Hour of Occurrence: Date and Hour of Discovery: 11/00/13 at approximately 1:30 PM Unknown Was Immediate Notice Given? If YES, To Whom? ☐ Yes ☐ No ☒ Not Raquirad By Whom? Date and Hour Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. Yes X No if a Watercourse was impacted, Deccribe Fully.* Describe Cause of Problem and Remedial Action Taken." Area technician discovered a pipelino leak on the well tie line for the Cohn 29-10-25 \$1. The line was isolated, depressurized and lock out tag out was applied. Repairs for the pipeline were completed the week of December 2, 2013. Additional remediation was completed in April 2014 where approximately 720 cubic yards of hydrocarbon impacted soil was excevated and transported to an approved NMOCD land farm facility. The final excevation dimensions measured approximately elxiy-five (65) feet long by twenty-five (25) wide by approximately twelve (12) where groundwater was encountered. Approximately 300 benets water was pumped out of the excevation and transported to an approved NiviOCD disposal facility. On August 14, 2104, eight (8) soil borings were advanced to total depths ranging from 12 to 13 feet below ground surface and completed as ground/eater monitoring wells. Each monitoring wells was developed, purge and sampled. Laboratory analytical results indicate contaminant concentrations above New Mexico Water Quality Control Commission standards. Describe Area Affected and Cloanup Action Taken." Repairs for the pipeline were completed the week of Decamber 2, 2013, Additional remediation was completed in April 2014 where approximately 720 cubic yards of hydrocarbon impacted soil was excavated and transported to an approved NMOCD land farm facility. The final excavation dimensions measured approximately staty-five (65) feet long by twenty-five (26) wide by approximately twelve (12) where groundwater was encountered. Approximately 300 barrals water was pumped out of the exercation and transported to an approved NMOCD disposal facility. On August 14, 2104, eight (8) soil borings were advanced to total depths ranging from 12 to 13 feet below ground surface and completed as groundwater monitoring wells. Each monitoring wells was developed, purge and campled. Laboratory analytical results indicate contaminant concentrations above New Mexico Water Quality Central Commission standards. A third party environmental corrective action report and supplemental investigation report is included with this "Final" c-141 I hareby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NAOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endenger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" dose not relieve the operator of liability should their operations have falled to adequately investigate and remediate contamination that pose a throat to ground water, ourface water, human health or the environment. In addition, FMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature Approved by Environmental Specialist: Printed Namo: Jon E. Fleids Title: Director, Environmental Approval Date: Expiration Date: Conditions of Approval: E-mail Address: jefiqids@pprod.com Attached [10/2/2014

Attach Additional Sheets If Necessary

Phone: (713) 381-6684

January 2, 2014

ENMRD Oil Conservation Division Aztec District III Office Attn: Brandon Powell 1000 Rio Brazos Road Aztec, NM 87410 Return Receipt Requested 7012 3460 0003 3115 7605

BLM Farmington Field Office Lands Team Attn: Scott Hall/Sherrie Landon 6251 College Blvd. Ste. A Farmington, NM 87402 Return Receipt Requested 7012 3460 0003 3115 7612

RE:

Cohn 29-20-25#1

Release Notification - San Juan County

Gentlemen:

Attached is the Release Notification as prepared by our field representative, Thomas Long Should have questions or need additional information, Mr. Long's number is 505-599-2286 or me directly at 713-381-6684.

Yours truly,

Jon Fields

Director-Field Environmental

/sjn

enclosure

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State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fa NIM 97505

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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SUPPLEMENTAL SITE INVESTIGATION REPORT

Property:

Cohn #1 Pipeline Release (11/08/2013) NE 1/4, S25 T29N R10W San Juan County, New Mexico

> September 22, 2014 Apex Project No. 7030413G018

> > Prepared for:

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

Prepared by:

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

Elizabeth Scaggs, P.G. Senior Program Manager

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Appendix C:		Soil Boring Logs			
Appendix D:		Laboratory Analytical Reports & Chain of Custody Documentation			



SUPPLEMENTAL SITE INVESTIGATION REPORT

Cohn #1 Pipeline Release (11/08/2013)

NE 1/4, S25 T29N R10W

San Juan County, New Mexico

Apex Project No. 7030413G018

1.0 INTRODUCTION

1.1 Site Description & Background

The Cohn #1 pipeline release site is located within the Enterprise Field Services LLC (Enterprise) pipeline right-of-way (ROW) in the northeast (NE) ¼ of Section 25 in Township 29 North and Range 10 West (36.703146N, 107.829618W) in San Juan County, New Mexico, referred to hereinafter as the "Site" or "subject Site". The Site is located on private property owned by Mack S. Cohn and is surrounded by river terrace vegetation periodically interrupted with oil and gas gathering facilities, including one (1) Enterprise natural gas gathering pipeline which traverses the area from southeast to northwest.

During December 2013, Enterprise shut in the Cohn #1 pipeline and on December 18th, 2013, initiated excavation activities at the Site in an attempt to locate and repair a subsurface leak. The leak was subsequently identified and repaired. An unknown quantity of natural gas was released from the pipeline as a result of internal and external corrosion. The leak was identified by vapor monitoring at the ground surface. No surface expression of the release was evident.

Excavation corrective action activities began December 18, 2013 and were completed April 23, 2014. During hydrocarbon affected soil removal, groundwater was encountered at the floor of the excavation prior to soils achieving acceptable New Mexico Energy, Minerals, and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) Remediation Action Level concentrations. Therefore, additional site investigation of groundwater was warranted. Additionally, during excavation activities, Enterprise elected to remove and properly dispose of an estimated 300 barrels of potentially affected groundwater to help facilitate remediation efforts and maintain a safer and more stable working environment in, and around, the excavation. Details of the corrective actions are included in the Corrective Action Report — Cohn #1 Pipeline Release (Apex) dated June 27, 2014.

A topographic map depicting the location of the Site is included as Figure 1, a Site Vicinity Map is included as Figure 2, and a Site Plan is included as Figure 3 in Appendix A.

1.2 Project Objective

The primary objective of the supplemental site investigation was to evaluate the magnitude and extent of dissolved phase constituents of concern (COCs), if present, in groundwater.



2.0 SITE RANKING

In accordance with the New Mexico ENMRD OCD's Guidelines for Remediation of Leaks, Spills and Releases, Apex TITAN, Inc. (Apex) utilized the general site characteristics obtained during the completion of corrective action activities and information available from the Office of the New Mexico Office of the State Engineer to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the following table:

Rankin	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	
	200 to 1,000 feet	10	10
	>1,000 feet	0	
Total Ranking Score			30

^{*}Groundwater was encountered during excavation activities.

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

- No water wells were identified on the Office of the State Engineer website database within the search radius. However, groundwater was encountered during excavation activities at approximately 9.5 feet below grade surface (bgs), resulting in a ranking of "20" for depth to groundwater.
- No water wells or water sources were identified within the search radius, resulting in a ranking of "0" for the Wellhead Protection Area.
- The Site is 520 feet from an unnamed wash, resulting in a ranking of "10" for distance to surface water.

3.0 SITE INVESTIGATION

3.1 Soil Borings and Temporary Monitoring Points

Eight (8) soil borings (TMP-1 through TMP-8) were advanced in the vicinity of the former pipeline release. Soil boring TMP-8 was advanced topographically upgradient of the former point of release, and soil boring TMP-5 was advanced as near as practicable to the former point of release. Soil borings TMP-4 and TMP-7 were advanced on the east and west sides of the former excavation, and soil borings TMP-1 through TMP-3, and TMP-6 were advanced topographically downgradient of the former point of release.

Figure 3 of Appendix A is a Site Map which depicts the location of the soil boring locations and former extents of the excavation.

Soil samples were collected continuously, utilizing four-foot core barrel samplers to the termination depth of each soil boring. Soil samples were observed to document soil lithology, color, moisture content, and visual and olfactory evidence of petroleum hydrocarbons. Field headspace analysis was conducted by placing the portion of the soil sampled designated for field



screening into a plastic Ziplock® bag. The plastic bag was sealed, and the sample allowed to volatilize. The air above the sample, the headspace, was then evaluated using a photoionization detector (PID) capable of detecting volatile organic compounds (VOCs). The PID was calibrated utilizing an isobutylene standard prior to use in the field.

During the completion of each soil boring, an on-Site geoscientist documented the lithology encountered and constructed a continuous profile of the soil column from the surface to the boring terminus. Soil samples from each boring location were visually inspected and classified in the field. The lithology observed during the advancement of soil boring TMP-1 at the Site included moderate olive brown clayey sand from the ground surface to approximately 4 feet bgs, underlain by moderate olive brown poorly graded sand to the terminus of the boring at 12 feet bgs. A lense of silty clayey sand was observed from 7 feet to 8 feet bgs. The remaining soil borings advanced during the drilling activities exhibited lithologic columns similar to that observed at TMP-1. Detailed lithologic descriptions are presented on the soil boring logs included in Appendix C.

Overall, PID readings ranged from zero (0) parts per million (ppm) to 276 ppm. Soil borings TMP-4 and TMP-5 exhibited PID readings above 100 ppm at the capillary fringe zone. A PID reading of 35 ppm was documented at the capillary fringe zone in TMP-6. Similarly, a PID reading of 15 ppm was documented at the capillary fringe zone in TMP-7. Significant petroleum hydrocarbon vapors were not detected with the PID in soil samples collected from soil borings TMP-1 through TMP-4, and TMP-8. Field screening results are presented on soil boring logs included in Appendix C.

Subsequent to advancement, the soil borings were converted to temporary monitoring points. The monitoring points were completed using the following methodology:

- Installation of 5 feet of 1-inch inside diameter, 0.010-inch machine slotted PVC well screen with a threaded bottom cap;
- Installation of 1-inch inside diameter, threaded flush joint PVC riser pipe to the ground surface; and
- Addition of pre-sieved 10/20 grade annular silica sand pack from the bottom of the soil boring to 2-feet above the top of the well screen.

The temporary monitoring points were developed by surging with a disposable bailer. Monitoring point construction details are presented on the soil boring logs included in Appendix C.

3.2 Groundwater Sampling Program

Prior to sample collection, the monitoring points were purged of three (3) casing volumes of groundwater, utilizing a dedicated, disposable bailer for each well. Subsequent to the completion of the purging process, one (1) groundwater sample was collected from each temporary monitoring well utilizing a disposable bailer. The groundwater samples were collected in laboratory supplied containers, sealed with custody tape and placed on ice in a cooler secured with a custody seal. The sample cooler and completed chain-of-custody forms were relinquished to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico.

3.3 Laboratory Analytical Program

The groundwater samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) using EPA SW-846 Method #8021. The containers containing the samples for organic analyses were pre-preserved with HgCl₂.



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

4.0 GROUNDWATER FLOW DIRECTION

The relative top-of-casing elevation of each of the temporary monitoring points was measured utilizing a laser level. After allowing at least 24 hrs for equilibration, Apex gauged the depth to fluids in each monitoring point. Based on the field measurements, the groundwater flow direction (gradient) at the Site is generally toward the north-northwest, with an approximate gradient of 0.004 ft/ft across the Site. Groundwater is present at approximately 9.5 feet bgs at the Site.

A groundwater gradient map for the sampling event is included as Figure 4 (Appendix A).

5.0 DATA EVALUATION

The Site is subject to regulatory oversight by the NNEPA and the New Mexico OCD. Apex utilized the New Mexico EMNRD OCD guidance and rules. To address activities related to condensate releases, the New Mexico EMNRD OCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the OCD rules, specifically NMAC 19.15.29 *Remediation Plan.* These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

5.1 Groundwater Samples

Apex compared BTEX concentrations or laboratory reporting limits (RLs) associated with the groundwater samples collected from temporary monitoring wells to the New Mexico Water Quality Control Commission (WQCC) Groundwater Quality Standards. The results of the groundwater sample analyses are summarized in Table 1 of Appendix B.

Benzene, Toluene, Ethylbenzene, and Xylenes

The groundwater samples collected from monitoring points TMP-1, TMP-3, TMP-6 and TMP-7 exhibited benzene concentrations ranging from 12 micrograms per liter (µg/L) (TMP-1) to 1,400 µg/L (TMP-6), which exceeded the WQCC Groundwater Quality Standard of 10 µg/L.

The groundwater samples collected from monitoring points TMP-2, TMP-4, TMP-5, and TMP-8 exhibited benzene concentrations ranging from below the laboratory RLs to 8.0 µg/L (TMP-2), which are below the WQCC *Groundwater Quality Standard* of 10 µg/L.

The groundwater sample collected from temporary monitoring point TMP-6 exhibited a toluene concentration of 50 µg/L, which is below the WQCC *Groundwater Quality Standard* of 750 µg/L. The groundwater samples collected from the remaining monitoring points did not exhibit toluene concentrations above the laboratory RLs, which are below the WQCC *Groundwater Quality Standard* of 750 µg/L.

The groundwater samples collected from temporary monitoring points TMP-3 through TMP-7 exhibited ethylbenzene concentrations ranging from 2.6 μ g/L (TMP-4) to 150 μ g/L (TMP-6), which are below the WQCC *Groundwater Quality Standard* of 750 μ g/L. The groundwater samples collected from the remaining temporary monitoring points did not exhibit ethylbenzene concentrations above the laboratory RLs, which are below the WQCC *Groundwater Quality Standard* of 750 μ g/L.



The groundwater sample collected from temporary monitoring point TMP-5 exhibited a xylenes concentration of 800 μ g/L, which exceeded the WQCC *Groundwater Quality Standard* of 620 μ g/L.

The groundwater samples collected from temporary monitoring points TMP-3, TMP-6, and TMP-7 exhibited xylenes concentrations ranging from 1.8 μ g/L (TMP-7) to 490 μ g/L (TMP-6), which are below the WQCC *Groundwater Quality Standard* of 620 μ g/L. The groundwater samples collected from the remaining monitoring points did not exhibit xylenes concentrations above the laboratory RLs, which are below the WQCC *Groundwater Quality Standard* of 620 μ g/L.

6.0 FINDINGS AND RECOMMENDATIONS

The primary objective of the supplemental site investigation was to evaluate the magnitude and extent of dissolved phase constituents of concern (COCs), if present, in groundwater.

- Apex installed eight (8) temporary monitoring points at the Cohn #1 release Site utilizing a Geoprobe® drilling rig.
- During the completion of the sampling event, one (1) groundwater sample was collected from each temporary monitoring point utilizing bailing techniques.
- Based on field measurements, the groundwater flow direction at the Site is generally towards the north-northwest, with an approximate gradient of 0.004 ft/ft across the Site.
- The groundwater samples collected from temporary monitoring points TMP-1, TMP-3, TMP-6 and TMP-7 exhibited benzene concentrations ranging from 12 μg/L to 1,400 μg/L, which exceed the WQCC Groundwater Quality Standard of 10 μg/L.
- The groundwater sample collected from temporary monitoring points TMP-5 exhibited a xylenes concentration of 800 µg/L, which exceeds the WQCC Groundwater Quality Standard of 620 µg/L.
- The groundwater samples collected from the remaining monitoring points did not exhibit BTEX constituent concentrations above the WQCC Groundwater Quality Standards.

Based on the results of the supplemental site investigation, Apex has the following recommendations:

- Report the groundwater sampling results to the OCD;
- Plug and abandon the temporary monitoring points: and
- Perform additional delineation activities utilizing groundwater monitoring wells to complete the delineation of the dissolved-phase groundwater plume.

7.0 STANDARD OF CARE, LIMITATIONS, AND RELIANCE

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

Enterprise Field Services LLC Supplemental Site Investigation Report Cohn #1 Pipeline Release (11/08/2013) September 22, 2014



laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client.

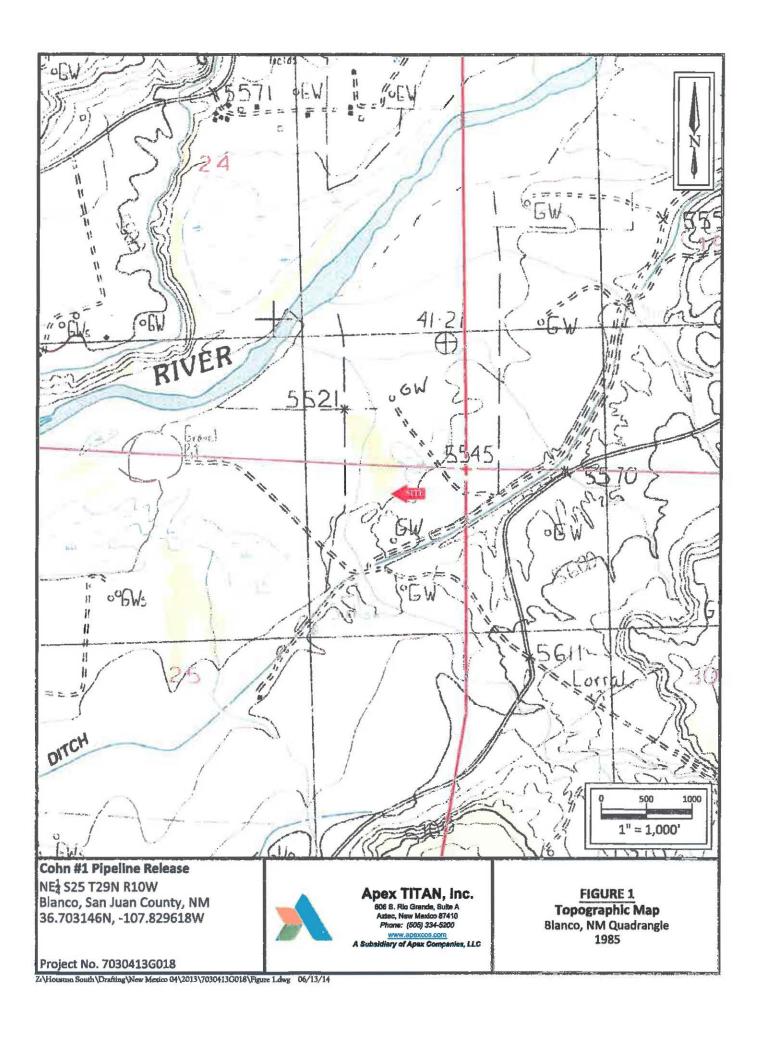
Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence 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.

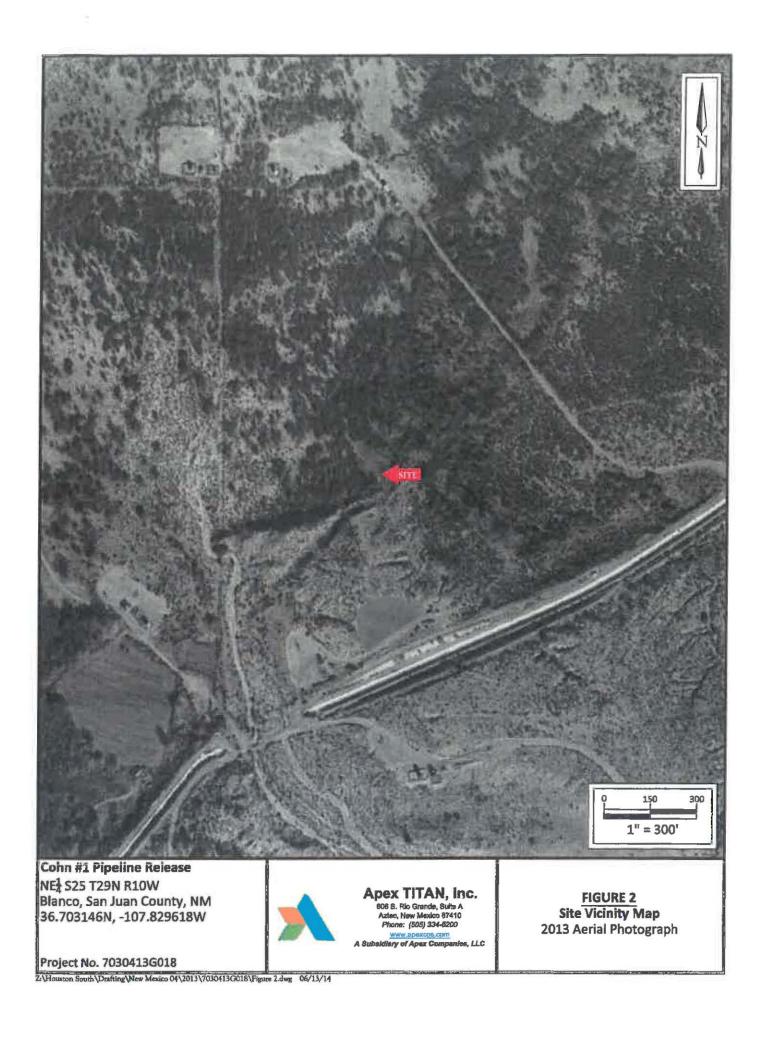
This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the expressed written authorization of Enterprise and Apex. Any unauthorized distribution 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.

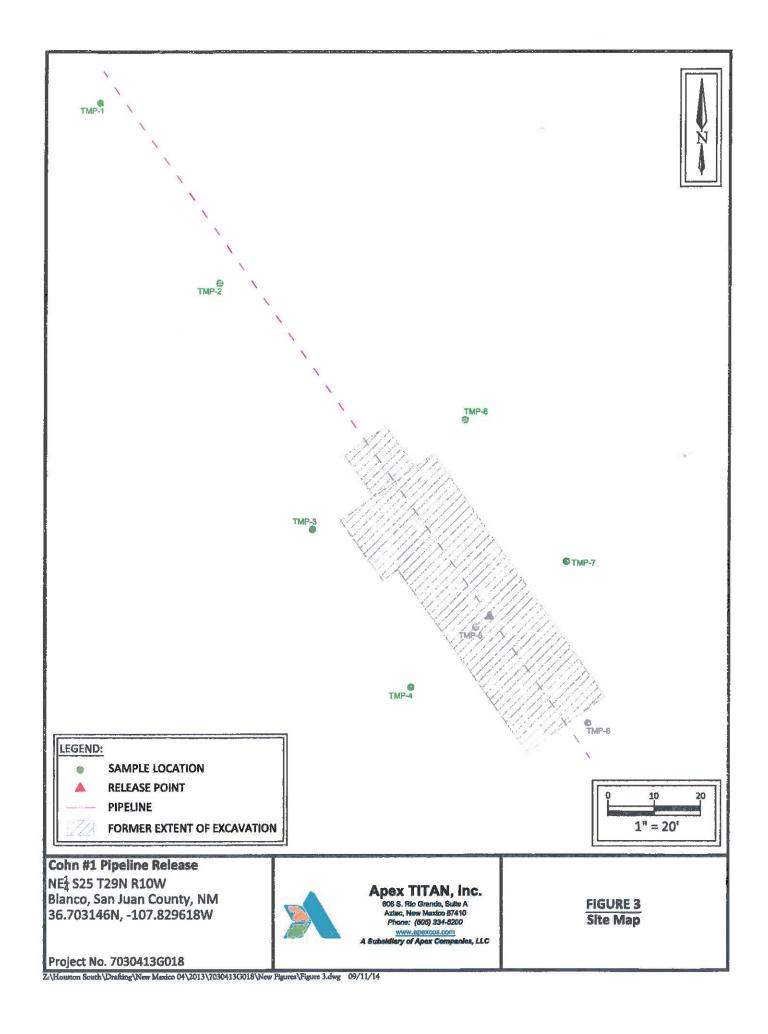


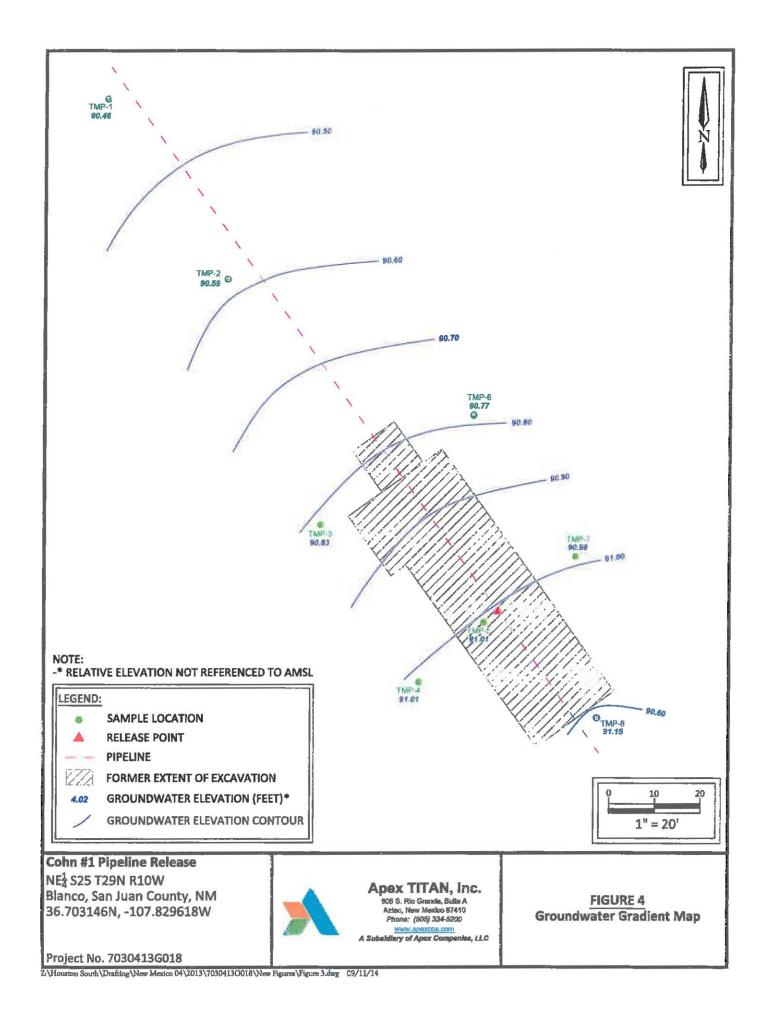
APPENDIX A

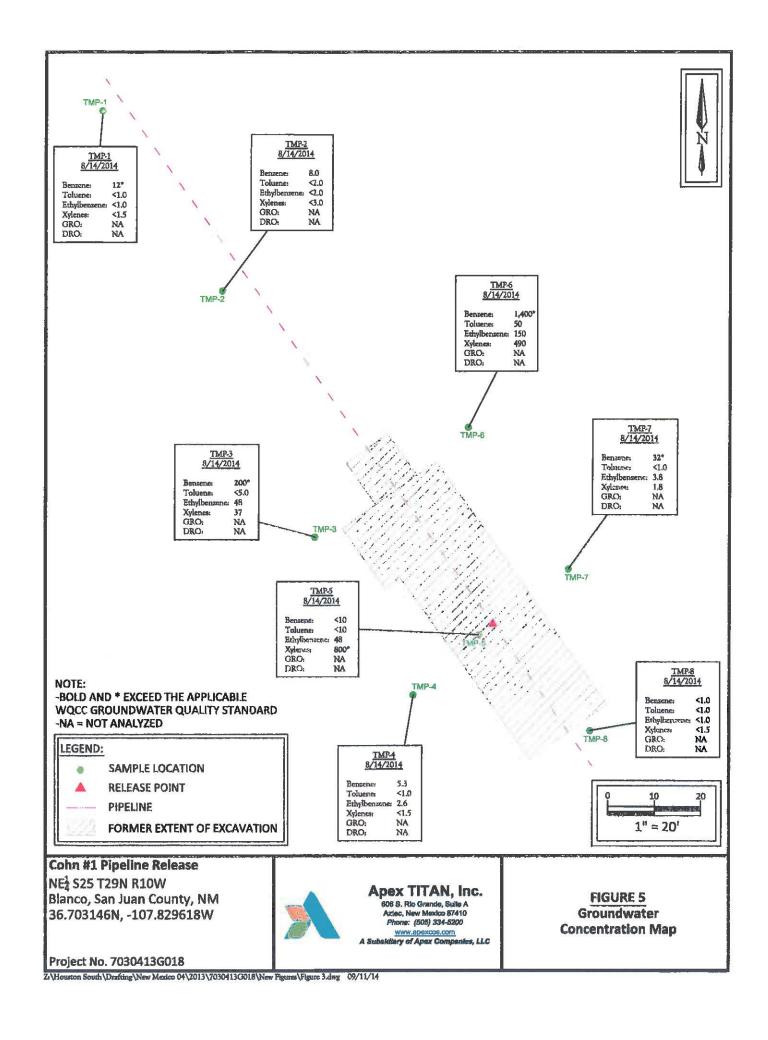
Figures













APPENDIX B

Tables



TABLE 1 Cohn #1 Pipeline Release GROUNDWATER ANALYTICAL SUMMARY

Sample I.D.	Date	Senzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (μg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)
	ity Control Commission for Quality Standards	10	750	750	620	NE	NE
TMP-1	8.14.14	12	<1.0	<1.0	<1.5	NA	NÁ
TMP-2	8.14.14	8.0	<2.0	<2.0	<3.0	NA	NA
TMP-3	8.14.14	200	<5.0	48	37	NA	NA
TMP-4	8.14.14	5.3	<1.0	2.6	<1.5	NA	NA
TMP-5	8.14.14	<10	<10	48	800	NA	NA
TMP-6	8.14.14	1,400	50	150	490	NA	NA
TMP-7	8.14.14	32	<1.0	3.8	1.8	NA	NA
TMP-8	8.14.14	<1.0	<1.0	<1.0	<1.5	NA	NA

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

NA = Not Analyzed NE = Not Established

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



APPENDIX C
Soil Boring Logs

		11391 I	Meadowgle Houston, Te Phone: (281, www.spex liery of Apa	n Lane, Sui xas 77082) 497-1665 cos.com	te H	Project Project	t: Enterprise Field Services Name: Cohn #1 Pipeline Release Location: Rural San Juan County, New Mexico Manager: Kyle Summers	_	BORING LOG NUMBER TMP-1 Project # 7030413G018.001
Date Sam Drilled by Driller: Logged by Sampler:	y: _I y: _I	August 14 Earthworz Trujillo L. Woods L. Woods)			Top of North C West C Bench I	Surface Elevation: N/A	Casing Di Well Mate Surface C	Diameter: 2.25° sameter: 1° PVC erials: N/A completion: N/A ethod: Geoprobe
DEPTH (ft)	SAMPLE	SAMPLE ID	RECOVERY (%)	FID/PID READING (ppm)	POTENTIO- METRIC SURFACE	GBOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION		BORING / WELL COMPLETION (GRAPHIC DEPICTION)
10		ne New M	oxico 04\VA	0 - 0 - 0	3G018\\oc	(Borting Lo	CLAYEY SAND: mod olive brown, dry to moist, no eder, no state of the property	3	Filter pant (20-40 clean silies sand) Clean silies sand) Filter pant (20-40 clean silies sand) Set-ectate 40 PVC with DO 10 machine stories stories as (2-12 fice)

Date Samplet: Date Samplet			11391 A Subsid	Meadowgk Houston, Te Phone: (281 www.apex ilary of Ape	en Lane, Sul xas 77082) 497-1655 cos.com	ile H	Projec Projec Projec	nt: Enterprise Field Services t Name: Cohn #1 Pipeline Release t Location: Rural San Juan County, New Mexico t Manager: Kyle Summers	_	BORING LOG NUMBER TMP-2 Project # 7030413G018.001
CLAYEY SAND: mod alive brown, day to alightly moist, no odor, no stabiling CORLY GRADED SAND: trace all: and clay, mod alive brown, slightly moist to moist, no odor, no stabiling CORLY GRADED SAND: trace all: and clay, mod alive brown, slightly moist to moist, no odor, no stabiling Corner of the moist, no odor, no	Drilled by Driller: Logged by	: <u>E</u> /: <u>I</u>	arthworz Trujillo I. Woods	<u> </u>			Top of North (West C Bench	Casing Elevation: N/A Coordinate: Coordinate: Mark Elevation: N/A t Completion	Casing Di Well Mate Surface C	ameter: 1" PVC rials: N/A completion: N/A
TOTAL DEPTH OF BORING - 12.0 feet BGS	DEPTH (A)	SAMPLE INTERVAL	SAMPLE	RECOVERY (%)	FID/PID READING (ppm)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLÓGIC DESCRIPTION		
25 —	15				0			staining POORLY GRADED SAND: trace silt and clay, med plive brown moist to moist, no odor, no staining -black, wet, sewer odor, staining -trace gravel @ 10 - 12 -mod olive brown, sewer odor, some staining -sandy silty clay lense @ 11 - 12		Filter pack (20-40 clean silica sand) Schedule 40 PVC with 0.010° mediline slotted openings (7-12 fact)

		11391 I	Meadowgle Houston, Te Phone: (281 www.apex liary of Ape	an Lane, Sul oxas 77082) 497-1665 cos.com	te H	Project Project	t: Enterprise Field Services t Name: Cohn #1 Pipeline Release t Location: Rural San Juan County, New Mexico t Manager: Kyle Summers	-	TMP-3 Project # 7030413G018.001
Date Sam Drilled by Driller: Logged by Sampler:	r:] 	August 14 Earthworz Trujillo I. Woods I. Woods				Top of North (West C Bench !	Surface Elevation: N/A	Casing Di Well Mate Surface C	Diameter: 2.25" ameter: 1" PVC erials: N/A ompletion: N/A ethod: Geoprobe
рветн (A)	SAMPLE INTERVAL	SAMPLE	RECOVERY (%)	FID/PID READING (ppm)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION		BORING / WELL COMPLETION (GRAPHIC DEPICTION)
10				- 0 - 3 - 3 - 3 - 3			CLAYEY SAND: mod olive brown, dry to moist, no odor, no state of the process of the control of t	n, moist, no	Filter pack (20-40 clean silies smd) clean silies smd) Filter pack (20-40 clean silies smd)
20			04300	2) 10 20 20		Barbara 2	coding 09/13/14		

Date Samp	oled: _A	11391 F	Meadowgle Houston, Te Phone: (281 www.spex Slary of Ape	en Lane, Sui cas 77082) 497-1665 cos com	te H	Project Project Project	t: Enterprise Field Services Name: Cohn #1 Pipeline Release Location: Rural San Juan County, New Mexico Manager: Kyle Summers Surface Elevation: N/A	Borehole	TMP-4 Project # 7030413G018.001 Diameter: 2.25" ameter: 1"PVC
Drilled by Driller: Logged by Sampler:	: <u>I</u>	arthworz Trujillo I. Woods I. Woods				North (West C Bench	Casing Elevation: N/A Coordinate: - Mark Elevation: N/A Completion Well Stabilization	Casing Di Well Mate Surface C Boring Me	
DBPTH (#)	SAMPLE	SAMPLE	RECOVERY (%)	FID/PID READING (ppm)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION		BORING / WELL COMPLETION (GRAPHIC DEPICTION)
10		ng\New Me	saico 04\20	31 1 1	G018\loga	Boring Lo	POORLY GRADED SAND: trace silt and clay, mod olive brown moist, no odor, no staining, slight degraded hydrocarbon odor CLAYEY SILT: black, moist, sever odor, degraded hydrocarbon staining POORLY GRADED SAND: trace silt and clay, black, wet, sewe staining -grading to mod olive brown TOTAL DEPTH OF BORING - 13.0 feet BGS	n odor,	Filter panck (20-40 clean silica: sent) Schedule 40 PVC with 0.010° methins dotted upenings (8-13 freet)

		11391 H	Meadowgle louston, Ter hone: (281) www.apex lery of Aper	n Lane, Suit cas 77082 497-1665 cos.com	e H	Project Project Project	at: Enterprise Field Services Name: Cohn #1 Pipeline Release Location: Rural San Juan County, New Mexico Manager: Kyle Summers	-	BORING LOG NUMBER TMP-5 Project # 7030413G018,001
Date Samp Drilled by Driller: Logged by Sampler:	_ <u> </u>	arthworx Trujillo L Woods Woods				Top of North C West C Bench I	Surface Elevation: N/A N/A Casing Elevation: N/A N/A Coordinate:	Casing Di Well Mate Surface C	Diameter: 2.25" ameter: 1" PVC erials: N/A completion: N/A ethod: Geoprobe
DBPTH (ft)	SAMPLE	SAMPLE ID	RECOVERY (%)	FID/PID READING (ppm)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION		BORING / WELL COMPLETION (GRAPHIC DEPICTION)
5				1 41 - 276 13			SILTY CLAYEY SAND: trace to with gravel, mod yellowish bet moist, no odor, no stationg POORLY GRADED SAND: trace sile and clay, mod olive brown lenses of black, wet, sewer odor, stationg -black, hydrocarbon odor, sewer odos, thin lenses of sitty clay @ TOTAL DEPTH OF BORING - 13.0 feet BGS	a with thin	clean silics smd) Filter pack (20-40 Clean silics smd) Filter pack (20-40 Filtr pack (20-40 Fi

Z-\Houston South\Drafting\New Mexico 04\2013\7030413G018\logs\Boring Logs.dwg 09/17/14

Apex TITAN, Inc. Client: Enterprise Field Services **BORING LOG NUMBER** 11391 Meadowglen Lane, Suite H Houston, Texas 77082 Phone: (281) 497-1665 Project Name: Cohn #1 Pipeline Release TMP-6 Project Location: Rural San Juan County, New Mexico Project # 7030413G018.001 Project Manager: Kyle Summers A Subsidiary of Apex Companies, LLC Borehole Diameter: 2.25" Casing Diameter: 1" PVC Well Materials: N/A Ground Surface Elevation: N/A Top of Casing Elevation: N/A August 14, 2014 Date Sampled: Drilled by: Earthwork North Coordinate: ___ L. Trujillo H. Woods Driller: Surface Completion: N/A West Coordinate: __ Logged by: Boring Method: Geoprobe Bench Mark Elevation: N/A Sampler: H. Woods At Completion At Well Stabilization READING (ppm) GEOLOGIC LOG SYMBOL SAMPLE POTENTIO-METRIC SURFACE SAMPLE ID RECOVERY BORING / WELL COMPLETION (GRAPHIC DEPICTION) 8 3 GEOLOGIC DESCRIPTION CLAYEY SAND: mod olive brown, dry to moist, no odor, no staining POORLY GRADED SAND: trace silt and clay, mod olive brown to black @ 3, moist, alight sewer odor, degraded hydrocarbon odor 3 35 -clayey silt lense @ 7.5, wet 151 Flush threafed 1" ID Schedule 40 PVC with 0.010" machine slotted openings (8-13 feet) -sewer and hydrocarbon odor 31 23 7 Filter pack (20-40 clean silica sand) TOTAL DEPTH OF BORING - 13.0 feet BGS

2.\Houston South\Drafting\New Mexico 04\2013\7030413G018\logs\Borring Logs.dwg 09/17/14

>		11391 † A Subsid	Meadowgle lousion, Tec hone: (281, www.apex lary of Aper	n Lane, Sui xas 77082) 497-1665 cos.com	le H	Project Project Project	at: Enterprise Field Services t Name: Cohn #1 Pipeline Release t Location: Rural San Juan County, New Mexico t Manager: Kyle Summers	-	ORING LOG NUMBER TMP-7 Project # 7030413G018,001
Date Sam Drilled by Driller: Logged by Sampler:	y: <u>I</u>	August 14 Earthworz Trujillo I. Woods I. Woods				Top of North (West C Bench !	Surface Elevation: N/A	Casing Di Well Mate Surface C	Diameter: 2.25" ameter: 1" PVC erials: N/A completion: N/A ethod: Geoprobe
DBPTH (ft)	SAMPLE	SAMPLE	RECOVERY (%)	FID/PID READING (ppm)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION		BORING / WELL COMPLETION (GRAPHIC DEPICTION)
10				1			POORLY GRADED SAND: trace silt and clay, mod olive brown moist, slight sower odor, no staining POORLY GRADED SAND: trace silt and clay, black, moist, set slightly degraded hydrocarbon odor, staining TOTAL DEPTH OF BORING - 13.0 feet BGS		eleen either sand) Schodule 40 PVC with 0.010" machine alouted openings (8-13 feet)

	1	11391 }	Meadowglis Houston, Ta Hone: (281 Www.apex Hery of Ape	on Lene, Sui ones 77082 1) 497-1665	te H	Project Project Project	nt: Enterprise Field Services t Name: Cohn #1 Pipeline Release t Location: Rural San Juan County, New Mexico t Manager: Kyle Summers	_	BORING LOG NUMBER TMP-8 Project # 7030413G018.001
Date Sample Drilled by: Driller; Logged by: Sampler:	E L H	ugust 14 arthworx Trujillo Woods Woods				Top of North (West C Bench	Surface Elevation: N/A Casing Elevation: N/A Coordinate:	Casing Di Well Mate	Diameter: 2.25" iameter: 1" PVC erials: N/A completion: N/A ethod: Geoprobe
реутн (ft)	SAMPLE INTERVAL	SAMPLE ID	RECOVERY (%)	FID/PID READING (ppm)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION		BORING / WELL COMPLETION (GRAPHIC DEPICTION)
10		ne/New Me	nico 94\20	33	GO18\logs	Neoring Lo	CLAYEY SILTY SAND: mod olive brown, dry to moist, slight of staining POORLY GRADED SAND: trace silt and clay, black, sewer and hydrocarbon odor -wet SANDY CLAYEY SILTY: black grading to mod clive brown, wodor, staining grading to slight staining POORLY GRADED SAND: with silt, trace clay, mod of we brown sewer odor, slight staining TOTAL DEPTH OF BORING - 13.0 feet BGS	l degraded	Pilter pank (20.40 clean slike sand) Sectochile 40 PVC with 0.010° machine sloned operatings (8-13 feet)



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

OrderNo.: 1408774

August 28, 2014

Kyle Summers
Enterprise Field Services
614 Reilly Ave.
Farmington, NM 87401
TEL: (505) 599-2141

FAX

RE: Cohn #1

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 8 sample(s) on 8/15/2014 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 8/28/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services

Client Sample ID: TMP-1

Project: Cohn #1

Collection Date: 8/14/2014 11:10:00 AM

Lab ID: 140

1408774-001

Matrix: AQUEOUS

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

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES S	HORT LIST	* ***		2000	Analys	t: cadg
Benzene	12	1.0	μg/L	1	8/25/2014 11:53:36 Al	M R20777
Toluene	ND	1.0	μg/L	1	8/25/2014 11:53:36 AF	M R20777
Ethylbenzene	ND	1.0	μg/L	4	8/25/2014 11:53:36 Af	M R20777
Xylenes, Total	ND	1.5	μg/L₋	1	8/25/2014 11:53:36 AM	/ R20777
Surr: 1,2-Dichloroethane-d4	101	70-130	%REC	1	8/25/2014 11:53:36 AF	A R20777
Surr: 4-Bromofluorobenzene	101	70-130	%REC	1	8/25/2014 11:53:36 AF	A R20777
Surr: Dibromofluoromethane	89.6	70-130	%REC	1	8/25/2014 11:53:36 AM	/ R20777
Surr: Toluene-d8	102	70-130	%REC	12.0	8/25/2014 11:53:36 AM	A R20777

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

Qualifiers:

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

Page 1 of 10

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

Analytical Report

Lab Order 1408774

Date Reported: 8/28/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services

Client Sample ID: TMP-2

Project: Cohn #1

Collection Date: 8/14/2014 11:50:00 AM

Lab ID: 1408774-002

Matrix: AQUEOUS Received Date: 8/15/2014 8:00:00 AM

Analyses	Result	RL Q	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES S	HORT LIST				Analyst	cadg
Benzene	8.0	2.0	µg/L	2	8/25/2014 3:14:51 PM	R20777
Toluene	ND	2.0	μg/L	2	8/25/2014 3:14:51 PM	R20777
Ethylbenzene	ND	2.0	μg/L	2	8/25/2014 3:14:51 PM	R20777
Xylenes, Total	ND	3.0	μg/L	2	8/25/2014 3:14:51 PM	R20777
Surr: 1,2-Dichloroethane-d4	106	70-130	%REC	2	8/25/2014 3:14:51 PM	R20777
Surr: 4-Bromofluorobenzene	101	70-130	%REC	2	8/25/2014 3:14:51 PM	R20777
Surr: Dibromofluoromethane	97.9	70-130	%REC	2	8/25/2014 3:14:51 PM	R20777
Surr: Toluene-d8	101	70-130	%REC	2	8/25/2014 3:14:51 PM	R20777

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

Qualifiers:

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

Page 2 of 10

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

Date Reported: 8/28/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services

1408774-003

Client Sample 1D: TMP-3

Project: Co

Lab ID:

Cohn #1

Collection Date: 8/14/2014 2:04:00 PM

Matrix: AQUEOUS

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

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES S	HORT LIST		* * *		Analyst	cadg
Benzene	200	5.0	μg/L	5	8/25/2014 3:43:41 PM	R20777
Toluene	ND	5.0	µg/L	5	8/25/2014 3:43:41 PM	R20777
Ethylbenzene	48	5.0	µg/L	5	8/25/2014 3:43:41 PM	R20777
Xylenes, Total	37	7.5	μg/L	5	8/25/2014 3:43:41 PM	R20777
Surr: 1,2-Dichloroethane-d4	105	70-130	%REC	5	8/25/2014 3:43:41 PM	R20777
Surr: 4-Bromofluorobenzene	88.7	70-130	%REC	5	8/25/2014 3:43:41 PM	R20777
Surr: Dibromofluoromethane	92.6	70-130	%REC	5	8/25/2014 3:43:41 PM	R20777
Surr: Toluene-d8	108	70-130	%REC	5	8/25/2014 3:43:41 PM	R20777

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

Qualifiers:

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

Page 3 of 10

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

Date Reported: 8/28/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services

Client Sample ID: TMP-4

Project: Cohn #1

Collection Date: 8/14/2014 2:10:00 PM

Lab ID: 1408774-004

Matrix: AQUEOUS

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

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES S	HORT LIST				Analyst	cadg
Benzene	5.3	1.0	μg/L	1	8/25/2014 5:10:12 PM	R2077
Toluene	ND	1.0	μg/L	1	8/25/2014 5:10:12 PM	R2077
Ethylbenzene	2.6	1.0	μg/L	1	8/25/2014 5:10:12 PM	R2077
Xylenes, Total	ND	1.5	μg/L	1	8/25/2014 5:10:12 PM	R2077
Surr: 1,2-Dichloroethane-d4	107	70-130	%REC	1	8/25/2014 5:10:12 PM	R20777
Surr: 4-Bromofluorobenzene	107	70-130	%REC	1	8/25/2014 5:10:12 PM	R20777
Surr: Dibromofluoromethane	98.4	70-130	%REC	1	8/25/2014 5:10:12 PM	R20777
Surr: Toluene-d8	100	70-130	%REC	1	8/25/2014 5:10:12 PM	R20777

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

Qualifiers:

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

Page 4 of 10

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

Date Reported: 8/28/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services

Client Sample ID: TMP-5

Project: Cohn #1

Collection Date: 8/14/2014 2:18:00 PM

Lab ID: 1408774-005

Matrix: AQUEOUS

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

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES S	HORT LIST				Analyst	: cadg
Benzene	ND	10	μg/L	10	8/25/2014 5:39:04 PM	R2077
Toluene	ND	10	µg/L	10	8/25/2014 5:39:04 PM	R2077
Ethylbenzene	48	10	μg/L	10	8/25/2014 5:39:04 PM	R2077
Xylenes, Total	800	15	µg/L	10	8/25/2014 5:39:04 PM	R20777
Surr: 1,2-Dichloroethane-d4	97.9	70-130	%REC	10	8/25/2014 5:39:04 PM	R20777
Surr: 4-Bromofluorobenzene	93.5	70-130	%REC	10	8/25/2014 5:39:04 PM	R20777
Surr: Dibromofluoromethane	91.4	70-130	%REC	10	8/25/2014 5:39:04 PM	R20777
Surr: Toluene-d8	102	70-130	%REC	10	8/25/2014 5:39:04 PM	R20777

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

Qualifiers:

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

Page 5 of 10

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

Date Reported: 8/28/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services

Cohn #1

Project:

Lab ID:

1408774-006

Client Sample ID: TMP-6

Collection Date: 8/14/2014 2:25:00 PM

Matrix: AQUEOUS Received Date: 8/15/2014 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES S	HORT LIST		192 <u>1</u> 720		Analyst	cadg
Benzene	1400	20	μg/L	20	8/25/2014 6:07:54 PM	R2077
Toluene	50	20	μg/L	20	8/25/2014 6:07:54 PM	R2077
Ethylbenzene	150	20	µg/∟	20	8/25/2014 6:07:54 PM	R2077
Xylenes, Total	490	30	μg/L	20	8/25/2014 6:07:54 PM	R2077
Surr: 1,2-Dichloroethane-d4	100	70-130	%REC	20	8/25/2014 6:07:54 PM	R2077
Surr: 4-Bromofluorobenzene	93.8	70-130	%REC	20	8/25/2014 6:07:54 PM	R2077
Surr: Dibromofluoromethane	88.6	70-130	%REC	20	8/25/2014 6:07:54 PM	R2077
Surr: Toluene-d8	102	70-130	%REC	20	8/25/2014 6:07:54 PM	R2077

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

Qualifiers:

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

Page 6 of 10

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

Date Reported: 8/28/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services

d Services Client Sample ID: TMP-7

Project: Cohn #1

Collection Date: 8/14/2014 2:30:00 PM Received Date: 8/15/2014 8:00:00 AM

Lab ID: 1408774-007

Matrix: AQUEOUS

Analyses	Result	RL Qua	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES S	METHOD 8260: VOLATILES SHORT LIST izene 32 1.0 1 izene ND 1.0 1 izene 3.8 1.0 1 izenes, Total 1.8 1.5 1 izenes, Total 1.2 70-130 3					cadg
Benzene	32	1.0	μg/L	1	8/25/2014 6:36:39 PM	R20777
Toluene	ND	1.0	µg/L	1	8/25/2014 6:36:39 PM	R20777
Ethylbenzene	3.8	1.0	µg/L	1	8/25/2014 6:36:39 PM	R20777
Xylenes, Total	1.8	1.5	μg/L	1	8/25/2014 6:36:39 PM	R20777
Surr: 1,2-Dichloroethane-d4	102	70-130	%REC	1	8/25/2014 6:36:39 PM	R20777
Surr: 4-Bromofluorobenzene	90.1	70-130	%REC	1	8/25/2014 6:36:39 PM	R20777
Surr: Dibromofluoromethane	95.8	70-130	%REC	1	8/25/2014 6:36:39 PM	R20777
Surr: Toluene-d8	105	70-130	%REC	1	8/25/2014 6:36:39 PM	R20777

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

Page 7 of 10

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

Analytical Report

Lab Order 1408774

Date Reported: 8/28/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Enterprise Field Services

Project: Cohn #1

Lab ID: 1408774-008

Client Sample ID: TMP-8

Collection Date: 8/14/2014 2:38:00 PM

Matrix: AQUEOUS Received Date: 8/15/2014 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES S	HORT LIST	100			Analyst	cadg
Benzene	ND	1.0	μg/L	1	8/25/2014 7:05:26 PM	R20777
Toluene	ND	1.0	μg/L	1	8/25/2014 7:05:26 PM	R20777
Ethylbenzene	ND	1.0	μg/L	1	8/25/2014 7:05:26 PM	R20777
Xylenes, Total	ND	1.5	μg/L	1	8/25/2014 7:05:26 PM	R20777
Surr: 1,2-Dichloroethane-d4	105	70-130	%REC	1	8/25/2014 7:05:26 PM	R20777
Surr: 4-Bromofiuorobenzene	102	70-130	%REC	1	8/25/2014 7:05:26 PM	R20777
Sur: Dibromofluoromethane	97.8	70-130	%REC	1	8/25/2014 7:05:26 PM	R20777
Surr: Toluene-d8	106	70-130	%REC	10	8/25/2014 7:05:26 PM	R20777

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

Qualifiers:

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

Page 8 of 10

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1408774

28-Aug-14

Client:

Enterprise Field Services

Project: Cohn #1										
Sample ID 5mL rb	SampT	уре: М	BLK	Tes	tCode: E	PA Method	8260: Volatil	es Short I	_lst	
Client ID: PBW	Batch	n ID: R2	20777	F	RunNo: 2	20777				
Prep Date:	Analysis D	Date: 8	/25/2014		SeqNo: (B04723	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0					in-k-d	1-3-1-1-1-1	de Manward Lord	
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr. 1,2-Dichloroethane-d4	10		10.00		99.8		130			
Surr: 4-Bromofiuorobenzene	10		10.00		100		130			
Surr: Dibromofluoromethane	9.2		10.00		92.1	70	130			
Surr: Toluene-d8	10		10.00		102	70	130			
Sample ID 100ng Ics	SampT	ype: LC	s	Tes	tCode: E	PA Method	8260: Volatile	s Short L	.ist	
Client ID: LCSW	Batch	ID: R2	20777	F	RunNo: 3	20777				
Prep Date:	Analysis D	ate: 8/	25/2014	8	SeqNo: 6	504724	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	106	70	130			
Toluene	21	1.0	20.00	0	104	80	120			
Surr: 1,2-Dichloroethane-d4	11		10.00		106	70	130			
Sun: 4-Bromofluorobenzene	9.9		10.00		98.9	70	130			
Sum: Dipromofluoromethane	9.5		10.00		94.7	70	130			
Sun: Toluene-d8	11		10.00		108	70	130			
Sample ID 1408774-003a ms	SampT	уре: М	3	Tes	tCode: E	PA Method	8260: Volatile	s Short L	.lst	
Client ID: TMP-3	Batch	1D: R2	9777	F	RunNo: 2	20777				
Prep Date:	Analysis D	ate: 8/	25/2014	8	SeqNo: 6	504728	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	290	5.0	100.0	200.0	90.7	70	130			
Toluene	100	5.0	100.0	0	103	67.5	123			
Surr: 1,2-Dichloroethane-d4	49		50.00		98.0	70	130			
Sur: 4-Bromofluorobenzene	47		50.00		93.7	70	130			
Sur: Dibromofiuoromethane	43		50.00		86.1	70	130			
Surr. Toluene-d8	51		50.00		102	70	130			
Sample iD 1408774-003a ms	d SampT	ype: MS	BD	Tes	tCode: E	PA Method	8260: Volatile	s Short L	.ist	
Client ID: TMP-3	Batch	ID: R2	0777	F	RunNo: 2	20777				
Prep Date:	Analysis D	ate: 8/	25/2014	S	SeqNo: 6	604729	Units: µg/L.			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	290	5.0	100.0	200.0	90.6	70	130	0.0382	20	
Toluene	96	5.0	100.0	0	96.2	67.5	123	6.47	20	

Qualifiers:

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

Page 9 of 10

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1408774

28-Aug-14

Client:

Enterprise Field Services

Project:

Cohn#1

				-		97		300 300		
Sample ID 1408774-003a msd	I SampTy	/pe: M	BD	Tes	tCode: E	PA Method	8260: Volatil	es Short I	_ist	
Client ID: TMP-3	Batch	ID: R2	20777	F	RunNo: 2	0777				
Prep Date:	Analysis Da	ate: 8/	25/2014	s	SeqNo: 6	04729	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	51		50.00		101	70	130	0	0	
Surr: 4-Bromofluorobenzene	44		50.00		87.9	70	130	0	0	
Surr: Dibromofluoromethane	44		50.00		88.4	70	130	0	0	
Surr: Toluene-d8	51		50.00		101	70	130	0	0	

Qualifiers:

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

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nuu environmeniai anaiysis laooraiory 4901 Hawkins NE

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

Sample Log-In Check List

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

Client Name: En	terprise	Work Order Number:	14087	774			ReptNo:	1
Received by/date:	LM	08 15/14						
Logged By: Co	elina Sessa 8	3/15/2014 8:00:00 AM			Celia	~ S.	2000	
Completed By: Co	elina Sessa 8	3/15/2014 9:35:43 AM			Celin	. 5	7	
Reviewed By:	A	20/15/124					0	
Chain of Custod	W	USIN						
1. Custody seals in	tact on sample bottles?		Yes		No		Not Present	
2. Is Chain of Custo	ody complete?		Yes		No		Not Present	
3. How was the sar	mple delivered?		Cour	ier				
Log In								
4. Was an attempt	made to cool the samples?		Yes	V	No		NA 🗆	
5. Were all sample	s received at a temperature o	of >0° C to 6.0°C	Yes	V	No		NA 🗆	
6. Sample(s) in pro	oper container(s)?		Yes	V	No			
7. Sufficient sample	e volume for indicated test(s)	?	Yes	2	No			
8. Are samples (ex	cept VOA and ONG) properly	preserved?	Yes	V	No			
9. Was preservative	e added to bottles?		Yes		No		NA \square	
10.VOA vials have a	zero headapace?		Yes	✓	No		No VOA Viais	
11. Were any samp	le containers received broken	?	Yes		No		# of preserved	
12			Yes		No	п	bottles checked for pH:	
	match bottle labels? cles on chain of custody)		168	(M)	NO	<u> </u>		>12 unless noted)
13. Are matrices cor	rectly identified on Chain of C	sustody?	Yes	V	No		Adjusted?	
14. Is it clear what a	nalyses were requested?			✓			20 0 00	
F. C. C.	times able to be met? comer for authorization.)		Yes	V	No	пΓ	Checked by:	
5.57	na de manda esta de la manda							
Special Handling	g (if applicable)							
16. Was client notific	ed of all discrepancies with th	is order?	Yes		No		na 🗹	
Person No	tified:	Date:	,					*
By Whom:		Via:] eMa	II Ph	one 🗌	Fax	In Person	
Regarding	Ad 20 to 10 P 1 to 10	and from a feet play to be the about	Easte Secretari	Subsupring a s	بالسلط وجود والخد	*** - #** ***	- * *	
Client Inet	ructions:	er an ise in a men a consequence	-1 -10 -					
17. Additional rema	rks:							
		il intact Seal No S	eal Da	te	Signed B	ly .		

C	hain-	of-Cu	stody Record	Tum-Around	lime:					B_10	i a i			NEA.	T II	10	B.I B.	42	BIT	TAL	
Cilent:	-1-		ield Services LLC	M Standard	□ Rush				_											OR	
	ruer	rise r	TELO SEPOILOS CLE	Project Name												ai.co			110		
Mailing /	Address:			C-1- 11				400	14 LJ									100			
		614 1	Reilly Avenue	Cohn # Project #:	1					awkir				100	15						
_ ravn	<u> </u>	α , $N \sim$	0+401					10	1. 50	5-345	5-39	-	-	-	-	uest	4107				
		7+16-	2467	7030413				0	2				пату	1	160	ues.					-
email or				Project Mana	ger:		21)	E	K.					So ₄	S						
QA/QC P	-		T I avel 4 (Full Velideffen)	K. 1. S.			(8021)	Bas	5			SIMS)		Q.	PCB's						ě
Stand Accredit			☐ Level 4 (Full Validation)	-		(1) 11 10	4	H	DR(ı	20							
□ NELA		□ Othe		On tobally with	OF Vac	H. Woods	100	MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270		Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082		8				S
□ EDD	(Type)			Sample Temp	erature .	A STATE OF THE STA		H	9	4 0	Q 22	6	tals	N.	des	2	0				5
						Made and the second		M	138	otte	;	331	8	O.	stic	8260B (VOA)	(Semi-VOA)				امار
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type		×	*	8	3	3	13	\$	Suc	1 Pe	0B (S) O				4.7
				Typo and n	Туро	-1/2	ВТЕХ	BTEX+	自	自		A	RCRA 8 Metals	Ank	808	826	8270				Air
BIMIN	1110	Water	TMP-1	3-40mLV64	HgClz	-001	×														I
8/14/4	1150	Water	TMP-2	3-40mLV04	Hacl 2	- 002	X														
			TMP-3	3-40mLUd	del.	-003	Х														T
			TMP-4	3-40mLU0/		-004	X														\top
8/14/14	1419	Water	TMP-5	3-40miLVM	Hacle	-005	X														
PINFINE	1425	Water	TMP-4	3-40mLUD		-006	X														
8/14/14	1430	Water	TMP-7	3-40mLVa	Hacle	-007	X														
B/14/14	1438	Water	TMP-8	3-40MLVOR		-008	X														
										- 1											
			NES.																		
			HW																		
																		Г			T
Date:	Time:	Relinquish	ed by:	Received by:		Date Time	Rei	mark	s: D	inec	4 k	117	En	Lawr	m's						
8/14/14	1710	Fleat	hu M. Woods	1 Mest	tre Wal	8/14/N 1710			A	Hn	Te	mc	صا	ng							
Date:	Time:	Relinquish	led by:	Received by:	1	Date Time						9	ay	Key	8 '-	R	.B2	12	00		
14/14	1815	Jun	the Valle	1	X 0	8/15/14000									reed.						
1	f necessary,	samples sub	emitted to Hall Environmental may be sub	contracted to other	ccredited taborator	tes. This serves as notice of th	is poss	iblity.	Any s	ub-con	tracte	d date	will b	e clea	rty not	tated o	n the a	analyti	cal rep	ort.	



CORRECTIVE ACTION REPORT

Property:

Cohn #1 Pipeline Release (11/08/2014)
NE 1/4, S25 T29N R10W
San Juan County, New Mexico

June 27, 2014 Apex Project No. 7030413G018

Prepared for:

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

Prepared by:

Kyle Summers, C.P.G.

Branch Manager / Senior Geologist

Elizabeth Scaggs, P.G. Senior Program Manager

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5.0	FINDIN	IGS AND RECOMMENDATIONS
6.0	STAN	DARD OF CARE, LIMITATIONS, AND RELIANCE6
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CORRECTIVE ACTION REPORT

Cohn #1 Pipeline Release (11/08/2014)
NE 1/4, S25 T29N R10W
San Juan County, New Mexico

Apex Project No. 7030413G018

1.0 INTRODUCTION

1.1 Site Description & Background

The Cohn #1 pipeline release site is located within the Enterprise Field Services LLC (Enterprise) pipeline right-of-way (ROW) in the northeast (NE) ½ of Section 25 in Township 29 North and Range 10 West in San Juan County, New Mexico, referred to hereinafter as the "Site" or "subject Site". The Site is located on private property owned by Mack S. Cohn and is surrounded by river terrace vegetation periodically interrupted with oil and gas gathering facilities, including one (1) Enterprise natural gas gathering pipeline which traverses the area from southeast to northwest.

During December, 2013, Enterprise shut in the Cohn #1 pipeline and on December 18th, 2013, initiated excavation activities at the Site in an attempt to locate and repair a subsurface leak. The leak was subsequently identified and repaired. An unknown quantity of natural gas was released from the pipeline as a result of internal and external corrosion. The leak was identified by vapor monitoring at the ground surface. No surface expression of the release was evident.

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

1.2 Project Objective

The primary objective of the corrective actions was to reduce the concentration of chemicals of concern (COCs) in the on-Site soils to below the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), Oil Conservation Division (OCD) Remediation Action Levels using the New Mexico EMNRD OCD's Guidelines for Remediation of Leaks, Spills and Releases as guidance.

2.0 SITE RANKING

In accordance with the New Mexico ENMRD OCD's *Guidelines for Remediation of Leaks, Spills and Releases*, Apex TITAN, Inc. (Apex), formerly Southwest Geoscience, utilized the general site characteristics obtained during the completion of corrective action activities to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the following table:



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

^{*}Groundwater was encountered during excavation activities.

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

- The Site is 520 feet from an unnamed wash, resulting in a ranking of "10" for distance to surface water.
- No water wells were identified on the Office of the State Engineer website database within the search radius. However, groundwater was encountered during excavation activities at approximately 9.5 feet below grade surface (bgs), resulting in a ranking of "20" for depth to groundwater.
- No water sources were identified within the search radius.

3.0 RESPONSE ACTIONS

3.1 Soil Excavation Activities

During December, 2013, Enterprise shut in the Cohn #1 pipeline and on December 18th, 2013, initiated excavation activities at the Site in an attempt to locate and repair a subsurface leak. The leak was subsequently identified and repaired. An unknown quantity of natural gas was released from the pipeline as a result of internal and external corrosion. The leak was identified by vapor monitoring at the ground surface. No surface expression of the release was evident. During the corrective action activities, West States Energy Contractors provided heavy equipment and labor support, and Kyle Summers, an Apex environmental professional, provided environmental support.

Excavation activities associated with the pipeline repair were completed on December 18th, 2013. Soil samples (S-1 to S-8) were collected subsequent to the pipeline repair activities on December 18th, 2013. The analyses of these initial soil samples demonstrated that hydrocarbon affected soils remained in place at the Site.

Corrective action excavation proceeded at the Site on April 23rd, 2014. The excavation was extended in all four (4) cardinal directions from the initial release point, and groundwater was encountered during the excavation activities. Subsequent to encountering groundwater in the excavation, Enterprise elected to remove and properly dispose of an estimated 300 bbls of the potentially affected groundwater to help facilitate remediation efforts and maintain a safer and more stable working environment in, and around, the excavation.

The overall surface expression of the final excavation measured approximately 65 feet long by 25 feet wide, with a total depth of approximately 12 feet bgs.



The lithology encountered during the completion of corrective action activities consisted primarily of unconsolidated sands, silty sands, and silty clays.

During excavation activities, air in the breathing zone was monitored to ensure that the Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (PEL) of 200 parts per million (ppm) Time Weighted Average (TWA) for an 8-hour work day was not exceeded. Additionally, Enterprise monitored the excavation for explosive atmosphere conditions and oxygen deficiency prior to any entries into the excavation.

Approximately 720 cubic yards of hydrocarbon affected soils were transported to the Envirotech, Inc. landfarm near Hilltop, NM for disposal/remediation. The executed C-138 forms are provided in Appendix B. The excavation was ultimately backfilled with clean imported fill and contoured to surrounding grade.

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

3.2 Soll and Water Sampling Program

Apex screened head-space samples of Site soils with a photoionziation detector (PID) fitted with a 10.6 eV lamp to estimate excavation limits.

Apex's soil sampling program included the collection of eighteen (18) final confirmation samples (S-9 through S-26) from the resulting excavation for laboratory analysis. Figure 3 depicts the approximate location of the excavated areas and shows the final confirmation sample locations in relation to the final excavation dimensions (Appendix A).

A water sample was collected from the open excavation and submitted for laboratory analysis, to evaluate the potential for groundwater impact at the Site. The water sample was collected utilizing a disposable bailer.

The samples were collected and placed in laboratory prepared glassware, labeled/sealed using the laboratory supplied labels, and placed on ice in a cooler, which was secured with a custody seal. The sample cooler and completed chain-of-custody forms were relinquished to Envirotech, Inc. Analytical Laboratory in Bloomfield, New Mexico, and/or Hall Environmental Analysis Laboratory in Albuquerque, New Mexico for analysis.

3.3 Laboratory Analytical Methods

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

Laboratory results are summarized in Table 1 and Table 2, 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, the New Mexico EMNRD OCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the OCD rules, specifically NMAC 19.15.30 *Remediation*. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

4.1 Confirmation Soil Samples

Apex compared the BTEX and TPH concentrations or reporting limits (RLs) associated with the final confirmation samples collected from the excavated area to the OCD Remediation Action Levels (RALs) for sites having a total ranking score of "30".

- The laboratory analyses of confirmation samples collected from soils remaining in place do not indicate benzene concentrations above laboratory RLs, which are below the OCD RAL.
- The laboratory analyses of the confirmation samples collected from soils remaining in place do not indicate total BTEX concentrations above the laboratory RLs, which are below the OCD RAL.
- The laboratory analyses of the confirmation sample collected from soils remaining in place indicate combined TPH GRO/DRO concentrations ranging from below the laboratory detection limits to 30.5 milligrams per Kilogram (mg/Kg) which are below the OCD RAL..

Confirmation sample results are provided in Table 1 in Appendix D.

4.2 Water Sample

Apex compared the BTEX concentrations associated with the water sample collected from the open excavation area to the New Mexico Water Quality Control Commission (WQCC) Groundwater Quality Standards (GQSs).

- The laboratory analysis of the water sample (WS-1) indicates a benzene concentration of 780 micrograms/Liter (µg/L), which exceeds the WQCC GQS if 10 µg/L.
- The laboratory analysis of WS-1 indicates a toluene concentration of 750 μg/L, which is equal to the WQCC GQS of 750 μg/L.
- The laboratory analysis of WS-1 indicates an ethylbenzene concentration of 60 μg/L, which is below the WQCC GQS of 750 μg/L.
- The laboratory analysis of WS-1 indicates a total xylenes concentration of 730 µg/L, which exceeds the WQCC GQS of 620 µg/L.

The laboratory analysis of water sample WS-1 identified a TPH GRO concentration of 5.2 milligrams per Liter (mg/L) and a TPH DRO concentration of 5.2 mg/L. TPH GRO/DRO do not have established WQCC GQSs.

It should be noted that due to the "mixing/blending" nature of excavation activities, as well as the characteristics of the native media comprising the local aquifer and vadose zone, open



excavation water sample analyses are sometimes not indicative of actual groundwater concentrations in the area.

5.0 FINDINGS AND RECOMMENDATIONS

The Cohn #1 pipeline release site is located within the Enterprise pipeline ROW in the NE ¼ of Section 25 in Township 29 North and Range 10 West in San Juan County, New Mexico. The Site is located on private property owned by Mack S. Cohn and is surrounded by river terrace vegetation periodically interrupted with oil and gas gathering facilities, including one (1) Enterprise natural gas gathering pipeline which traverses the area from southeast to northwest.

During December, 2013, Enterprise shut in the Cohn #1 pipeline and on December 18th, 2013, initiated excavation activities at the Site in an attempt to locate and repair a subsurface leak. The leak was subsequently identified and repaired. An unknown quantity of natural gas was released from the pipeline as a result of internal and external corrosion. No surface expression of the release was evident. Soil impact at the Site was remediated by physical removal (excavation).

- The primary objective of the corrective actions was to reduce the concentration of COCs in the on-Site soils to below the New Mexico EMNRD OCD RALs using the New Mexico EMNRD OCD's Guidelines for Remediation of Leaks, Spills and Releases as guidance.
- The lithology encountered during the completion of corrective action activities consisted primarily of unconsolidated silty-sands.
- The overall surface expression of the final excavation measured approximately 65 feet long by 25 feet wide, with a total depth of approximately 12 feet bgs.
- Groundwater was encountered during the corrective action excavation activities. A water sample was collected from the open excavation and submitted for laboratory analysis.
- The laboratory analysis of the water sample indicates a benzene concentration of 780 micrograms/Liter (μg/L), which exceeds the WQCC GQS if 10 μg/L.
- The laboratory analysis of WS-1 indicates a toluene concentration of 750 μg/L, which is equal to the WQCC GQS of 750 μg/L.
- The laboratory analysis of WS-1 indicates a total xylenes concentration of 730 μg/L, which exceeds the WQCC GQS of 620 μg/L.
- Prior to backfilling, eighteen (18) final confirmation samples were collected from the
 resulting excavation for laboratory analyses. Based on analytical results, soils remaining
 in place do not exhibit COC concentrations above the OCD RALs for a Site ranking of
 "30".
- A total of approximately 720 cubic yards of hydrocarbon affected soils were transported to the Envirotech, Inc. landfarm near Hilltop, NM for disposal/remediation. The excavation was ultimately backfilled with clean imported fill and contoured to surrounding grade.

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



6.0 STANDARD OF CARE, LIMITATIONS, AND RELIANCE

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

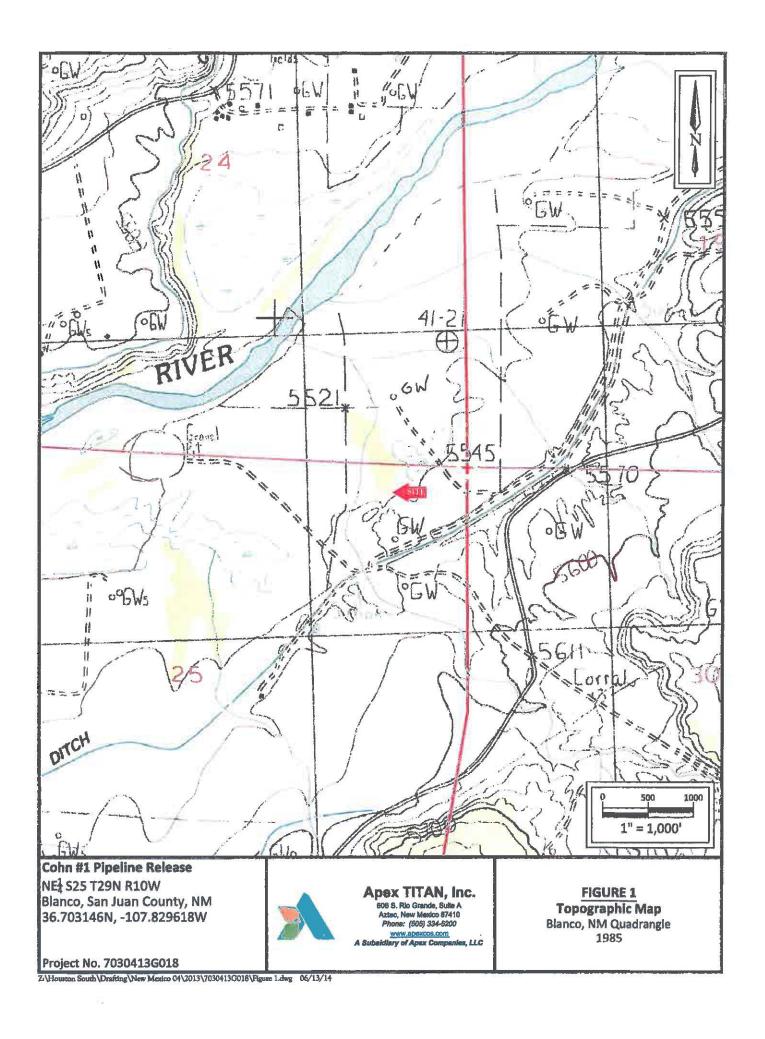
Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence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

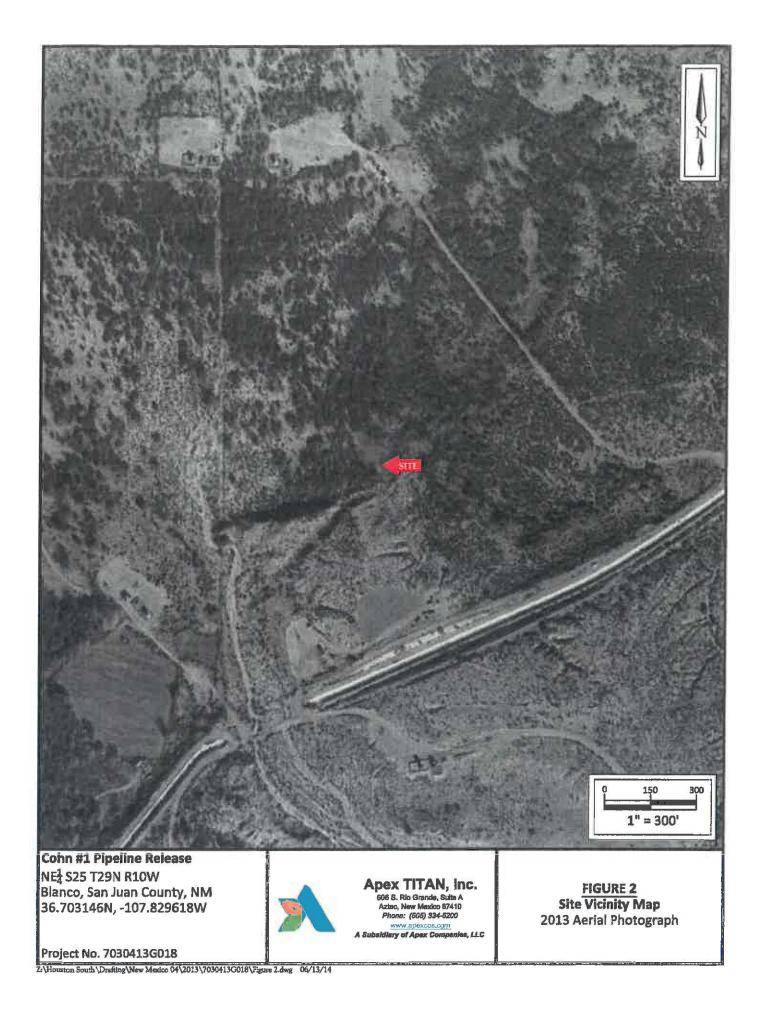
This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the expressed written authorization of Enterprise and Apex. Any unauthorized distribution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

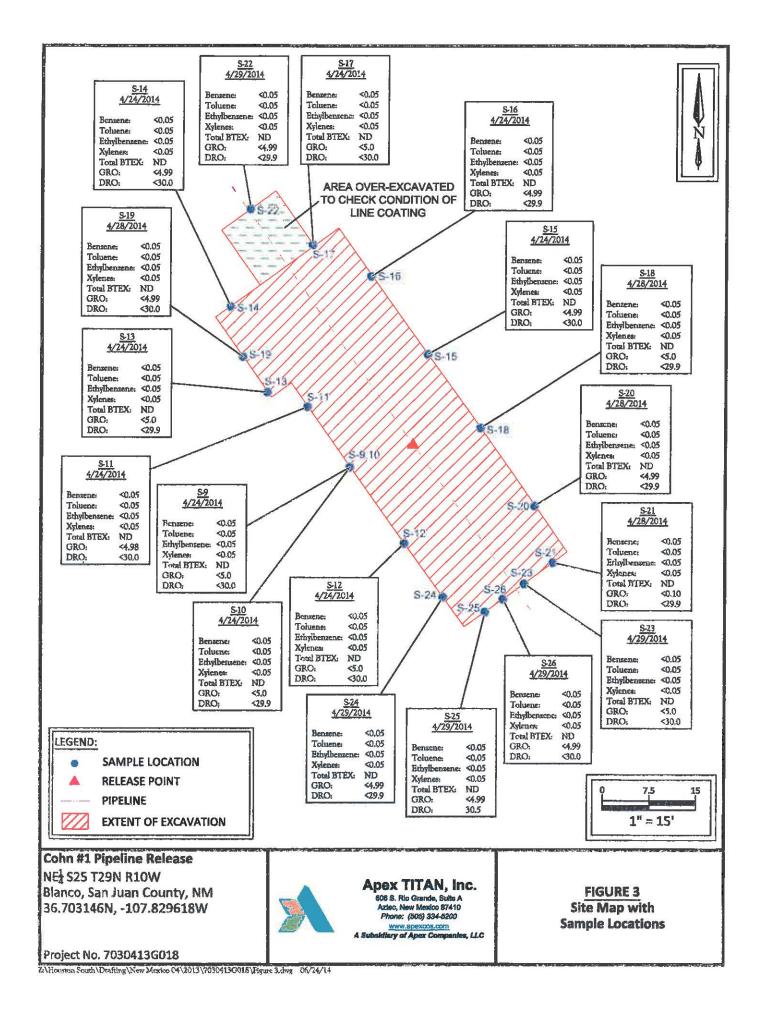


APPENDIX A

Figures









APPENDIX B

Executed C-138 Solid Waste Acceptance Forms

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

State of New Mexico Energy Minerals and Natural Resources 9 7857-0633 Revised August 1, 2011

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

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

Form C-138

	REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE
1.	Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Avenue, Farmington, NM 87401 April 14
2.	Originating Site: Cohn 29-10-25 #1 Pipeline Release
3.	Location of Material (Street Address, City, State or ULSTR): Unit A Sec 25 T 29N R 10W;36.70314, -107.829618, San Juan County, NM
4. 5.	Source and Description of Waste: Hydrocarbon impacted soil from a pipeline excavation. Estimated Volume 200 vd bbls Known Volume (to be entered by the operator at the end of the haul) vd bbls
5.	GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS
cei	Thomas Long representative or authorized agent for Enterprise Field Services, LLC do hereby PRINT & SIGN NAME COMPANY NAME tify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 gulatory 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 Month! 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
	4-23-14 , representative for Enterprise Field Services, LLC authorize Envirotech, Inc. to merater Signature mplete the required testing/sign the Generator Waste Testing Certification.
col	do hereby certify that representative samples of coil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to inform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative imples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.
6.	Transporter: West States Energy Contractors - M 05.5
N	D Permitted Surface Waste Management Facility ame and Facility Permit #: Envirotech Inc. Soil Remediation Facility Permit # NM-01-0011 ddress of Facility: #43 Road 7175, South of Bloomfield NM tethod of Treatment and/or Disposal:
	☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other
Wa	ste Acceptance Status: APPROVED DENIED (Must Be Maintained As Permanent Record)
	NATURE: Kendra Runaung TITLE: Waste Condinator DATE: 4/23/14 NATURE: Surface Waste Management Facility Authorized Agent TELEPHONE NO. (505) 632-0615



MANIFEST # 46557

DATE 4/23/14 JOB # 97657 - 0633

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

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COMPANY CONTACT Lee MOSS	PHONE 801-1803	DATE 4-23-14
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Signatures required prior to distribution of the legal document.



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PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

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COMPANY CONTACT Lee MOSS	PHONE_	801-1803	DATE 4-24-14
Signatures required prior to distribution of the legal document.			



MANIFEST # 46574

DATE 4/25/14 JOB # 97057-0633

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

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Signatures required prior to distribution of the legal document.



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By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

TRANSPORTER CO. WOES EX	NAME	OIKODZa	SIGNATURE	rockdza
COMPANY CONTACT OS 60020	_ PHONE _	9705530393	_ DATE	4128794



MANIFEST # 46592

DATE 4/29/14 JOB # 97057-0633

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON NEW MEXICO 87401

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MANIFEST# 46593

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

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MANIFEST # 46605

DATE 4.30-14 JOB# 97057-0633

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By signing as the driver/transporter, I certify the material hauled	from the above location has not been added to	or tampered with. I certify the material is from the above
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Signatures required prior to distribution of the legal document		



MANIFEST # 46606

DATE 4.30-14 JOB# 97057-0633

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MANIFEST # 46619

DATE 5-1-14 JOB # 97057-0633

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COMPANY CONTACT ASE MOSS PHONE 801-1803 DATE 5-1-14	
Signatures required prior to distribution of the legal document	



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JOB # 97057-0633

PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401 COMPLETE DESCRIPTION OF SHIPMENT TRANSPORTING COMPANY LOAD NO. POINT OF ORIGIN DESTINATION GRID COMPANY **DRIVER SIGNATURE** MATERIAL **YDS** BBLS TRK# TIME Colon Enterprise Clean Enurateur 10-dfa-n 10 MOSS PK 29-10-25 红度 2 MOSC 10 11 3 3 10 Moss 30 RESULTS: Bow NOTES: LANDFARM **CHLORIDE TEST** EMPLOYEE: PAINT FILTER TEST Certification of above receival & placement By signing as the driver/transporter. I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above

mentioned Generator/Point of Origin and that no additional material has	beep added or mixed into the load.
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COMPANY CONTACT LEE MOSS PHONE	801-1803 DATE 5-1-14
Signatures required prior to distribution of the legal document.	



APPENDIX C

Photographic Documentation



SITE PHOTOGRAPHS

Photograph 1

Release area prior to excavation activities.



Photograph 2

Initial excavation after line repairs completed.



Photograph 3

Removing impact on west side of excavation. Note dark anaerobic material from natural decay processes.





SITE PHOTOGRAPHS

Photograph 4

Removing impacted material from northwest portion of excavation.



Photograph 5

Excavation prior to stripping back soil along pipeline.



Photograph 6

General view of reclaimed area after excavation backfill.





APPENDIX D

Tables



TABLE 1 Cohn #1 Pipeline Release SOIL ANALYTICAL SUMMARY

Sample I.D.	Date	Sample Depth (feet)	Senzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)
		Natural Resources vision, Remediation	10	10 NE NE NE 50			00		
			S	umples for Soils R	emoved by Excavatio	0	*/		
S-1	12/18/2013		2.73	31.3	6.33	73.6	114	397	690
S-2	12/18/2013		8.11	78.7	15.4	165	267	806	3,850
S-3	12/18/2013		<0.50	24.1	1.69	60.1	85.9	489	4,190
S-4	12/18/2013		< 0.05	< 0.05	<0.05	<0.05	ND	6,23	285
S-5	12/18/2013		<0.50	5.93	<0.50	18.7	24.6	207	1,550
S-6	12/18/2013		<0.05	3.18	0.60	10.4	14.2	75.6	696
S-7	12/18/2013		<0.05	< 0.05	<0.05	< 0.05	ND	7.19	103
S-8	12/18/2013		<0.50	23.6	2.22	66.6	92,4	548	2,270
			· · · · · · · · · · · · · · · · · · ·	Shockel	e Samples			******	
SP-1	4/7/2014		<0.12	< 0.25	<0.25	3.2	3.2	120	1,900
SP-2	4/7/2014		<0.12	1.5	0.38	7.2	9.08	110	1,200
art is to be the best of the contract of the same of			Confin	manion estimates de	Solis Remaining in				
S-9	4/24/2014		<0.05	<0.05	<0.05	<0.05	ND I	<5.00	<30.0
S-10	4/24/2014		<0.05	< 0.05	< 0.05	< 0.05	ND I	<5.00	<29.9
S-11	4/24/2014	i i	<0.05	< 0.05	<0.05	<0.05	ND I	<4.98	<30.0
S-12	4/24/2014		< 0.05	< 0.05	<0.05	< 0.05	ND I	<5.00	<30.0
S-13	4/24/2014		<0.05	<0.05	<0.05	<0.05	ND	<5.00	<29.9
S-14	4/24/2014		<0.05	< 0.05	<0.05	<0.05	ND	<4.99	<30.0
S-15	4/24/2014		<0.05	<0.05	<0.05	< 0.05	ND	<4.99	<30.0
S-16	4/24/2014		< 0.05	<0.05	<0.05	< 0.05	ND	<4.99	<29.9
S-17	4/24/2014		< 0.05	<0.05	<0.05	< 0.05	ND I	<5.00	<30.0
S-18	1 4/28/2014		<0.05	<0.05	<0.05	< 0.05	ND	<5.00	<29.9
S-19	4/28/2014		< 0.05	<0.05	<0.05	<0.05	ND	<4.99	<30.0
S-20	4/28/2014		<0.05	<0.05	<0.05	<0.05	ND	<4.99	<29.9
S-21	4/28/2014		<0.05	<0.05	<0.05	<0.05	ND	<0.10	<29.9
S-22	4/29/2014		<0.05	<0.05	<0.05	<0.05	ND	<4.99	<29.9
S-23	4/29/2014		<0.05	<0.05	<0.05	<0.05	ND	<5.00	<30.0



TABLE 1 Cohn #1 Pipeline Release SOIL ANALYTICAL SUMMARY

Sample 1.0.	Date	Sample Depth (feet)	Benzene (mg/kg)	foruerie (mg/kg)	Ethiyibenzene (mg/kg)	Xyleries Total BTEX TPH (mg/kg) GRO (mg/kg)			TPH DRO
								(mg/kg)	(mg/kg)
		Natural Resources Ivision, Remediation	10	NE	NE	NE	50	1	00
S-24	4/29/2014		<0.05	<0.05	< 0.05	<0.05	ND I	<4.99	<29.9
S-25	4/29/2014		<0.05	< 0.05	<0.05	<0.05	ND	<4.99	30.5
S-26	4/29/2014		<0.05	< 0.05	<0.05	<0.05	ND	<4.99	<30.0

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

NA = Not Analyzed

NE = Not Established

ND = Not Detected



TABLE 2 Cohn #1 Pipeline Release WATER ANALYTICAL SUMMARY

Sample I.D.	Date	Benzene (μg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)			TPH DRO (mg/L)
	r Quality Control undwater Quality lards	10	750	750	620	NE	NE
WS-1	4/29/2014	780	750	60	730	5.2	5.2

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

NA = Not Analyzed
NE = Not Established



APPENDIX E

Laboratory Data Reports & Chain-of-Custody Documentation



Analytical Report

Report Summary

Client: Enterprise Products

Chain Of Custody Number: 16451

Samples Received: 12/18/2013 3:36:00PM

Job Number: 03022-0001 Work Order: P312087

Project Name/Location: Cohn #1

Entire Report Reviewed By:

Date:

12/20/13

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



Project Name:

Cohn#1

614 Reilly Ave Farmington NM, 87401 Project Number: Project Manager: 03022-0001 Kyle Summers-SW Geoscience Reported: 20-Dec-13 10:55

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S-1	P312087-01A	Soil	12/18/13	12/18/13	Glass Jar, 4 oz.
S-2	P312087-02A	Soil	12/18/13	12/18/13	Glass Jar, 4 oz.
S-3	P312087-03A	Soil	12/18/13	12/18/13	Glass Jar, 4 oz.
S-4	P312087-04A	Soil	12/18/13	12/18/13	Glass Jar, 4 oz.
S-5	P312087-05A	Soil	12/18/13	12/18/13	Glass Jar, 4 oz.
S-6	P312087-06A	Soil	12/18/13	12/18/13	Glass Jar, 4 oz.
S-7	P312087-07A	Soil	12/18/13	12/18/13	Glass Jar, 4 oz.
S-8	P312087-08A	Soil	12/18/13	12/18/13	Glass Jar, 4 oz.



Farmington NM, 87401

Project Name:

Cohn#1

614 Reilly Ave

Project Number:

03022-0001

Project Manager:

Kyle Summers-SW Geoscience

Reported: 20-Dec-13 10:55

S-1 P312087-01 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Volatile Organics by EPA 8021									
Benzene	2.73	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
Γoluene	31.3	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
Ethylbenzene	6.33	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
p,m-Xylenc	59.6	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
o-Xylene	14.0	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
Total Xylenes	73.6	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
Total BTEX	114	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
Surrogate: Bromochlorobensene		182 %	80	-120	1351031	12/18/13	12 19 13	EPA 8021B	S-02
Surrogate: 1,3-Dichlorobenzene		316 %	80	-120	1351031	12 18 13	12:19 13	EPA 8021B	S-02
Nonhalogenated Organics by 8015						4			
Gasoline Range Organics (C6-C10)	397	5.00	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8015D	
Diesel Range Organics (C10-C28)	690	30.0	mg/kg	.1	1351030	12/18/13	12/19/13	EPA 8015D	
GRO and DRO Combined Fractions	1090	5.00	mg/kg		[CALC]	12/18/13	12/19/13	EPA 8015D	



Farmington NM, 87401

Project Name:

Cohn #1

614 Reilly Ave

Project Number:

03022-0001

Project Manager:

Kyle Summers-SW Geoscience

Reported: 20-Dec-13 10:55

S-2 P312087-02 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	8.11	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
Toluene	78.7	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
Ethylbenzene	15.4	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
p,m-Xylene	132	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
o-Xylene	32.3	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
Total Xylenes	165	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
Tota! BTEX	267	0.05	mg/kg	1	1351031	12/18/13	12/19/13	EPA 8021B	
Surrogate: Bromochlorobenzene		267 %	80	-120	1351031	12/18/13	12/19/13	EPA 8021B	S-02
Surrogate: 1,3-Dichlorobenzene		600 %	80	-120	1351031	12:18:13	12-19-13	EPA 8021B	S-02
Nonhalogenated Organics by 8015		all distributions in the second							
Gasoline Range Organics (C6-C10)	806	4.99	mg/kg	1	1351931	12/18/13	12/19/13	EPA 8015D	
Diesel Range Organics (C19-C28)	3850	29.9	mg/kg	1	3351030	12/18/13	12/19/13	EPA 8015D	
GRO and DRO Combined Fractions	4660	4.99	mg/kg		[CALC]	12/18/13	12/19/13	EPA 8015D	



Enterprise Products 614 Reilly Ave Farmington NM, 87401 Project Name:

Colm#1

Project Number:

03022-0001

Project Manager:

Kyle Summers-SW Geoscience

Reported: 20-Dec-13 10:55

S-3 P312087-03 (Solid)

Prepared	Analyzed	Method N
Prepared	Analyzed	Method N
		7777711VM 1
12/19/13	12/19/13	EPA 8021B
12:19:13	12-19 13	EPA 8021B
12 19 13	12 19 13	EPA 8021B
12/19/13	12/19/13	EPA 8015D
12/19/13	12/19/13	EPA 8015D
12/19/13	12/19/13	EPA 8015D
	12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13	12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13 12/19/13



Farmington NM, 87401

Project Name:

Cohn #1

614 Reilly Ave

Project Number: Project Manager: 03022-0001 Kyle Summers-SW Geoscience Reported:

20-Dec-13 10:55

S-4 P312087-04 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Total BTEX	MD	9.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Surrogate: Bromochlorobenzene		110 %	80-	-120	1351031	12/19/13	12/19/13	EPA 8921B	
Surrogate: 1,3-Dichlorobenzene		108 %	80-	-120	1351031	12 19,13	12 19-13	EPA 8921B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	6.23	4.98	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8015D	
Diesel Range Organics (C10-C28)	285	30.0	mg/kg	1	1351030	12/19/13	12/19/13	EPA 8015D	
GRO and DRO Combined Fractions	291	4.98	mg/kg		[CALC]	12/19/13	12/19/13	EPA 8015D	



Project Name:

Cohn#1

614 Reilly Ave

Project Number:

03022-0001

Farmington NM, 87401 Project Manager:

Kyle Summers-SW Geoscience

Reported: 20-Dec-13 10:55

S-5 P312087-05 (Solid)

		Reporting							
Analyte	Resuit	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									1023
Benzene	ND	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
Toluene	5.93	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
Ethylbenzene	ND	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
p,m-Xylene	17.7	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
p-Xylene	1.01	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
Total Xylenes	18.7	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
Lotal R.CEX	24.6	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
Surrogate: Bromochlorobenzene		103 %	80	-120	1351031	12:19:13	12:19 13	EPA 8021B	
Surrogide: 1,3-Dichlorobenzene		103 %	80	-120	1351031	12-19.13	12:19:13	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	207	49.9	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8015D	
Diesel Range Organics (C10-C28)	1550	29.9	mg/kg	t	1351030	12/19/13	12/19/13	EFA 8015D	
GRO and DRO Combined Fractions	1760	29.9	mg/kg		[CALC]	12/19/13	12/19/13	EPA 8015D	



Project Name:

Cohn #1

614 Reilly Ave Farmington NM, 87401 Project Number: Project Manager: 03022-0001 Kyle Summers-SW Geoscience Reported: 20-Dec-13 10:55

S-6 P312087-06 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Toluene	3.18	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Ethylbenzene	0.60	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
p,m-Xylene	8.80	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
o-Xylene	1.57	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Total Xylenes	10.4	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Total BTEX	14.2	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		116%	80	-120	1351031	12/19/13	12/19/13	EPA 8021B	
Surrogate: Bromochlorobenzene		128 %	80	-120	1351031	12:19:13	12:19 13	EPA 8021B	S-02
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	75.6	4.99	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8015D	
Diesel Range Organics (C10-C28)	696	30.0	mg/kg	1	1351030	12/19/13	12/19/13	EPA 8015D	
GRO and DRO Combined Fractions	771	4.99	mg/kg		[CALC]	12/19/13	12/19/13	EPA 8015D	



Project Name:

Cohn#1

614 Reilly Ave

Project Number. Project Manager: 03022-0001

Farmington NM, 87401

Kylc Summers-SW Geoscience

Reported: 20-Dec-13 10:55

S-7 P312087-07 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	I	1351031	12/19/13	12/19/13	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8021B	
Surrogate: Bromochlorobenzene		105 %	80	-120	1351031	12 19/13	12:19 13	KP.4 8021B	
Surrogate: 1,3-Dichlorobenzene		106 %	80	-120	1351031	12:19:13	12:19:13	ISPA 8021H	
Nonhalogenated Organics by 8015				4.0					
Gasoline Range Organics (C6-C10)	7.19	5,00	mg/kg	1	1351031	12/19/13	12/19/13	EPA 8015D	
Diesel Range Organies (C10-C28)	103	29.9	mg/kg	1	1351030	12/19/33	12/19/13	EPA 8015D	
GRO and DRO Combined Fractions	110	5.00	mg/kg		[CALC]	12/19/13	12/19/13	EPA 8015D	

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laboratory sensing ethoric tom



Farmington NM, 87401

Project Name:

Cohn #1

614 Reilly Ave

Project Number: Project Manager: 03022-0001 Kyle Summers-SW Geoscience Reported:

20-Dec-13 10:55

S-8 P312087-08 (Solid)

	Reporting							
Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
ND	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
23.6	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
2,22	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
55.9	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
10.8	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
66.6	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
92.5	0.50	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8021B	
	112%	80	-120	1351031	12/19/13	12-19/13	EPA 8021B	
	113 %	80	-120	1351031	12/19/13	12 19 13	EPA 8021B	
548	49.8	mg/kg	10	1351031	12/19/13	12/19/13	EPA 8015D	
2720	29.9	mg/kg	1	1351030	12/19/13	12/19/13	EPA 8015D	
3270	29.9	mg/kg		[CALC]	12/19/13	12/19/13	EPA 8015D	
	ND 23.6 2.22 55.9 10.8 66.6 92.5	ND 0.50 23.6 0.50 2,22 0.50 55.9 0.50 10.8 0.50 66.6 0.50 92.5 0.50 112 % 113 % 548 49.8 2720 29.9	ND	ND	ND	ND	ND	ND



Farmington NM, 87401

Project Name:

Cohn #1

614 Reilly Ave

Project Number:

03022-0001

Project Manager:

Kyle Summers-SW Geoscience

Reported: 20-Dec-13 10:55

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

ts		Spike	Source		%REC		RPD			
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1351031 - Purge and Trap EPA	5030A	son-i								
Blank (1351031-BLK1)				Prepared:	18-Dec-13	Analyzed:	19-Dec-13			
Benzenc	ND	0.05	mg/kg	2.12 444 11.14						
Toluene	ND	0.05								
Ethylbenzene	ND	0.05	*							
p,m-Xylene	ND	0.05	ır							
o-Xylene	ND	0.05	+							
Total Xylenes	ND	0.05	*							
Cotal BTEX	ND	0.05	70							
Surrogate: 1,3-Dichlarobunzene	52.6		ug'L	50.0		105	80-120			
Surrogate: Bromochlorobenzene	53.5		"	50.0		107	80-120			
Duplicate (135103)-DUP1)	Source	e: P312087-	01	Prepared: 1	8-D€¢-13	19-Dec-13				
Besizone	ND	0.50	mg/kg		2.73				30	Di
Cohene	17.4	0.50	10		31,3			57.0	30	DI
Ethylbenzene	0.67	0.50	411		6,33			162	30	DI
p,m-Xylene	40,6	0.50	391.3		59.6			38.0	30	D1
-Xylene	6.19	0.50			14.0			77.2	30	D 1
Surregate: 1.3-Dichlorobenzene	58.2		ugL	50.0		116	80-120			
Surrogate: Bromoeldorobenzene	58.3		P	50.0		117	80-120			
Matrix Spike (1351031-MS1)	Source	e; P312087-	01	Prepared: 1	8-Dec-13	19-Dec-13				
Senzene	56.9		ug/L	50.0	5.48	103	39-150			
Toluene	110		9	50.0	62.7	93.6	46-148			
Ethylbenzene	63.8		41	50.0	12.7	102	32-160			
nn-Xylone	230		74	100	119	111	46-148			
-Xylese	76.7		P	50.0	28.0	97.4	46-148			
Surrogate: 1,3-Dichlorobenzene	57.2		in 1	50.0		114	89-120			
Surrogate: Bromochlorohenzene	58.9		#	50.0		118	80-120			

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Farmington NM, 87401

Project Name:

Cohn#1

614 Reilly Ave

Project Number:

03022-0001

Project Manager:

Kyle Summers-SW Geoscience

Reported: 20-Dec-13 10:55

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

	50.	Reporting		Spike	Source	V 2012/2012/00/2017	%REC	100 00360	RPD			
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes		
Batch 1351030 - DRO Extraction EPA 3550C												
Blank (1351030-BLK1)				Prepared:	18-Dec-13	Analyzed:	19-Dec-13		-33-2			
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg									
Duplicate (1351030-DUP1)	Source: P312087-01			Prepared: 1	18-Dec-13			ggs —sexonat				
Diesel Range Organics (C10-C28)	671	30,0	mg/kg		690			2.78	30			
Matrix Spike (1351030-MS1)	Source: P312087-01			Prepared: 1	8-Dec-13							
Diesel Range Organics (C10-C28)	940	31.6	mg/kg	263	690	95.1	75-125					



Enterprise Products 614 Reilly Ave

Farmington NM, 87401

Project Name:

Project Manager:

Cohn #1

Project Number:

03022-0001 Kyle Summers-SW Geoscience

Reported: 20-Dec-13 10:55

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
D. 4.1. 125(025 D				11						
Batch 1351031 - Purge and Trap EPA 5030A										
Blank (1351031-BLK1)				Prepared:	18-Dec-13	Analyzed:	19-Dec-13			
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg				1100000			
Duplicate (1351031-DUP1)	Sour	Source: P312087-01			18-Dec-13	Analyzed:	19-Dec-13			
Gasoline Range Organics (C6-C10)	0.84	0.10	mg/kg		397	-1		199	30	DI
Matrix Spike (1351031-MS1)	Source: P312087-01			Prepared:	18-Dec-13	Analyzed:	19-Dec-13			
Gasoline Range Organics (C6-C10)	1.36	3773	mg/L	0.450	0.80	126	75-125			SPK1, Surt2

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Farmington NM, 87401

Project Name:

Cohn #1

614 Reilly Ave

Project Number:

03022-0001

Reported:

Project Manager:

Kyle Summers-SW Geoscience

20-Dec-13 10:55

Notes and Definitions

Surr2 Surrogate recovery was below acceptable limits.

SPK1 The spike recovery for this QC sample is outside of control limits.

S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present

in the sample extract.

D1 Duplicates or Matrix Spike Duplicates Relative Percent Difference exceeds 30%.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

cry Sample results reported on a dry weight basis

RPD Relative Percent Difference

			C	H	AIN O	E C	US'	TO	D	Y	R	E	C	OF	RE)			1	64	51			of 15	
Client: Enterprise / SWG Project Name / Location Conn #						nn:					ANALYSIS / PARAMETERS													1 and	
Email results to: Kyle, Summerse Sampler Name: Southwest geoscience, com Kyle Ju					ngler Name: Sum	Name: Summers							3260)					_						1	
Client Phone No.: 903 921 5603				Clie	ont No.: 03027	2_000					TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion		TCLP with H/P	CO Table 910-1	(118.1)	RIDE		į	Sample Cool	Sample Intact	
Sample No./ Identification	Sam	te ,	Samp Tim		Lab No.	No./\	No./Volume of Containers		Preservative '		TPH (BTEX	Voc (RCRA	Cation	Cation	TOLP TOLP	CO Ta	TPH (418.1)	TPH (CHLORIDE			Sampl	Sampl
5-1	12/1	8/13	103	0	P312087-01	1 × 40×					X	X											Y	Y	
5-2			103.	5	P312687-02	1																	1		
.5-3			104		P312087-03						Ц	Ц											\parallel	Ш	
5-4			104		P312087-04						Ш												\coprod	Ш	
5-5			105		P317087-05																				
5-6			105.	5	P312087-06																		\parallel	Ш	
5-7			110		P3130817-07						Ц	\perp									\Box		\parallel		
5-8	V	,	110	3	P3120871-08	4					V	1										_	1	4	
	IN	NE	2																				<u> </u>		
Relinquished by: (Signature)				Date / 2/19/	Time 15.36	Recei	ved t	y: (S	ignat	ture).						1				Dete		ime			
Relinquished by: (Signature)							Received by: (Signature)										1	•							
Sample Matrix Soil ☑ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐							RU	15	H			RB	2,/	20	-					1					
□ Sample(s) dropped off after	hours	to sec	cure dro	p of	f area.	3 6	en V And	ir () †	e (C I	1													

5795 US Highway 64 a Farmington, NM 87401 a 505-632-0615 a Three Springs a 65 Mercado Street, Suite 115, Durango, CO 81301 a laboratory@envirotech-inc.com



Analytical Report

Report Summary

Client: Apex TITAN, Inc.

Chain Of Custody Number: 16915

Samples Received: 4/24/2014 2:55:00PM

Job Number: 07174-0003 Work Order: P404080

Project Name/Location: Cohn #1

Entire Report Reviewed By:

Date: 4/28/14

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



606 S. Rio Grand, Suite A Aztec NM, 87410 Project Name:

Cohn #1

Project Number:

07174-0003

Project Manager:

Kyle Summers

Reported: 28-Apr-14 13:47

Analyical Report for Samples

Client Sample 1D	Lab Sample ID	Matrix	Sampled	Received	Container
S-9	P404080-01A	Solid	04/24/14	04/24/14	Glass Jar, 4 oz.
S-10	P404080-02A	Solid	04/24/14	04/24/14	Glass Jar, 4 oz.
S-11	P404080-03A	Solid	04/24/14	04/24/14	Glass Jar, 4 oz.
S-12	P404080-04A	Solid	04/24/14	04/24/14	Glass Jar, 4 oz.
S-13	P404080-05A	Solid	04/24/14	04/24/14	Glass Jar, 4 oz.
S-14	P404080-06A	Solid	04/24/14	04/24/14	Glass Jar, 4 oz.
S-15	P404080-07A	Solid	04/24/14	04/24/14	Glass Jar. 4 oz.
S-16	P404080-08A	Solid	04/24/14	04/24/14	Glass Jar, 4 oz.
S-17	P404080-09A	Solid	04/24/14	04/24/14	Glass Jar, 4 oz.



Project Name:

Cohn#1

606 S. Rio Grand, Suite A Aztec NM, 87410 Project Number: Project Manager: 07174-0003 Kyle Summers Reported: 28-Apr-14 13:47

S-9 P404080-01 (Solid)

		VIII. 190-0	-71						-
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total BTEX	ND	0.05	:mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: Bromochlorobenzene		107 %	80	-120	1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		97.2 %	80	-120	1417022	04/24/14	04/25/14	EPA 8021B	
Nonhalogenated Organics by 8015				22					
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1417023	04/24/14	04/25/14	EPA 8015D	

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606 S. Rio Grand, Suite A

Aztec NM, 87410

Project Name:

Cohn#1

Project Number:

Project Manager:

07174-0003 Kyle Summers Reported:

28-Apr-14 13:47

S-10 P404080-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Voiatile Organics by EPA 8021		5-0							
Benzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1417022	C4/24/14	04/25/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	94/25/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	94/25/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8031B	
Surrogate: 1.3-Dichlorobenzene		97.1 %	80	-120	1417022	04.24:14	04 25 14	EPA 8021B	
Surrogeic, Browechlorobenzene		109 %	80	-120	1417022	04 24 14	04 25 14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1417022	04/24/14	04/25/14	EPA 3015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1417023	04/24/14	04/25/14	EPA 8015D	

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Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301



Apex TITAN, Inc. 606 S. Rio Grand, Suite A Aztec NM, 87410 Project Name:

Cohn #1

Project Number: Project Manager: 07174-0003 Kyle Summers Reported: 28-Apr-14 13:47

S-11

P404080-03 (Solid)

		Reporting								
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B		
Toluene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B		
Ethylbenzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B		
p,m-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B		
o-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B		
Total Xylenes	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B		
Total BTEX	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B		
Surrogate: 1,3-Dichlorobenzene		93.1 %	80	-120	1417022	04/24/14	04/25/14	EPA 8021B		
Surrogate: Bromochlorobenzene		105 %	80	-129	1417022	94/24/14	04/25/14	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	4.98	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8015D	,	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1417023	04/24/14	04/25/14	EPA 8015D		



Aztec NM, 87410

606 S. Rio Grand, Suite A

Project Name:

Cohn#1

Project Number: Project Manager: 07174-0003 Kyle Summers Reported: 28-Apr-14 13:47

S-12

P404080-04 (Solid)

1									
		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Not
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	Ī	1417022	04/24/14	04/25/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
e-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		93.2 %	80	120	1417622	04/24/14	04:25:14	EPA 8021B	
Surrogate: Bromochlorobenzene		107 %	80-	120	1417022	04 24 14	04:25 14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gosoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	I	1417023	04/24/14	04/25/14	EPA 8015D	



Apex TITAN, Inc. 606 S. Rio Grand, Suite A

Aztec NM, 87410

Project Name:

Cohn#1

Project Number: Project Manager: 07174-0003 Kyle Summers Reported: 28-Apr-14 13:47

S-13 P404080-05 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: Bromochlorobenzene		108 %	80-	120	1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		94.7 %	80-	120	1417022	04:24:14	04/25/14	EPA 8021B	
Nonhalogenated Organics by 8015				-	-				
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ИD	29.9	mg/kg	1	1417023	04/24/14	04/25/14	EPA 8015D	



606 S. Rio Grand, Suite A

Aztec NM, 87410

Project Name:

Cohn #1

Project Number.
Project Manager:

07174-0003 Kyle Summers

Reported: 28-Apr-14 13:47

S-14

P404080-06 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1417022	04/24/14	94/25/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1417022	04/24/14	94/25/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
p,m-Xylone	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
l'otal Xylenes	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzone		92.0 %	80-	120	1417022	94 24 14	04 25 14	KF 48021B	
Surrogate: Bromochlorobenzene		107 %	80	120	1417022	04 24 14	94 25 14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	O .	1417023	04/24/14	04/25/14	EPA 8015D	



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Aztec NM, 87410

Project Name:

Cohn #1

Project Number: Project Manager: 07174-0003 Kyle Summers Reported: 28-Apr-14 13:47

S-15 P404080-07 (Solid)

	Reporting							
Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	400						5.2	
ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
	101 %	80-	120	1417022	04/24/14	04/25/14	EPA 8021B	
	91.3 %	80-	120	1417022	04/24/14	04/25/14	EPA 8021B	
ND	4.99	mg/kg	1	1417922	04/24/14	04/25/14	EPA 8015D	
ND	30.0	mg/kg	1	1417023	04/24/14	04/25/14	EPA 8015D	
	ND ND ND ND ND ND ND	ND 0.05 ND 0.05	ND 0.05 mg/kg ND	ND 0.05 mg/kg 1 ND 4.99 mg/kg 1	ND 0.05 mg/kg 1 1417022 101 % 80-120 1417022 91.3 % 80-120 1417022	ND	ND	ND

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Project Name:

Cohn#1

606 S. Rio Grand, Suite A Aztec NM, 87410 Project Number: Project Manager: 07174-0003 Kyle Summers Reported: 28-Apr-14 13:47

S-16

P404080-08 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	100
Гоішепе	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
o,m-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
>-Xylene	ND	0.05	mg/kg	ı	1417022	04/24/14	04/23/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Surragate: 1,3-Dichlorobenzene		93.4 %	80	120	1417022	04/24/14	04:25:14	EPA 8021B	
Surrogate: Bromochlorobenzene		102 %	80	-120	1417022	04.24.14	04:25:14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8015D	
Diesel Range Organics (C10-C28)	CIN	29.9	mg/kg	1	1417023	04/24/14	04/25/14	EPA 8015D	

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laboratory environtech inc.com



Apex TITAN, Inc. 606 S. Rio Grand, Suite A

Aztec NM, 87410

Project Name:

Cohn #1

Project Number: Project Manager: 07174-0003 **Kyle Summers**

Reported: 28-Apr-14 13:47

S-17 P404080-09 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8021B	
Surrogate: Bromochlorobenzene		105 %	80-	120	1417022	04:24:14	04:25:14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		91.5 %	80-	120	1417022	04'24'14	04/25/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1417022	04/24/14	04/25/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1417023	04/24/14	04/25/14	EPA 8015D	



606 S. Rio Grand. Suite A

Project Name:

Cohn #1

Aztec NM, 87410

Project Number: 07174-0003

Project Manager:

Kyle Summers

Reported: 28-Apr-14 13:47

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	93.9
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Note
Batch 1417022 - Purge and Trap EPA 5030A										
Blank (1417022-BLK1)				Prepared: 2	4-Apr-14	Analyzed: 2	25-Apr-14			
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05)•							
Ethylbenzene	ND	0.05	1.5							
p,m-Xylene	ND	0.05								
o-Xylene	ND	0.05	/ 4							
Total Xylenes	ND	0.05	100							
Total BTEX	ND	0.05	4							
Surrognic: 1,3-Dichlorobenzene	30.4		ug L	50.0		101	80-120			
urrogate, Bromochlarohensche	53.7		#	50.0		107	80-120			
Ouplicate (1417022-DUP1)	Sou	rce: P404073-	01	Prepared: 2	4-Apr-14 /	Analyzed: 2	l5-Apr-14			
Benzene	ND	0.05	mg/kg		ND		1.0000000000000000000000000000000000000		30	
Toluene	ND	0.05	ч		ND				30	
Zihyibenzene	ND	0.05			ND				30	
o,m-Xylene	ND	0.05			ND				30	
-Xylene	ND	0.05	0.70		ND				30	
Surrogate: 1,3-Dichlorobenzene	43.1		ugL	50.0		86.3	80-120			
Surrogate: Bromochlorobenzene	47.9			50.0		95.7	80-120			
Astrix Spike (1417622-MS1)	Sou	rce: P404073-	01	Prepared: 2	4-Apr-14 A	Analyzed: 2	!5-Apr-14			
Benzene	50.3		ug/L	50.0	ND	101	39-150			
oluene	50.2		17	50.0	ND	100	46-148			
lihylbenzene	50.4		*	50.0	ND	101	32-160			
,m-Xylene	102		e	100	ND	102	46-148			
Xylene	51.3		247	50,0	ND	103	46-148			
urrogate: 1,3-Dichlorobenzene	46.4		н	50.0		92.8	80-120			
iurrogate: Bromochlorobenzene	51.3		-	50.0		103	80-120			

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Ph (970) 259-0615 Fr (800) 362-1879

Таботатогу дет втогосо боссото



Apex TITAN, Inc. 606 S. Rio Grand, Suite A Project Name:

Cohn #1

Project Number: Project Manager: 07174-0003 Kyle Summers

Reported: 28-Apr-14 13:47

Aztec NM, 87410

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1417022 - Purge and Trap EPA 5030A										
Blank (1417022-BLK1)	2480424400			Prepared: 2	24-Apr-14	Analyzed: 2	25-Apr-14			
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg			37			1-0.00	
Duplicate (1417022-DUP1)	Sou	ce: P404073-	01	Prepared: 2	24-Apr-14	Analyzed: 2	25-Apr-14			
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg		ND				30	
Matrix Spike (1417022-MS1)	Sou	ce: P404073-	01	Prepared: 2	4-Арт-14	Analyzed: 2	25-Apr-14			
Gasoline Range Organics (C6-C10)	0.48		mg/L	0.450	ND	106	75-125			

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C Din Canad Cuita A

606 S. Rio Grand, Suite A Aztec NM, 87410 Project Name:

Cohn #1

Project Number:

07174-0003

Project Manager:

Kyle Summers

Reported: 28-Apr-14 13:47

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1417023 - DRO Extraction EPA 3550C										
Blank (1417023-BLK1)				Prepared: 2	24-Apr-14	Analyzed: 2	25-Apr-14			
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg		(1) # (TON) #1 10					
Duplicate (1417023-DUP1)	Sour	rce: P404073-	01	Prepared: 2	24-Apr-14	Analyzed: 2	25-Apr-14		2.5	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg		ND		A A 300 EEE		30	
Matrix Spike (1417923-MS1)	Sour	ce: P404073-	01	Prepared: 2	24-Apr-14	Analyzed: 2	25-Арт-14			
Diesel Range Organics (C10-C28)	212		nıg/L	250	6.21	82.5	75-125			



606 S. Rio Grand, Suite A

Aztec NM, 87410

Project Name:

Cohn #1

Project Number:

07174-0003

Project Manager:

Kyle Summers

Reported: 28-Apr-14 13:47

Notes and Definitions

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

dry

Sample results reported on a dry weight basis

RPD

Relative Percent Difference

16915

CHAIN OF CUSTODY RECORD

Client: 5 WG/A	ARK	Project Name / Location:								CRO		*3	: * :	A	NALY	/818	/ PAI	RAMI	ETER	S	^			7
Email results to: KSUMMERS PA	pexco	DS.COP	6am _l	pler Name:	Su	mpe	191	٠.	es transitioning		(18021)	8260)	s				÷							
Client Phone No. 2156	03		Clien	nt No.:	-000	3				TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion		TCLP with H/P	CO Table 910-1	TPH (418.1)	RIDE			3	Sample Cool	Sample Intact
Sample No./ Identification	Sample Date	Tim	В	Lab No.	of Co	/olume ntainers	HNO3	HCa	ive	TPH (втех	VOC (RCRA	Cation	RCI	TCLP	CO Ta	TPH (CHLORIDE				damp	Samp
5-9	4/24			14-080-61	1-8	402	-			X	X												2	7
5-10		120	_	-02																		1	1	1
5-11		121	_	-63														177				C	1	
5-12		121		-04											9								e le	1
5-13		/33		- 05						Ц												- 4	1	1
5-14		134		-66						Ш												-	10	1
5-15		146	0.000	-67																			1	4
5-16		140		-08																			1	4
5-17	1	141	0	-09		V				V	V												4	
	14.5						\perp																	
Relinguished by: (Signature)					Date 1/24/	Time 1455	Rece	ived t)y: (S	ignat	ture)	0			K	_					1	Date 4//	Tim	155
Relinquished by: (Signature)			Service su				Rece	eived t	by (4s	ignal	are)										//			
Sample Matrix								-													\top		***************************************	
Soil Solid Sludge	• • • • • • • • • • • • • • • • • • • •											11011177		70										\dashv
Sample(s) dropped off after	r hours to :	secure dro	no qo	area.	3 6	P N S	ir (ol re	e ibor	C l	1		ς	7.0	7	5	.3	6	9					
5795 US Highway (64 • Farmin	gton. NM	87401	• 505-632-0615 • '	Three Spri	inas = 65	Merco	ido Str	eet.	Suite	115. T	Duran								ch-in	c =			



Analytical Report

Report Summary

Client: Apex TITAN, Inc.

Chain Of Custody Number: 16914

Samples Received: 4/28/2014 4:36:00PM

Job Number: 07174-0003 Work Order: P404111

Project Name/Location: Cohn #1

		10			
Entire Report Reviewed By:	//		Date:	4/30/14	
_	Tim Cain, La	aboratory Manager			

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



606 S. Rio Grand, Suite A

Aztec NM, 87410

Project Name:

Cohn #1

Project Number: Project Manager: 07174-0003 Kyle Summers

ŀ

Reported:

30-Apr-14 12:58

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S-18	P404111-01A	Soil	04/28/14	04/28/14	Glass Jar, 4 oz.
S-19	P404111-02A	Soil	04/28/14	04/28/14	Glass Jar, 4 oz.
S-20	P404111-03A	Soil	04/28/14	04/28/14	Glass Jar, 4 oz.
S-21	P404111-04A	Soil	04/28/14	04/28/14	Glass Jar, 4 oz.



Project Name:

Cohn #1

606 S. Rio Grand, Suite A Aztec NM, 87410 Project Number: Project Manager: 07174-0003 Kyle Summers Reported: 30-Apr-14 12:58

S-18 P404111-01 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	Ĭ	1418009	04/29/14	04/29/14	EPA 8021B	
Surrogate: Bromochlorobenzene		106%	80-	-120	1418009	04/29/14	04/29/14	EPA 3021B	
Surrogate: 1,3-Dichlorobenzene		102 %	80-	-120	1418009	04/29/14	04:29:14	EPA 8021B	
Nonhalogenated Organics by 8015						z			
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	.1.	1418010	04/29/14	04/29/14	EPA 8015D	



Project Name:

Cohn #1

606 S. Rio Grand, Suite A

Project Number:

07174-0003

Reported:

Aztec NM, 87410

Project Manager: Kyle Summers

30-Apr-14 12:58

S-19 P404111-02 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
p,in-Xylene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 3021B	
p-Xylene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Total BUEX	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Surroguio: Bromochiorobenzeno		101 %	80-	120	1418009	04 29:14	04:29 14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		96.1 %	80-	120	1418009	04 29 14	04/29/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1418010	04/29/14	04/29/14	EPA 8015D	



Project Name:

Cohn #1

606 S. Rio Grand, Suite A Aztec NM, 87410 Project Number: Project Manager: 07174-0003 Kyle Summers Reported: 30-Apr-14 12:58

S-20

P404111-03 (Solid)

	D - 1	Reporting	*1-5-	Dillosion	Datak	December	Austral	Made	Massa
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
n-Xylene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 802]B	
Total BTEX	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Surrogate: Bromochlorobenzene		102 %	30-	120	1418009	04/29/14	04/29/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		95.4 %	80-	120	1418009	04/29/14	04/29/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1418010	04/29/14	04/29/14	EPA 8015D	



606 S. Rio Grand, Suite A

Aztec NM, 87410

Project Name:

Cohn#1

Project Number: Project Manager: 07174-0003 Kyle Summers Reported: 30-Apr-14 12:58

S-21

P404111-04 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Ethylbenzone	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1418009	04/29/14	04/29/14	EPA 8021B	
Surrogate: Bromochlorobenzene	4.00	100 %	80	-120	1418009	04 29 14	04:29:14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		95.2 %	80	-120	1418009	04 29 14	94 29 14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	0.10	mg/kg	0.02	1418009	04/29/14	04/29/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1418010	04/29/14	04/29/14	EPA 8015D	



Project Name:

Cohn #1

606 S. Rio Grand, Suite A Aztec NM, 87410 Project Number: 0
Project Manager: 1

07174-0003 Kyle Summers Reported: 30-Apr-14 12:58

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

	V_0 194	Reporting	124/057	Spike	Source	ggmester.	%REC	gental en	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1418009 - Purge and Trap EPA 5030A						2				
Blank (1418009-BLK1)				Prepared &	Analyzed:	29-Apr-14	1000			
Benzene	ND	0.05	mg/kg			75.4				
Toluene	ND	0.05	*							
Ethylbenzene	ND	0.05								
p,m-Xylene	ND	0.05								
o-Xylene	ND	0.05								
Total Xylenes	ND	0.05	-							
Total BTEX	ND	0.05	и							
Surrogate: 1,3-Dichlorobenzene	48.9		ug:L	50.0		97.8	80-120			
Surrogate: Bromochlorobenzene	51.6		"	50.0		103	80-120			
Duplicate (1418009-DUP1)	Sou	rce: P404111-0	01	Prepared &	Analyzed:	29-Apr-14				
Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05			ND				30	
Ethylbenzene	ND	0.05	(0)		ND				30	
o.m-Xylene	ND	0.05	41		ND				30	
o-Xylene	ND	0.05			ND	2001 200			30	
Surrogate: 1,3-Dichlorobenzene	49.2		ug/L	50.0		98.4	80-120	Special and a		
Surrogate: Bromochlarohenzene	51.5		n n	50.0		103	80-120			
Matrix Spike (1418009-MS1)	Sour	rce: P404111-0	01	Prepared &	Analyzed:	29-Арг-14				
Benzene	48.4		ug/L	50.0	ND	96.8	39-150			
Colluene	48.8		41	50.0	ND	97.6	46-148			
Ethylbenzene	49.1			50.0	ND	98.2	32-160			
n,m-Xylene	98.5		×	100	ND	98.5	46-148			
×Xyllenc	49.1		ď	50,0	ND	98.2	46-148			
Surrogate: 1,3-Dichlorobenzene	47.8		II ee	50.0		95.6	80-120			
Surrogate: Bromochlorobenzene	49.0		. 64	50.0		98.1	80-120			

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laboratory@envirotech inc.com



Apex TITAN, Inc. 606 S. Rio Grand, Suite A Aztec NM, 87410 Project Name:

Cohn#1

Project Number: Project Manager: 07174-0003 Kyle Summers Reported:

30-Apr-14 12:58

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1418009 - Purge and Trap EPA 5030A										-
Blank (1418009-BLK1)				Prepared &	: Analyzed:	29-Apr-14				
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	* * / * * * * * * * * * * * * * * * * *						
Duplicate (1418009-DUP1)	Sour	rce: P404111-	01	Prepared &	Analyzed:	29-Apr-14				
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	t the stade of	ND	AMERICAN AND A			30	
Matrix Spike (1418009-33S1)	Sour	ce: P404111-	01	Prepared &	: Analyzed:	29-Арг-14				
Gasoline Range Organics (C6-C10)	0.47		mg/L	0.450	ND	105	75-125	100	. 5539	



Apex TITAN, Inc. 606 S. Rio Grand, Suite A Aztec NM, 87410 Project Name:

Cohn #1

Project Number: Project Manager: 07174-0003 Kyle Summers

Reported: 30-Apr-14 12:58

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1418010 - DRO Extraction EPA 3550C										
Blank (1418010-BLK1)				Prepared &	: Analyzed:	29-Apr-14				
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg							
Duplicate (1418010-DUP1)	Source: P404111-01			Prepared &	: Analyzed:	29-Арт-14				
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg		ND	, , , , , , , , , , , , , , , , , , , ,			30	
Matrix Spike (1418010-MS1)	Sou	rce: P404111-	01	Prepared &	Analyzed:	29-Apr-14				
Diesel Range Organics (C10-C28)	222	•	mg/L	250	12.4	84.0	75-125			

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606 S. Rio Grand, Suite A

Aztec NM, 87410

Project Name:

Project Number: Project Manager: Cohn #1

07174-0003

Kyle Summers

Reported: 30-Apr-14 12:58

Notes and Definitions

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

dry

Sample results reported on a dry weight basis

RPD

Relative Percent Difference

16914

CHAIN OF CUSTODY RECORD

Client: SEOGI /AP	CX	Pr	ampler Name: Kyle Scale moss.				40	200		27 Table 1		Al	VALY	'S IS	/ PAF	RAME	TER	S					
Email/results to:	AARS	Casco	mpler Name:	ile	Sca	KL H	res,	٤	-	18021)	8260)	Ø				-	A C C C C C C C C C C C C C C C C C C C						
Client Phone No.: 703-82/-564	03	CII	ent No.:			-12.4			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Catton / Anlon		TCLP with H/P	CO Table 910-1	TPH (418.1)	RIDE			Sample Cool	Sample Intact	
Sample No./ Identification	Sample Date	Sample Time	Lab No.		/olume ntainers	Pr HNO ₃	HCI	8	TPH (I	втех	voc (RCRA	Cation	ᄗ	TCLP	CO Ta	тРН (CHLORIDE			Camp	Sampl	
5-18	4/24/	9/430	P404111-01	18	Yoz.				*	X								29			-	-	1
5-19	4/28/1	1500	-02																			1	Y
5-20		15/5	-03		,																1	10	Y
5-21	4	4530	-04	V					b	¥							•				4	1-	1
			112-																				
			3/15																				
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														-				<u></u>					
Religionalisted by: (Signature)		_		4/s267	Jaga 1636	Rece	ived by	y: (Si	ignat	ure)	×	ریز	1	4	_						Date	Time	
Relinquished by: (Signature)							ived by	p-15	ignat	ure)								tea.			7/19	70	7
Sample Matrix																				+	-	_	-
	Aqueous																						
Sample(s) dropped off afte	wi		E			iytic	al Lai	bore	ator	У			8.1										
5795 US Highway	64 • Farming	ton, NM 874	01 • 505-632-0615 •	Three Spr	ings • 65	Merco	ido Stre	et, S	uite	1 15, E	Durar	go, (CO 81	301 •	labo	prato	ry@er	virote	ech-ine		ane 1	1 of 1	4



Analytical Report

Report Summary

Client: Apex TITAN, Inc.

Chain Of Custody Number: 16940

Samples Received: 4/29/2014 2:40:00PM

Job Number: 07174-0003 Work Order: P404115

Project Name/Location: Cohn #1

Entire Report Reviewed By:		1	Date:	5/1/14
Entire Report Reviewed by.	Tim Cain, La	boratory Manager	valo.	OT IT I

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this

analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



606 S. Rio Grand, Suite A Aztec NM, 87410 Project Name:

Cohn #1

Project Number: Project Manager: 07174-0003 Kyle Summers

Reported: 01-May-14 13:50

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container	
S-22	P404115-01A	Soil	04/29/14	04/29/14	Glass Jar, 4 oz.	
S-23	P404115-02A	Soil	04/29/14	04/29/14	Glass Jar, 4 oz.	
S-24	P404115-03A	Soil	04/29/14	04/29/14	Glass Jar, 4 oz.	
S-25	P404115-04A	Soil	04/29/14	04/29/14	Glass Jar, 4 oz.	
S-26	P404115-05A	Soil	04/29/14	04/29/14	Glass Jar, 4 oz.	



...,

Project Name:

Cohn #1

606 S. Rio Grand, Suite A Aztec NM, 87410 Project Number: Project Manager: 07174-0003 Kyle Summers Reported: 01-May-14 13:50

S-22

P404115-01 (Solid)

*		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volgtile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
p.m-Xylene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1418009	04/30/34	04/39/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1418009	04/30/14	04/39/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Surrogate: Bramochlorobenzene	***	98.6 %	80-	-120	1418009	94 30 14	04 30 14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		96.3 %	80-	-120	1418909	04 39 14	94 30 14	KPA SOZIE	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND .	29.9	mg/kg	1	1418010	04/30/14	04/30/14	EPA 8015D	



606 S. Rio Grand, Suite A Aztec NM, 87410 Project Name:

Cohn #1

Project Number: Project Manager: 07174-0003 Kyle Summers Reported: 01-May-14 13:50

S-23

P404115-02 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		94.0 %	80-	-120	1418009	04/30/14	04/30/14	EPA 8021B	
Surrogate: Bromochlorobenzene		96.4 %	80-	-120	1418009	04/30/14	04/30/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1418010	04/36/14	04/30/14	EPA 8015D	



Project Name:

Cohn #1

606 S. Rio Grand, Suite A Aztec NM, 87410

Project Number: Project Manager: 07174-0003 Kyle Summers

Reported: 01-May-14 13:50

S-24 P404115-03 (Solid)

E .										
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
- Mary to	resuit	Limit	Outle	Distriction.	Date	Тюрагои	Aimyzcu	Monog	140(03	
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B		
Toluene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B		
Ethylbenzene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B		
p,m-Xylene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B		
o-Xylcne	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B		
Total Xylenes	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B		
Total BTEX	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B		
Surrogate: Bromochlorobenzene		97.8 %	80	-120	1418009	04/30/14	04 30 14	EPA 8021B		
Swrogate: 1,3-Eichlorobenzene		95.2 %	80	-120	1418009	94:30:14	04-30 14	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	. 1	1418010	04/30/14	04/30/14	EPA 8015D		



Apex TITAN, Inc. 606 S. Rio Grand, Suite A

Aztec NM, 87410

Project Name:

Cohn #1

Project Number: Project Manager: 07174-0003 Kyle Summers

Reported: 01-May-14 13:50

S-25 P404115-04 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1418009	94/30/14	04/30/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1418009	04/39/14	04/30/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1418009	04/30/14	94/30/14	EPA 8021B	
Surrogate: Bromochlorobenzene		97.0 %	80-	120	1418009	94/39/14	04/30/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		93.4 %	80-	120	1418009	04:30 74	04/30/14	EPA 8021B	
Nonhalogenated Organics by 8015		Wester		10			F100		
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1418009	04/39/14	04/30/14	EPA 8015D	
Diesel Range Organics (C10-C28)	30.5	30.0	mg/kg	1	1418010	04/30/14	04/30/14	EPA 8015D	



606 S. Rio Grand, Suite A

Aztec NM, 87410

Project Name:

Cohn #1

Project Number: Project Manager: 07174-0003

Kyle Summers

Reported:

01-May-14 13:50

S-26 P404115-05 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021				2.30					
Benzene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	. 1	1418009	04/30/14	04/30/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	t	1418009	04/30/14	04/30/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8021B	
Surrogate: 1,3-Dichlorohenzene		89.1%	80-	120	1418009	04:30:14	04:30-14	EPA 80213	
Surrogate: Bromochlorobenzene		92.6%	80	120	1418009	04.30-14	04 30 14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1418009	04/30/14	04/30/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1418010	04/30/14	04/30/14	EPA 8015D	



Apex TITAN, Inc. 606 S. Rio Grand, Suite A

Aztec NM, 87410

Project Name:

Cohn #1

Project Number: Project Manager: 07174-0003 Kyle Summers Reported: 01-May-14 13:50

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

143		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1418009 - Purge and Trap EP	A 5030A		_			***				
Blank (1418009-BLK1)			liber .	Prepared &	: Analyzed:	29-Apr-14				
Benzene	ND	0,05	mg/kg							
Toluene	ND	0.05	-4							
Ethylbenzene	ND	0.05	R							
p,m-Xylene	ND	0.05	**							
o-Xy!ene	ND	9.05	1.44							
Total Xylenes	ND	0.05								
l'otal BTEX	ND	0.05	it							
Surrogate: 1,3-Dichlorobenzene	48.9		ugL	50.0		97.8	80-120			
Surrogate: Bromochlorobenzene	51.6		н	50.0		103	80-120			
Duplicate (1418009-DUP1)	Source	e: P404111-	01	Prepared &	Analyzed:	29-Apr-14				
Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	п		ND				30	
Ethylbenzene	ND	0.05	п		ND				30	
o,m-Xylene	ND	0.05	19		ND				30	
>-Xylene	ND	0.05	n		ND				3C	
Surrogate: 1,3-Dichlorobenzene	49.2		ug L	50.0		98.4	80-120			
Surrogate: Bromochlorobenzene	51.5		N	50.0		103	80-120			
Matrix Spike (1418009-MS1)	Source	e: P404111-	01	Prepared &	Analyzed:	29-Apr-14				
Senzene	48.4		ug/L	50.0	ND	96.8	39-150			
Coluene	48.8			50.0	ND	97.6	46-148			
Ethylbenzene	49.1			50.0	ND	98.2	32-160			
,m-Xylene	98.5		10.0	100	ND	98.5	46-148			
Xykav	49.1		u	50.0	ND	98.2	46-148			
Surrogate: 1,3-Dichlorobenzene	47.8		- 14	50.0		95.6	80-120			
Surrogate: Bromochlorobenzene	49.0		14	50.0		98.1	80-120			

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5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Ph (970) 259-0615 Fr (800) 362-1879

enviroted income.



Project Name:

Cohn #1

606 S. Rio Grand, Suite A Aztec NM, 87410 Project Number:

07174-0003

Project Manager:

Kyle Summers

Reported: 01-May-14 13:50

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source	G (71) 31 (12)	%REC	20505ce - 0	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1418009 - Purge and Trap EPA 5030A										
Blank (1418009-BLK1)				Prepared &	Analyzed:	29-Apr-14				
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg							
Duplicate (1418009-DUP1)	Sour	ес: Р404111-	01	Prepared & Analyzed: 29-Apr-14					_	
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg		ND				30	
Matrix Spike (1418009-MS1)	Sour	ce: P404111-	01	Prepared &	: Analyzed:	29-Apr-14	2			
Gasoline Range Organics (C6-C10)	0.47		mg/L	0.450	ND	105	75-125			



Apex TITAN, Inc.

Project Name:

Cohn #1

606 S. Rio Grand, Suite A Aztec NM, 87410

Project Number:

07174-0003

Reported:

Project Manager:

Kyle Summers

01-May-14 13:50

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 1418010 - DRO Extraction EPA 3550C	-			71						
Blank (1418010-BLK1)	100-100-100-100-1	- 10- <u>10</u>	62-5	Prepared &	: Analyzed:	29-Apr-14			57	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg							
Duplicate (1418010-DUP1)	Sour	ce: P404111-	01	Prepared &	: Analyzed:	29-Apr-14		~~~	200 201	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg		ND				30	
Matrix Spike (1418010-MSI)	Sour	ce: P404111-	01	Prepared &	Analyzed:	29-Apr-14				
Diesel Range Organics (C10-C28)	222		mg/L	250	12,4	84.0	75-125			

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Apex TITAN, Inc.

Project Name:

Cohn #1

606 S. Rio Grand, Suite A Aztec NM. 87410

Project Number: Project Manager: 07174-0003 **Kyle Summers** Reported:

01-May-14 13:50

Notes and Definitions

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

dry

Sample results reported on a dry weight basis

RPD

Relative Percent Difference

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CHAIN OF CUSTODY RECORD

Client: APCX		Pn	Cohn H	in:				240	G.R.O				Al	NALY	'SIS	PAF	RAME	TER	S			
Email results to: R Swimmers DAPE	excos,	com sa	mpler Name: Tyle Sud	eo HC	915				8015)	18021)	8260)	s)				-						
Client Phone No.: 903-82/-5603			ent No.:						TPH (Method	BTEX (Method 8021)	(Method	RCRA 8 Metals	Cation / Anion		with H/P	Table 910-1	TPH (418.1)	RIDE			000	
Sample No./ Identification	Sample Date	Sample Time	Lab No.	of C	/Volume ontainers	Pri HNO ₃	HCI	/8	-		Voc (RCRA	Cation	RCI	TCLP	CO Ta	TPH (CHLORIDE			Sample	Sampl
2-55	4/29/19	7	P40415-01	11	Yoz				X	λ											X	X
5-23		1200	P404115-02																		X	X
5-24		1210	P40415-03																		X	X
5-25		1220	1 10411701																		S	X
5-26	~	1240	P40415-05	4	1				*	1											1	X
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Relinquished by: (Signature)				6	100	Rece	ived b	y: (Sig	gnat	ure)				()	-				part 5	- 1	
Sample Matrix Soil A Solid Sludge	Aqueous [Other:]																			
□ Sample(s) dropped off after	hours to se	ecure drop	off area.	3	env	ir (ot La	e c	itor	1		į	1.0	1	1	7	4	3.	2	3)	
5705 HS Highway A	d a Commission	don blid 07	101 - 505 /00 0/15 -	Thurs or Co			do Str				-	/	20.01	001 -	م ماندا					_		



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

April 14, 2014

Kyle Summers Southwest Geoscience 606 S. Rio Grande Unit A

Aztec, NM 87410 TEL: (903) 821-5603 FAX (214) 350-2914

RE: COHN #1 OrderNo.: 1404314

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/8/2014 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 1404314

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/14/2014

CLIENT: Southwest Geoscience

Client Sample ID: SP-1

Project: COHN#1

Collection Date: 4/7/2014 11:40:00 AM

Lab ID: 1404314-001

Matrix: SOIL

Received Date: 4/8/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGI	ORGANICS						IIBCN
сесствен праниний	1000			□g∭g	10	<u>ci</u> anci a anon 7 Po	10000
GOODP				0000	10	cd coord a coord Po	1000
EPA METHOD 8015D: GASOLINE RAI	NGE						IINSB
Galbille Dadge digation mode	100			□g⊞g	J	0300001010001001P0	10000
		7000		8 000		caused a 1 cost and PC	1000
EPA METHOD 8021B: VOLATILES							IIINSB
	1.R.J	മ്മാ		□g∭g	ii.	and o 1 and out Po	1000
Соще Де				□дШд		0000001010001001P0	13000
		THE				concurred a 1 count and Po	1000
				□g⊞g	-01	CONTROL 10001 or 1 Po	1000
COMPAND OF THE COMPAN	11□	ari e		DISCHARGE		constructed or Po	100X

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

Qualifiers:

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

Page 1 of 5

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

Analytical Report Lab Order 1404314

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/14/2014

CLIENT: Southwest Geoscience

Client Sample ID: SP-2

Project: C

Lab ID:

COHN#1

Collection Date: 4/7/2014 11:45:00 AM

1404314-002 Matrix: SOIL

Received Date: 4/8/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS					i de a du i	III)BCN
Detelia: ge filgal III (II) DO (1	11111	(1)		i giilg	163		111111
Latination	1.7	CHICA .	4.4	7)(2) = 1.3	10	A 11 a B 31 () D B A TOUR (A III)	1(117)
EPA METHOD 8015D: GASOLINE RAI	NGE					n.a.wi	MNSB
narbille narge (Tgahillud) in d	11 1:	101		Cgl g	51	COME ACCORDED PO	titte-
	17 <i>0</i>	7: 1h/1i	- 1	(342940)	1.1	COMMUNICATION PLA	1000
EPA METHOD 8021B: VOLATILES						(illanii)	IINSB
Le Telle	[30]	1310		⊞g⊞g	1.1	LEUGS ALLEITEIM PL	1011
Попте⊓е	1 000	THE		∏g⊞g	m	compared and Po	1000
(Williel (e) e		1351		t i giffig	:1	case four last Po	10111
MARINETHATI	700	THE		Ogteg	11	Compared and the Po-	10; 10
пентипалогиотогетеге	110			FIRE	13	camata critari Po	1000

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

Qualifiers:

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

Page 2 of 5

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

Hall Environmental Analysis Laboratory, Inc.

WO#: 1404314

14-Apr-14

Client:

Southwest Geoscience

Project:	COHN#	1									
Dan de do MB	-12586	Са□□	ILEOM.	BLK	Del	‱o⊡e⊕E	PA Method	8015D: Diese	I Range	Organics	-
orecomo PB	3	□аШ	J 000 12	586	1	0000001	7898				
Prendaren 4/1	3/2014		ale 4	/10/2014		⊟e □□o □ 5	16454	□□IIII mg/K	g		
			POO	OPO Dame	OPO Def Dat	3000			o opo	oPoow @	O Da D
Diesel Range Organ	ics (DRO)	00	10								
Surr: DNOP				1000	No.		Ш	101			
Dad De III LCS	-12586	0a0 00	ille il LC	s	Dei	‱oDe□ E	PA Method	8015D: Diese	l Range (Organics	
DECOMO LOS	S	□а⊞	3 CC 12	586	[0001	7898				
Pœodated 4/8	3/2014		ia@[] 4/	10/2014	i]e[]]]o[] 5	16498	□□IIII mg/K	g		
			Poo	oPo came	□P□ □ef □a□	3 3 0 0 0		□ (9 0000 00	0 0 P 0	oPodo do	0000
Diesel Range Organ	ics (DRO)	II)	10			110		100			18.0
Surr: DNOP						100	00	101			
Па□ Пе Ш МВ-	12624	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	8015D: Diese	I Range (Organics	
Client ID: PBS	;	□a⊞	00012	624	F	RunNo: 1	7898				
Prencaren 4/9	/2014		aŒ □ 4/	10/2014		SeqNo: 5	16973	OOIIII %REC	:		
	77.11d only -1.1	□е□ш	PQL	□P□ □a⊞e	□P□ □ef □a□	000		0000000	0 0 P 0	oPoco o	D DaD
Surr: DNOP		9.5		10.00		95.4	66	131			
Sample ID LCS	-12624	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Diese	I Range C	Organics	Vi Si
Client ID: LCS	S	Batch	ID: 12	624	F	RunNo: 1	7898			7	
Prep Date: 4/9	/2014	Analysis D	ate: 4/	10/2014	5	SeqNo: 5	16974	Units: %REC	:		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.4		5.000		87.9	66	131			

Qualifiers:

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

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

Result

17

980

PQL

5.00

1000

WO#: 1404314

%RPD

HighLimit

134

109

71.7

74.5

RPDLimit

Qual

14-Apr-14

Client:

Southwest Geoscience

Project:

Analyte

Sur: BFB

Gasoline Range Organics (GRO)

COHN #1

Sample ID MB-12598	SampT	ype: Mi	BLK	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	θ	
Client ID: PBS		n ID: 12			RunNo: 1					
Prep Date: 4/8/2014	Analysis D	ate: 4	/9/2014	s	SeqNo: 5	16112	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0	***************************************							
Surr: BFB	890		1000		88.9	74.5	119			
Sample ID LCS-12598	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batcl	1D: 12	598	F	lunNo: 1	7894				
Prep Date: 4/8/2014	Analysis D	ate: 4	/9/2014	9	eaNo: 5	16113	Units: ma/K	(a		

SPK value SPK Ref Val %REC LowLimit

107

97.6

Qualifiers:

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

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1404314

14-Apr-14

Client:

Southwest Geoscience

Project:

COHN #1

Sample ID MB-12598	SampT	ype: MI	BLK	Tes	tCode: E	PA Method	8021B: Vola	lles		
Client ID: PBS	Batch	ID: 12	598	F	RunNo: 1	7894				
Prep Date: 4/8/2014	Analysis D	ate: 4/	9/2014	8	SeqNo: 5	16138	Units: mg/k	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLlmit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Kylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	100			

Sample ID LCS-12598	SampT	SampType: LCS			tCode: E	tiles				
Client ID: LCSS	Batcl	h ID: 12	598	F	RunNo: 1	7894				
Prep Date: 4/8/2014	Analysis D	Date: 4/	9/2014	8	SeqNo: 5	16139	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	111	80	1⊡0		-	
Toluene	1.0	0.050	1.000	0	100	80	1⊡0			
Ethylbenzene	1.0	0.050	1.000	0	104	80	1⊡0			
Xylenes, Total	3.1	0.10	3.000	0	103	80	1□0			
Surr: 4-Bromofluorobenzene	1.0		1.000		116	80	100			

Qualifiers:

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

RLReporting Detection Limit Page 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com Client Name: Southwest Geoscience Work Order Number: 1404314 RoptNo: 1 Received by/date: Lindsay Mangin Logged By: 4/8/2014 10:00:00 AM 4/8/2014 10:26:28 AM Completed By: Lindsay Mangin Reviewed By: Chain of Custody Yes No 🗀 Not Present 1. Custody seals intact on sample bottles? No 🗆 Yes 🗸 Not Present 2. is Chain of Custody complete? 3. How was the sample delivered? Courier Log In No 🗆 NA 🗌 4. Was an attempt made to cool the samples? Yes V No 🗌 NA 🔲 5. Were all samples received at a temperature of >0° C to 6.0°C Yes V No 🗆 Yes V 6. Sample(s) in proper container(s)? No 🗆 7. Sufficient sample volume for indicated test(s)? Yes V No 🗆 Yes V 8. Are samples (except VOA and ONG) properly preserved? No 🗹 NA 🗔 Yes 🔲 9. Was preservative added to bottles? No VOA Vials No 🗌 Yes 10.VOA vials have zero headspace? Yes 🗆 No V 11. Were any sample containers received broken? # of preserved bottles checked for pH: No 🗌 12. Does paperwork match bottle labels? Yes V (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗆 Yes V 13. Are matrices correctly identified on Chain of Custody? No 🗆 Yes 🔽 14, is it clear what analyses were requested? No 🗌 Checked by: 15. Were all holding times able to be met? Yes V (If no, notify customer for authorization.) Special Handling (if applicable) 16. Was client notified of all discrepancies with this order? Yes 🔲 No 🗌 NA 🔽 Person Notified: Date: By Whom: Vla: eMail Phone Fax In Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information

Cooler No. | Temp C | Condition | Seal Intact | Seal No. | Seal Date |

Good

					CHAIN OF CUSTODY RECORD
Southwest	Laboratory: HALL Address: ABO		ANALYSIS REQUESTED		Lab use only Due Date:
Environmental & Hydrogeologic Consultants			(3)	9	Temp. of coolers when received (C*): 2,9
Office Location AZTEC, NM	Phone:				
Project Manager KyLE SummERS	PO/SO#: 04136018		Z 7		/
Sampler's Name AARON BRUANT	Sampler's Signature		2002		
Proj. No. Project Name COH	N#I RayType of 2x4	Containers	多到	//////	/ /
	Marks of Sample(s) tags of the VOA A/G	250 P/O	AH /	'	Lab Sample ID (Lab Use Only)
S4-7-14 1/40 X SP	-1 11	1	XX		1404314-001
S4-7-14 1145 X SP	-2 .	I	と と		-007
	NFS				
	B				
	1 - 2				
Turn around time ■ Normal ■ 25% Rush Relinguished by (Signature) ■ Date:	Time: Regelved by: (Signature)	Dote	e: , Time: N	OTES:	
17/19	ISIU / Christia la be to		14 15 16	JIEG.	
Relinquished by (Stringture) Date: Hotels Date:	Time: Received by (Signature)	Delte	Jul 1000		
Relinquished by (Signature) Dete:	Time: Received by: (Signature)	Date			
Relinquished by (Signature) Date:	Time: Received by: (Signature)	Date	a: Time:		
Matrix WW - Westewater W - Water Container VOA - 40 ml visi A/G - Amber	S - Soll SD - Solld L - Liquid A - Air / Or Glass 1 Liter 250 ml - Glass wide r	Bag C mouth P/	- Charcoal tube SL O - Plastic or other	- 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

May 02, 2014

Kyle Summers Southwest Geoscience 606 S. Rio Grande Unit A Aztec, NM 87410

TEL: (903) 821-5603 FAX (214) 350-2914

RE: Cohn #1 OrderNo.: 1404C00

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/30/2014 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 1404C00

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 5/2/2014

CLIENT: Southwest Geoscience

Client Sample ID: WS-1

Project: Cohn #1 Collection Date: 4/29/2014 8:30:00 AM

Lab ID: 1404C00-001 Matrix: AQUEOUS Received Date: 4/30/2014 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGI	≣					Analyst	BCN
Diesel Range ⊟rganics เDR□□	5.□	1.0		mg 🗓	1	4/30⊞014 □56:53 P□	10941
Sum: DN□P	1 🗆 7	6 □7□ 45		%REC	1	430E014 □56:53 P□	1⊡941
EPA METHOD 8015D: GASOLINE RAI	NGE					Analyst	: NSB
□asoline Range □rganics ⅢR□□	5.□	0. □5		mg 🕮	5	4:30:0014 11:41:07 A	R18301
Surr: B⊡B	101	80.41118		%REC	5	4:30 E014 11:41:07 AD	R18301
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Ben⊑ene	780	□0		Elgill.	□0	4:30:0014 10:36:03 PO	R18301
Toluene	750	□0		_gil.	□0	4:30:0014 1:036:03 PC	R18301
Ethyl⊑en⊑ene	60	5.0		∐gđi.	5	4:30:0014 11:41:07 A	R18301
⊏ylenes⊑Total	730	10			5	450E014 11:41:07 AD	R18301
Surr: 4:Bromofluoro⊡en⊡ene	115	879739		%REC	5	4:30E:014 11:41:07 AD	R18301

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- - Holding times for preparation or analysis exceeded

Analyte detected in the associated Method Blank

ND Not Detected at the Reporting Limit

Page 1 of 4

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1404C00

02-May-14

Client:

Southwest Geoscience

Project:	Cohn #1										
Sample ID	MB-12941	SampT	ype: Mi	BLK	Tes	tCode: E	PA Method	8015D: Diese	i Range		
Client ID:	PBW	Batch	ID: 12	941	F	RunNo:	18255				
Prep Date:	4/30/2014	Analysis D	ate: 4	30/2014		SeqNo:	528470	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	ND	1.0				enanta (timbre)				E
Surr: DNOP		1.4		1.000		139	6L.7	145			
Sample ID	LCS-12941	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015D: Diese	l Range	ALL CONTRACTOR OF THE PARTY OF	
Client ID:	LCSW	Batch	ID: 12	941	F	RunNo:	18256				
Prep Date:	4/30/2014	Analysis D	ate: 4/	30/2014	8	SeqNo:	528471	Units: mg/L			
Analyte		Result	PQL.	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	5.7	1.0	5.000	0	115	78.6	146		•	
Sum: DNOP		0.61		0.5000		1 _{LL}	6山7	145			
Sample ID	LCSD-12941	SampT	ype: LC	SD	Tes	tCode: E	PA Method	8015D: Diese	l Range		
Client ID:	LCSS02	Batch	ID: 12	941	F	RunNo:	18255				
Prep Date:	4/30/2014	Analysis D	ate: 4/	30/2014	S	SeqNo:	528472	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Quat
Diesel Range (Organics (DRO)	6.0	1.0	5.000	0	119	78.6	146	3.88	□6.5	
Sun: DNOP		0.58		0.5000		115	6:17	145	0	0	

Qualifiers:

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

Page 2 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#:

1404C00

02-May-14

Client:

Southwest Geoscience

Project:

Cohn #1

Sample ID 5ML RB

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID:

PBW

Batch ID: R18301

0.050

RunNo: 18301

Prep Date:

Analysis Date: 4/30/2014

Units: mg/L

Analyte

Result PQL SPK value SPK Ref Val %REC LowLimit

SeqNo: 529304

HighLimit

Qual

Gasoline Range Organics (GRO) Sur: BFB

ND 18

□0.00

0.88

118

RPDLimit

Sample ID 2.5UG GRO LCS

LCSW

SampType: LCS Batch ID: R18301

PQL

0.050

RunNo: 18301

TestCode: EPA Method 8015D: Gasoline Range

80.4

HighLimlt

Client ID: Prep Date:

Analysis Date: 4/30/2014

SeqNo: 529305 %REC

Units: mg/L

%RPD

RPDLimit Qual

Gasoline Range Organics (GRO)

Analyte

0.54

Result

0.5000 □0.00

SPK value SPK Ref Val

109 95.8

80 80.4

100

%RPD

Surr. BFB

19

LowLimit

118

Qualifiers:

R

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

RPD outside accepted recovery limits

- 0 RSD is greater than RSDlimit
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Sample pH greater than 2.
- RL Reporting Detection Limit

P

Page 3 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#: 14

1404C00

02-May-14

Client:

Southwest Geoscience

Project:

Cohn #1

Sample ID 5ML RB	Samp1	ype: MI	BLK	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: PBW	Batcl	n ID: R1	8301	F	lunNo: 1	8301				
Prep Date:	Analysis D	ate: 4/	30/2014	8	SeqNo: 5	29327	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0						=== 27 EM-45K		
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	130								
Surr: 4-Bromofiuorobenzene	0		.0.00		98.5	81.9	139			

Sample ID 100NG BTEX L	CS Samp	SampType: LCS		TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSW	Batc	Batch ID: R18301			RunNo: 18301					
Prep Date:	Analysis I	Date: 4	/30/2014	\$	SeqNo: 5	29328	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	£11	1.0	□0.00	0	103	80	100			
Toluene	· 0	1.0	□0.00	0	103	80	1⊓0			
Ethylbenzene	_0	1.0	⊥0.00	0	101	80	1∟0			
Xylenes, Total	64	10	60.00	0	107	80	11.0			
Sur: 4-Bromofluorobenzene	. 11		(10.00		103	8119	139			

Qualifiers:

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

Page 4 of 4

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: Southwest Geoscience Work Order Number: 1404C00 RcptNo: 1 Received by/date: Logged By: Ashley Gallegos 4/30/2014 10:05:00 AM Completed By: **Ashley Gallegos** 4/30/2014 10:55:56 AM Reviewed By: Chain of Custody Yes ! i No : Not Present ♥ 1. Custody seals intact on sample bottles? **Not Present** :2. Is Chain of Custody complete? Yes V No 3. How was the sample delivered? Courier Log In No [] NA : 4. Was an attempt made to cool the samples? Yes V 5. Were all samples received at a temperature of >0° C to 6.0°C No ... Yes V Sample(s) in proper container(s)? No 7 Sufficient sample volume for indicated test(s)? No ... 8. Are samples (except VOA and ONG) properly preserved? No V NA I 9. Was preservative added to bottles? Yes No L. 10.VOA vials have zero headspace? Yes Y No VOA Vials 11. Were any sample containers received broken? No V # of preserved bottles checked No I for pH: 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) (<2 or >12 unless noted) Adjusted? No 13. Are matrices correctly Identified on Chain of Custody? No L 14. Is it clear what analyses were requested? Checked by: No L 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes ... 16. Was client notified of all discrepancies with this order? Person Notified: Date: By Whom: Via: eMail : Phone ' In Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp C Condition Seal Intact Seal No Seal Date

				CHAIN OF CUSTODY RECORD					
Southwest SGEOSCIENCE Environmental & Hydrogeologic Consultant Office Location AZTEC , NM Project Manager Kylis Sunwages	Address: NBO Contact: FREEMAN Phone:	<i>J</i>	ANALYSIS REQUESTED	Lab use only Due Date: Temp. of coolers // when received (C°): 1 2 3 4 5 Page					
Sampler's Name MARON BAYANT KYLS SUMMERS	Sampler's Signature Co.	14	1 12 P						
041360R CO	IN #1	No/Type of Containers	1 6/30///						
Matrix Date Time C G F Identifyi	g Marks of Sample(s)		Qu' Ri	Lab Sample ID (Lab Use Only)					
W 4-29-14 0830 X W	-1	5	XX	1404000-001					
	NES								
	MB								
Turn around time Normal 25% Rust	□ 50% Rush 2 100% Rush								
Relingdished by (Signature) Date: Time: Received by: (Signature) Pate: Time: Received by: (Signature) Date: Time: Fisceived by: (Signature) Relinquished by (Signature) Date: Time: Received by: (Signature)		lature) Dat	D 14 1005	NOTES:					
Relinquished by (Signature) . Date:	Time: Received by: (Sign	nature) Dat	e: Time:						
Matrix WW - Wasterwater W - Water S - Soll SD - Solid L - Liquid A - Air Bag C - Charcotal tube SL - studge O - Oil Container VOA - 40 m² vial A/G - Amber / Or Glass 1 Liter 250 m² - Glass wide mouth P/O - Plastic or other									