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

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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

			Rele	ease Notific	ation	and Co	orrective A	ction						
						OPERATOR								
Name of Co		lcorp Energy	Compai	ny (HEC)		Contact Cla	1000							
Address 9a							No. 505-564-073	33						
Facility Nar	ne Albrigh	nt 11]	Facility Typ	e Well							
Surface Ow	ner Federa	ıl		Mineral C	wner F	ner Federal (SF-077865) API No. 30-045-25702								
				LOCA	TION	OF RE	LEASE							
Unit Letter I	Section 22	Township 29N	Range 10W	Feet from the 1862	North/South	South Line	Feet from the 860	East/V East	Vest Line	County San Juan				
		I	_atitude_	36.7096252	Lo	ngitude1	07.8660202	_ NA	D83					
				NAT	URE	OF REL	EASE							
Type of Relea		hydrocarbon					Release Unknow			Recovered n				
Source of Rel BGT	lease					Date and F Unknown	Iour of Occurrenc	е	Date and 11/28/201	Hour of Dis 17 09:00	covery			
Was Immedia	ate Notice (Yes [No Not Re	equired	If YES, To Vanessa Fi	Whom? elds NMOCD &	Whitney	Thomas H	BLM FFO				
By Whom? L	isa Hunter				1		Iour 11/28/2017 1				oicemail	1		
Was a Watercourse Reached? ☐ Yes ☒ No						If YES, Vo	lume Impacting t	he Wate	ercourse.	_				
If a Watercou	irse was Im						e procedition of the ex-	NMC	CD	14.				
ii a watercou	irse was im	pacted, Descr	ioc i uny.					IA IAI C	U					
							Δ	PR 2	3 2018					
Describe Cau Pulled the fib NMOCD to r	erglass BG	T at the Albri	ght 11 for	upgrade to the ste	el pit tan	ik for upcom	DIS ing frac work and	discove	red impact	ted soil bene	ath tanl	k. Contacted		
Thursday Rul	removal be le Engineer 30 late after	egin on 11/29. ing was called rnoon and con	Results fi to the site firmation	om the 5-point co to help with the sampling was sch	delineati	on and field	orable so HEC contesting, Excavation 2/4. Total impact	n to fav	orable field	d results was	s compl	leted on		
regulations al public health should their o	I operators or the envir operations h nment. In a	are required to conment. The ave failed to a ddition, NMC	acceptant acceptant dequately CD accep	nd/or file certain rece of a C-141 reporting and re	elease no ort by the emediate	otifications and NMOCD materials	knowledge and und perform correct arked as "Final Room that pose a three the operator of room the contract of the operator of room that pose a three the operator of room that pose a three the operator of room that pose and under the operator of room that pose are the operator of the operator operator of the operator of the operator operator operator of the operator operato	tive acti eport" d eat to gr	ons for rele oes not reli ound water	eases which ieve the open s, surface wa	may en rator of ater, hur	ndanger Tliability man health		
Signature:	Clara	a Con	2				OIL CONS	SERV	ATION /	DIVISIO)N)	Q		
Printed Name	: Clara Car	doza	0		A	Approved by	Environmental Sp	pecialist	· / in	my	2	/		
Title: Enviror	nmental Spe	ecialist			A	Approval Dat	e: 5/9/18	I	Expiration	Date:				
E-mail Addre	ess: ccardoz	a@hilcorp.com	n			Conditions of	Approval:	_		Attached				
Date: 04/16/				5-564-0733										
Attach Addit	nonai Shee	as II Necess	The The	NUF 173	423	0051					6	30		



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

December 13, 2017

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

FAX

RE: HEC Albright 11

OrderNo.: 1712163

Dear Heather Woods:

Hall Environmental Analysis Laboratory received 10 sample(s) on 12/5/2017 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 qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1712163

Date Reported: 12/13/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Project: HEC Albright 11

Lab ID: 1712163-001

Client Sample ID: SC-1

Collection Date: 12/4/2017 11:20:00 AM

Received Date: 12/5/2017 7:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analys	t: TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	12/12/2017 2:16:53 PN	1 35429
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/12/2017 2:16:53 PN	1 35429
Surr: DNOP	111	70-130	%Rec	1	12/12/2017 2:16:53 PM	1 35429
EPA METHOD 8015D: GASOLINE RAM	IGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/11/2017 9:58:55 AN	1 35409
Surr: BFB	120	15-316	%Rec	1	12/11/2017 9:58:55 AN	1 35409
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.024	mg/Kg	1	12/11/2017 9:58:55 AN	1 35409
Toluene	ND	0.049	mg/Kg	1	12/11/2017 9:58:55 AN	1 35409
Ethylbenzene	ND	0.049	mg/Kg	1	12/11/2017 9:58:55 AM	1 35409
Xylenes, Total	ND	0.097	mg/Kg	1	12/11/2017 9:58:55 AN	1 35409
Surr: 4-Bromofluorobenzene	107	80-120	%Rec	1	12/11/2017 9:58:55 AN	35409

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
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 16
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1712163

Date Reported: 12/13/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Project: HEC Albright 11

Lab ID: 1712163-002

Client Sample ID: SC-2

Collection Date: 12/4/2017 11:10:00 AM

Received Date: 12/5/2017 7:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3			Analyst	TOM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	12/11/2017 6:31:34 PM	35365
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/11/2017 6:31:34 PM	35365
Surr: DNOP	102	70-130	%Rec	1	12/11/2017 6:31:34 PM	35365
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/7/2017 1:38:36 PM	35357
Surr: BFB	111	15-316	%Rec	1	12/7/2017 1:38:36 PM	35357
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.024	mg/Kg	1	12/7/2017 1:38:36 PM	35357
Toluene	ND	0.048	mg/Kg	1	12/7/2017 1:38:36 PM	35357
Ethylbenzene	ND	0.048	mg/Kg	1	12/7/2017 1:38:36 PM	35357
Xylenes, Total	ND	0.097	mg/Kg	1	12/7/2017 1:38:36 PM	35357
Surr: 4-Bromofluorobenzene	107	80-120	%Rec	1	12/7/2017 1:38:36 PM	35357

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
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 16
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1712163

Date Reported: 12/13/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Project: HEC Albright 11

Lab ID: 1712163-003

Client Sample ID: SC-3

Collection Date: 12/4/2017 11:35:00 AM

Received Date: 12/5/2017 7:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3		•	Analys	:: TOM
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	12/11/2017 6:55:35 PM	35365
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/11/2017 6:55:35 PM	35365
Surr: DNOP	101	70-130	%Rec	1	12/11/2017 6:55:35 PM	35365
EPA METHOD 8015D: GASOLINE RAM	NGE				Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/7/2017 5:59:25 PM	35357
Surr: BFB	108	15-316	%Rec	1	12/7/2017 5:59:25 PM	35357
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.024	mg/Kg	1	12/7/2017 5:59:25 PM	35357
Toluene	ND	0.047	mg/Kg	1	12/7/2017 5:59:25 PM	35357
Ethylbenzene	ND	0.047	mg/Kg	1	12/7/2017 5:59:25 PM	35357
Xylenes, Total	ND	0.095	mg/Kg	1	12/7/2017 5:59:25 PM	35357
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	12/7/2017 5:59:25 PM	35357

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
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 16
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1712163

Date Reported: 12/13/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Project: HEC Albright 11

Lab ID: 1712163-004

Client Sample ID: SC-4

Collection Date: 12/4/2017 11:40:00 AM

Received Date: 12/5/2017 7:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3	-		Analy	st: TOM
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	12/11/2017 7:19:25 P	M 35365
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	12/11/2017 7:19:25 P	M 35365
Surr: DNOP	102	70-130	%Rec	1	12/11/2017 7:19:25 P	M 35365
EPA METHOD 8015D: GASOLINE RAN	NGE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/7/2017 7:10:05 PN	A 35357
Surr: BFB	106	15-316	%Rec	1	12/7/2017 7:10:05 PN	1 35357
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.024	mg/Kg	1	12/7/2017 7:10:05 PN	A 35357
Toluene	ND	0.047	mg/Kg	1	12/7/2017 7:10:05 PN	M 35357
Ethylbenzene	ND	0.047	mg/Kg	1	12/7/2017 7:10:05 PN	A 35357
Xylenes, Total	ND	0.095	mg/Kg	1	12/7/2017 7:10:05 PM	35357
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	12/7/2017 7:10:05 PN	M 35357

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
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 16
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1712163

Date Reported: 12/13/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Project: HEC Albright 11

Lab ID: 1712163-005

Client Sample ID: SC-5

Collection Date: 12/4/2017 11:50:00 AM

Received Date: 12/5/2017 7:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	5			Analys	t: TOM
Diesel Range Organics (DRO)	78	9.5	mg/Kg	1	12/12/2017 1:03:29 PM	A 35365
Motor Oil Range Organics (MRO)	240	48	mg/Kg	1	12/12/2017 1:03:29 PM	A 35365
Surr: DNOP	114	70-130	%Rec	1	12/12/2017 1:03:29 PM	A 35365
EPA METHOD 8015D: GASOLINE RAN	IGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	12/7/2017 7:33:36 PM	35357
Surr: BFB	106	15-316	%Rec	1	12/7/2017 7:33:36 PM	35357
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.023	mg/Kg	1	12/7/2017 7:33:36 PM	35357
Toluene	ND	0.046	mg/Kg	1	12/7/2017 7:33:36 PM	35357
Ethylbenzene	ND	0.046	mg/Kg	1	12/7/2017 7:33:36 PM	35357
Xylenes, Total	ND	0.093	mg/Kg	1	12/7/2017 7:33:36 PM	35357
Surr: 4-Bromofluorobenzene	100	80-120	%Rec	1	12/7/2017 7:33:36 PM	35357

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
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 16
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1712163

Date Reported: 12/13/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

HEC Albright 11

Lab ID: 1712163-006

Project:

Client Sample ID: SC-6

Collection Date: 12/4/2017 11:54:00 AM

Received Date: 12/5/2017 7:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3			Analy	/st: TOM
Diesel Range Organics (DRO)	130	9.6	mg/Kg	1	12/12/2017 11:50:27	AM 35365
Motor Oil Range Organics (MRO)	310	48	mg/Kg	1	12/12/2017 11:50:27	AM 35365
Surr: DNOP	103	70-130	%Rec	1	12/12/2017 11:50:27	AM 35365
EPA METHOD 8015D: GASOLINE RAM	IGE				Analy	/st: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/7/2017 7:57:03 Pf	M 35357
Surr: BFB	104	15-316	%Rec	1	12/7/2017 7:57:03 PI	M 35357
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.024	mg/Kg	1	12/7/2017 7:57:03 Pf	M 35357
Toluene	ND	0.047	mg/Kg	1	12/7/2017 7:57:03 PI	M 35357
Ethylbenzene	ND	0.047	mg/Kg	1	12/7/2017 7:57:03 PI	M 35357
Xylenes, Total	ND	0.094	mg/Kg	1	12/7/2017 7:57:03 PI	M 35357
Surr: 4-Bromofluorobenzene	97.3	80-120	%Rec	1	12/7/2017 7:57:03 PI	M 35357

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
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 6 of 16
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1712163

Date Reported: 12/13/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Project: HEC Albright 11

Lab ID: 1712163-007

Client Sample ID: SC-7

Collection Date: 12/4/2017 12:26:00 PM

Received Date: 12/5/2017 7:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	S			Analys	st: TOM
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	12/11/2017 8:31:09 PI	M 35365
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/11/2017 8:31:09 Pl	vi 35365
Surr: DNOP	103	70-130	%Rec	1	12/11/2017 8:31:09 PI	M 35365
EPA METHOD 8015D: GASOLINE RAN	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/7/2017 8:20:30 PM	35357
Surr: BFB	105	15-316	%Rec	1	12/7/2017 8:20:30 PM	35357
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.025	mg/Kg	1	12/7/2017 8:20:30 PM	35357
Toluene	ND	0.050	mg/Kg	1	12/7/2017 8:20:30 PM	35357
Ethylbenzene	ND	0.050	mg/Kg	1	12/7/2017 8:20:30 PM	35357
Xylenes, Total	ND	0.099	mg/Kg	1	12/7/2017 8:20:30 PM	35357
Surr: 4-Bromofluorobenzene	101	80-120	%Rec	1	12/7/2017 8:20:30 PM	35357

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
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 7 of 16
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1712163

Date Reported: 12/13/2017

12/7/2017 8:43:52 PM

12/7/2017 8:43:52 PM

12/7/2017 8:43:52 PM

12/7/2017 8:43:52 PM

35357

35357

35357

35357

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Project: HEC Albright 11

Lab ID: 1712163-008

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

Client Sample ID: SC-8

Collection Date: 12/4/2017 12:20:00 PM Received Date: 12/5/2017 7:00:00 AM

1

PQL Qual Units DF Date Analyzed Batch Result Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM 12/12/2017 12:14:49 PM 35365 34 Diesel Range Organics (DRO) 9.1 mg/Kg 12/12/2017 12:14:49 PM 35365 Motor Oil Range Organics (MRO) 120 46 mg/Kg 1 Surr: DNOP 105 %Rec 12/12/2017 12:14:49 PM 35365 70-130 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 4.7 mg/Kg 12/7/2017 8:43:52 PM 35357 Surr: BFB 12/7/2017 8:43:52 PM 35357 104 15-316 %Rec 1 **EPA METHOD 8021B: VOLATILES** Analyst: NSB 12/7/2017 8:43:52 PM 35357 Benzene ND 0.023 mg/Kg

0.047

0.047

0.094

80-120

mg/Kg

mg/Kg

mg/Kg

%Rec

Matrix: SOIL

ND

ND

ND

99.4

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
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 8 of 16
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1712163

Date Reported: 12/13/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Project: HEC Albright 11

Lab ID: 1712163-009

Client Sample ID: SC-9

Collection Date: 12/4/2017 11:45:00 AM

Matrix: SOIL Received Date: 12/5/2017 7:00:00 AM

Analyses	Result ⁻	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	3			Analy	st: TOM
Diesel Range Organics (DRO)	57	9.6	mg/Kg	1	12/12/2017 12:39:03	PM 35365
Motor Oil Range Organics (MRO)	170	48	mg/Kg	1	12/12/2017 12:39:03	PM 35365
Surr: DNOP	105	70-130	%Rec	1	12/12/2017 12:39:03	PM 35365
EPA METHOD 8015D: GASOLINE RAM	IGE				Analy	st: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	12/7/2017 9:07:15 PM	M 35357
Surr: BFB	105	15-316	%Rec	1	12/7/2017 9:07:15 PM	√l 35357
EPA METHOD 8021B: VOLATILES					Analy	st: NSB
Benzene	ND	0.023	mg/Kg	1	12/7/2017 9:07:15 PM	M 35357
Toluene	ND	0.047	mg/Kg	1	12/7/2017 9:07:15 PM	d 35357
Ethylbenzene	ND	0.047	mg/Kg	1	12/7/2017 9:07:15 PM	M 35357
Xylenes, Total	ND	0.093	mg/Kg	1	12/7/2017 9:07:15 PM	M 35357
Surr: 4-Bromofluorobenzene	99.1	80-120	%Rec	1	12/7/2017 9:07:15 PM	A 35357

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
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 9 of 16
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1712163

Date Reported: 12/13/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Rule Engineering LLC

Project: HEC Albright 11

Lab ID: 1712163-010

Client Sample ID: SC-10

Collection Date: 12/4/2017 12:10:00 PM

Received Date: 12/5/2017 7:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS	· · · · · · · · · · · · · · · · · · ·			Analyst	TOM
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	12/11/2017 9:42:30 PM	35365
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/11/2017 9:42:30 PM	35365
Surr: DNOP	104	70-130	%Rec	1	12/11/2017 9:42:30 PM	35365
EPA METHOD 8015D: GASOLINE RAM	IGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	12/7/2017 9:30:42 PM	35357
Surr: BFB	105	15-316	%Rec	1	12/7/2017 9:30:42 PM	35357
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.023	mg/Kg	1	12/7/2017 9:30:42 PM	35357
Toluene	ND	0.046	mg/Kg	1	12/7/2017 9:30:42 PM	35357
Ethylbenzene	ND	0.046	mg/Kg	1	12/7/2017 9:30:42 PM	35357
Xylenes, Total	ND	0.093	mg/Kg	1	12/7/2017 9:30:42 PM	35357
Surr: 4-Bromofluorobenzene	99.6	80-120	%Rec	1	12/7/2017 9:30:42 PM	35357

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
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 10 of 16
- 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#:

1712163

13-Dec-17

Client:

Rule Engineering LLC

Project:

HEC Albright 11

Project: HEC AIC			
Sample ID LCS-35365	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 35365	RunNo: 47518	
Prep Date: 12/6/2017	Analysis Date: 12/7/2017	SeqNo: 1520345	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	48 10 50.00		114
Surr: DNOP	4.5 5.000	89.3 70	130
Sample ID MB-35365	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 35365	RunNo: 47518	
Prep Date: 12/6/2017	Analysis Date: 12/7/2017	SeqNo: 1520346	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10		···-
Motor Oil Range Organics (MRO)	ND 50		
Surr: DNOP	9.8 10.00	98.2 70	130
Sample ID LCS-35429	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 35429	RunNo: 47697	
Prep Date: 12/11/2017	Analysis Date: 12/12/2017	SeqNo: 1525049	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	44 10 50.00		114
Surr: DNOP	4.7 5.000	93.3 70	130
Sample ID MB-35429	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 35429	RunNo: 47697	
Prep Date: 12/11/2017	Analysis Date: 12/12/2017	SeqNo: 1525050	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10		
Motor Oil Range Organics (MRO)	ND 50		
Surr. DNOP	11 10.00	106 70	130
Sample ID 1712163-001AMS	SampType: MS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: SC-1	Batch ID: 35429	RunNo: 47697	
Prep Date: 12/11/2017	Analysis Date: 12/12/2017	SeqNo: 1525972	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	43 9.9 49.41		125
Surr: DNOP	4.8 4.941	97.3 70	130

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Page 11 of 16

- 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#:

1712163

13-Dec-17

Client:

Rule Engineering LLC

Project:

HEC Albright 11

Sample ID 1712163-001AMSD

SampType: MSD

TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: SC-1

Batch ID: 35429

RunNo: 47697

Prep Date: 12/11/2017

Analysis Date: 12/12/2017

SeqNo: 1525973

Units: mg/Kg

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				_			-	-5		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.3	46.64	2.474	88.6	55.8	125	2.70	20	
Surr: DNOP	4.7		4.664		101	70	130	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 12 of 16

Hall Environmental Analysis Laboratory, Inc.

WO#:

1712163

13-Dec-17

Rule Engineering LLC

Project:

HEC Albright 11

Project:	HEC Albright 11												
Sample ID	MB-35357	SampTy	pe: ME	BLK	Test	Code: E	PA Method	8015D: Gaso	oline Rang	e			
Client ID:	PBS	Batch	ID: 35	357	R	lunNo: 4	7604						
Prep Date:	12/6/2017	Analysis Da	ite: 12	2/7/2017	S	eqNo: 1	521467	Units: mg/k	(g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Rang Surr: BFB	e Organics (GRO)	ND 1100	5.0	1000		109	15	316					
Juli, Drb				1000		109			- 				
Sample ID	LCS-35357	SampTy	pe: LC	s	Test	Code: E	PA Method	8015D: Gaso	oline Rang	е			
Client ID:	LCSS	Batch	ID: 35	357	R	tunNo: 4	7604						
Prep Date:	12/6/2017	Analysis Da	ite: 12	2/7/2017	S	eqNo: 1	521468	Units: mg/k	(g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
·-	e Organics (GRO)	29	5.0	25.00	0	115	75.9	131					
Surr: BFB		1200		1000		124	15	316					
Sample ID	1712163-003AMS	SampTy	pe: MS	3	Test	Code: E	PA Method	od 8015D: Gasoline Range					
Client ID:	SC-3	Batch	ID: 35	357	R	lunNo: 4	7604						
Prep Date:	12/6/2017	Batch ID: 35357 Analysis Date: 12/7/2017			S	eqNo: 1	521471	Units: mg/k	(g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Rang	e Organics (GRO)	29	5.0	25.00	0	115	77.8	128					
Surr: BFB		1200		1000		120	15	316					
Sample ID	1712163-003AMSE	D SampTy	pe: MS	SD	Test	Code: E	line Rang	e					
Client ID:	SC-3	Batch	ID: 35	357	R	unNo: 4	7604						
Prep Date:	12/6/2017	Analysis Da	te: 12	2/7/2017	S	eqNo: 1	521472	Units: mg/K	(g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Rang	e Organics (GRO)	28	4.8	24.22	0	116	77.8	128	2.53	20			
Surr: BFB		1200		969.0		120	15	316	0	0			
Sample ID	MB-35409	SampTy	pe: ME	BLK	Test	Code: E	PA Method	8015D: Gaso	line Rang	е			
Client ID:	PBS	Batch	ID: 35 4	409	R	unNo: 4	7674						
Prep Date:	12/8/2017	Analysis Da	te: 12	2/11/2017	s	eqNo: 1	523843	Units: mg/K	ζg				
Analyte	•	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range	e Organics (GRO)	ND 5.0				•							
Surr: BFB		1100		1000		110	15	15 316					
Sample ID	LCS-35409	SampTy	pe: LC	s	TestCode: EPA Method 801				thod 8015D: Gasoline Range				
Client ID:	LCSS	Batch	ID: 354	409	RunNo: 47674								
		Analysis Date: 12/11/2017 SeqNo:											
Prep Date:	12/8/2017							Units: mg/K	ζg				

Qualifiers:

Analyte

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded

Result

PQL

SPK value SPK Ref Val

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

%REC LowLimit

HighLimit

%RPD

- E Value above quantitation range
- J Analyte detected below quantitation limits
- Page 13 of 16

RPDLimit

Qual

- 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#:

RPDLimit

1712163

13-Dec-17

Qual

Client:

Rule Engineering LLC

Project:

HEC Albright 11

Sample ID LCS-35409

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS

Batch ID: 35409

RunNo: 47674

Prep Date: 12/8/2017

%RPD

Analyte

Analysis Date: 12/11/2017 **PQL**

5.0

SeqNo: 1523844

%REC

Units: mg/Kg

HighLimit

Gasoline Range Organics (GRO) Surr: BFB

27 1200

Result

25.00 1000 108 122

LowLimit

75.9 131 15 316

SPK value SPK Ref Val

0

Qualifiers:

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

Page 14 of 16

Hall Environmental Analysis Laboratory, Inc.

WO#:

1712163

13-Dec-17

Client:

Rule Engineering LLC

Project:

HEC Albright 11

Sample ID MB-35357 SampType: MBLK				Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batcl	h ID: 35	357	F	RunNo: 4	7604				
Prep Date: 12/6/2017	Analysis D	Date: 12	2/7/2017		SeqNo: 1	521499	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-Bromofluorobenzene	1.0		1.000		103	80	120			
Sample ID LCS-35357	SampT	Type: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		

Sample ID LCS-35357	Samp1	Type: LC	S	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batcl	n ID: 35	357	F	RunNo: 4	7604				
Prep Date: 12/6/2017	Analysis D)ate: 12	2/7/2017	8	SeqNo: 1	521500	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	108	77.3	128			
Toluene	1.1	0.050	1.000	0	107	79.2	125			
Ethylbenzene	1.0	0.050	1.000	0	102	80.7	127			
Xylenes, Total	3.0	0.10	3.000	0	99.1	81.6	129			
Surr: 4-Bromofluorobenzene	1.1		1.000		113	80	120			

Sample ID 1712163-002AMS	3	TestCode: EPA Method 8021B: Volatiles										
Client ID: SC-2	Client ID: SC-2 Batch ID: 35357					7604						
Prep Date: 12/6/2017	Analysis [Date: 12	2/7/2017	5	SeqNo: 1	521502	Units: mg/Kg					
Analyte -	Result PQL SPK value SPK Ref Val %REC LowLimit					HighLimit	%RPD	RPDLimit	Qual			
Benzene	1.0	0.023	0.9302	0	108	80.9	132					
Toluene	1.0	0.047	0.9302	0	111	79.8	136					
Ethylbenzene	1.0	0.047	0.9302	0	109	79.4	140					
Xylenes, Total	3.0	0.093	2.791	0	108	78.5	142					
Surr: 4-Bromofluorobenzene	1.0		0.9302		111	80	120					

Sample ID 1712163-002AM	SD SampT	ype: MS	SD .	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: SC-2	Batch	ID: 35	357	F	RunNo: 4	7604				
Prep Date: 12/6/2017	Analysis D	ate: 12	2/7/2017	5	SeqNo: 1	521503	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.023	0.9398	0	107	80.9	132	0.713	20	
Toluene	1.0	0.047	0.9398	0	109	79.8	136	0.495	20	
Ethylbenzene	1.0	0.047	0.9398	0	107	79.4	140	0.624	20	
Xylenes, Total	3.0	0.094	2.820	0	106	78.5	142	0.621	20	
Surr: 4-Bromofluorobenzene	1.0		0.9398		109	80	120	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 15 of 16

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#:

1712163

13-Dec-17

Client:

Rule Engineering LLC

Project:

HEC Albright 11

Sample ID MB-35409	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles				
Client ID: PBS	Batcl	n ID: 35	409	F	RunNo: 4	7674				
Prep Date: 12/8/2017	Analysis E	Date: 12	2/11/2017	SeqNo: 1523870			Units: mg/K	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120			

Sample ID LCS-35409	SampType: LCS			Tes	tCode: E	tiles				
Client ID: LCSS	Batch	n ID: 354	409	F	RunNo: 4	7674				
Prep Date: 12/8/2017	Analysis D)ate: 12	2/11/2017	S	SeqNo: 1	523871	Units: mg/k			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	93.9	77.3	128			
Toluene	0.92	0.050	1.000	0	92.3	79.2	125			
Ethylbenzene	0.87	0.050	1.000	0	87.3	80.7	127			
Xylenes, Total	2.6	0.10	3.000	0	85.7	81.6	129			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

Sample ID 1712163-001AMS	SampT	SampType: MS			tCode: E	tiles				
Client ID: SC-1	Batch	n ID: 35	409	F	RunNo: 4	7674				
Prep Date: 12/8/2017	Analysis D)ate: 12	2/11/2017	S	SeqNo: 1	523873	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.023	0.9234	0	92.6	80.9	132		•	
Toluene	0.86	0.046	0.9234	0	93.3	79.8	136			
Ethylbenzene	0.84	0.046	0.9234	0	91.4	79.4	140			
Xylenes, Total	2.5	0.092	2.770	0.02334	89.7	78.5	142			
Surr: 4-Bromofluorobenzene	1.0		0.9234		108	80	120			

Sample ID 1712163-001AMS	D SampType: MSD			Tes	tCode: El	tiles				
Client ID: SC-1	Batch	1D: 35 4	409	F	RunNo: 4	7674				
Prep Date: 12/8/2017	Analysis D	ate: 12	2/11/2017	5	SeqNo: 1	523874	Units: mg/F	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	0.9872	0	93.8	80.9	132	7.91	20	
Toluene	0.93	0.049	0.9872	0	94.2	79.8	136	7.70	20	
Ethylbenzene	0.91	0.049	0.9872	0	92.1	79.4	140	7.50	20	
Xylenes, Total	2.7	2.7 0.099 2.962		0.02334 91.6 78.5		78.5	5 142 8.68		20	
Surr: 4-Bromofluorobenzene	1.1		0.9872		109	80	120	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Page 16 of 16



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com

Client Name:	RULE ENGINEERING LL	Work Order Number:	17121	63		RcptNo:	1
Received By:	Anne Thorne	12/5/2017 7:00:00 AM			Am Am Am Am	_	
Completed By:	Anne Thome	12/5/2017 9:39:06 AM			Om Hom	_	
Reviewed By:	ENM	12/6/17					
Chain of Cus	tody						
1. Custody sea	als intact on sample bottles?		Yes		No 🗆	Not Present 🗹	
2. Is Chain of C	Custody complete?		Yes	\mathbf{V}	No 🗆	Not Present	
3. How was the	e sample delivered?		Couri	<u>er</u>			
<u>Log In</u>							
4. Was an atte	empt made to cool the sample	95?	Yes	V	No 🗆	NA 🗆	
5. Were all san	nples received at a temperat	ure of >0° C to 6.0°C	Yes	\checkmark	No 🗆	na 🗆	
6. Sample(s) ii	n proper container(s)?		Yes	¥	. No 🗆		
7. Sufficient sa	mple volume for indicated te	st(s)?	Yes	\checkmark	No 🗆		
8. Are samples	(except VOA and ONG) pro	perty preserved?	Yes	\checkmark	No 🗆	. •	,
9. Was preserv	rative added to bottles?		Yes		No 🗹	NA 🗆	
10.VOA vials ha	ave zero headspace?		Yes		. No 🗆	No VOA Vials	
11. Were any sa	ample containers received br	oken?	Yes		No 🗹	# of preserved	·
48				•		bottles checked	•
	vork match bottle labels? pancies on chain of custody)		Yes	⊻	No 🗆	for pH: (<2 c	or >12 unless noted)
	correctly identified on Chain	of Custody?	Yes	V	No 🗆	Adjusted?	· •
14. Is it clear wh	at analyses were requested?		Yes		No 🗆		
	ling times able to be met? customer for authorization.)		Yes	\checkmark	No 🗆	Checked by:	
(II IIO, IIOLIIY	customer for Buulonzadon.)						
Special Hand	iing (if applicable)						
	otified of all discrepancies wi	h this order?	Yes		No 🗆	NA 🗹	_
Person	Notified:	Date					
By Wh	om:	Via:] eMai	i 🗆	Phone 🗌 Fax	☐ In Person	
Regard	ling:						
Cilent I	nstructions:]
17. Additional re	marks:						
18. <u>Cooler Info</u>	rmation						
Cooler No			eai Dai	te	Signed By		
1	1.0 Good	es		l_		İ	

C	hain-	of-Cu	stody Record	Turn-Around	Time:						_					_					
Client:	Ruje	Engin	eering. Lir	Standard Project Name	□ Rush					A	N	AL	YS	315	5 L	Aĕ.	30		NT.		•
			tirport Dr., Ste 205	HEC AI	bright #	1)	-	490	11 H	w awķin				ironr uque				'109			
Fa	<u>rmina</u>	ton, 1	1M 87401	Project #:				Tel	. 50	5-345	-39						410	7			
			- 2787									Α	naly	/sis	Req	ues					F
		woods@	rulenginering.com	Project Manag	ger:	•	=	only)	8				- 1	07	6				1		j
QA/QC F	Package: dard		☐ Level 4 (Full Validation)	Heather	woods		(8021)	+ TPH (Gas o	₩ Q			SIMS)		,PO4,S	PCB's						
Accredi				Sampler: He	ather We	oods		ᇤ		\rightleftharpoons			Ì	Ş	8082						
O NEL	AP	□ Othe	r	On Ice:	Z Yes	oods] -	4	잁	86	2	82	_	ကို	s / 8		€				o S
	(Type)_			Sample Temp	erature:	120	9	띪	9	8	g		ag	Ž	äde	A	emi-VOA)		ļ		≿
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAE NO.	± ∴	BTEX + MTBE	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides	8260B (VOA)	8270 (Semi				Air Bubbles (Y
12/4/17	1120	Soil	5C-1	(1) 40z Glass	Non	700	X		X												
194/17	MO_	50:1	50-2	(1) Yoz Glas	Non	702	χ		እ												
44/17	1135	50.1	8C-3	(1) Yoz Glew	Non	703	X		X												
12/4/17	1140	Soil	5c-4	(1)402 61052	Non	-04	X		<u>አ</u>												
14/17	1150	50:1	5C-5	(1)4 02 Glass	Non	705	X		Ø												
12/4/17	1154	Soil	5C-6	(1) 402 Glas	Non	706	X		%												
12/4/17	1226	Soil	SC-7	(i) Yoz Glos	Non	707	X		Х												
16/4/17	1220	5011	5C-8	(1) 402 Glass		-08	Х		×												
12/4/17	1145	Soil	50-9	(1) 402 GBN	Non	709	X		X												
12/4/17	1210	Soil	50-10	(1) 402 Class		-010	x		X										\bot	\bot	
																_			\perp		
			NPS Hw		-												Ĺ				
Date: 2/4/17	Time:	ime: Relinquished by:		Received by:	AP-	Date Time	Rer	narks	D	irect 10 C	Bil	na 1 to	Ca Ca	ileo mdi	050 20						
Date:	Time:	Relinquish		Received by.	do	Date Time 12/05/17			c	con	sok	ea(9 h	ilco	mp.	Cor	n				
	f necessary, samples submitted to Hall Environmental may be su			contracted to other ac	credited laboratorio	O 760 as. This serves as notice of thi	s possi	bility. A	lny su	ıb-contr	acted	data	will be	clear	ty note	ated o	n the a		al report		