

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

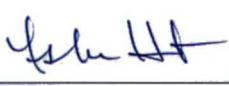

Name of Company ConocoPhillips Company	Contact Lisa Hunter	
Address 3401 East 30th St, Farmington, NM	Telephone No. (505) 258-1607	
Facility Name: San Juan 29-6 Unit 9A	Facility Type: Gas Well	
Surface Owner State	Mineral Owner State (E-289-3)	API No. 3003921311

LOCATION OF RELEASE

Unit Letter E	Section 36	Township 29N	Range 06W	Feet from the 1460	North/South Line North	Feet from the 800	East/West Line West	County Rio Arriba
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Latitude **36.68548** Longitude **-107.42058**

NATURE OF RELEASE

Type of Release Hydrocarbon	Volume of Release Unknown	Volume Recovered 0
Source of Release Below Grade Tank (BGT)	Date and Hour of Occurrence Unknown	Date and Hour of Discovery
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour N/A	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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.* The below grade tank field sample results were above regulatory standard by for Organic Vapors, confirming a possible release. The sample was then transported to the lab and analytical results were below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Release; therefore no further action is 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	
Printed Name: Lisa Hunter	Approved by Environmental Specialist: 	
Title: Field Environmental Specialist	Approval Date: 12/08/2016	Expiration Date:
E-mail Address: Lisa.Hunter@cop.com	Conditions of Approval: NF1634341163	Attached <input type="checkbox"/>
Date: November 7, 2016	Phone: (505) 258-1607	

* Attach Additional Sheets If Necessary

Rule Engineering, LLC

Solutions to Regulations for Industry

November 11, 2016

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

**Re: San Juan 29-6 #9A
Below Grade Tank Closure Sampling Report**

Dear Ms. Hunter:

This report summarizes the below grade tank (BGT) closure sampling activities conducted by Rule Engineering, LLC (Rule) at the ConocoPhillips San Juan 29-6 #9A located in Unit Letter E, Section 36, Township 29N, Range 6W in Rio Arriba County, New Mexico. Activities included collection and analysis of a 5-point composite soil confirmation sample from beneath the BGT on August 4, 2016. A topographic map of the location is included as Figure 1 and an aerial site map is included as Figure 2.

BGT Summary

Site Name – San Juan 29-6 #9A

Location – Unit Letter E, Section 36, Township 29N, Range 6W

API Number – 30-039-21311

Wellhead Latitude/Longitude – N36.68536 and W107.42069

BGT Latitude/Longitude – N36.68548 and W107.42058

Land Jurisdiction – State of New Mexico

Size of BGT – 120 barrels

Date of BGT Closure Soil Sampling – August 4, 2016

BGT Closure Standards

As outlined in 19.15.17.13 New Mexico Administrative Code (NMAC), BGT closure standards for the San Juan 29-6 #9A are as follows: 0.2 milligrams per kilogram (mg/kg) benzene, 50 mg/kg total benzene, toluene, ethylbenzene, and total xylenes (BTEX), 100 mg/kg total petroleum hydrocarbons (TPH), and 250 mg/kg chlorides.

Field Activities

On August 4, 2016, following removal of the BGT and liner, Rule personnel conducted a visual inspection for surface/subsurface indications of a release. Accumulated rainwater was present above the liner and some gray staining was observed in soils below the liner. Rule personnel then collected five soil samples (S-1 through S-5) from 0.5 feet beneath the floor of the BGT excavation. Figure 2

provides the location of the soil samples collected from below the BGT. The field work summary sheet is attached.

Soil Sampling

The five soil samples (S-1 through S-5) collected from below the floor of the BGT excavation were combined to create soil confirmation sample SC-1. A portion of SC-1 was field screened for volatile organic compounds (VOCs) and chlorides, and field analyzed for TPH.

Field screening for VOC vapors was conducted with a photo-ionization detector (PID). Prior to field screening, the PID was calibrated with 100 parts per million (ppm) isobutylene gas. Field analysis for TPH was conducted per U.S. Environmental Protection Agency (USEPA) Method 418.1, utilizing 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. Field screening for chloride was conducted using the Hach chloride low range test kit. Chloride concentrations were determined by drop count titration method using silver nitrate titrant.

The portion of SC-1 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 8015D, and chlorides per USEPA Method 300.0.

Field and Analytical Results

Field sampling results for soil confirmation sample SC-1 indicated a VOC concentration greater than 100 ppm and a TPH concentration of 92.6 mg/kg. Field chloride concentrations were reported at 60 mg/kg.

Laboratory analytical results for sample SC-1 reported the benzene concentration below the laboratory reporting limit of 0.024 mg/kg and a total BTEX concentration of 0.23 mg/kg. Laboratory analytical results for SC-1 reported the TPH concentrations below the laboratory reporting limit of 20 mg/kg by USEPA Method 418.1, below the laboratory reporting limit of 9.2 mg/kg as DRO per USEPA Method 8015D, and 9.2 mg/kg GRO by USEPA Method 8015D. The laboratory analytical result for SC-1 for chloride concentration was below the laboratory reporting limit of 7.5 mg/kg. Field and laboratory results for SC-1 are summarized in Table 1, and the analytical laboratory report is attached.

Conclusions

On August 4, 2016, BGT closure sampling activities were conducted at the ConocoPhillips San Juan 29-6 #9A. Field and laboratory results for confirmation sample SC-1 were reported below the BGT closure standards for benzene, total BTEX, TPH, and chlorides as outlined in 19.15.17.13 NMAC. Based on field

Ms. Lisa Hunter
San Juan 29-6 #9A
November 7, 2016
Page 3 of 3

sampling results, a release of hydrocarbons may have occurred from the BGT; however, laboratory analytical results for benzene, total BTEX, TPH, and chlorides concentrations are below NMOCD BGT closure standards. Therefore, 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, P.G.
Area Manager/Geologist

Attachments:

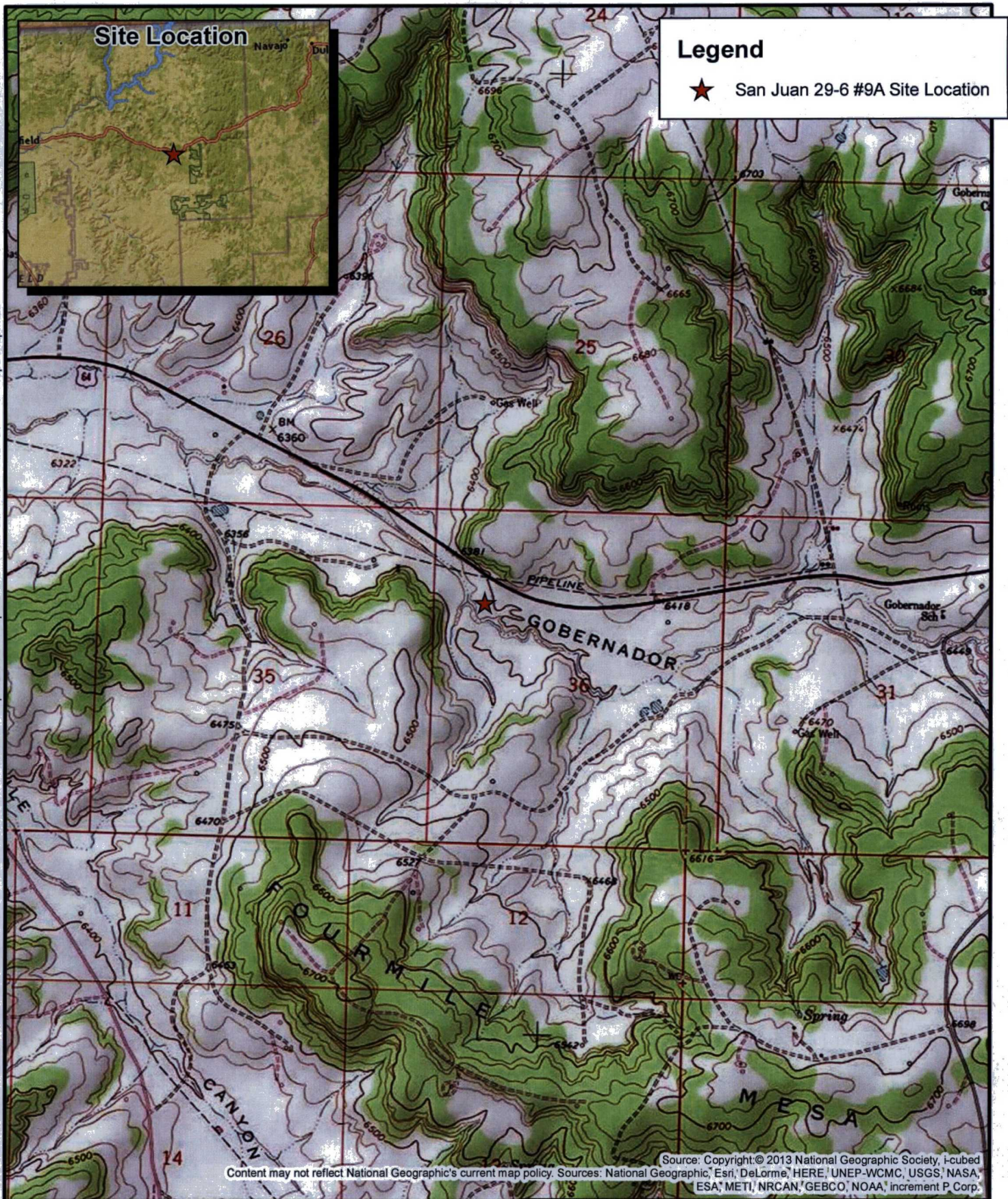
Table 1. BGT Soil Sampling Results
Figure 1. Topographic Map
Figure 2. Aerial Site Map
Field Work Summary Sheet
Analytical Laboratory Report

Table 1. BGT Soil Sampling Results
ConocoPhillips
San Juan 29-6 #9A
Rio Arriba County, New Mexico

Sample ID	Date	Sample Type	Sample Depth (ft below BGT liner)	Field Sampling Results			Laboratory Analytical Results					
				VOCs (PID) (ppm)	TPH - 418.1 (mg/kg)	Chloride** (mg/kg)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH - 418.1 (mg/kg)	TPH - GRO (mg/kg)	TPH - DRO (mg/kg)	Chloride*** (mg/kg)
BGT Closure Standards*				--	100	250	0.2	50	100	100		250
SC-1	8/4/16	Composite	0.5	>100	92.6	60	<0.024	0.23	<20	9.2	<9.2	<7.5

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
 **Per Hach chloride low-range test kit
 ***Per USEPA Method 300.0 chlorides

Document Path: U:\ConocoPhillips\ConocoPhillips\San Juan 29-6 #9A\San Juan 29-6 #9A Topo Map.mxd



Rule Engineering, LLC
Solutions to Regulations for Industry

0 0.225 0.45 0.9 Miles
Fourmile Canyon Quadrangle
1:24,000

ConocoPhillips

E-S36-T29N-R06W
N36.68548, W107.42058
Rio Arriba County, NM
API: 30-039-21311

Figure 1
Topographic Site Map
San Juan 29-6 #9A

Legend

- ★ San Juan 29-6 #9A Wellhead Monument
- ◇ Soil Sample Locations
- Berm

Below Grade Tank
GPS: N36.68548, W107.42058

San Juan 29-6 #9A Wellhead Monument
GPS: N36.68536, W107.42069

Above
Grade
Tank

Above
Grade
Tank

Source: Google Maps

Rule Engineering, LLC
Solutions to Regulations for Industry

0 3 6 12 18 24 Feet
1 inch = 10 feet

ConocoPhillips

E-S36-T29N-R06W
N36.68548, W107.42058
Rio Arriba County, NM
API: 30-039-21311

Figure 2
Aerial Site Map
San Juan 29-6 #9A

Rule Engineering Field Work Summary Sheet

Company: ConocoPhillips

Location: San Juan 29-6 #9A

API: 30-039-21311

Legals: E-S36-T29N-R6W

County: Rio Arriba

Land Jurisdiction: State of New Mexico

Date: 8/4/16

Staff: Justin Valdez

Wellhead GPS: 36.68536, -107.42069

BGT GPS: 36.68548, -107.42058

Siting Information based on BGT Location:

Site Rank **10**

Groundwater: Estimated to be 131 feet below grade surface, based on elevation differential and local cathodic well reports.

Surface Water: The wash of Gobernador Canyon is located approximately 200 feet southwest of the BGT location.

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

Objective: Closure sampling for BGT

Tank Size: 120 barrels, removed during closure activities

Liner: Liner present, removed during closure activities

Observations: Accumulated rainwater present above liner, some staining observed in soils below the liner.

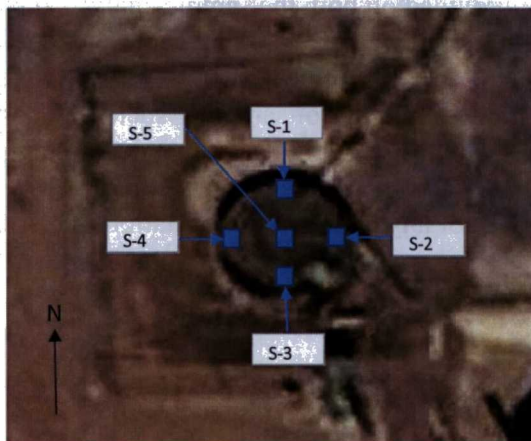
Notes:

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	11:30	See below	>100	11:37	92.6	12:15	60	12:20

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 (8015 and 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
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

August 10, 2016

Heather Woods

Rule Engineering LLC
501 Airport Dr., Ste 205
Farmington, NM 87401
TEL: (505) 325-1055
FAX

RE: SJ 29-6 #9A

OrderNo.: 1608317

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/5/2016 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1608317

Date Reported: 8/10/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Client Sample ID: SC-1

Project: SJ 29-6 #9A

Collection Date: 8/4/2016 11:30:00 AM

Lab ID: 1608317-001

Matrix: SOIL

Received Date: 8/5/2016 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 418.1: TPH							Analyst: MAB
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	8/8/2016	26812
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	7.5		mg/Kg	5	8/8/2016 3:54:25 PM	26851
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	8/8/2016 10:49:10 AM	26824
Surr: DNOP	89.0	70-130		%Rec	1	8/8/2016 10:49:10 AM	26824
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	9.2	4.8		mg/Kg	1	8/8/2016 8:56:54 PM	26818
Surr: BFB	159	49.4-163		%Rec	1	8/8/2016 8:56:54 PM	26818
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	8/8/2016 8:56:54 PM	26818
Toluene	ND	0.048		mg/Kg	1	8/8/2016 8:56:54 PM	26818
Ethylbenzene	ND	0.048		mg/Kg	1	8/8/2016 8:56:54 PM	26818
Xylenes, Total	0.23	0.097		mg/Kg	1	8/8/2016 8:56:54 PM	26818
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	8/8/2016 8:56:54 PM	26818

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1608317

10-Aug-16

Client: Rule Engineering LLC

Project: SJ 29-6 #9A

Sample ID	MB-26851	SampType:	mblk		TestCode:	EPA Method 300.0: Anions				
Client ID:	PBS	Batch ID:	26851		RunNo:	36324				
Prep Date:	8/8/2016	Analysis Date:	8/8/2016		SeqNo:	1125060	Units:	mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-26851	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	26851	RunNo:	36324					
Prep Date:	8/8/2016	Analysis Date:	8/8/2016	SeqNo:	1125061	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.9	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1608317

10-Aug-16

Client: Rule Engineering LLC

Project: SJ 29-6 #9A

Sample ID	MB-26812	SampType	MBLK	TestCode	EPA Method 418.1: TPH					
Client ID	PBS	Batch ID	26812	RunNo	36293					
Prep Date	8/5/2016	Analysis Date	8/8/2016	SeqNo	1124223	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-26812	SampType	LCS	TestCode	EPA Method 418.1: TPH					
Client ID	LCSS	Batch ID	26812	RunNo	36293					
Prep Date	8/5/2016	Analysis Date	8/8/2016	SeqNo	1124224	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	110	20	100.0	0	107	80.7	121			

Sample ID	LCSD-26812	SampType	LCSD	TestCode	EPA Method 418.1: TPH					
Client ID	LCSS02	Batch ID	26812	RunNo	36293					
Prep Date	8/5/2016	Analysis Date	8/8/2016	SeqNo	1124225	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	110	20	100.0	0	109	80.7	121	1.33	20	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1608317

10-Aug-16

Client: Rule Engineering LLC

Project: SJ 29-6 #9A

Sample ID	MB-26824	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	26824	RunNo:	36290					
Prep Date:	8/8/2016	Analysis Date:	8/8/2016	SeqNo:	1124202	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	8.7		10.00		86.6	70	130			

Sample ID	LCS-26824	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	26824	RunNo:	36290					
Prep Date:	8/8/2016	Analysis Date:	8/8/2016	SeqNo:	1124203	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	80.6	62.6	124			
Surr: DNOP	4.1		5.000		81.9	70	130			

Sample ID	1608317-001AMS	SampType:	MS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	SC-1	Batch ID:	26824	RunNo:	36292					
Prep Date:	8/8/2016	Analysis Date:	8/8/2016	SeqNo:	1124467	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.05	2.327	97.4	33.9	141			
Surr: DNOP	4.8		5.005		95.6	70	130			

Sample ID	1608317-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	SC-1	Batch ID:	26824	RunNo:	36292					
Prep Date:	8/8/2016	Analysis Date:	8/8/2016	SeqNo:	1124468	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59	10	50.81	2.327	111	33.9	141	14.2	20	
Surr: DNOP	5.0		5.081		98.4	70	130	0	0	

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1608317

10-Aug-16

Client: Rule Engineering LLC

Project: SJ 29-6 #9A

Sample ID	MB-26818	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	26818	RunNo:	36301					
Prep Date:	8/5/2016	Analysis Date:	8/8/2016	SeqNo:	1124720	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		105	49.4	163			

Sample ID	LCS-26818	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	26818	RunNo:	36301					
Prep Date:	8/5/2016	Analysis Date:	8/8/2016	SeqNo:	1124721	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	108	80	120			
Surr: BFB	1200		1000		119	49.4	163			

Qualifiers:

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1608317

10-Aug-16

Client: Rule Engineering LLC

Project: SJ 29-6 #9A

Sample ID	MB-26818	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	26818	RunNo:	36301					
Prep Date:	8/5/2016	Analysis Date:	8/8/2016	SeqNo:	1124736	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		99.5	80	120			

Sample ID	LCS-26818	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	26818	RunNo:	36301					
Prep Date:	8/5/2016	Analysis Date:	8/8/2016	SeqNo:	1124737	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.2	75.3	123			
Toluene	1.0	0.050	1.000	0	102	80	124			
Ethylbenzene	1.1	0.050	1.000	0	109	82.8	121			
Xylenes, Total	3.2	0.10	3.000	0	106	83.9	122			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

OIL CONS. DIV DIST. 3
NOV 14 2016

Qualifiers:

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



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

Sample Log-In Check List

Client Name: RULE ENGINEERING LL

Work Order Number: 1608317

RcptNo: 1

Received by/date:

AT 08/05/16

Logged By: Anne Thorne

8/5/2016 7:40:00 AM

Anne Thorne

Completed By: Anne Thorne

8/5/2016

Anne Thorne

Reviewed By:

aj

08/05/16

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 $>0^{\circ}\text{C}$ 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:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

17. Additional remarks:

18. Cooler Information

Cooler No.	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Client: Rule Engineering, LLC

Billing Address: 501 Airport Dr. Suite 265
Irvington, NM 87401

Phone #: jwalker7@ruleengineering.com

Email or Fax#: 505 793 9486

AVQC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☒ NELAP ☐ Other _____

☒ EDD (Type) _____

☐ Standard ☒ Rush 3 Day

5) 29-6 #9A

Project Manager:

Heather Woods

Sampler: Justin Halder





On Ice ☒ Yes ☐ No

Sample Temperature

[illegible]

~~OIL CONS. DIV DIST. 3~~

NOV 14 2016

ate:	Time:	Relinquished by:	Received by:	Date	Time
1/16	1640			8/4/16	1640
ate:	Time:	Relinquished by:	Received by:	Date	Time
1/16	1854			08/05/16	0740



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

					BTEX + TOLUENE + TPAH'S (8021)
					BTEX + MTBE + TPH (Gas only)
					TPH 8015B (GRO / DRO / WATER)
X					TPH (Method 418.1)
					EDB (Method 504.1)
					PAH's (8310 or 8270 SIMS)
					RCRA 8 Metals
-					Anions (ATC / NO₃ / NO₂ / HPO₄ / SO₄)
					8081 Pesticides / 8082 PCB's
					8260B (VOA)
					8270 (Semi-VOA)
					Air Bubbles (Y or N)

Remarks:

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.