OIL CONS. DIV DIST. 3

SEP 28 2015

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company **ConocoPhillips Company**	Contact **Lisa Hunter**	
Address **3401 East 30th St, Farmington, NM**	Telephone No. **(505) 326-9786**	
Facility Name: **AXI Apache N #13A**	Facility Type: **Gas Well**	
Surface Owner **Jicarilla**	Mineral Owner **Jicarilla**	API No. **3003922288**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	**02**	**25N**	**04W**	**1520**	**South**	**1050**	**East**	**Rio Arriba**

Latitude 36.42506 Longitude -107.21638

NATURE OF RELEASE

Type of Release **Hydrocarbon**	Volume of Release **Unknown**	Volume Recovered **2 cubic yds soil**
Source of Release **BGT**	Date and Hour of Occurrence **Unknown**	Date and Hour of Discovery **05/21/15 @ 12:00 PM**
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? **N/A**	
By Whom? **N/A**	Date and Hour **N/A**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. **N/A**	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
Below-Grade Tank Closure activities with samples taken resulting in constituents exceeded standards outlined by 19.15.17.13 NMAC.

Describe Area Affected and Cleanup Action Taken.*
Historical hydrocarbon impacted soil was found during the BGT closure for the subject well. The excavation was 6' x 4' x 1.5' in depth and 2 yds of soil was transported to IEI land farm and 2 yds of clean soil was transported from Jicarilla approved source and placed in the excavation site. Analytical results were below the regulatory standards – no further action required. The soil sampling report is attached for review.

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

Signature:	OIL CONSERVATION DIVISION Approved by Environmental Specialist:	
Printed Name: **Lisa Hunter**		
Title: **Field Environmental Specialist**	Approval Date: 11/9/15	Expiration Date:
E-mail Address: **Lisa.Hunter@cop.com**	Conditions of Approval:	Attached ☐
Date: **September 23, 2015** Phone: **(505) 326-9786**		

* Attach Additional Sheets If Necessary

#NCS 1531337454

Rule Engineering, LLC
Solutions to Regulations for Industry

September 22, 2015

Ms. Lisa Hunter
ConocoPhillips
San Juan Business Unit
5525 Highway 64
Farmington, New Mexico 87401

Re: Axi Apache N #13A
Below Grade Tank Closure Sampling and Release Report

Dear Ms. Hunter:

This report summarizes below grade tank (BGT) closure sampling and remedial activities conducted at the ConocoPhillips Axi Apache N #13A, located in Unit Letter I, Section 2, Township 25N, Range 4W in Rio Arriba County, New Mexico on the Jicarilla Apache Nation. Site activities included collection and analysis of a five-point composite soil closure sample from beneath the BGT, excavation of hydrocarbon impacted soils, and collection and analysis of an excavation confirmation sample. A topographic map of the location is included as Figure 1 and an aerial site map is included as Figure 2.

BGT/Release Summary
Site Name – Axi Apache N #13A
Location – Unit Letter I, Section 2, Township 25N, Range 4W
API Number – 30-039-22288
Wellhead Latitude/Longitude – N36.42523 and W107.21638
BGT Latitude/Longitude – N36.42506 and W107.21672
Land Jurisdiction – Jicarilla Apache Nation
Size of BGT – 45 barrels
Source of Release – historic (beneath the BGT east side)
Release Contents –unknown
Release Volume – unknown
Site Ranking – 20
Date of BGT Closure Soil Sampling – June 8, 2015
Date(s) of Rule Engineering, LLC (Rule) Field Work – June 8 and 12, 2015
Subcontractor(s) – CF&M
Amount of Contaminated Soil Excavated/Disposed – estimated 2 cubic yards

BGT Closure Standards
As outlined in 19.15.17.13 New Mexico Administrative Code (NMAC), BGT closure standards for the Axi Apache N #13A are as follows: 0.2 milligrams per kilogram (mg/kg) benzene, 50 mg/kg total benzene, toluene, ethylbenzene, and total xylenes (BTEX), and 100 mg/kg total petroleum hydrocarbons (TPH).

Site Ranking
The Axi Apache N #13A is located on the Jicarilla Apache Nation and follows recommendations from Jicarilla Apache Nation Environmental Protection Office (EPO). In accordance with EPO and New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases (August 1993), this site was assigned a ranking score of 20 (Table 1). Based on the ranking score of 20, action levels for remediated soils at the site are as follows: 10 mg/kg benzene, 50 mg/kg total BTEX, and 100 mg/kg TPH.

Depth to groundwater at the site was estimated to be 286 feet below ground surface (bgs) based on the elevation differential (286 feet) between the BGT location and the wash in Ojitos Canyon.

A review was completed of the New Mexico Office of the State Engineer online New Mexico Water Rights Reporting System and no water wells were identified within a 1,000 feet radius of the location.

The nearest surface water, an unnamed wash which drains to the Ojitos Canyon is located approximately 80 feet west of the BGT.

Field Activities
On June 8, 2015, Rule personnel conducted a visual inspection for surface/subsurface indications of a release. Soil discoloration and hydrocarbon odor was observed below the BGT along the eastern edge. No corrosion holes were visible in the BGT and the impacted soils were located 4 inches bgs, indicating that a historic release had occurred. Rule personnel then collected five soil samples (S-1 through S-5) from 0.5 feet beneath the BGT. The field work summary sheet is attached.

On the June 12, 2015, CF&M excavated the petroleum impacted materials from below the BGT. On June 12, 2015, Rule personnel collected one confirmation sample made up of samples from the sidewalls and base of the excavation. Approximately 2 cubic yards of impacted soils were removed from an area of excavation measuring approximately 6 feet x 4 feet x 1.5 (to 2.0) feet in depth. Figure 3 provides the locations and results of the soil sample collected during the excavation clearance.

BGT Soil Sampling
The five soil samples (S-1 through S-5) collected from below the BGT liner were combined to create soil confirmation sample SC-1 BGT. A portion of SC-1 BGT was field screened for volatile organic compounds (VOCs) and chlorides, and field analyzed for TPH per U.S. Environmental Protection Agency (USEPA) Method 418.1.

The portion of SC-1 BGT collected for laboratory analysis was placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico. The sample was analyzed for BTEX per USEPA Method 8021B, TPH per USEPA Method 418.1, and chlorides per USEPA Method 300.0.

Field sampling results for closure sample SC-1 BGT reported VOCs at 293 parts per million (ppm) and TPH concentrations at 1,070 mg/kg. Field chloride concentrations were reported at 80 mg/kg. Laboratory analytical results for sample SC-1 BGT reported benzene and total BTEX concentrations as less than 0.050 mg/kg and 0.2 mg/kg, respectively. Laboratory analytical results for SC-1 BGT reported concentrations of 480 mg/kg TPH and 170 mg/kg chloride. Field and laboratory results for SC-1 BGT are summarized in Table 2, and the analytical laboratory report is attached.

Excavation Soil Sampling

From the excavation, Rule collected one five-point composite sample (Excavation Composite) from the sidewalls and base. A portion of the composite soil sample was field screened for VOCs and field analyzed for TPH per USEPA Method 418.1.

The Excavation Composite collected for laboratory analysis was placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico. The sample was analyzed for BTEX per USEPA Method 8021B and TPH for gasoline range organics (GRO) and diesel range organics (DRO) per USEPA Method 8015D.

Field results for soil confirmation sample reported VOC and TPH concentrations below the NMOCD action levels of with 5.2 ppm and 99.9 mg/kg, respectively. Laboratory analytical results for soil confirmation Excavation Composite reported benzene, total BTEX, and TPH (GRO+DRO) concentrations below the applicable NMOCD action levels. Field sampling and laboratory analytical results are summarized in Table 3 and presented on Figure 3. The analytical laboratory report is attached.

Conclusions

On June 8, 2015, BGT closure sampling activities were conducted at the ConocoPhillips Axi Apache N 13A. Field and laboratory results for sample SC-1 BGT were reported below the BGT closure standards for benzene, total BTEX, and chlorides as outlined in 19.15.17.13.NMAC, but exceeded the BGT closure standard of 100 mg/kg for TPH. Based on field screening results a historic release was noted along the eastern portion of the BGT location.

On June 12, 2015, approximately 2 cubic yards of hydrocarbon contaminated soils were removed from within the impacted area. The final excavation measured 6

feet x 4 feet x 1.5 (to 2.0) feet in depth. On June 12, 2015, one confirmation soil sample was collected from the sidewalls and base of the final excavation.

Laboratory analytical results for soil confirmation sample, Excavation Composite, reported benzene and total BTEX concentrations below the NMOCD action levels of 10 mg/kg and 50 mg/kg, respectively. The field and laboratory TPH concentrations were both reported below the NMOCD action level of 100 mg/kg. Based on the field screening results, Hobson Sandoval, EPO representative, approved backfilling of the excavation on June 12, 2015. Based on laboratory analytical results, no further work is recommended.

Rule Engineering appreciates the opportunity to provide services to ConocoPhillips. If you have any questions, please contact me at (505) 325-1055.

Sincerely,
Rule Engineering, LLC

Heather M. Woods

Heather M. Woods, P.G.

Attachments:
Table 1. NMOCD Site Ranking Determination
Table 2. BGT Soil Sampling Results
Table 3. Excavation Soil Sampling Results
Figure 1. Topographic Map
Figure 2. Aerial Site Map
Figure 3. Excavation Clearance Soil Analytical Map
BGT Field Work Summary Sheet
Analytical Laboratory Reports (#1506962 and #1506818)

Table 1. NMOCD Site Ranking Determination
Axi Apache N #13A
Rio Arriba County, New Mexico
ConocoPhillips

Ranking Criteria	Ranking Score	Site-Based Ranking Score	Basis for Determination	Data Sources
Depth to Groundwater				
<50 feet	20	0	Elevation differential between location and wash in Ojitos Canyon south of the location is 286 feet.	NMOCD Online database,Schmitz Ranch Quadrangle, Google Earth, and Visual Inspection
50-99 feet	10			
>100 feet	0			
Wellhead Protection Area				
<1,000 feet from a water source, or <200 feet from private domestic water source	20 (Yes)	0	No water source or recorded water wells within 1,000 feet radius of location.	NMOSE NMWRRS, Schmitz Ranch Quadrangle, Google Earth, and Visual Inspection
	0 (No)			
Distance to Surface Water Body				
<200 horizontal feet	20	20	An unnamed wash which drains to wash in Ojitos Canyon is located approximately 80 feet west of the BGT.	Schmitz Ranch Quadrangle, Google Earth, and Visual Inspection
200 to 1,000 horizontal feet	10			
>1,000 horizontal feet	0			
Site Based Total Ranking Score		**20**		

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Table 2. BGT Soil Sampling Results
Axi Apache N #13A
Rio Arriba County, New Mexico
ConocoPhillips

Sample ID	Date	Sample Type	Sample Depth (ft below BGT)	Field Sampling Results			Laboratory Analytical Results			
				VOCs (PID) (ppm)	TPH (mg/kg)	Chloride (mg/kg)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
BGT Closure Standards*				**----**	**100**	**250**	**0.2**	**50**	**100**	**250**
SC-1 BGT	Jun 08, 15	composite	0.5	**293**	**1,070**	80	<0.050	0.17	**480**	170

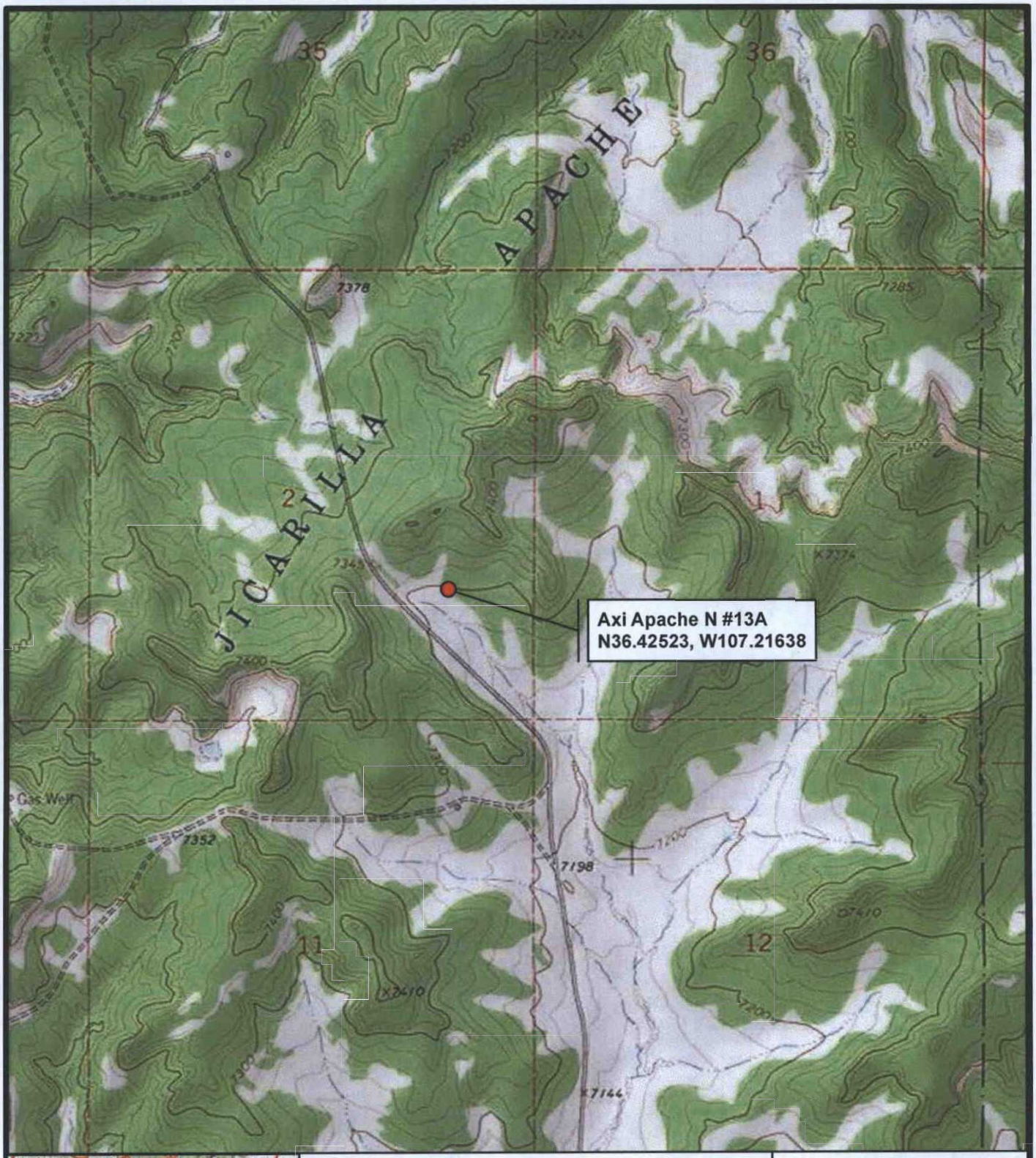
Notes: PID - photo-ionization detector
ppm - parts per million
mg/kg - milligrams/kilograms
VOCs - volatile organic compounds
TPH-total petroleum hydrocarbons per USEPA Method 418.1
BTEX - benzene, toluene, ethylbenzene, and total xylenes
*19.15.17.13 NMAC

Table 3. Excavation Soil Sampling Results
Axi Apache N #13A
Rio Arriba County, New Mexico
ConocoPhillips

Sample ID	Date	Sample Depth (ft below BGT)	VOCs* (PID) (ppm)	TPH* (418.1) (mg/kg)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)
EPO/NMOCD Action Levels**			**100**	**100**	**10**	**50**	**100**	
Excavation Composite	Jun 12, 15	1.5 to 2	5.2	99.9	<0.049	<0.245	<4.9	50

Notes:

* field results
VOCs - volatile organic compounds
PID - photo-ionization detector
ppm - parts per million
mg/kg - milligrams/kilograms
TPH-total petroleum hydrocarbons
BTEX - benzene, toluene, ethylbenzene, and xylenes
TPH-GRO - total petroleum hydrocarbons-gasoline range organics
TPH-DRO - total petroleum hydrocarbons-diesel range organics
**Based on NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (1993), site rank of 20.



ConocoPhillips

0 0.125 0.25 0.5 0.75 1
Miles

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9/22/2015

1:24,000

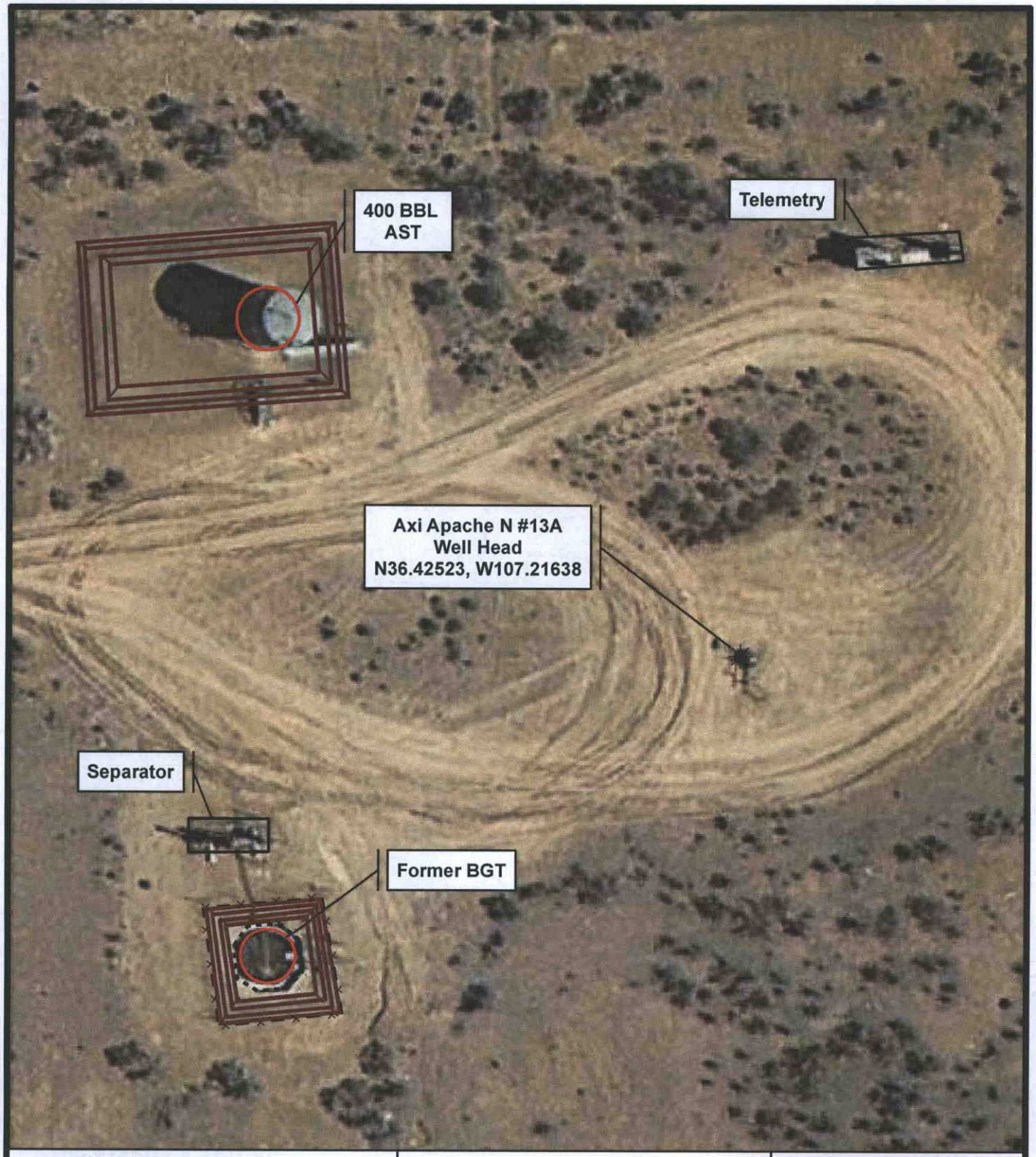
Topographic Site Map

ConocoPhillips
Axi Apache N #13A
API: 30-039-22288

Figure 1

I-2-T25N-R04W
N36.42523, W107.21638
Schmitz Ranch Quadrangle
Rio Arriba County, New Mexico

Document Name: 150927 Axi Apache N 13A Topo Map



Legend

Well Head | Berm

Fence | Storage Tanks

Cribbing

9/22/2015 1:412

ConocoPhillips

0 10 20 40 60 80

Feet

N

Rule Engineering, LLC

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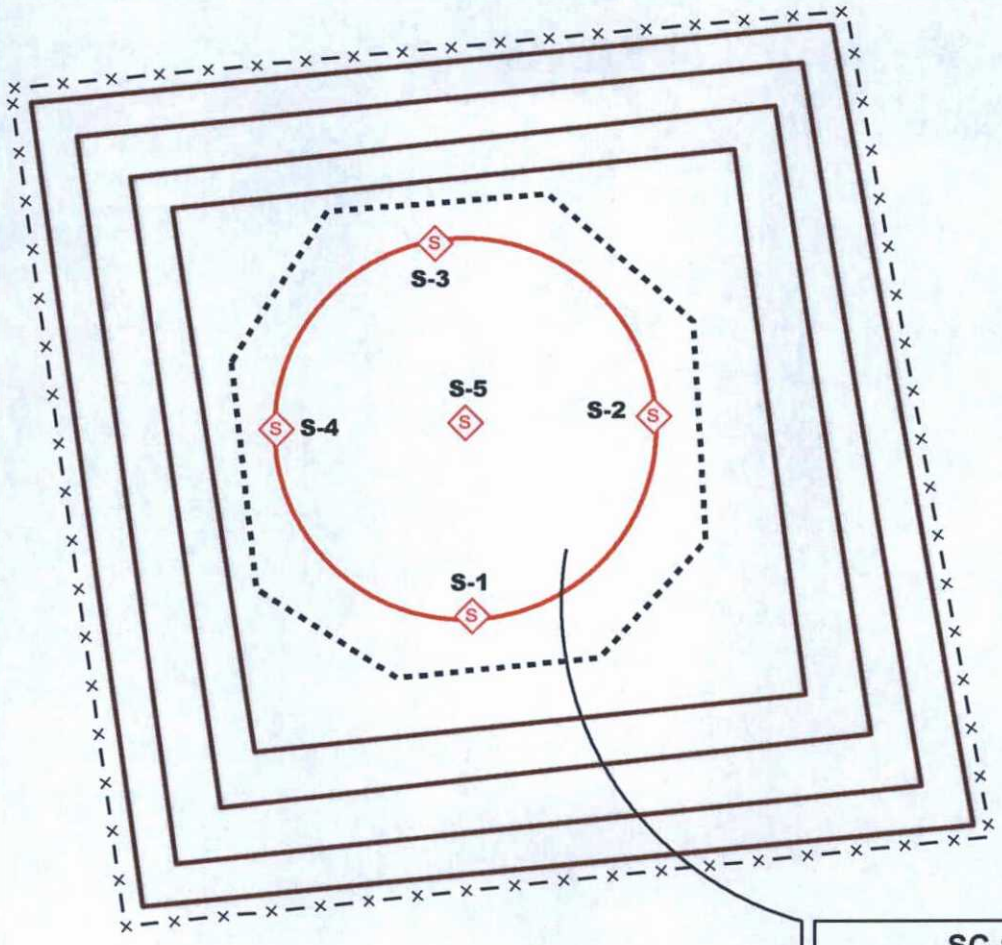
Aerial Site Map

ConocoPhillips
Axi Apache N #13A
API: 30-039-22288

Figure 2

I-2-T25N-R04W
N36.42523, W107.21638
Rio Arriba County, New Mexico

Document Name: 150917 Axi Apache N 13A Aerial Site Map



SC-1
6/8/2015
Benzene <0.005 mg/kg
Total BTEX 0.17 mg/kg
Chloride 170 mg/kg
TPH 480 mg/kg

NOTES: SC-1 is a five part composite comprised of aliquots taken from S-1 through S-5
BTEX= benzene, toluene, ethylbenzene, and xylenes
TPH= total petroleum hydrocarbons

Legend

Soil Sample
Berm
Fence
UST
Cribbing

9/22/2015 1:81

ConocoPhillips

0 2 4 8 12 16
Feet

N

Rule Engineering, LLC
Solutions to Regulations for Industry

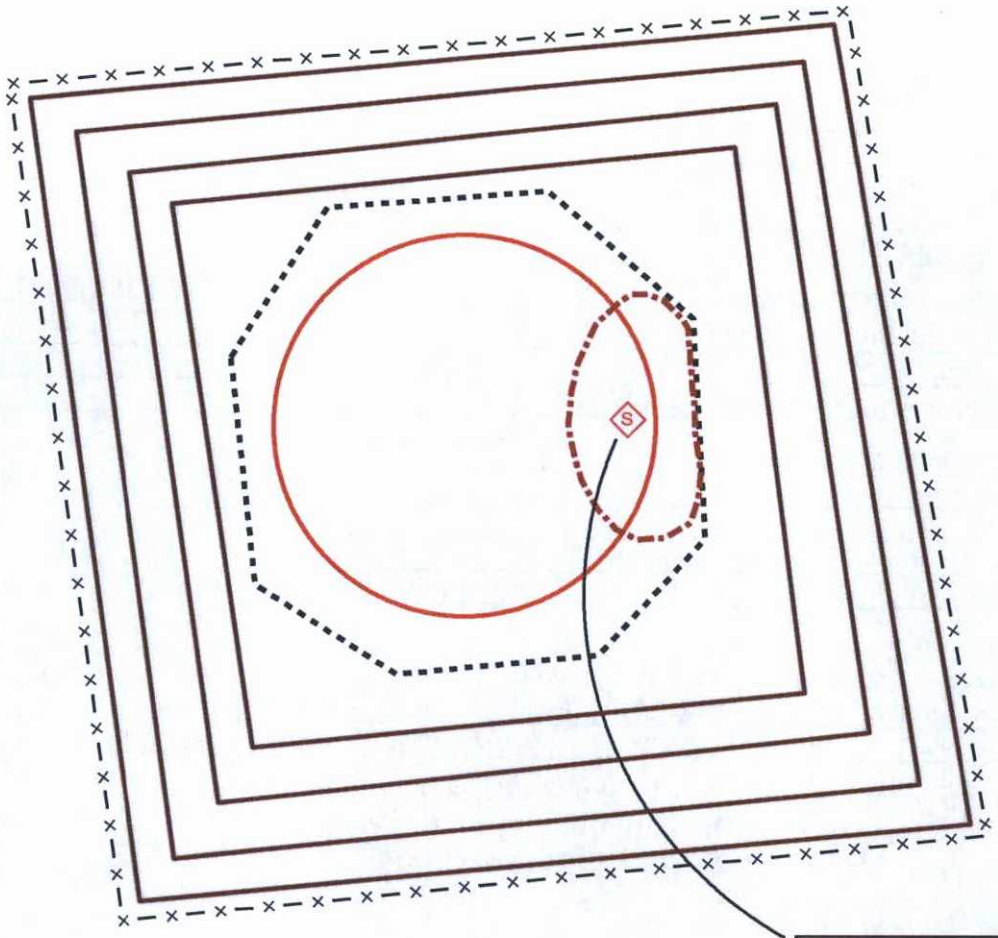
BGT Soil Analytical Map

ConocoPhillips
Axi Apache N #13A
API: 30-039-22288

Figure 3

I-2-T25N-R04W
N36.42523, W107.21638
Rio Arriba County, New Mexico

Document Name: 150917 Axi Apache N 13A BGT Soil Analytical Map



Excavation Composite
7/12/2015
Benzene <0.049 mg/kg
Total BTEX <0.245 mg/kg
TPH-GRO <4.9 mg/kg
TPH-DRO 50 mg/kg

NOTES:Excavation composite is a five point composite
BTEX= benzene, toluene, ethylbenzene, and xylenes
TPH= total petroleum hydrocarbons
GRO= gasoline range organics
DRO= diesel range organics

Legend

- Soil Sample
- BGT
- Fence
- Berm
- Excavation Extents
- Cribbing

9/22/2015 1:81

ConocoPhillips

0 2 4 8 12 16 Feet

N

Rule Engineering, LLC
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Excavation Soil Analytical Map

ConocoPhillips
Axi Apache N #13A
API: 30-039-22288

Figure 4

I-2-T25N-R04W
N36.42523, W107.21638
Rio Arriba County, New Mexico

Document Name: 150917 Axi Apache N 13A Excavation Soil Analytical Map.pdf

Rule Engineering Field Work Summary Sheet

Date:	8-Jun-15
Staff:	Debbie Watson

Company:	ConocoPhillips
Location:	Axi Apache N #13A
API:	30-039-22288
Legals:	I-S02-T25N-R4W
County:	Rio Arriba
Land Jurisdiction:	Jicarilla Apache Nation

Wellhead GPS: 36.42523, -107.21638

BGT GPS: 36.42506, -107.21672

Siting Information based on BGT Location: Site Rank 20

Groundwater: Elevation differential (>100 ft)

Surface Water: Unnamed wash located 80 ft W of BGT

Wellhead Protection: No wells identified within 1,000 ft of location

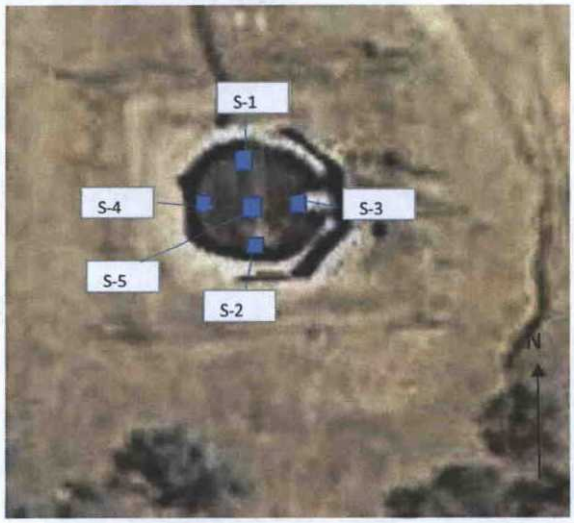
Objective:	Closure sampling for BGT
Tank Size:	Tank removed
Liner:	No liner
Observations:	Staining observed along east portion of BGT. Stained soil included in sample.
Notes:	Following BGT sampling , excavation of impacted soils along east side.

Field Sampling Information

Name	Type of Sample	Collection Time	Collection Location	VOCs[1] (ppm)	VOCs time	TPH[2] mg/kg	TPH Time	Chloride[3] mg/kg	Chloride Time
SC-1	Composite	9:50	See below	**293**	10:00	**1,070**	10:23	80	10:18

SC-1 is a 5-point composite of S-1 through S-5, collected 0.5 ft below BGT.

Sample SC-1 was laboratory analyzed for TPH (418.1), BTEX (8021) and chlorides (300.0).



Field Sampling Notes:

[1] Field screening for volatile organic compounds (VOC) vapors was conducted with a photo-ionization detector (PID). Before beginning field screening, the PID was calibrated with 100 parts per million (ppm) isobutylene gas.

[2] Field analysis for TPH was conducted using a total hydrocarbon analyzer. Prior to field analysis, the machine was calibrated following the manufacturer's procedure which includes calculation of a calibration curve using known concentration standards.

[3] Field screening for chlorides was conducted using the Hach chloride low range test kit. Chloride concentrations are determined by drop count titration method using silver nitrate titrant.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

June 24, 2015

Deborah Watson
Rule Engineering LLC
501 Airport Dr., Ste 205
Farmington, NM 87401
TEL: (505) 860-2712
FAX

RE: Axi Apache N 13A OrderNo.: 1506962

Dear Deborah Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/16/2015 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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1506962**
Date Reported: **6/24/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC
Project: Axi Apache N 13A
Lab ID: 1506962-001 **Matrix:** SOIL

Client Sample ID: SC-1
Collection Date: 6/8/2015 9:50:00 AM
Received Date: 6/16/2015 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH						Analyst: **TOM**	
Petroleum Hydrocarbons, TR	480	20		mg/Kg	1	6/19/2015	19823
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	170	7.5		mg/Kg	5	6/22/2015 11:30:10 AM	19854
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.050		mg/Kg	1	6/22/2015 11:49:21 AM	19822
Toluene	ND	0.050		mg/Kg	1	6/22/2015 11:49:21 AM	19822
Ethylbenzene	ND	0.050		mg/Kg	1	6/22/2015 11:49:21 AM	19822
Xylenes, Total	0.17	0.099		mg/Kg	1	6/22/2015 11:49:21 AM	19822
Surr: 4-Bromofluorobenzene	113	80-120		%REC	1	6/22/2015 11:49:21 AM	19822

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1506962**

24-Jun-15

Client: Rule Engineering LLC
Project: Axi Apache N 13A

Sample ID	**MB-19854**	SampType: **MBLK**			TestCode: **EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID: **19854**			RunNo: **27009**					
Prep Date:	**6/22/2015**	Analysis Date: **6/22/2015**			SeqNo: **806753**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-19854**	SampType: **LCS**			TestCode: **EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID: **19854**			RunNo: **27009**					
Prep Date:	**6/22/2015**	Analysis Date: **6/22/2015**			SeqNo: **806754**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.9	90	110			

Sample ID	**1506962-001AMS**	SampType: **MS**			TestCode: **EPA Method 300.0: Anions**					
Client ID:	**SC-1**	Batch ID: **19854**			RunNo: **27009**					
Prep Date:	**6/22/2015**	Analysis Date: **6/22/2015**			SeqNo: **806756**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	190	7.5	15.00	173.7	99.8	64.2	131			

Sample ID	**1506962-001AMSD**	SampType: **MSD**			TestCode: **EPA Method 300.0: Anions**					
Client ID:	**SC-1**	Batch ID: **19854**			RunNo: **27009**					
Prep Date:	**6/22/2015**	Analysis Date: **6/22/2015**			SeqNo: **806757**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	190	7.5	15.00	173.7	115	64.2	131	1.21	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
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1506962**

24-Jun-15

Client: Rule Engineering LLC
Project: Axi Apache N 13A

Sample ID **MB-19823**	SampType: **MBLK**			TestCode: **EPA Method 418.1: TPH**						
Client ID: **PBS**	Batch ID: **19823**			RunNo: **26959**						
Prep Date: **6/19/2015**	Analysis Date: **6/19/2015**			SeqNo: **805089**		Units: **mg/Kg**				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	ND	20								

Sample ID **LCS-19823**	SampType: **LCS**			TestCode: **EPA Method 418.1: TPH**						
Client ID: **LCSS**	Batch ID: **19823**			RunNo: **26959**						
Prep Date: **6/19/2015**	Analysis Date: **6/19/2015**			SeqNo: **805090**		Units: **mg/Kg**				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	100	20	100.0	0	99.8	86.7	126			

Sample ID **LCSD-19823**	SampType: **LCSD**			TestCode: **EPA Method 418.1: TPH**						
Client ID: **LCSS02**	Batch ID: **19823**			RunNo: **26959**						
Prep Date: **6/19/2015**	Analysis Date: **6/19/2015**			SeqNo: **805091**		Units: **mg/Kg**				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	100	20	100.0	0	99.8	86.7	126	0	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
- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1506962**

24-Jun-15

Client: Rule Engineering LLC

Project: Axi Apache N 13A

Sample ID **MB-19822**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **19822**	RunNo: **27003**
Prep Date: **6/19/2015**	Analysis Date: **6/22/2015**	SeqNo: **806550** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.91		1.000		90.7	80	120			

Sample ID **LCS-19822**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **19822**	RunNo: **27003**
Prep Date: **6/19/2015**	Analysis Date: **6/22/2015**	SeqNo: **806551** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	104	76.6	128			
Toluene	0.99	0.050	1.000	0	99.0	75	124			
Ethylbenzene	1.0	0.050	1.000	0	103	79.5	126			
Xylenes, Total	3.1	0.10	3.000	0	102	78.8	124			
Surr: 4-Bromofluorobenzene	0.96		1.000		96.2	80	120			

Sample ID **1506962-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SC-1**	Batch ID: **19822**	RunNo: **27003**
Prep Date: **6/19/2015**	Analysis Date: **6/22/2015**	SeqNo: **806553** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.050	0.9901	0	96.0	69.2	126			
Toluene	0.94	0.050	0.9901	0.04471	90.5	65.6	128			
Ethylbenzene	1.1	0.050	0.9901	0.1842	89.8	65.5	138			
Xylenes, Total	3.1	0.099	2.970	0.2219	98.4	63	139			
Surr: 4-Bromofluorobenzene	1.2		0.9901		117	80	120			

Sample ID **1506962-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SC-1**	Batch ID: **19822**	RunNo: **27003**
Prep Date: **6/19/2015**	Analysis Date: **6/22/2015**	SeqNo: **806554** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.049	0.9891	0	96.3	69.2	126	0.248	18.5	
Toluene	0.94	0.049	0.9891	0.04471	90.5	65.6	128	0.0548	20.6	
Ethylbenzene	1.1	0.049	0.9891	0.1842	91.6	65.5	138	1.50	20.1	
Xylenes, Total	3.2	0.099	2.967	0.2219	99.6	63	139	1.02	21.1	
Surr: 4-Bromofluorobenzene	1.2		0.9891		118	80	120	0	0	

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: RULE ENGINEERING LL Work Order Number: 1506962 RcptNo: 1

Received by/date: AT/LM 06/16/15

Logged By: Anne Thorne 6/16/2015 7:30:00 AM

Completed By: Anne Thorne 6/19/2015

Reviewed By: 06/19/15

Chain of Custody

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

Log In

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

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

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

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

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good	Yes			

Chain-of-Custody Record

Client: Rule Engineering LLC

Mailing Address: 501 Airport Drive, Suite 205
Farmington, NM 87401

Phone #: 505-860-2712

email or Fax#: dwatson@ruleengineering.com

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

Accreditation:
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Axi Apache N 13A

Project #:

Project Manager: D. Watson

Sampler: D Watson

On Ice ☑ Yes ☐ No

Sample Temperature: 1.5

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1506962	BTEX + ~~MTBE + TMB's~~ (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	300.0 Chloride				Air Bubbles (Y or N)
6-8-15	950	Soil	SC-1	1-4oz	Cold	-001	X			X								X				

Date	Time	Relinquished by:	Received by:	Date	Time
6/15/15	1659	Deborah Watson	Christine Waite	6/15/15	1659
6/15/15	1804	Christine Waite	[signature]	06/16/15	0720

Remarks: ~~Bill to ConocoPhillips~~ A
Per DW analyze 4 incomplete/AT 06/19/15

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

June 23, 2015

Deborah Watson
Rule Engineering LLC
501 Airport Dr., Ste 205
Farmington, NM 87401
TEL: (505) 860-2712
FAX

RE: Axi Apache N 13A OrderNo.: 1506818

Dear Deborah Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/16/2015 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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1506818**
Date Reported: **6/23/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC
Project: Axi Apache N 13A
Lab ID: 1506818-001 **Matrix:** SOIL

Client Sample ID: Excavation Comp
Collection Date: 6/12/2015 11:15:00 AM
Received Date: 6/16/2015 7:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	50	9.8		mg/Kg	1	6/19/2015 2:28:11 PM	19771
Surr: DNOP	103	57.9-140		%REC	1	6/19/2015 2:28:11 PM	19771
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/19/2015 5:32:28 PM	19798
Surr: BFB	85.5	75.4-113		%REC	1	6/19/2015 5:32:28 PM	19798
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.049		mg/Kg	1	6/19/2015 5:32:28 PM	19798
Toluene	ND	0.049		mg/Kg	1	6/19/2015 5:32:28 PM	19798
Ethylbenzene	ND	0.049		mg/Kg	1	6/19/2015 5:32:28 PM	19798
Xylenes, Total	ND	0.098		mg/Kg	1	6/19/2015 5:32:28 PM	19798
Surr: 4-Bromofluorobenzene	87.2	80-120		%REC	1	6/19/2015 5:32:28 PM	19798

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1506818**

23-Jun-15

Client: Rule Engineering LLC
Project: Axi Apache N 13A

Sample ID **MB-19771**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **19771**	RunNo: **26936**
Prep Date: **6/17/2015**	Analysis Date: **6/19/2015**	SeqNo: **804485** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.1		10.00		90.8	57.9	140			

Sample ID **LCS-19771**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **19771**	RunNo: **26936**
Prep Date: **6/17/2015**	Analysis Date: **6/19/2015**	SeqNo: **804486** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	67.8	130			
Surr: DNOP	4.8		5.000		95.3	57.9	140			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1506818**

23-Jun-15

Client: Rule Engineering LLC
Project: Axi Apache N 13A

Sample ID **1506818-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **Excavation Comp**	Batch ID: **19798**	RunNo: **26956**
Prep Date: **6/18/2015**	Analysis Date: **6/19/2015**	SeqNo: **805452** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	4.9	24.51	0	119	47.9	144			
Surr: BFB	930		980.4		95.2	75.4	113			

Sample ID **1506818-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **Excavation Comp**	Batch ID: **19798**	RunNo: **26956**
Prep Date: **6/18/2015**	Analysis Date: **6/19/2015**	SeqNo: **805453** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	4.9	24.56	0	123	47.9	144	4.13	29.9	
Surr: BFB	950		982.3		96.6	75.4	113	0	0	

Sample ID **LCS-19798**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **19798**	RunNo: **26956**
Prep Date: **6/18/2015**	Analysis Date: **6/19/2015**	SeqNo: **805455** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	64	130			
Surr: BFB	940		1000		94.4	75.4	113			

Sample ID **MB-19798**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **19798**	RunNo: **26956**
Prep Date: **6/18/2015**	Analysis Date: **6/19/2015**	SeqNo: **805456** 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		88.8	75.4	113			

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 Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1506818**

23-Jun-15

Client: Rule Engineering LLC

Project: Axi Apache N 13A

Sample ID **LCS-19798**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **19798**	RunNo: **26956**
Prep Date: **6/18/2015**	Analysis Date: **6/19/2015**	SeqNo: **805465** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	102	76.6	128			
Toluene	0.99	0.050	1.000	0	99.0	75	124			
Ethylbenzene	1.0	0.050	1.000	0	102	79.5	126			
Xylenes, Total	3.0	0.10	3.000	0	100	78.8	124			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.7	80	120			

Sample ID **MB-19798**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **19798**	RunNo: **26956**
Prep Date: **6/18/2015**	Analysis Date: **6/19/2015**	SeqNo: **805466** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		89.5	80	120			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: RULE ENGINEERING LL Work Order Number: 1506818 RcptNo: 1

Received by/date: KM 06/16/15

Logged By: Ashley Gallegos 6/16/2015 7:20:00 AM

Completed By: Ashley Gallegos 6/17/2015 12:48:49 PM

Reviewed By: JR 06/18/15

Chain of Custody

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

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	# of preserved bottles checked for pH: (<2 or >12 unless noted)
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by:

Special Handling (if applicable)

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

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.8	Good	Yes			

Chain-of-Custody Record

Client: Rule Engineering LLC

Mailing Address: 501 Airport Drive, Suite 205
Farmington, NM 87401

Phone #: 505-860-2712

email or Fax#: dwatson@ruleengineering.com

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

Accreditation:
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name: Axi Apache N 13A

Project #:

Project Manager: D. Watson

Sampler: D Watson

On Ice: ☒ Yes ☐ No

Sample Temperature: 1-8

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1506818	BTEX + ~~MTBE~~ + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
6-12-15	1115	Soil	Excavation Comp	1-4oz	cool	-001	X		X													

Date	Time	Relinquished by:	Received by:	Date	Time
6/15/15	1659	Deborah Watson	Christine Walters	6/15/15	1659
6/15/15	1804	Christine Walters		06/16/15	0720

Remarks: Bill to ConocoPhillips

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