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

Form C-141 Revised August 8, 2011 Submit 1 Copy to appropriate District Office to accordance with 19.15.29 NMAC.

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

			Rele	ease Notific	atio	n and Co	orrective A	ction	l,				
						OPERA	ΓOR		Initi	al Report	\boxtimes	Final Report	
Name of Co	ompany Bu	ırlington Res	sources C	il &Gas Co.		Contact Bol	by Spearman						
Address 34	01 East 30 ^t	th St, Farmin	gton, NM	1		Telephone 1	No. (505)-320-3	045					
Facility Na	me: East 9					Facility Type: Gas well							
Surface Ow	ner: Fed			Mineral O	wner:	Fed			API No	. 30045102	253		
				LOCA	TIO	N OF RE	EASE						
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/V	Vest Line	County			
N	25	31N	12W	880		South	1505		Vest	San Juan			
Latitude 36.86547 Longitude -108.05389 NATURE OF RELEASE													
Type of Rele	ase Hydr	ocarbon				Volume of	Release Unknown	own		Recovered	Non	e	
Source of Release BGT						Date and I	Iour of Occurrence	ce	Date and 12-12-16	Hour of Dis	covery		
Was Immediate Notice Given?						If YES, To	Whom?		12-12-10				
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Yes 🗵	No Not Re	quired								
By Whom?						Date and H	lour						
Was a Water	course Read					If YES, Vo	olume Impacting	the Wate	ercourse.				
			Yes 🛛]	No									
		em and Reme vas discovered		n Taken.* acility pit reset. An	nount i	s unknown at	this time.						
Historical Hy	drocarbon :		d under the	cen.* e BGT Area for the results were below									
regulations a public health should their or the enviro	Il operators or the environment of operations had not not a	are required to ronment. The lave failed to a	o report and acceptant adequately OCD accept	e is true and complete is true and complete of a C-141 report investigate and restance of a C-141 report investigate and restance of a C-141 report investigate.	elease nort by the emediate	otifications a e NMOCD m e contaminati	nd perform correct arked as "Final R on that pose a thr	ctive active active eport" de reat to gr	ions for rel loes not rel round wate	eases which ieve the oper r, surface wa	may en rator of iter, hur	danger liability nan health	
Signature:	. –/	ean	(C)				OIL CON		1	DIVISIO	<u>N</u>		
Printed Name	c. Bubby S	реагшап				Approved by	Environmental S	pecialist		u	6		
Title: Field	Environme	ntal Specialis	st			Approval Da	e: 7/24/20	TIC	Expiration	Date:			
E-mail Addre	ess: Robert	.E.Spearman	@conocoj	phillips.com		Conditions of	Approval:			Attached			
Date: 4-28-2	2017		Pho	one: (505) 320-304	45								

* Attach Additional Sheets If Necessary

NCSITO10383695 cons. DIV DIST. 3

MAY 0 4 2017



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

December 21, 2016

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

FAX

RE: COP East 9

OrderNo.: 1612827

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 3 sample(s) on 12/15/2016 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 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

MAY 0 4 2017

Analytical Report Lab Order 1612827

Date Reported: 12/21/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Client Sample ID: TH-3 @ 8'

Project: COP East 9

Collection Date: 12/9/2016 4:30:00 PM

Lab ID: 1612827-001

Matrix: SOIL

Received Date: 12/15/2016 8:10:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE	ORGANIC	S				Analys	st: TOM
Diesel Range Organics (DRO)	400	10		mg/Kg	1	12/20/2016 10:09:41 F	PM 29273
Motor Oil Range Organics (MRO)	94	50		mg/Kg	1	12/20/2016 10:09:41 F	PM 29273
Surr: DNOP	107	70-130		%Rec	1	12/20/2016 10:09:41 F	PM 29273
EPA METHOD 8015D: GASOLINE RANG	Ε					Analys	t: NSB
Gasoline Range Organics (GRO)	160	24		mg/Kg	5	12/20/2016 11:07:31 A	M 29267
Surr: BFB	327	68.3-144	S	%Rec	5	12/20/2016 11:07:31 A	M 29267
EPA METHOD 8021B: VOLATILES						Analys	t: NSB
Benzene	ND	0.12		mg/Kg	5	12/20/2016 11:07:31 A	M 29267
Toluene	ND	0.24		mg/Kg	5	12/20/2016 11:07:31 A	M 29267
Ethylbenzene	0.77	0.24		mg/Kg	5	12/20/2016 11:07:31 A	M 29267
Xylenes, Total	7.6	0.48		mg/Kg	5	12/20/2016 11:07:31 A	M 29267
Surr: 4-Bromofluorobenzene	122	80-120	S	%Rec	5	12/20/2016 11:07:31 A	M 29267

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

- 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
- Analyte detected below quantitation limits Page 1 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1612827

Date Reported: 12/21/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Client Sample ID: SB-1 @ 9-10

COP East 9 Project:

Lab ID: 1612827-002 Collection Date: 12/14/2016 10:00:00 AM

Received Date: 12/15/2016 8:10:00 AM

Analyses	Result	PQL (Qual U	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANIC	S				Anal	yst: TOM
Diesel Range Organics (DRO)	110	9.7		mg/Kg	1	12/20/2016 11:13:09	PM 29273
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/20/2016 11:13:09	PM 29273
Surr: DNOP	107	70-130		%Rec	1	12/20/2016 11:13:09	PM 29273
EPA METHOD 8015D: GASOLINE RAN	IGE					Anal	yst: NSB
Gasoline Range Organics (GRO)	150	23		mg/Kg	5	12/20/2016 11:31:04	AM 29267
Surr: BFB	218	68.3-144	S	%Rec	5	12/20/2016 11:31:04	AM 29267
EPA METHOD 8021B: VOLATILES						Anal	yst: NSB
Benzene	0.24	0.12	1	mg/Kg	5	12/20/2016 11:31:04	AM 29267
Toluene	ND	0.23		mg/Kg	5	12/20/2016 11:31:04	AM 29267
Ethylbenzene	0.88	0.23		mg/Kg	5	12/20/2016 11:31:04	AM 29267
Xylenes, Total	3.5	0.47		mg/Kg	5	12/20/2016 11:31:04	AM 29267
Surr: 4-Bromofluorobenzene	116	80-120	•	%Rec	5	12/20/2016 11:31:04	AM 29267

Matrix: SOIL

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

- 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
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 6 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1612827

Date Reported: 12/21/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Client Sample ID: SB-1 @ 11

Project: COP East 9

Collection Date: 12/14/2016 10:05:00 AM

Lab ID: 1612827-003

Matrix: SOIL

Received Date: 12/15/2016 8:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANIC	S				Anal	yst: TOM
Diesel Range Organics (DRO)	150	9.8		mg/Kg	1	12/20/2016 11:34:22	PM 29273
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/20/2016 11:34:22	PM 29273
Surr: DNOP	101	70-130		%Rec	1	12/20/2016 11:34:22	PM 29273
EPA METHOD 8015D: GASOLINE RAN	GE					Anal	yst: NSB
Gasoline Range Organics (GRO)	100	4.9		mg/Kg	1	12/20/2016 10:43:55	AM 29267
Surr: BFB	501	68.3-144	S	%Rec	1	12/20/2016 10:43:55	5 AM 29267
EPA METHOD 8021B: VOLATILES						Anal	yst: NSB
Benzene	0.075	0.024		mg/Kg	1	12/20/2016 10:43:55	AM 29267
Toluene	ND	0.049		mg/Kg	1	12/20/2016 10:43:55	AM 29267
Ethylbenzene	0.43	0.049		mg/Kg	1	12/20/2016 10:43:55	AM 29267
Xylenes, Total	1.2	0.098		mg/Kg	1	12/20/2016 10:43:55	AM 29267
Surr: 4-Bromofluorobenzene	132	80-120	S	%Rec	1	12/20/2016 10:43:55	AM 29267

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

- 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
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 6 J
- Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1612827

21-Dec-16

Client:

Rule Engineering LLC

Project:

COP East 9

Project: COP Eas	St 9									
Sample ID 1612827-001AMS	SampTy	pe: MS	3	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: TH-3 @ 8'	Batch	ID: 29	273	F	RunNo: 3	9526				
Prep Date: 12/19/2016	Analysis Da	ite: 12	2/20/2016	S	SeqNo: 1	238440	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	380	9.5	47.66	399.7	-30.8	51.6	130			S
Surr: DNOP	5.3		4.766		110	70	130			
Sample ID 1612827-001AMS	D SampTy	ре: М	SD	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: TH-3 @ 8'	Batch	ID: 29	273	R	RunNo: 3	9526				
Prep Date: 12/19/2016	p Date: 12/19/2016 Analysis Date: 12/20/2016 SeqNo: 1238442 Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	320	9.2	46.13	399.7	-174	51.6	130	18.6	20	S
Surr: DNOP	4.9		4.613		107	70	130	0	0	
Sample ID LCS-29273	SampTy	pe: LC	S	Test	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
				RunNo: 39526						
Client ID: LCSS	Batch	ID: 29	273	R	tunivo: 3	9520				
Client ID: LCSS Prep Date: 12/19/2016	Batch Analysis Da				SeqNo: 1		Units: mg/k	(g		
			2/20/2016		SeqNo: 1		Units: mg/l	(g %RPD	RPDLimit	Qual
Prep Date: 12/19/2016	Analysis Da	ite: 12	2/20/2016	S	SeqNo: 1	238583	0		RPDLimit	Qual
Prep Date: 12/19/2016 Analyte	Analysis Da	ite: 12	2/20/2016 SPK value	SPK Ref Val	SeqNo: 1	238583 LowLimit	HighLimit		RPDLimit	Qual
Prep Date: 12/19/2016 Analyte Diesel Range Organics (DRO)	Analysis Da Result 45	PQL 10	2/20/2016 SPK value 50.00 5.000	SPK Ref Val	%REC 89.5 94.4	238583 LowLimit 63.8 70	HighLimit 116	%RPD		Qual
Prep Date: 12/19/2016 Analyte Diesel Range Organics (DRO) Surr: DNOP	Analysis Da Result 45 4.7 SampTy	PQL 10	SPK value 50.00 5.000	SPK Ref Val 0	%REC 89.5 94.4	238583 LowLimit 63.8 70 PA Method	HighLimit 116 130	%RPD		Qual
Prep Date: 12/19/2016 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID MB-29273	Analysis Da Result 45 4.7 SampTy	PQL 10 10 1D: 29	SPK value 50.00 5.000 5.000	SPK Ref Val 0	%REC 89.5 94.4	238583 LowLimit 63.8 70 PA Method 9526	HighLimit 116 130	%RPD		Qual
Prep Date: 12/19/2016 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID MB-29273 Client ID: PBS	Analysis Da Result 45 4.7 SampTy Batch	PQL 10 10 1D: 29	2/20/2016 SPK value 50.00 5.000 BLK 273 2/20/2016	SPK Ref Val 0	8eqNo: 1 %REC 89.5 94.4 tCode: El RunNo: 3 SeqNo: 1	238583 LowLimit 63.8 70 PA Method 9526	HighLimit 116 130 8015M/D: Di	%RPD		Qual
Prep Date: 12/19/2016 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID MB-29273 Client ID: PBS Prep Date: 12/19/2016	Analysis Da Result 45 4.7 SampTy Batch Analysis Da	PQL 10 pe: ME ID: 29	2/20/2016 SPK value 50.00 5.000 BLK 273 2/20/2016	SPK Ref Val 0 Test	8eqNo: 1 %REC 89.5 94.4 tCode: El RunNo: 3 SeqNo: 1	238583 LowLimit 63.8 70 PA Method 9526 238584	HighLimit 116 130 8015M/D: Di	%RPD esel Range	e Organics	
Prep Date: 12/19/2016 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID MB-29273 Client ID: PBS Prep Date: 12/19/2016 Analyte	Analysis Da Result 45 4.7 SampTy Batch Analysis Da Result	PQL 10 10 ppe: ME ID: 29: tte: 12	SPK value 50.00 5.000 8LK 273 2/20/2016 SPK value	SPK Ref Val 0 Test	REC 89.5 94.4 Code: El RunNo: 3 SeqNo: 1 %REC	238583 LowLimit 63.8 70 PA Method 9526 238584 LowLimit	HighLimit 116 130 8015M/D: Di Units: mg/F HighLimit	%RPD esel Range	e Organics	
Prep Date: 12/19/2016 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID MB-29273 Client ID: PBS Prep Date: 12/19/2016 Analyte Diesel Range Organics (DRO)	Analysis Da Result 45 4.7 SampTy Batch Analysis Da Result ND	PQL 10 ppe: ME ID: 29 tte: 12 PQL 10	2/20/2016 SPK value 50.00 5.000 BLK 273 2/20/2016	SPK Ref Val 0 Test	8eqNo: 1 %REC 89.5 94.4 tCode: El RunNo: 3 SeqNo: 1	238583 LowLimit 63.8 70 PA Method 9526 238584	HighLimit 116 130 8015M/D: Di	%RPD esel Range	e Organics	

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

Page 4 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

26

970

5.0

25.00

1000

WO#:

1612827

21-Dec-16

Client:

Rule Engineering LLC

Project:

Gasoline Range Organics (GRO)

Surr: BFB

COP East 9

Sample ID MB-29267	SampType: MBLK	TestCode: EPA Method	TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 29267	RunNo: 39531	39531					
Prep Date: 12/19/2016	Analysis Date: 12/20/2016	SeqNo: 1238284	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	860 1000	0 86.3 68.3 144						
Sample ID LCS-29267	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range)				
Client ID: LCSS	Batch ID: 29267	RunNo: 39531						
Prep Date: 12/19/2016	Analysis Date: 12/20/2016	SeqNo: 1238285	Units: mg/Kg					
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual				

0

103

97.0

74.6

68.3

123

144

0	1119	1:	£	_	***	

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

Page 5 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: **1612827**

21-Dec-16

Client:

Rule Engineering LLC

Project:

COP East 9

Sample ID MB-29267	SampT	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch	Batch ID: 29267			RunNo: 39531					
Prep Date: 12/19/2016	Analysis D	ate: 12	2/20/2016	S	SeqNo: 1238317 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	0.96		1.000		96.5	80	120			

Sample ID LCS-29267	SampType: LCS TestCode: EPA Meth						8021B: Volat	illes		- 1
Client ID: LCSS	Batch	ID: 292	267	RunNo: 39531						
Prep Date: 12/19/2016	Analysis D	ate: 12	2/20/2016	SeqNo: 1238318 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	1.000	0	117	75.2	115			S
Toluene	1.0	0.050	1.000	0	103	80.7	112			
Ethylbenzene	1.0	0.050	1.000	0	100	78.9	117			
Xylenes, Total	3.0	0.10	3.000	0	100	79.2	115			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.8	80	120			

Sample ID 1612827-001AMS	SampT	SampType: MS TestCode: EPA Method 8						tiles			
Client ID: TH-3 @ 8'	Batch	Batch ID: 29267			RunNo: 3						
Prep Date: 12/19/2016	Analysis D	ate: 12	2/20/2016	8	SeqNo: 1	238319	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.1	0.12	0.9251	0	120	61.5	138				
Toluene	1.0	0.23	0.9251	0	111	71.4	127				
Ethylbenzene	1.9	0.23	0.9251	0.7725	121	70.9	132				
Xylenes, Total	11	0.46	2.775	7.576	123	76.2	123				
Surr: 4-Bromofluorobenzene	5.7		4.625		123	80	120			S	

Sample ID 1612827-001AMS	D SampT	pType: MSD TestCode: EPA Method 8021B: Volatiles								
Client ID: TH-3 @ 8'	Batch	ID: 29	267	F	RunNo: 3					
Prep Date: 12/19/2016	Analysis D	Date: 12/20/2016 SeqNo: 1238320				Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.12	0.9690	0	109	61.5	138	5.15	20	
Toluene	1.1	0.24	0.9690	0	111	71.4	127	4.71	20	
Ethylbenzene	1.9	0.24	0.9690	0.7725	115	70.9	132	0.481	20	
Xylenes, Total	11	0.48	2.907	7.576	117	76.2	123	0.129	20	
Surr: 4-Bromofluorobenzene	6.1		4.845		127	80	120	0	0	S

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

Page 6 of 6

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 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	er: 161282 7		RcptNo: 1	
Received by/date: A9 12/15/1	Ψ			
Logged By: Ashley Gallegos 12/15/2016 8:10:00 A	AM	A		
Completed By: Ashley Gallegos 12/15/2016 8(45:00 A	MA	A		
Reviewed By:		Q		
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			
<u>Log In</u>				
	Yes 🗸	No 🗀	NA []	
Was an attempt made to cool the samples?	Yes IV	NO L	(VA)	
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗸	No 🗌	NA []]	
2		🗀		
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 🗸		
11			# of preserved bottles checked	
12. Does paperwork match bottle labels?	Yes 🗸	No [for pH:	
(Note discrepancies on chain of custody)	1	E T	(<2 or >12 unless noted Adjusted?)
13. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No	Adjusted?	
14. Is it clear what analyses were requested?	Yes 🗸	No 🗌	Checked by:	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🔽	NO []	Onlocked by.	
Special Handling (if applicable)				
16. Was client notified of all discrepancies with this order?	Yes	No 🗆	NA 🗹	
Person Notified: Date	CALL MATERIAL PROPERTY OF THE	CANADOOR LANGUE DO SANDERS P		
By Whom: Via:	eMail F	Phone Fax	In Person	
Regarding:	BEISTON STOPPEN STOPPE	rapatha Saria a Marina, din marina, angka bahala a ka ka ka	THE THE PART OF PERSONS THE PROPERTY OF THE PARTY OF THE	
Client Instructions:	-77-7-1200 t-Presidental-1-2044-MVCS-1-46-5-4-7-1-3-2-3-2-0-4-0-0-1	OMENIE DE PORCO (DE SERVE DE PRESENTANTE EN PRESENTANTE POR PERSONAL PROPERTIE DE PORTO (DE PORTO)	SAMOR PARAMETERS (S. P. P. P. P. P. S. SAMORROMAN STREET, B. P.	
17. Additional remarks:				
18. Cooler Information				
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1 1.0 Good Yes				

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)ate	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	- 32	BTEX + MEDE	BTEX + MTBE	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)			Air Bubbles (Y or N)
Billy	1630	Soil	TH-368'	(1) Yor Giax	Cold	-00\$1	X		V											
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ate:	Time:	Relinquish		Received by:	20	Date Time														
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1	f necessary,	amples sub	omitted to Hall Environmental may be sub-	contracted to other ac	credited laboratorie	es. This serves as notice of thi	s possi	bility.	Any si	ıb-cont	racte	d data	will be	e clear	rly nota	ated or	n the ar	nalytical	report.	

East #9 Release Report

Unit Letter N, Section 25, Township 31 North, Range 12 West San Juan County, New Mexico

April 26, 2017

Prepared for: ConocoPhillips 5525 Highway 64 Farmington, New Mexico 87401

> OIL CONS. DIV DIST. 3 MAY 0 4 2017

Prepared by:
Rule Engineering, LLC
501 Airport Drive, Suite 205
Farmington, New Mexico 87401



ConocoPhillips East #9 Release Report

Prepared for:

ConocoPhillips 5525 Highway 64 Farmington, New Mexico 87401

Prepared by:

Rule Engineering, LLC 501 Airport Drive, Suite 205 Farmington, New Mexico 87401

Heather M. Woods, P.G., Area Manager

Reviewed by:

Russell Knight, PG, Principal Hydrogeologist

April 26, 2017

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Appendices

Appendix A Analytical Laboratory Reports

1.0 Introduction

The ConocoPhillips East #9 release site is located in Unit Letter N, Section 25, Township 31 North, Range 12 West, in San Juan County, New Mexico. A historical release was discovered on December 12, 2016, during below grade tank (BGT) reset and upgrade activities.

A topographic map of the location reproduced from the United States Geological Society quadrangle map of the area is included as Figure 1 and an aerial site map is included as Figure 2.

2.0 Release Summary

Site Name	East #9		
Site Location Description	Unit Letter N, Section	25, Township 31 N	lorth, Range 12 West
Wellhead GPS Location	N36.86533 and W108.05381	Release GPS Location	N36.86547 and W108.05389
Land Jurisdiction	Bureau of Land Management	Discovery Date	December 12, 2016
Release Source	Historical		
NMOCD Site Rank	10		
Distance to Nearest Surface Water	Small, ephemeral tribe approximately 260 fee		,
Estimated Depth to Groundwater	Greater than 100 feet below ground surface (bgs)	Distance to Nearest Water Well or Spring	Greater than 1,000 feet

3.0 NMOCD Site Ranking

In accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases (August 1993), this site was assigned a ranking score of 10 (Table 1).

Depth to groundwater at the site is greater than 100 feet bgs based on the elevation differential between the location and local drainages and the depths to groundwater reported on local cathodic well reports.

A review was completed of the New Mexico Office of the State Engineer (NMOSE) online New Mexico Water Rights Reporting System (NMWRRS) and no water wells were identified within a 1,000 foot radius of the location. No water wells were observed within a 1,000 foot radius of the location during a visual inspection.

Small, ephemeral tributaries to Kochis Arroyo are located approximately 260 feet east and southeast of the location.

Based on the ranking score of 10, action levels for remediated soils at the site are as follows: 10 milligrams per kilogram (mg/kg) benzene, 50 mg/kg total benzene, toluene, ethylbenzene, and total xylenes (BTEX), and 1,000 mg/kg total petroleum hydrocarbons (TPH).

4.0 Site Assessment

4.1 Field Activities

A site assessment was conducted to determine the approximate horizontal and vertical extents of the release. On December 8, 2016, Rule personnel provided guidance and field analysis of soil samples collected from three backhoe test pits (TP-1 through TP-3). Test pits were advanced to depths ranging from approximately 8 to 9 feet bgs where refusal was encountered on sandstone.

Rule returned to the location on December 14, 2016, to continue the site assessment utilizing a direct push drill rig operated by Kyvek Energy Services. Rule personnel provided guidance and field analysis of soil sampling of two soil borings (SB-1 and SB-2). Soil borings were advanced to approximately 8 feet and 11 feet bgs where refusal was encountered.

Test pit and soil boring locations are illustrated on Figure 2.

4.2 Soil Sampling

Rule collected soil samples from the test pits and soil borings at selected intervals or at changes in lithology or contamination. The lithology encountered at the site included interbedded clayey sand and poorly graded sand with clay underlain by clayey sandstone to the maximum depths reached.

A portion of each sample was field screened for VOCs and selected samples were also field analyzed for TPH. Field screening for VOC vapors was conducted with a MiniRAE 3000 photoionization detector (PID). Prior to field screening, the PID was calibrated with 100 parts per million (ppm) isobutylene gas. Field analysis for TPH was conducted for selected samples per United States Environmental Protection Agency (USEPA) Method 418.1, utilizing a Buck Scientific HC-404 total hydrocarbon analyzer. Prior to field analysis, the analyzer was calibrated following the manufacturer's procedure which includes calculation of a calibration curve using known concentration standards. Rule's practical quantitation limit for USEPA Method 418.1 is 20 mg/kg.

Soil samples collected for laboratory analysis were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico. Samples were analyzed for BTEX per USEPA Method 8021B, and TPH per USEPA Method 8015M/D.



Site assessment field screening results and laboratory analytical results are summarized in Table 2. The analytical laboratory report is included in Appendix A.

4.3 Field Screening Results

Field screening results for samples collected from test pits TP-1 through TP-3 and soil borings SB-1 and SB-2 indicated VOC concentrations ranging from 13.4 ppm to 4,503 ppm. Field screening results for the site assessment samples in indicated TPH concentrations ranging from 375 mg/kg to 1,100 mg/kg.

4.4 Laboratory Analytical Results

Laboratory analytical results for the site assessment samples reported benzene concentrations ranging from below the laboratory reporting limit to 0.24 mg/kg. Total BTEX concentrations for the site assessment samples ranged from 1.2 mg/kg to 8.4 mg/kg. Laboratory analytical results for the site assessment samples reported TPH concentrations ranging from 250 mg/kg to 654 mg/kg. An area of excavation was recommended based on the field screening and analytical laboratory results from the site assessment.

5.0 Excavation Confirmation Sampling

5.1 Field Activities

Rule personnel collected confirmation samples from the resultant excavation which measured approximately 21 feet by 30 feet with an extension to the northwest approximately 23 feet by 10 feet. The southern half of the excavation measured approximately 8 to 10 feet in depth and the northern half of the excavation measured approximately 10 to 12 feet in depth. Excavated hydrocarbon impacted soils were transported to a local NMOCD approved landfarm for disposal/remediation and the excavation was backfilled with clean, imported material. A depiction of the final excavation with sample locations is included on Figure 3.

5.2 Soil Sampling

Rule collected six composite confirmation soil samples (SC-1 through SC-6) on December 8 and 9, 2016. Each confirmation soil sample is a representative composite comprised of five equivalent portions of soil collected from the sampled area.

A portion of each sample was field screened for VOCs and field analyzed for TPH utilizing the same methods as described in Section 4.2.

Soil samples collected for laboratory analysis were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to HEAL. All excavation



confirmation samples were analyzed for BTEX per USEPA Method 8021B, and TPH per USEPA Method 8015M/D.

Field screening and laboratory analytical results are summarized in Table 3. The analytical laboratory reports are included in Appendix A.

5.3 Field Screening Results

Field screening results for soil confirmation samples SC-1 through SC-6 indicated VOC concentrations ranging from 2,650 ppm to 4,773 ppm. Field TPH concentration results for these samples ranged from 270 mg/kg to 780 mg/kg.

5.4 Laboratory Analytical Results

Laboratory analytical results for final excavation confirmation samples SC-1 through SC-6 reported benzene concentrations ranging from below the laboratory reporting limits to 0.42 mg/kg, which are below the NMOCD action level of 10 mg/kg. Total BTEX concentrations for the excavation confirmation samples ranged from 0.24 mg/kg to 15 mg/kg, which are below the NMOCD action level of 50 mg/kg. Laboratory analytical results for the final excavation samples reported TPH concentrations ranging from 134 mg/kg to 776 mg/kg, which are below the NMOCD action level of 1,000 mg/kg for a site rank of 10.

6.0 Conclusions

Hydrocarbon impacted soils associated with a historical release discovered during BGT reset and upgrade activities at the ConocoPhillips East #9 have been excavated and transported to an NMOCD approved landfarm for disposal/remediation. Field screening and laboratory analytical results for samples collected from the final excavation sidewalls and base indicate that concentrations of benzene, total BTEX, and TPH are below NMOCD action levels for a site rank of 10. Therefore, no further work is recommended at this time.

7.0 Closure and Limitations

This report has been prepared for the exclusive use of ConocoPhillips and is subject to the terms, conditions, and limitations stated in Rule's report and Service Agreement with ConocoPhillips. All work has been performed in accordance with generally accepted professional environmental consulting practices. No other warranty is expressed or implied.



Tables



Table 1. NMOCD Site Ranking Determination ConocoPhillips East #9 San Juan County, New Mexico

Ranking Criteria	Ranking	Site-Based	Basis for Determination	Data
	Score	Ranking Score		Sources
Depth to Groundwater	T			
<50 feet	20		Depth to groundwater is estimated to be greater than 100 feet below ground surface based on elevation	NMOCD Online database,
50-99 feet	10	0	differential between location and local drainages and the depths to groundwater reported on local cathodic	Flora Vista Quadrangle, Google Earth, and Visual
>100 feet	0		well reports.	Inspection
Wellhead Protection Area	1			
<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 foot radius of location.	NMOSE NMWRRS, Flora Vista Quadrangle, Google Earth, and Visual Inspection
	0 (No)			
Distance to Surface Water Body				
<200 horizontal feet	20		Small, ephemeral tributaries to Kochis Arroyo are	Flora Vista Quadrangle,
200 to 1,000 horizontal feet	10	10	located approximatley 260 feet east and southeast of the location.	Google Earth, and Visual
>1,000 horizontal feet	0		the location.	Inspection
Site Based Total Rank	ing Score	10		



Table 2. Site Assessment Field Screening and Laboratory Analytical Results ConocoPhillips
East #9
San Juan County, New Mexico

			Field F	Results				Laborato	ry Results			
Sample Name	Date	Approximate Sample Depth (ft bgs)	Field VOCs by PID (ppm)	Field TPH by 418.1 (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylben- zene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH as GRO (mg/kg)	TPH as DRO (mg/kg)	TPH as MRO (mg/kg)
	NMOC	D Action Level*	100	1,000**	10	NE	NE	NE	50		1,000**	
TH-1	12/8/2016	6	3,511	931								
111-1	12/0/2010	8	13.4									
		5	2,505									
TH-2	12/8/2016	7	3,742									
		9	3,738									
TH-3	12/8/2016	6	1,982									
111-3	12/6/2010	8	4,503	1,100	<0.12	<0.24	0.77	7.6	8.4	160	400	94
		8 to 9	2,361									
SB-1	12/14/2016	9 to 10	2,391	523	0.24	<0.23	0.88	3.5	4.6	150	110	<49
		10 to 11	1,293	375	0.075	<0.049	0.43	1.2	1.7	100	150	<49
SB-2	12/14/2016	5 to 5.5	140									
3D-Z	12/14/2010	7 to 8	360									

Notes:

All test holes and soil borings were terminated at refusal or limits of the equipment.

VOCs - volatile organic compounds

TPH - total petroleum hydrocarbons

PID - photoionization detector

GRO - gasoline range organics

ft bgs - feet below grade surface

DRO - diesel range organics

ppm - parts per million

MRO - mineral oil range organics

mg/kg - milligrams per kilogram

NMOCD - New Mexico Oil Conservation Division

NE - not-established

*Based on the NMOCD Guidelines for Remediation of Leaks, Spills and Releases (August 1993)

**Based on a site ranking of 10.

Table 3. Excavation Confirmation Field Screening and Laboratory Analytical Results ConocoPhillips
East #9

San Juan County, New Mexico

Sample Name	Date	Approximate Sample Depth (ft bgs)		Field VOCs by PID (ppm)	Field TPH by 418.1 (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylben- zene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH as GRO (mg/kg)	TPH as DRO (mg/kg)	TPH as MRO (mg/kg)
		NMOC	D Action Level*	100	1,000**	10	NE	NE	NE	50	the backet	1,000**	
SC-1	3/9/2017	0 to 12	North Wall	4,773	720	<0.19	<0.37	1.2	8.8	10.0	270	280	100
SC-2	3/8/2017	0 to 12	East Wall	4,430	270	<0.024	<0.048	0.16	0.38	0.54	39	95	<49
SC-3	3/8/2017	0 to 10	South Wall	2,650	580	<0.048	<0.096	0.19	0.60	0.79	74	130	<49
SC-4	3/8/2017	0 to 12	West Wall	3,925	410	<0.024	<0.048	0.085	0.15	0.24	28	120	<48
SC-5	3/8/2017	8 to 10	Southern Base	2,750	320	<0.024	<0.048	0.083	0.18	0.26	22	120	<49
SC-6	3/9/2017	10 to 12	Northern Base	4,258	780	0.42	<0.38	3.4	11	15	530	170	76

Notes:

VOCs - volatile organic compounds

PID - photoionization detector

ft bgs - feet below grade surface

ppm - parts per million

mg/kg - milligrams per kilogram

NE - not-established

ND - not detected above laboratory reporting limits

BTEX - benzene, toluene, ethylbenzene, and xylenes

TPH - total petroleum hydrocarbons

GRO - gasoline range organics

DRO - diesel range organics

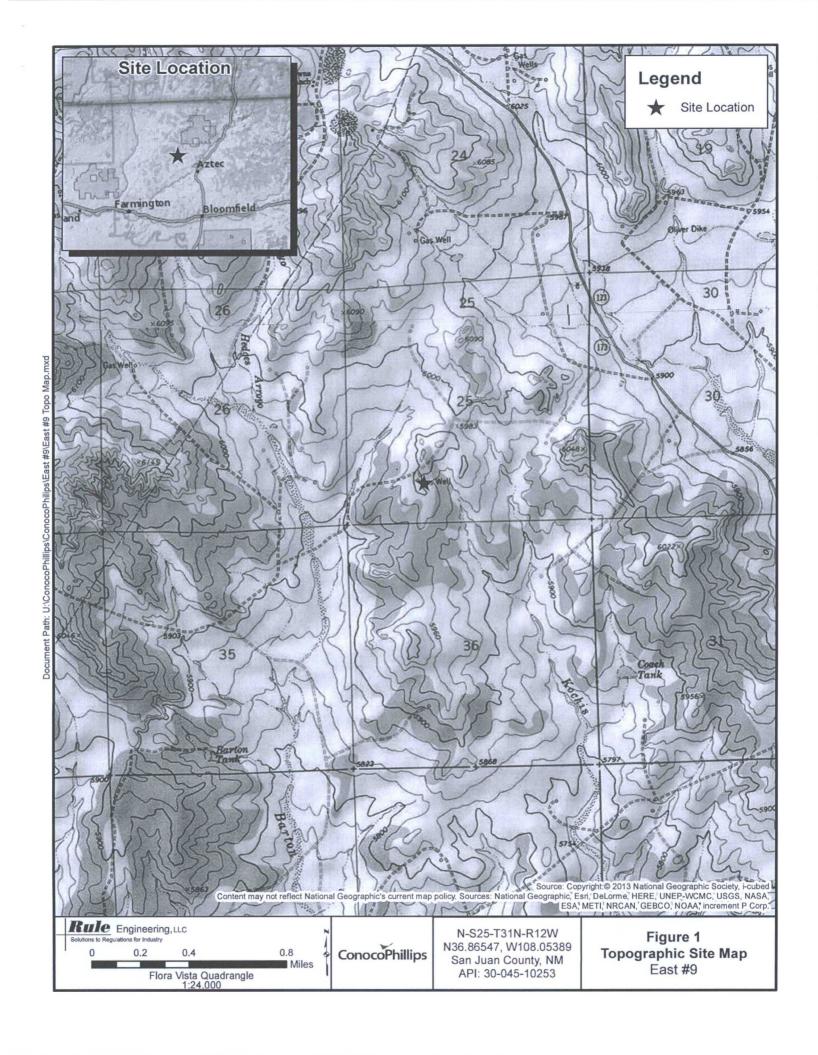
NMOCD - New Mexico Oil Conservation Division

*Based on the NMOCD Guidelines for Remediation of Leaks, Spills and Releases (August 1993)

^{**}Based on a site ranking of 10.

Figures







Appendix A Analytical Laboratory Reports





Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

December 21, 2016

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

FAX

RE: COP East 9

OrderNo.: 1612827

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 3 sample(s) on 12/15/2016 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 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

Only

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1612827

Date Reported: 12/21/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Client Sample ID: TH-3 @ 8'

Project: COP East 9

Collection Date: 12/9/2016 4:30:00 PM

Lab ID: 1612827-001

Matrix: SOIL

Received Date: 12/15/2016 8:10:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S				Anal	yst: TOM
Diesel Range Organics (DRO)	400	10		mg/Kg	1	12/20/2016 10:09:41	PM 29273
Motor Oil Range Organics (MRO)	94	50		mg/Kg	1	12/20/2016 10:09:41	PM 29273
Surr: DNOP	107	70-130		%Rec	1	12/20/2016 10:09:41	PM 29273
EPA METHOD 8015D: GASOLINE RAM	IGE					Anal	st: NSB
Gasoline Range Organics (GRO)	160	24		mg/Kg	5	12/20/2016 11:07:31	AM 29267
Surr: BFB	327	68.3-144	S	%Rec	5	12/20/2016 11:07:31	AM 29267
EPA METHOD 8021B: VOLATILES						Analy	st: NSB
Benzene	ND	0.12		mg/Kg	5	12/20/2016 11:07:31	AM 29267
Toluene	ND	0.24		mg/Kg	5	12/20/2016 11:07:31	AM 29267
Ethylbenzene	0.77	0.24		mg/Kg	5	12/20/2016 11:07:31	AM 29267
Xylenes, Total	7.6	0.48		mg/Kg	5	12/20/2016 11:07:31	AM 29267
Surr: 4-Bromofluorobenzene	122	80-120	S	%Rec	5	12/20/2016 11:07:31	AM 29267

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

- 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 Page 1 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1612827

Date Reported: 12/21/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Client Sample ID: SB-1 @ 9-10

Project: COP East 9

Collection Date: 12/14/2016 10:00:00 AM

Lab ID: 1612827-002

Matrix: SOIL

Received Date: 12/15/2016 8:10:00 AM

Analyses	Result	PQL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S			Analy	st: TOM
Diesel Range Organics (DRO)	110	9.7	mg/Kg	1	12/20/2016 11:13:09	PM 29273
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/20/2016 11:13:09	PM 29273
Surr: DNOP	107	70-130	%Rec	1	12/20/2016 11:13:09	PM 29273
EPA METHOD 8015D: GASOLINE RANG	GE				Analy	st: NSB
Gasoline Range Organics (GRO)	150	23	mg/Kg	5	12/20/2016 11:31:04	AM 29267
Surr: BFB	218	68.3-144	S %Rec	5	12/20/2016 11:31:04	AM 29267
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	0.24	0.12	mg/Kg	5	12/20/2016 11:31:04	AM 29267
Toluene	ND	0.23	mg/Kg	5	12/20/2016 11:31:04	AM 29267
Ethylbenzene	0.88	0.23	mg/Kg	5	12/20/2016 11:31:04	AM 29267
Xylenes, Total	3.5	0.47	mg/Kg	5	12/20/2016 11:31:04	AM 29267
Surr: 4-Bromofluorobenzene	116	80-120	%Rec	5	12/20/2016 11:31:04	AM 29267

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

- Value exceeds Maximum Contaminant Level.
- Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 6 T
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1612827

Date Reported: 12/21/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Client Sample ID: SB-1 @ 11

Project: COP East 9

Collection Date: 12/14/2016 10:05:00 AM

Lab ID: 1612827-003

Matrix: SOIL

Received Date: 12/15/2016 8:10:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANG	SE ORGANIC	S				Analy	st: TOM
Diesel Range Organics (DRO)	150	9.8		mg/Kg	1	12/20/2016 11:34:22	PM 29273
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/20/2016 11:34:22	PM 29273
Surr: DNOP	101	70-130		%Rec	1	12/20/2016 11:34:22	PM 29273
EPA METHOD 8015D: GASOLINE RAN	GE					Analy	st: NSB
Gasoline Range Organics (GRO)	100	4.9		mg/Kg	1	12/20/2016 10:43:55	AM 29267
Surr: BFB	501	68.3-144	S	%Rec	1	12/20/2016 10:43:55	AM 29267
EPA METHOD 8021B: VOLATILES						Analy	st: NSB
Benzene	0.075	0.024		mg/Kg	1	12/20/2016 10:43:55	AM 29267
Toluene	ND	0.049		mg/Kg	1	12/20/2016 10:43:55	AM 29267
Ethylbenzene	0.43	0.049		mg/Kg	1	12/20/2016 10:43:55	AM 29267
Xylenes, Total	1.2	0.098		mg/Kg	1	12/20/2016 10:43:55	AM 29267
Surr: 4-Bromofluorobenzene	132	80-120	S	%Rec	1	12/20/2016 10:43:55	AM 29267

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

- 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
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1612827

21-Dec-16

Client:

Rule Engineering LLC

Project:

COP East 9

Sample ID 1612827-001AMS	SampT	уре: М\$	3	Tes	tCode: E	PA Method	8015M/D: Di	iesel Rang	e Organics	
Client ID: TH-3 @ 8'	Batch	ID: 29	273	F	RunNo: 3	9526				
Prep Date: 12/19/2016	Analysis D	ate: 12	2/20/2016	8	SeqNo: 1	238440	Units: mg/l	Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	380	9.5	47.66	399.7	-30.8	51.6	130			S
Surr: DNOP	5.3		4.766		110	70	130			
Sample ID 1612827-001AMS	D SampT	ype: MS	SD	Tes	tCode: E	PA Method	8015M/D: Di	iesel Rang	e Organics	
Client ID: TH-3 @ 8'	Batch	ID: 29	273	F	RunNo: 3	9526				
Prep Date: 12/19/2016	Analysis D	ate: 12	2/20/2016	S	SeqNo: 1	238442	Units: mg/h	Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	320	9.2	46.13	399.7	-174	51.6	130	18.6	20	S
Surr: DNOP	4.9		4.613		107	70	130	0	0	
Sample ID LCS-29273	SampT	ype: LC	S	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Sample ID LCS-29273 Client ID: LCSS		ype: LC			tCode: El		8015M/D: Di	esel Rang	e Organics	
		ID: 29	273	F		9526	8015M/D: Di Units: mg/ F		e Organics	
Client ID: LCSS	Batch	ID: 29	273 2/20/2016	F	RunNo: 3 SeqNo: 1	9526			e Organics RPDLimit	Qual
Client ID: LCSS Prep Date: 12/19/2016 Analyte Diesel Range Organics (DRO)	Batch Analysis D	ID: 29 : ate: 12	273 2/20/2016	F	RunNo: 3 SeqNo: 1	9526 238583	Units: mg/F	≺g		Qual
Client ID: LCSS Prep Date: 12/19/2016 Analyte	Batch Analysis D Result	ID: 29 : ate: 12	273 2/20/2016 SPK value	S SPK Ref Val	RunNo: 3 SeqNo: 1 %REC	9526 238583 LowLimit	Units: mg/F	≺g		Qual
Client ID: LCSS Prep Date: 12/19/2016 Analyte Diesel Range Organics (DRO)	Batch Analysis D Result 45 4.7	ID: 29 : ate: 12	2/20/2016 SPK value 50.00 5.000	SPK Ref Val	RunNo: 3 SeqNo: 1 %REC 89.5 94.4	9526 238583 LowLimit 63.8 70	Units: mg/F HighLimit	⟨g %RPD	RPDLimit	Qual
Client ID: LCSS Prep Date: 12/19/2016 Analyte Diesel Range Organics (DRO) Surr: DNOP	Batch Analysis D Result 45 4.7 SampT	ID: 29 : ate: 12 PQL 10	2/20/2016 SPK value 50.00 5.000	SPK Ref Val 0	RunNo: 3 SeqNo: 1 %REC 89.5 94.4	9526 238583 LowLimit 63.8 70 PA Method	Units: mg/h HighLimit 116 130	⟨g %RPD	RPDLimit	Qual
Client ID: LCSS Prep Date: 12/19/2016 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID MB-29273	Batch Analysis D Result 45 4.7 SampT	PQL 10 10: 29: ME ID: 29: ME	273 2/20/2016 SPK value 50.00 5.000	SPK Ref Val 0	RunNo: 3 SeqNo: 1 %REC 89.5 94.4 tCode: El	9526 238583 LowLimit 63.8 70 PA Method 9526	Units: mg/h HighLimit 116 130	Kg %RPD esel Rango	RPDLimit	Qual
Client ID: LCSS Prep Date: 12/19/2016 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID MB-29273 Client ID: PBS	Batch Analysis D Result 45 4.7 SampTy Batch	PQL 10 10: 29: ME ID: 29: ME	273 2/20/2016 SPK value 50.00 5.000 8LK 273 2/20/2016	SPK Ref Val 0	RunNo: 3 SeqNo: 1 %REC 89.5 94.4 tCode: El RunNo: 3 SeqNo: 1	9526 238583 LowLimit 63.8 70 PA Method 9526	Units: mg/k HighLimit 116 130 8015M/D: Di	Kg %RPD esel Rango	RPDLimit	Qual
Client ID: LCSS Prep Date: 12/19/2016 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID MB-29273 Client ID: PBS Prep Date: 12/19/2016 Analyte Diesel Range Organics (DRO)	Batch Analysis D Result 45 4.7 SampTy Batch Analysis D Result ND	PQL 10: 29: ME ID: 10:	273 2/20/2016 SPK value 50.00 5.000 8LK 273 2/20/2016	SPK Ref Val 0 Test	RunNo: 3 SeqNo: 1 %REC 89.5 94.4 tCode: El RunNo: 3 SeqNo: 1	9526 238583 LowLimit 63.8 70 PA Method 9526 238584	Units: mg/k HighLimit 116 130 8015M/D: Di Units: mg/k	%RPD	RPDLimit e Organics	
Client ID: LCSS Prep Date: 12/19/2016 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID MB-29273 Client ID: PBS Prep Date: 12/19/2016 Analyte	Batch Analysis D Result 45 4.7 SampTy Batch Analysis D Result	PQL 10: 29: ME ID: 29: ME ID: 29: PQL PQL PQL PQL	273 2/20/2016 SPK value 50.00 5.000 8LK 273 2/20/2016	SPK Ref Val 0 Test	RunNo: 3 SeqNo: 1 %REC 89.5 94.4 tCode: El RunNo: 3 SeqNo: 1	9526 238583 LowLimit 63.8 70 PA Method 9526 238584	Units: mg/k HighLimit 116 130 8015M/D: Di Units: mg/k	%RPD	RPDLimit e Organics	

- * 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
- Page 4 of 6

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

Hall Environmental Analysis Laboratory, Inc.

Result

26

970

PQL

5.0

WO#:

1612827

21-Dec-16

Client:

Rule Engineering LLC

Project:

Analyte

Surr: BFB

Gasoline Range Organics (GRO)

COP East 9

Sample ID MB-29267	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS	Batch ID: 29267	RunNo: 39531
Prep Date: 12/19/2016	Analysis Date: 12/20/2016	SeqNo: 1238284 Units: mg/Kg
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO)	ND 5.0	
Surr: BFB	860 1000	86.3 68.3 144
Sample ID LCS-29267	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: LCSS	Batch ID: 29267	RunNo: 39531
Prep Date: 12/19/2016	Analysis Date: 12/20/2016	SeqNo: 1238285 Units: mg/Kg

0

%REC

103

97.0

LowLimit

74.6

68.3

HighLimit

123

144

%RPD

RPDLimit

Qual

SPK value SPK Ref Val

25.00

1000

- * 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
- Page 5 of 6

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

Hall Environmental Analysis Laboratory, Inc.

WO#: 1

1612827

21-Dec-16

Client:

Rule Engineering LLC

Project:

COP East 9

Project:	COP Eas	. ,									
Sample ID	MB-29267	Samp	Туре: МЕ	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	PBS	Batc	h ID: 29	267	F	RunNo: 3	9531				
Prep Date:	12/19/2016	Analysis [Date: 12	2/20/2016	5	SeqNo: 1	238317	Units: mg/k	(g		
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-Bron	nofluorobenzene	0.96		1.000		96.5	80	120			
Sample ID	LCS-29267	Samp	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	LCSS	Batc	h ID: 29	267	F	RunNo: 3	9531				
Prep Date:	12/19/2016	Analysis [Date: 12	2/20/2016	5	SeqNo: 1	238318	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.2	0.025	1.000	0	117	75.2	115			S
Toluene		1.0	0.050	1.000	0	103	80.7	112			
Ethylbenzene		1.0	0.050	1.000	0	100	78.9	117			
Xylenes, Total		3.0	0.10	3.000	0	100	79.2	115			
Surr: 4-Bron	nofluorobenzene	1.0		1.000		99.8	80	120			
Sample ID	1612827-001AMS	Samp	Гуре: М	3	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Sample ID Client ID:	1612827-001AMS TH-3 @ 8'		Гуре: М S			tCode: El		8021B: Volat	tiles		
·	TH-3 @ 8'		h ID: 29	267	F		9531	8021B: Volat			
Client ID:	TH-3 @ 8'	Batc	h ID: 29	267 2/20/2016	F	RunNo: 3	9531			RPDLimit	Qual
Client ID: Prep Date:	TH-3 @ 8'	Batci Analysis D	h ID: 29: Date: 12	267 2/20/2016	F	RunNo: 3 SeqNo: 1	9531 238319	Units: mg/K	(g	RPDLimit	Qual
Client ID: Prep Date: Analyte	TH-3 @ 8'	Analysis D Result 1.1 1.0	PQL 0.12 0.23	267 2/20/2016 SPK value	SPK Ref Val	RunNo: 3 SeqNo: 1 %REC	9531 238319 LowLimit 61.5 71.4	Units: mg/K	(g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene	TH-3 @ 8'	Result 1.1 1.0 1.9	h ID: 29: Date: 12 PQL 0.12	267 2/20/2016 SPK value 0.9251	SPK Ref Val 0 0 0.7725	RunNo: 3 SeqNo: 1 %REC 120 111 121	9531 238319 LowLimit 61.5 71.4 70.9	Units: mg/K HighLimit 138 127 132	(g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene	TH-3 @ 8'	Analysis D Result 1.1 1.0	PQL 0.12 0.23	2/20/2016 SPK value 0.9251 0.9251	SPK Ref Val	RunNo: 3 SeqNo: 1 %REC 120 111 121 123	9531 238319 LowLimit 61.5 71.4 70.9 76.2	Units: mg/K HighLimit 138 127	(g	RPDLimit	
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	TH-3 @ 8'	Result 1.1 1.0 1.9	PQL 0.12 0.23 0.23	2/20/2016 SPK value 0.9251 0.9251 0.9251	SPK Ref Val 0 0 0.7725	RunNo: 3 SeqNo: 1 %REC 120 111 121	9531 238319 LowLimit 61.5 71.4 70.9	Units: mg/K HighLimit 138 127 132	(g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron	TH-3 @ 8' 12/19/2016	Analysis E Result 1.1 1.0 1.9 11 5.7	PQL 0.12 0.23 0.23	2/20/2016 SPK value 0.9251 0.9251 0.9251 2.775 4.625	SPK Ref Val 0 0 0 0.7725 7.576	RunNo: 3 SeqNo: 1 %REC 120 111 121 123 123	9531 238319 LowLimit 61.5 71.4 70.9 76.2 80	Units: mg/K HighLimit 138 127 132 123	% RPD	RPDLimit	
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron	TH-3 @ 8' 12/19/2016	Result 1.1 1.0 1.9 11 5.7 D Samp	PQL 0.12 0.23 0.23 0.46	267 2/20/2016 SPK value 0.9251 0.9251 0.9251 2.775 4.625	SPK Ref Val 0 0 0.7725 7.576	RunNo: 3 SeqNo: 1 %REC 120 111 121 123 123	9531 238319 LowLimit 61.5 71.4 70.9 76.2 80 PA Method	Units: mg/K HighLimit 138 127 132 123 120	% RPD	RPDLimit	
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron	TH-3 @ 8' 12/19/2016 nofluorobenzene 1612827-001AMSI TH-3 @ 8'	Result 1.1 1.0 1.9 11 5.7 D Samp	PQL 0.12 0.23 0.23 0.46 Fype: MS 299	267 2/20/2016 SPK value 0.9251 0.9251 0.9251 2.775 4.625	SPK Ref Val 0 0 0.7725 7.576	RunNo: 3 SeqNo: 1 %REC 120 111 121 123 123 tCode: El	9531 238319 LowLimit 61.5 71.4 70.9 76.2 80 PA Method	Units: mg/K HighLimit 138 127 132 123 120	%RPD	RPDLimit	
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID Client ID:	TH-3 @ 8' 12/19/2016 nofluorobenzene 1612827-001AMSI TH-3 @ 8'	Result 1.1 1.0 1.9 11 5.7 D Sampl	PQL 0.12 0.23 0.23 0.46 Fype: MS 299	267 2/20/2016 SPK value 0.9251 0.9251 0.9251 2.775 4.625 6D 267 2/20/2016	SPK Ref Val 0 0 0.7725 7.576	RunNo: 3 SeqNo: 1 %REC 120 111 121 123 123 tCode: El	9531 238319 LowLimit 61.5 71.4 70.9 76.2 80 PA Method	Units: mg/K HighLimit 138 127 132 123 120 8021B: Volate	%RPD	RPDLimit RPDLimit	
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID Client ID: Prep Date:	TH-3 @ 8' 12/19/2016 nofluorobenzene 1612827-001AMSI TH-3 @ 8'	Result 1.1 1.0 1.9 11 5.7 D Samp Batcl	PQL 0.12 0.23 0.23 0.46 Type: MS h ID: 29: Date: 12	267 2/20/2016 SPK value 0.9251 0.9251 0.9251 2.775 4.625 6D 267 2/20/2016	SPK Ref Val 0 0 0.7725 7.576	RunNo: 3 SeqNo: 1: %REC 120 111 121 123 123 tCode: El	9531 238319 LowLimit 61.5 71.4 70.9 76.2 80 PA Method 9531 238320	Units: mg/K HighLimit 138 127 132 123 120 8021B: Volate Units: mg/K	%RPD	RPDLimit 20	S
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID Client ID: Prep Date: Analyte Benzene Toluene	TH-3 @ 8' 12/19/2016 nofluorobenzene 1612827-001AMSI TH-3 @ 8'	Result 1.1 1.0 1.9 11 5.7 D Samp Batcl Analysis E Result 1.1 1.1	PQL 0.12 0.23 0.46 PQL 0.12 0.23 0.46 PQL 0.12 0.24	267 2/20/2016 SPK value 0.9251 0.9251 2.775 4.625 3D 2/20/2016 SPK value 0.9690 0.9690	SPK Ref Val 0 0 0.7725 7.576 Tes SPK Ref Val 0 0	RunNo: 3 SeqNo: 1 %REC 120 111 121 123 123 tCode: EI RunNo: 3 SeqNo: 1: %REC	9531 238319 LowLimit 61.5 71.4 70.9 76.2 80 PA Method 9531 238320 LowLimit 61.5 71.4	Units: mg/K HighLimit 138 127 132 123 120 8021B: Volat Units: mg/K HighLimit 138 127	%RPD 5.15 4.71	RPDLimit 20 20	S
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene	TH-3 @ 8' 12/19/2016 nofluorobenzene 1612827-001AMSI TH-3 @ 8'	Result 1.1 1.0 1.9 11 5.7 D Samp Batcl Analysis E Result 1.1 1.1 1.9	PQL 0.12 0.23 0.46 Fype: MS 29: Fype: MS	267 2/20/2016 SPK value 0.9251 0.9251 2.775 4.625 SD 2/20/2016 SPK value 0.9690 0.9690 0.9690	SPK Ref Val 0 0 0.7725 7.576 Tes SPK Ref Val 0 0 0.7725	RunNo: 3 SeqNo: 1 %REC 120 111 121 123 123 tCode: EI RunNo: 3 SeqNo: 1: %REC 109 111 115	9531 238319 LowLimit 61.5 71.4 70.9 76.2 80 PA Method 9531 238320 LowLimit 61.5 71.4 70.9	Units: mg/K HighLimit 138 127 132 123 120 8021B: Volat Units: mg/K HighLimit 138 127 132	%RPD 5.15 4.71 0.481	RPDLimit 20 20 20 20	S
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	TH-3 @ 8' 12/19/2016 nofluorobenzene 1612827-001AMSI TH-3 @ 8'	Result 1.1 1.0 1.9 11 5.7 D Samp Batcl Analysis E Result 1.1 1.1	PQL 0.12 0.23 0.46 PQL 0.12 0.23 0.46 PQL 0.12 0.24	267 2/20/2016 SPK value 0.9251 0.9251 2.775 4.625 3D 2/20/2016 SPK value 0.9690 0.9690	SPK Ref Val 0 0 0.7725 7.576 Tes SPK Ref Val 0 0	RunNo: 3 SeqNo: 1 %REC 120 111 121 123 123 tCode: El RunNo: 3 SeqNo: 1: %REC 109 111	9531 238319 LowLimit 61.5 71.4 70.9 76.2 80 PA Method 9531 238320 LowLimit 61.5 71.4	Units: mg/K HighLimit 138 127 132 123 120 8021B: Volat Units: mg/K HighLimit 138 127	%RPD 5.15 4.71	RPDLimit 20 20	S

	37.1	11	0	r 1
A.	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
- Page 6 of 6

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



Hall Environmental Analysis Laboratory 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 N	Number: 1612827		RcptNo: 1	ptNo: 1							
Received by/date: AG 12/15	5/10		Management 110 mm 12 12 12 12 12 12 12 12 12 12 12 12 12								
Logged By: Ashley Gallegos 12/15/2016 8:1	0:00 AM	A									
Completed By: Ashley Gallegos 12/15/2016 844	5:00 AM	A		!							
Reviewed By:	116	V									
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								
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No [bottles checked for pH: (<2 or >12 unle	ss noted)							
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)											
	Van 🖂	No 🗆	NA 🗹								
16. Was client notified of all discrepancies with this order?	Yes	NO :!	NA 🖳								
	Date	hana 🗔 East	Ella Danas								
By Whom: Regarding:	Via: eMail F	Phone Fax	In Person								
Client Instructions:	enale filologica (p. 150 pictoria de enercia de enercia de enercia de entre de entre de entre de entre de entre	MENT PERMITTY THAT SOME HER HER WAS A STREET	SAMOR POLICIA DE TRANSPORTA SA DINORGANIZA DI RIPATA DE LA PARTICIA DEL PARTICIPA DEL PARTICIPA DE LA PARTICIA DEL PARTICIPA DE LA PARTICIPA DE LA PARTICIPA DEL PARTICIPA DEL PARTICIPA DE LA PARTICIPA DEL PAR								
17. Additional remarks:											
18. Cooler Information											
Cooler No Temp °C Condition Seal Intact Seal 1	No Seal Date	Signed By									

Chain-of-Custody Record		Turn-Around Time:			HALL ENVIRONMENTAL																
illing Address: 501 Amport Dr. 51+ 205		□ Standard X Rush 3- Day														RA					
		Project Name: Cop Course East #9 Project #:			www.hallenvironmental.com																
		Cop Doising # East #9			49	01 H	awki	ns N	IE -	Alb	uque	erqu	e, N	M 87	109						
Farmington NM 87401		Project #:				Te	el. 50	5-34	5-39		-			and the latest terminal termin	4107	7					
one #: Nowad Prulinging Com						Analysis Request															
nail or Fax#: (505) 716-2767			Project Manager:			=	(Gas only)	MRO)			SIMS)		,PO4,SO4)	S							
√QC Package: Standard □ Level 4 (Full Validation)			H. Woods			(8021)		DRO/M						2 PCB'							
credi	tation AP	□ Othe	er	Sampler: H. Wood I			1	TPH	-	8.1)	4.1)	3270		3,NO	/ 808		2				(Z
	(Type)			On Ice: ☐ Yes ☐ No Sample Temperature: ☐ ☐			#	3E +	(GRO	d 41	d 50	or	tals	8,	des	2	V0/				ζ)
ate	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	- 23	BTEX + MEDE	BTEX + MTBE	TPH 8015B	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles (Y or N)
BILL	1630	Soil	TH-368'	(1) YOF EIGH	Cold	-0051	X		V												
	1	Soil	·58-1@9-10	1		-00162	X		¥												
	1005	1	58-1011.	1		-003	X		X												
							_				_							_	_	_	
																-			\dashv	\dashv	_
	1						-			-									\dashv	+	+
							-									_		\rightarrow	\dashv	+	-
											_							_	+	+	+
							-												-	$\overline{}$	
ate:	Time:	Relinquish	ath M. Wood	Received by: Date Time 12/14/14 1717				Remarks: Dinct bill to ConcerPhillips													
ate:	Time:	Relinquish	bt Walt	Received by:	VI	Date Time 12/15/10 081	0														
	f necessary,	samples sub	mitted to Hall Environmental may be sub-	contracted to other ac	ocredited laboratorie	es. This serves as notice of thi	s possi	bility.	Any su	ıb-cont	racte	d data	will be	e clear	ly nota	ated or	n the a	nalytica	l repor	rt.	



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

March 13, 2017

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

FAX

RE: CoP East 9

OrderNo.: 1703446

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 4 sample(s) on 3/9/2017 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

Only

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1703446

Date Reported: 3/13/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Client Sample ID: SC-2

Project: CoP East 9

Collection Date: 3/8/2017 2:00:00 PM

Lab ID: 1703446-001

Matrix: SOIL

Received Date: 3/9/2017 7:10:00 AM

Analyses	Result	PQL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analys	t: TOM
Diesel Range Organics (DRO)	95	9.8	mg/Kg	1	3/10/2017 1:20:23 PM	30608
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/10/2017 1:20:23 PM	30608
Surr: DNOP	107	70-130	%Rec	1	3/10/2017 1:20:23 PM	30608
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	39	4.8	mg/Kg	1	3/10/2017 1:57:58 PM	30613
Surr: BFB	490	54-150	S %Rec	1	3/10/2017 1:57:58 PM	30613
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	3/10/2017 1:57:58 PM	30613
Toluene	ND	0.048	mg/Kg	1	3/10/2017 1:57:58 PM	30613
Ethylbenzene	0.16	0.048	mg/Kg	1	3/10/2017 1:57:58 PM	30613
Xylenes, Total	0.38	0.096	mg/Kg	1	3/10/2017 1:57:58 PM	30613
Surr: 4-Bromofluorobenzene	94.8	66.6-132	%Rec	1	3/10/2017 1:57:58 PM	30613

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

- 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 Page 1 of 7
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1703446

Date Reported: 3/13/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Client Sample ID: SC-3

Project: CoP East 9

Collection Date: 3/8/2017 1:30:00 PM

Lab ID: 1703446-002

Matrix: SOIL

Received Date: 3/9/2017 7:10:00 AM

Analyses	Result	PQL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S			Analyst	TOM
Diesel Range Organics (DRO)	130	9.8	mg/Kg	1	3/10/2017 1:42:20 PM	30608
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/10/2017 1:42:20 PM	30608
Surr: DNOP	107	70-130	%Rec	1	3/10/2017 1:42:20 PM	30608
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	NSB
Gasoline Range Organics (GRO)	74	9.6	mg/Kg	2	3/10/2017 7:12:12 PM	30613
Surr: BFB	489	54-150	S %Rec	2	3/10/2017 7:12:12 PM	30613
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.048	mg/Kg	2	3/10/2017 7:12:12 PM	30613
Toluene	ND	0.096	mg/Kg	2	3/10/2017 7:12:12 PM	30613
Ethylbenzene	0.19	0.096	mg/Kg	2	3/10/2017 7:12:12 PM	30613
Xylenes, Total	0.60	0.19	mg/Kg	2	3/10/2017 7:12:12 PM	30613
Surr: 4-Bromofluorobenzene	108	66.6-132	%Rec	2	3/10/2017 7:12:12 PM	30613

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 7 J
- P Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Lab Order 1703446

Date Reported: 3/13/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Client Sample ID: SC-4

Project: CoP East 9 Collection Date: 3/8/2017 1:37:00 PM

1703446-003 Lab ID:

Matrix: SOIL

Received Date: 3/9/2017 7:10:00 AM

Analyses	Result	PQL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S			Analyst	TOM
Diesel Range Organics (DRO)	120	9.6	mg/Kg	1	3/10/2017 2:04:22 PM	30608
Motor Oil Range Organics (MRO)	ND	48	mg/K	1	3/10/2017 2:04:22 PM	30608
Surr: DNOP	107	70-130	%Red	1	3/10/2017 2:04:22 PM	30608
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	NSB
Gasoline Range Organics (GRO)	28	4.8	mg/Kg	1	3/10/2017 7:38:33 PM	30613
Surr: BFB	413	54-150	S %Red	1	3/10/2017 7:38:33 PM	30613
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	3/10/2017 7:38:33 PM	30613
Toluene	ND	0.048	mg/Kg	, 1	3/10/2017 7:38:33 PM	30613
Ethylbenzene	0.085	0.048	mg/Kg	, 1	3/10/2017 7:38:33 PM	30613
Xylenes, Total	0.15	0.096	mg/Kg	, 1	3/10/2017 7:38:33 PM	30613
Surr: 4-Bromofluorobenzene	85.4	66.6-132	%Red	1	3/10/2017 7:38:33 PM	30613

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

- 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
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 7 J
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Lab Order 1703446

Date Reported: 3/13/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Client Sample ID: SC-5

CoP East 9 Project:

Collection Date: 3/8/2017 2:08:00 PM

1703446-004 Lab ID:

Matrix: SOIL

Received Date: 3/9/2017 7:10:00 AM

Analyses	Result	PQL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANIC	S			Analyst	TOM
Diesel Range Organics (DRO)	120	9.9	mg/Kg	1	3/10/2017 2:26:16 PM	30608
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/10/2017 2:26:16 PM	30608
Surr: DNOP	107	70-130	%Rec	1	3/10/2017 2:26:16 PM	30608
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	NSB
Gasoline Range Organics (GRO)	22	4.8	mg/Kg	1	3/10/2017 8:04:57 PM	30613
Surr: BFB	361	54-150	S %Rec	1	3/10/2017 8:04:57 PM	30613
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	3/10/2017 8:04:57 PM	30613
Toluene	ND	0.048	mg/Kg	1	3/10/2017 8:04:57 PM	30613
Ethylbenzene	0.083	0.048	mg/Kg	1	3/10/2017 8:04:57 PM	30613
Xylenes, Total	0.18	0.096	mg/Kg	1	3/10/2017 8:04:57 PM	30613
Surr: 4-Bromofluorobenzene	86.0	66.6-132	%Rec	1	3/10/2017 8:04:57 PM	30613

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

- 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
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 4 of 7 J
- P Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1703446

13-Mar-17

Client:

Rule Engineering LLC

Project:

CoP East 9

Sample ID LCS-30608	SampT	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: LCSS	Batch	Batch ID: 30608			RunNo: 41288					
Prep Date: 3/9/2017	Analysis D	ate: 3/	10/2017	5	SeqNo: 1	293867	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.5	63.8	116			
Surr: DNOP	4.8		5.000		96.8	70	130			
		SampType: MBLK TestCode: EPA Method 8								
Sample ID MB-30608	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Sample ID MB-30608 Client ID: PBS		ype: ME			tCode: El		8015M/D: Die	esel Rango	e Organics	
		ID: 30 6		F		1288	8015M/D: Did	Ü	e Organics	
Client ID: PBS	Batch	ID: 30 6	608 10/2017	F	RunNo: 4	1288		Ü	e Organics RPDLimit	Qual
Client ID: PBS Prep Date: 3/9/2017	Batch Analysis D	ID: 30 0	608 10/2017	F	RunNo: 4 SeqNo: 1	1288 293868	Units: mg/K	(g	J	Qual
Client ID: PBS Prep Date: 3/9/2017 Analyte	Batch Analysis D Result	n ID: 30 6 rate: 3 7	608 10/2017	F	RunNo: 4 SeqNo: 1	1288 293868	Units: mg/K	(g	J	Qual

- 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
- Page 5 of 7

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1703446

13-Mar-17

Client:

Rule Engineering LLC

Project:

CoP East 9

Project: CoP	East 9									
Sample ID MB-30613	SampTy	/pe: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID: PBS	Batch	ID: 30	613	F	RunNo: 4	1306				
Prep Date: 3/9/2017	Analysis Da	ate: 3/	10/2017	S	SeqNo: 1	294532	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO	O) ND	5.0								
Surr: BFB	820		1000		81.9	54	150			
Sample ID LCS-30613	SampTy	/pe: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID: LCSS	Batch	ID: 30	613	R	RunNo: 4	1306				
Prep Date: 3/9/2017	Analysis Da	ate: 3/	10/2017	S	SeqNo: 1:	294534	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO	0) 24	5.0	25.00	0	96.2	76.4	125			
Surr: BFB	990		1000		99.4	54	150			
Sample ID 1703446-002	AMS SampTy	/pe: MS	3	Test	Code: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID: SC-3	Batch	ID: 30	613	R	unNo: 4	1306				
Prep Date: 3/9/2017	Analysis Da	ate: 3/	10/2017	S	SeqNo: 1	294552	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO	95	9.4	23.54	73.67	91.0	61.3	150			
Surr: BFB	8700		1883		461	54	150			S
Sample ID 1703446-002	AMSD SampTy	pe: MS	SD	Test	Code: EF	PA Method	8015D: Gaso	line Rang	е	
Client ID: SC-3	Batch	ID: 30	613	R	tunNo: 4	1306				
Prep Date: 3/9/2017	Analysis Da	ate: 3/	10/2017	S	eqNo: 1	294553	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO	,	9.7	24.25	73.67	66.7	61.3	150	5.66	20	
Surr: BFB	8500		1940		438	54	150	0	0	S

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

D.

Page 6 of 7

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1703446 13-Mar-17

Client:

Rule Engineering LLC

Project:

CoP East 9

Project:	CoP East	9									
Sample ID	MB-30613	SampT	ype: MI	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	PBS	Batch	1D: 30	613	F	RunNo: 4	41306				
Prep Date:	3/9/2017	Analysis D	ate: 3/	/10/2017	5	SeqNo: '	1294570	Units: mg/h	〈 g		
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-Bron	nofluorobenzene	0.90		1.000		89.9	66.6	132			
Sample ID	LCS-30613	SampT	ype: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	LCSS	Batch	ID: 30	613	F	RunNo: 4	41306				
Prep Date:	3/9/2017	Analysis D	ate: 3/	10/2017	5	SeqNo: 1	1294577	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.96	0.025	1.000	0	95.7	80	120			
Toluene		0.96	0.050	1.000	0	96.4	80	120			
Ethylbenzene		0.97	0.050	1.000	0	97.1	80	120			
Xylenes, Total		3.0	0.10	3.000	0	99.6	80	120			
Surr: 4-Bron	nofluorobenzene	0.86		1.000		86.1	66.6	132			
Sample ID	1703446-001AMS	SampT	уре: М	S	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	SC-2	Batch	ID: 30	613	F	RunNo: 4	11306				
Prep Date:	3/9/2017	Analysis D	ate: 3/	10/2017	5	SeqNo: 1	1294589	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.1	0.025	0.9950	0.01126	112	61.5	138			
Toluene		1.2	0.050	0.9950	0	117	71.4	127			
Ethylbenzene		1.3	0.050	0.9950	0.1610	115	70.9	132			
Xylenes, Total		3.9	0.10	2.985	0.3814	118	76.2	123			
Surr: 4-Bron	nofluorobenzene	0.93		0.9950		93.8	66.6	132			
Sample ID	1703446-001AMSE) SampT	ype: MS	SD	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID:	SC-2	Batch	ID: 30	613	F	RunNo: 4	11306				
Prep Date:	3/9/2017	Analysis D	ate: 3/	10/2017	5	SeqNo: 1	1294591	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.1	0.024	0.9588	0.01126	115	61.5	138	0.672	20	
Delizerie				0.0500	0	400	71 4	127	0.044	20	
Toluene		1.2	0.048	0.9588	0	120	71.4		0.644	20	
Toluene Ethylbenzene		1.3	0.048	0.9588	0.1610	115	70.9	132	3.49	20	
Toluene Ethylbenzene Xylenes, Total	nofluorobenzene										

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

Page 7 of 7

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	RULE ENGINEERING LL	Work Order Number	er: 1703446		RcptNo:	1
Received by/date:	AT	03/09/17				
Logged By:	Lindsay Mangin	3/9/2017 7:10:00 AM	ı	James Harry		
Completed By:	Lindsay Mangin	3/9/2017 9:12:48 AM	ı	James Harry		
Reviewed By:	#100T	03/09/17				
Chain of Custo	ody	0-10111		-		
1. Custody seals	intact on sample bottles?		Yes	No 🗆	Not Present	
2. Is Chain of Cu	stody complete?		Yes 🗸	No 🗌	Not Present	
3. How was the s	sample delivered?		Courier			
Log In						
4. Was an attem	pt made to cool the samples	?	Yes 🗹	No 🗆	NA 🗌	
5. Were all samp	oles received at a temperatur	e of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	
6. Sample(s) in p	proper container(s)?		Yes 🗹	No 🗌		
7. Sufficient sam	ple volume for indicated test	s)? .	Yes 🗸	No 🗌		
8. Are samples (except VOA and ONG) prope	rly preserved?	Yes 🗸	No 🗌		
9. Was preservat	tive added to bottles?		Yes	No 🗹	NA 🗌	
10. VOA vials have	e zero headspace?		Yes	No 🗆	No VOA Vials	
11. Were any sam	nple containers received brok	en?	Yes	No 🗹	# of proposed	
					# of preserved bottles checked	
	ork match bottle labels? Incies on chain of custody)		Yes 🗸	No L	for pH: (<2 or	>12 unless noted)
	correctly identified on Chain of	f Custody?	Yes 🗸	No 🗆	Adjusted?	
	analyses were requested?		Yes 🗸	No 🗆		
	ng times able to be met?		Yes 🗸	No 🗆	Checked by:	
(If no, notify cu	ustomer for authorization.)					
Special Handli	ng (if applicable)					
16. Was client not	ified of all discrepancies with	this order?	Yes	No 🗆	NA 🗹	
Person N	Notified:	Date		and the same and t		
By Whor	n:	Via:	eMail 🔲 I	Phone Fax	☐ In Person	
Regardin	Paris and the second se					
Client Ins	structions:			A 11/2/02/04/04/04/04/04/04/04/04/04/04/04/04/04/		
17. Additional rem	narks:					
18. Cooler Inform	1	eal Intact Seal No	Seal Date	Signed By I		
1	1.0 Good Ye		Geal Date	Signed By		
A 14 M. APANAS - Nac 14 To ack her received	A CONTRACTOR OF THE PROPERTY O		V	## 13.1 M. 186 M. 183.1 14.1 14.1 14.1 14.1 14.1 14.1 14.1 1		

Chain-of-Custody Record	Turn-Around Time:	HALL ENVIRONMENTAL
Client: Rule Engineering, LLC	Standard Rush Die 03/(3/17	HALL ENVIRONMENTAL ANALYSIS LABORATORY
The state of the s	Project Name:	www.hallenvironmental.com
Mailing Address: 501 Airport Drive Ste 205	Cop East #9	4901 Hawkins NE - Albuquerque, NM 87109
English ALAN 87401	Project #:	Tel. 505-345-3975 Fax 505-345-4107
Farmington, N.M 87401 Phone #: (805) 716-2787		Analysis Request
email or Fax#: hwoods@ruleengineering. Con	Project Manager:	
QA/QC Package:		H' (Gas only) DRO / MRO SIMS) SIMS) 82 PCB's
Ŋ Standard □ Level 4 (Full Validation)	Heather Woods	SIMS)
Accreditation	Sampler: Heather Woods On Ice: XYes Woods	+ TPH (Gas onl RO / DRO / MR 18.1) 04.1) 8270 SIMS) s / 8082 PCB's s / 8082 PCB's
□ NELAP □ Other	On Ice: XYes Wino	E + 4TM E + TPI 3RO / [504.1) or 8270 NO ₃ ,NO es / 806 es / 806
□ EDD (Type)	Sample Temperature:	+ MTBE 015B (G 015B (G Method 4 Method 5 (8310 or 8 Metals (C,N) Pesticide (VOA) Semi-VC
Date Time Matrix Sample Request ID	Container Preservative HEAL No.	K + MEBE + 42M K + MTBE + TP! 8015B (GRO / I (Method 418.1) (Method 504.1) s (8310 or 8270 A 8 Metals Is (F,CI,NO ₃ ,NC Pesticides / 800 B (VOA) (Semi-VOA)
Date Time Matrix Sample Request ID	Type and # Type TUZHUG	BTEX + MEBS + 4MBS (8021) BTEX + MTBE + TPH (Gas only) TPH 8015B (GRO / DRO / MRO) TPH (Method 418.1) EDB (Method 504.1) PAH'S (8310 or 8270 SIMS) RCRA 8 Metals Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄) 8081 Pesticides / 8082 PCB's 8260B (VOA) 8270 (Semi-VOA)
3/8/17 1400 5011 SC-Z	(1)4026less; cold -01	XXX
3/8/17 1330 Soil SC-3	(1) 4 07 6455 COLD -00Z	X X
3/8/17 1337 Soil SC-4	(1)402 Glass Cold -003	X X
3/8/17 1408 SOIL SC-5	(1)40261000 Cold -004	X X
NA.		
MS HW		
	and the same state of the same	

	100	
Date: Time: Relinquished by:	Received by: Date Time	Remarks: Direct Bill to Conoco Phillips
Date: Time: Relifiquished by:	Received by Date Time	Sirect Dim No Conscient Parish on 03/13/17
9/8/m 1952 Christine Waste	Una 203/09/17/07/6	Ar 03/09/17
		possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

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

March 14, 2017

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

FAX

RE: CoP East 9

OrderNo.: 1703536

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 2 sample(s) on 3/10/2017 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

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1703536

Date Reported: 3/14/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Client Sample ID: SC-1

Project: CoP East 9

Collection Date: 3/9/2017 7:50:00 AM

Lab ID: 1703536-001

Matrix: MEOH (SOIL) Received Date: 3/10/2017 7:08:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	S				Analyst	: MAB
Diesel Range Organics (DRO)	280	9.5		mg/Kg	1	3/13/2017 10:41:28 AM	30627
Motor Oil Range Organics (MRO)	100	48		mg/Kg	1	3/13/2017 10:41:28 AM	30627
Surr: DNOP	88.9	70-130		%Rec	1	3/13/2017 10:41:28 AM	30627
EPA METHOD 8015D: GASOLINE RANG	SE .					Analyst	: NSB
Gasoline Range Organics (GRO)	270	37		mg/Kg	10	3/10/2017 6:19:43 PM	30613
Surr: BFB	380	54-150	S	%Rec	10	3/10/2017 6:19:43 PM	30613
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.19		mg/Kg	10	3/10/2017 6:19:43 PM	30613
Toluene	ND	0.37		mg/Kg	10	3/10/2017 6:19:43 PM	30613
Ethylbenzene	1.2	0.37		mg/Kg	10	3/10/2017 6:19:43 PM	30613
Xylenes, Total	8.8	0.74		mg/Kg	10	3/10/2017 6:19:43 PM	30613
Surr: 4-Bromofluorobenzene	111	66.6-132		%Rec	10	3/10/2017 6:19:43 PM	30613

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

- * 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 Page 1 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1703536

Date Reported: 3/14/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Client Sample ID: SC-6

Project: CoP East 9

Collection Date: 3/9/2017 7:45:00 AM

Lab ID: 1703536-002

Matrix: MEOH (SOIL) Received Date: 3/10/2017 7:08:00 AM

Analyses	Result	PQL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S				Analyst	MAB
Diesel Range Organics (DRO)	170	10		mg/Kg	1	3/13/2017 11:09:12 AM	30627
Motor Oil Range Organics (MRO)	76	50		mg/Kg	1	3/13/2017 11:09:12 AM	30627
Surr: DNOP	89.8	70-130		%Rec	1	3/13/2017 11:09:12 AM	30627
EPA METHOD 8015D: GASOLINE RANG	BE					Analyst	NSB
Gasoline Range Organics (GRO)	530	38		mg/Kg	10	3/10/2017 6:45:52 PM	30613
Surr: BFB	375	54-150	S	%Rec	10	3/10/2017 6:45:52 PM	30613
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	0.42	0.19		mg/Kg	10	3/10/2017 6:45:52 PM	30613
Toluene	ND	0.38		mg/Kg	10	3/10/2017 6:45:52 PM	30613
Ethylbenzene	3.4	0.38		mg/Kg	10	3/10/2017 6:45:52 PM	30613
Xylenes, Total	11	0.75		mg/Kg	10	3/10/2017 6:45:52 PM	30613
Surr: 4-Bromofluorobenzene	106	66.6-132		%Rec	10	3/10/2017 6:45:52 PM	30613

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

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- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 5
- P Sample pH Not In Range
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- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1703536

14-Mar-17

Client:

Rule Engineering LLC

Project:

CoP East 9

Sample ID MB-30627	SampT	уре: М	BLK	Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch	Batch ID: 30627			RunNo: 41321					
Prep Date: 3/10/2017	Analysis D	Analysis Date: 3/13/2017			SeqNo: 1	294825	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.8		10.00		87.5	70	130			
Sample ID LCS-30627	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	n ID: 30	627	F	RunNo: 4	1321				
Prep Date: 3/10/2017	Analysis D	ate: 3/	13/2017	S	SeqNo: 1	294826	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.5	63.8	116			
Surr: DNOP	4.5		5.000		89.2	70	130			

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- Page 3 of 5

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- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1703536

14-Mar-17

Client:

Rule Engineering LLC

Project:

CoP East 9

Sample ID MB-30613	SampT	ype: ME	BLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch	ID: 30	613	F								
Prep Date: 3/9/2017	Analysis D	Analysis Date: 3/10/2017 SeqNo: 1294532					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	820		1000		81.9	54	150					
Sample ID LCS-30613	SampType: LCS TestCode: EPA Method 8015D: Gasoline Range											
Client ID: LCSS	Batch ID: 30613 RunNo: 41306											
Prep Date: 3/9/2017	Analysis D	ate: 3/	10/2017	S	SeqNo: 12	294534	Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.2	76.4	125					
3 - 3 - 7												

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- Page 4 of 5

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- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1703536

14-Mar-17

Client:

Rule Engineering LLC

Project:

CoP East 9

Sample ID MB-30613	SampTy	/ре: МЕ	BLK	Tes	tCode: E								
Client ID: PBS	Batch	ID: 30	613	F	RunNo: 4								
Prep Date: 3/9/2017	Analysis Da	Analysis Date: 3/10/2017				294570	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	0.90		1.000		89.9	66.6	132						
Sample ID LCS-30613	SampTy	SampType: LCS TestCode: EPA Method 8021B: Volatiles											
Client ID: LCSS	Batch	ID: 306	613	R	RunNo: 4	1306							
Prep Date: 3/9/2017	Analysis Da	ate: 3/	10/2017	S	SeqNo: 1	294577	Units: mg/K	(g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	0.96	0.025	1.000	0	95.7	80	120						
Toluene	0.96	0.050	1.000	0	96.4	80	120						
Ethylbenzene	0.97 0.050 1.000 0 97.1 8					80	120						
Xylenes, Total	3.0	0.10	3.000	0	99.6	80	120						
Surr: 4-Bromofluorobenzene	0.86		1.000		86.1	66.6	132						

Qualifiers:

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Page 5 of 5



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 ENGINE	ERING LL Work Order Nun	nber: 1703536		RcptNo:	1
Received by/date:	03/10/17				
Logged By: Lindsay Mang	in 3/10/2017 7:08:00	AM	Juney Hayes		!
Completed By: Lindsay Mang	in 3/10/2017 7:50:24	AM	Simby Halow		
Reviewed By:	03/0/17		000		
Chain of Custody					
1. Custody seals intact on samp	le bottles?	Yes 🗌	No 🗌	Not Present	
2. Is Chain of Custody complete	?	Yes 🗸	No 🗌	Not Present	
3. How was the sample delivere	d?	Courier			
Log In					
4. Was an attempt made to coo	I 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 containe	r(s)?	Yes 🗸	No 🗌		
7. Sufficient sample volume for i	ndicated test(s)?	Yes 🗸	No 🗌		
8. Are samples (except VOA and	d ONG) properly preserved?	Yes 🗹	No 🗌		
9. Was preservative added to be	ottles?	Yes	No 🗸	NA 🗌	
10.VOA vials have zero headspa	ce?	Yes	No 🗌	No VOA Vials	
11. Were any sample containers	received broken?	Yes	No 🗹 -	# of preserved	
12. Does paperwork match bottle	labels?	Yes 🗸	No 🗌	bottles checked for pH:	——
(Note discrepancies on chain			\square	(<2 or Adjusted?	>12 unless noted)
13. Are matrices correctly identified		Yes 🗹	No L	Adjusted !	
14. Is it clear what analyses were		Yes 🗹	No L	Checked by:	
Were all holding times able to (If no, notify customer for auth		Yes 🗸	No 🗀 -	Officered by.	-
Special Handling (if applic	able)				
16. Was client notified of all discre		Yes 🗌	No 🗆	NA 🗹	
Person Notified:	Dat	е .	STATE OF THE PROPERTY OF THE P		
By Whom:	Via	: BeMail P	hone Fax [In Person	
Regarding:			COLORADA DA PARA LOS COMUNICAS COM		
Client Instructions:	######################################	ACTION TO THE TENNESS OF THE TOTAL OF THE TO	AMERICA SERVICE SERVIC	other North Table cools and supplied to the first of 1974.	
17. Additional remarks:					
	Condition Seal Intact Seal No	Seal Date	Signed By		
·					

Client: Rule Fingingering, LLC Mailing Address: 501 Airport Drive, Ste 205 Farmington, NM 87401 Phone #: (505) 716-2787 email or Fax#: hwoods@ruleangingering. Com QA/QC Package: Standard			Project #: Project Manager: Heather Woods Sampler: Heather Woods				HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request													
							TPH (Gas only)	/ DRO / MF	.1)	(1)	8270 SIMS)		NO2, PO4, SC	8082 PCB's					î	
□ EDD		Matrix	Sample Request ID	A LANGE OF THE PARTY OF THE PAR	Yes perature: 1_2 Preservative Type		BTEX + MERE +CRAPS (8021)	BTEX + MTBE +	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)			Air Bubbles (Y or N)
19/17	750	501	5C-1	(1)402Glas	Cold	-001	×	ш	×	_			ш.	-	ω.	80	00			4
3/0/17	745	50:1	SC-6	(1)4026km	Cold	-002	*		*						<i>(i)</i>					
			H. E. H.																	
										-								_), (i)	
Date: 3/9/17 Date: 3/9/17	Time: 1720 Time: [85]	Relinquish Relinquish Samples sub	the M. Woods withe Wester	Received by: Received by: Contracted to other/ar	L Words	Date Time 3/9/17/1720 Date Time 3/0/17/0/788 Bas. This serves as notice of the	D		⊦ Bi								i the ar	nalytical r	eport.	

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