State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19,15,29 NMAC.

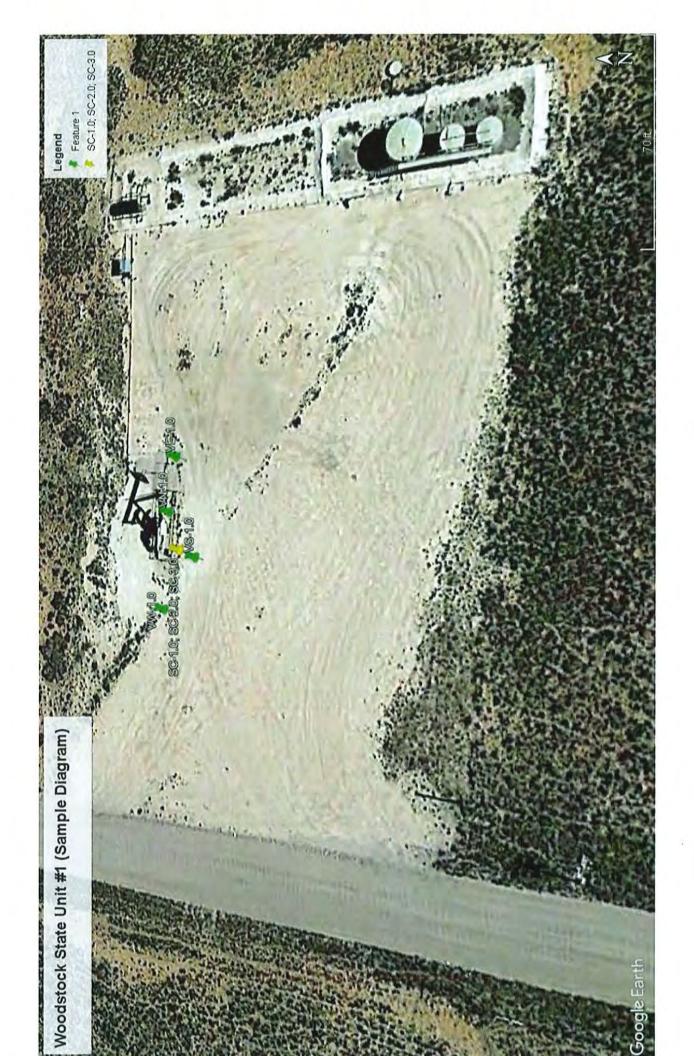
220 S. St. Fra	icis Dr., Sant	a Fe, NM 8750	15	S	anta Fe	e, NM 875	505	101			
			Rel	ease Notifi	catio	n and Co	orrective A	ction	Ini	itial only	
a metata a						OPERA'	ГOR		🛛 Initi	al Report	Final Repor
Name of Co EOG Y Res		c.		OGRID Nui 25575		Contact Robert Ash	er				
Address 104 S. 4 <sup>th</sup> S						Telephone 1 575-748-14	No.				
Facility Na	me	201				Facility Typ			-		
Woodstock	State Unit	t #1	_	-		Battery					
Surface Ow State	ner			Mineral ( State	Owner				API No 30-025		
State	_					OFDE		_	50-025	-30700	
Unit Letter P	Section 5	Township 9S	Range 33E	Feet from the 660	North	N OF RE	Feet from the 540	Call March 1 &	Vest Line East	County Lea	
				Latitude 32.	55681	Longitude	103 58248			1 202	
					0.007	OF REL					
Type of Rele Oil & Produ			-			Volume of 7 B/O & 2	Release		Volume l 2 B/O &	Recovered 0 B/PW	
Source of Re Well head	and the second second second					the second second second second second	Iour of Occurrent	ce		Hour of Dis	covery
Was Immedi	ate Notice (		] Yes [	] No 🛛 Not R	equired	IF YES, To N/A	and the second se		0/29/201	7,1141	
By Whom? N/A					Stant C	Date and H	Iour			-	
Was a Water	course Rea			- (22)	-		olume Impacting	the Wate	rcourse.		
			2.14	No No			RECEIN	/FD			
If a Waterco	urse was Im	pacted, Desci	ribe Fully.	•					at 2·46		ug 04, 2017
		em and Reme uffing box fai		n Taken. * ig the release. Va	cuum tru	ck(s) and rou				<b>P</b> , <b>P</b>	<b></b>
An approxim to an NMOC samples were <b>120', Section</b> on the volum I hereby cert regulations a public health should their or the enviro	nate area of CD approved e collected ( <b>m 3, T9S-R3</b> <b>mes recover</b> ify that the ill operators or the envi operations h nment. In a	1 facility. Site (7/18/2017) an 32E, per NM red, impacted information g are required to ronment. The bave failed to addition, NMC	e well and check on nd analysi: OSE), We I soils exc iven abov to report a e acceptan adequately OCD accep	valves were close 7/5/2017, further s ran for TPH & E ellhead Protection avated/removed e is true and comp nd/or file certain ce of a C-141 rep	excavation BTEX (classified of the second o	on needed to hlorides for d No, Distance losed analyti he best of my otifications a e NMOCD m e contaminati	remove all impac ocumentation). I to Surface Wat cal data, EOG Y knowledge and t and perform correct arked as "Final R on that pose a the	ted soils Depth to er Body: Resour Inderstan ctive acti Report" de reat to gr	. Vertical a Ground V : >1000', S ces reques d that purs ons for rel oes not rel ound wate	and horizont: Water: >100 SITE RANK sts closure. suant to NM eases which ieve the oper r, surface wa	" (approximately ING IS 0. Based OCD rules and may endanger rator of liability iter, human health
tederal, state	, or local la	ws and/or reg	ulations.			-	OIL CON	SERV	ATION	DIVISIC	<u>N</u>
Signature:	6	ACA	1.						19	4-	
Printed Nam	e: Robert A	sher	6 P 14		-	Approved by	Environmental S			F	
Title: Enviro	nmental Su	pervisor	_			Approval Dat	e: 8/4/2017	F	Expiration	Date:	
E-mail Addr	ess: Robert	Asher@eogr	esources.c	om		Conditions of				Attached	
Date: July 31			the second s	: 575-748-4217	•	see attac	hed directiv	е			-
Attach Addi	tional Shee	ets If Necess	sary			1RP-477	7 nOY1	72165	55739	] pOΥ	1721656669

Analytical Report- 1704493 (Hall)	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
SC-1.0	Release/Excavation/ Vertical Delineation	7/18/2017	Grab/Auger	12" (24" BSL)	ND	ND	23	45
SC-2.0	Release/Excavation/ Vertical Delineation	7/18/2017	Grab/Auger	24" (48" BSL)	ND	ND	ND	ND
SC-3.0	Release/Excavation/ Vertical Delineation	7/18/2017	Grab/Auger	36" (60" BSL)	ND	ND	ND	35
VW-1.0	Release/Excavation/ Horizontal Delineation	7/18/2017	Grab/Auger	12" (24" BSL)	ND	ND	ND	ND
VS-1.0	Release/Excavation/ Horizontal Delineation	7/18/2017	Grab/Auger	12" (24" BSL)	ND	ND	ND	ND
VN-1.0	Release/Excavation/ Horizontal Delineation	7/18/2017	Grab/Auger	12" (24" BSL)	ND	ND	ND	70
VE-1.0	Release/Excavation/ Horizontal Delineation	7/18/2017	Grab/Auger	12" (24" BSL)	ND	ND	ND	45

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 120', Section 3, T9S-R32E, per NMOSE).

All results are ppm. BSL - Below Surface Level

Released: 7 B/O & 2 B/PW; Recovered: 2 B/O & 0 B/PW. Release Date: 6/29/2017







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

July 26, 2017 Robert Asher EOG 105 South Fourth Street Artesia, NM 88210 TEL: FAX

RE: Woodstock State Unit 1

OrderNo.: 1707A67

Dear Robert Asher:

Hall Environmental Analysis Laboratory received 7 sample(s) on 7/20/2017 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 <u>www.hallenvironmental.com</u> 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,

and

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

initial in the second s		, , , , , , , , , , , , , , , , , , ,			Bate Reported 1120120	× ·		
CLIENT: EOG			Client Sampl	e ID: SC	2-1.0			
Project: Woodstock State Unit 1			Collection ]	Date: 7/1	18/2017 11:15:00 AM			
Lab ID: 1707A67-001	Matrix:	<b>Received</b>	Received Date: 7/20/2017 9:45:00 AM					
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch		
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	s			Analys	: том		
Diesel Range Organics (DRO)	23	9.8	mg/Kg	1	7/21/2017 6:23:20 PM	32926		
Surr: DNOP	85.2	70-130	%Rec	1	7/21/2017 6:23:20 PM	32926		
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	NSB		
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	7/21/2017 3:20:19 PM	32925		
Surr: BFB	84.3	54-150	%Rec	1	7/21/2017 3:20:19 PM	32925		
EPA METHOD 8021B: VOLATILES					Analys	: NSB		
Benzene	ND	0.023	mg/Kg	1	7/21/2017 3:20:19 PM	32925		
Toluene	ND	0.046	mg/Kg	1	7/21/2017 3:20:19 PM	32925		
Ethylbenzene	ND	0.046	mg/Kg	1	7/21/2017 3:20:19 PM	32925		
Xylenes, Total	ND	0.093	mg/Kg	1	7/21/2017 3:20:19 PM	32925		
Surr: 4-Bromofluorobenzene	96.5	66.6-132	%Rec	1	7/21/2017 3:20:19 PM	32925		

Qualifiers:

\*

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 1 of 10 J
- Sample pH Not In Range Р
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

**Analytical Report** Lab Order 1707A67

Date Reported: 7/26/2017

Hall Environmental Anal	ysis Labora	tory, Inc.			Date Reported: 7/26/20	17
CLIENT: EOGProject:Woodstock State Unit 1Lab ID:1707A67-002	Matrix:	SOIL		Date: 7/	C-2.0 18/2017 11:29:00 AM 20/2017 9:45:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANIC	s			Analyst	: том
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	7/21/2017 6:45:48 PM	32926
Surr: DNOP	81.2	70-130	%Rec	1	7/21/2017 6:45:48 PM	32926
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/21/2017 3:44:29 PM	32925
Surr: BFB	83.4	54-150	%Rec	1	7/21/2017 3:44:29 PM	32925
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	7/21/2017 3:44:29 PM	32925
Toluene	ND	0.048	mg/Kg	1	7/21/2017 3:44:29 PM	32925
Ethylbenzene	ND	0.048	mg/Kg	1	7/21/2017 3:44:29 PM	32925
Xylenes, Total	ND	0.097	mg/Kg	1	7/21/2017 3:44:29 PM	32925
Surr: 4-Bromofluorobenzene	94.5	66.6-132	%Rec	1	7/21/2017 3:44:29 PM	32925

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н 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
- Analyte detected in the associated Method Blank В
- Value above quantitation range Е
- Analyte detected below quantitation limits Page 2 of 10 J

**Analytical Report** Lab Order 1707A67

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

Hall Environmental Analy	sis Labora	tory, Inc.			Date Reported: 7/26/20	17
CLIENT: EOG Project: Woodstock State Unit 1			Client Sampl Collection I		2-3.0 18/2017 11:35:00 AM	
Lab ID: 1707A67-003	Matrix:	SOIL	Received 1	Date: 7/2	20/2017 9:45:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANIC	S		·	Analyst	том
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	7/21/2017 7:08:39 PM	32926
Surr: DNOP	79.4	70-130	%Rec	1	7/21/2017 7:08:39 PM	32926
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/21/2017 4:08:45 PM	32925
Surr: BFB	75.4	54-150	%Rec	1	7/21/2017 4:08:45 PM	32925
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	7/21/2017 4:08:45 PM	32925
Toluene	ND	0.048	mg/Kg	1	7/21/2017 4:08:45 PM	32925
Ethylbenzene	ND	0.048	mg/Kg	1	7/21/2017 4:08:45 PM	32925
Xylenes, Total	ND	0.096	mg/Kg	1	7/21/2017 4:08:45 PM	32925
Surr: 4-Bromofluorobenzene	86.3	66.6-132	%Rec	1	7/21/2017 4:08:45 PM	32925

\* Qualifiers:

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 3 of 10 J
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

**Analytical Report** Lab Order 1707A67 D-4- Dartade 7/26/2017

Hall E	nvironmental Analy	sis Labora	tory, Inc	· •		Date Reported: 7/26/20	17
CLIENT: Project: Lab ID:	EOG Woodstock State Unit 1 1707A67-004	Matrix:	SOIL		<b>Date: 7</b> /1	V-1.0 8/2017 11:41:00 AM 0/2017 9:45:00 AM	
Analyses		Result	PQL Q	Qual Units	DF	Date Analyzed	Batch
EPA MET	THOD 8015M/D: DIESEL RAM	NGE ORGANIC	S			Analyst	: том
Diesel R	ange Organics (DRO)	ND	9.7	mg/Kg	1	7/21/2017 7:31:05 PM	32926
Surr:	DNOP	85.6	70-130	%Rec	1	7/21/2017 7:31:05 PM	32926
EPA MET	THOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline	e Range Organics (GRO)	ND	4.7	mg/Kg	1	7/21/2017 4:33:05 PM	32925
Surr:	BFB	84.3	54-150	%Rec	1	7/21/2017 4:33:05 PM	32925
EPA MET	THOD 8021B: VOLATILES					Analyst	: NSB
Benzene	9	ND	0.023	mg/Kg	1	7/21/2017 4:33:05 PM	32925
Toluene		ND	0.047	mg/Kg	1	7/21/2017 4:33:05 PM	32925
Ethylber	izene	ND	0.047	mg/Kg	1	7/21/2017 4:33:05 PM	32925
Xylenes,	, Total	ND	0.094	mg/Kg	1	7/21/2017 4:33:05 PM	32925
Surr: 4	4-Bromofluorobenzene	99.1	66.6-132	%Rec	1	7/21/2017 4:33:05 PM	32925

Analytical Report Lab Order 1707A67

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	в	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	Е	Value above quantitation range
	Н	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits Page 4 of 10
	ND	Not Detected at the Reporting Limit	Р	Sample pH Not In Range
	PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analy	sis Labora	tory, Inc.			Date Reported: 7/26/20	17	
CLIENT: EOG Project: Woodstock State Unit 1 Lab ID: 1707A67-005	Matrix:	SOIL	Collection I	le ID: VS-1.0 Date: 7/18/2017 11:49:00 AM Date: 7/20/2017 9:45:00 AM			
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch	
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANIC	S			Analys	t: TOM	
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	7/21/2017 7:53:35 PM	32926	
Surr: DNOP	79.9	70-130	%Rec	1	7/21/2017 7:53:35 PM	32926	
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/21/2017 4:57:26 PM	32925	
Surr: BFB	81.7	54-150	%Rec	1	7/21/2017 4:57:26 PM	32925	
EPA METHOD 8021B: VOLATILES					Analys	t: NSB	
Benzene	ND	0.025	mg/Kg	1	7/21/2017 4:57:26 PM	32925	
Toluene	ND	0.049	mg/Kg	1	7/21/2017 4:57:26 PM	32925	
Ethylbenzene	ND	0.049	mg/Kg	1	7/21/2017 4:57:26 PM	32925	
Xylenes, Total	ND	0.099	mg/Kg	1	7/21/2017 4:57:26 PM	32925	
Surr: 4-Bromofluorobenzene	94.4	66.6-132	%Rec	1	7/21/2017 4:57:26 PM	32925	

Qualifiers: \* Value exc

- \* 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 10

Analytical Report Lab Order 1707A67

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

Hall Environmental Analys	sis Labora	tory, Inc.			Lab Order <b>1707A67</b> Date Reported: <b>7/26/20</b>	17
CLIENT: EOG			Client Sampl	e ID: Vì	N-1.0	
Project: Woodstock State Unit 1			Collection ]	<b>Date: 7</b> /1	8/2017 11:56:00 AM	
Lab ID: 1707A67-006	Matrix:	SOIL	Received 1	Date: 7/2	20/2017 9:45:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANIC	S			Analyst	: том
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	7/21/2017 8:15:52 PM	32926
Surr: DNOP	86.8	70-130	%Rec	1	7/21/2017 8:15:52 PM	32926
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/21/2017 5:21:45 PM	32925
Surr: BFB	83.3	54-150	%Rec	1	7/21/2017 5:21:45 PM	32925
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	7/21/2017 5:21:45 PM	32925
Toluene	ND	0.048	mg/Kg	1	7/21/2017 5:21:45 PM	32925
Ethylbenzene	ND	0.048	mg/Kg	1	7/21/2017 5:21:45 PM	32925
Xylenes, Total	ND	0.096	mg/Kg	1	7/21/2017 5:21:45 PM	32925
Surr: 4-Bromofluorobenzene	96.2	66.6-132	%Rec	1	7/21/2017 5:21:45 PM	32925

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix
- D Sample Difuted 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 10

**Analytical Report** 

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

CLIENT: EOG			Client Sampl	e ID: VE	2-1.0	
Project: Woodstock State Unit 1			Collection I	Date: 7/1	8/2017 12:01:00 PM	
Lab ID: 1707A67-007	Matrix:	SOIL	Received I	Date: 7/2	0/2017 9:45:00 AM	
Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANG	E ORGANIC	S			Analyst	: том
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	7/21/2017 8:38:16 PM	32926
Surr: DNOP	91.7	70-130	%Rec	1	7/21/2017 8:38:16 PM	32926
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/21/2017 9:47:22 PM	32925
Surr: BFB	82.2	54-150	%Rec	1	7/21/2017 9:47:22 PM	32925
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	7/21/2017 9:47:22 PM	32925
Toluene	ND	0.048	mg/Kg	1	7/21/2017 9:47:22 PM	32925
Ethylbenzene	ND	0.048	mg/Kg	1	7/21/2017 9:47:22 PM	32925
Xylenes, Total	ND	0.096	mg/Kg	1	7/21/2017 9:47:22 PM	32925
Surr: 4-Bromofluorobenzene	95.8	66.6-132	%Rec	1	7/21/2017 9:47:22 PM	32925

Qualifiers: \*

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- Analyte detected below quantitation limits Page 7 of 10 J Р
  - Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

**Analytical Report** Lab Order 1707A67 Date Reported: 7/26/2017

Project: Woodstock State Unit 1

Sample ID LCS-32926	Sampī	ype: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organic						
Client ID: LCSS	Batch	n ID: 32	926	RunNo: 44388						
Prep Date: 7/20/2017	Analysis D	ate: 7/	21/2017	5	SeqNo: 1	403735	Units: mg/K	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	96.6	73.2	114			
Surr: DNOP	3.5		5.000		70.8	70	130			
Sample ID MB-32926	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Sample ID MB-32926 Client ID: PBS	•	ype: ME 1 ID: 32			tCode: El RunNo: 4		8015M/D: Di	esel Range	e Organics	
•	•	n ID: 32	926	F		4388	8015M/D: Die Units: mg/K	Ū	e Organics	
Client ID: PBS	Batch	n ID: 32	926 21/2017	F	RunNo: 4	4388		Ū	e Organics RPDLimit	Qual
Client ID: <b>PBS</b> Prep Date: <b>7/20/2017</b>	Batch Analysis D	n ID: 32 Date: 7/	926 21/2017	F S	RunNo: 4 GeqNo: 14	4388 403736	Units: <b>mg/K</b>	(g	Ū	Qual

### 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 8 of 10

**Client:** 

EOG **Project:** Woodstock State Unit 1

Sample ID MB-32925	•	ype: ME		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch	D: 32	925	RunNo: <b>44391</b>						
Prep Date: 7/20/2017	Analysis D	ate: 7/	21/2017	S	SeqNo: 1	403909	Units: mg/H	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	880		1000		88.2	54	150			
Sample ID LCS-32925	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	*****
Client ID: LCSS	Batch	D: 32	925	5	RunNo: 4	1301				
	Dato		520	•	(uninio,	4001				
Prep Date: 7/20/2017	Analysis D				GeqNo: 1		Units: mg/M	ζg		
			21/2017				Units: mg/k HighLimit	(g %RPD	RPDLimit	Qual
Prep Date: 7/20/2017	Analysis D	ate: 7/	21/2017	S	SeqNo: 1	403910	U U	•	RPDLimit	Qual

### Qualifiers:

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

Page 9 of 10

### Client: EOG

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Project: Woodstock State Unit 1

_										
Sample ID MB-32925	Samp1	Гуре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batcl	h ID: 32	925	F	RunNo: 4	4391				
Prep Date: 7/20/2017	Analysis D	Date: 7/	21/2017	S	SeqNo: 1	403945	Units: mg/H	٢g		
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		102	66.6	132			
Sample ID LCS-32925	SampT	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batcl	h ID: 32	925	F	RunNo: 4	4391				
Prep Date: 7/20/2017	Analysis E	Date: 7/	21/2017	S	SeqNo: 1	403946	Units: mg/M	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.5	80	120			
Toluene	0.96	0.050	1.000	0	95.9	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.3	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.8	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	66.6	132			

#### 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 10 of 10

ANAL	RONMENTAL YSIS Ratory	A TEL: 505-345-39	tal Analysis Laborator, 4901 Hawkins Ni Ibuquerque, NM 8710 75 FAX: 505-345-410 hallenvironmental.com	<sup>e</sup> <sup>9</sup> Sam	ple Log-In Ch	eck List
Client Name:	EOG/Yates	Work Order Numb	er: 1707A67		RcptNo: 1	
Received By:	Andy Jansson	7/20/2017 9:45:00 A	M	antina		
Completed By:	Ashley Gallegos	7/20/2017 12:02:35	PM S	AJ		
Reviewed By:	ENM	7/20/17		V		
Chain of Cus	stody					
1. Custody sea	als intact on sample bottles	?	Yes \Box	No 🗌	Not Present 🗹	
2. Is Chain of C	Custody complete?		Yes 🗹	No 🗆	Not Present	
3. How was the	e sample delivered?		<u>Courier</u>			
<u>Log In</u>						
4. Was an atte	empt made to cool the sam	ples?	Yes 🗹	No 🗌	NA 🗋	
5. Were all sar	nples received at a temper	ature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗆	
6. Sample(s) i	n proper container(s)?		Yes 🗹	No 🗀		
7. Sufficient sa	mple volume for indicated	test(s)?	Yes 🗹	No 🗔		
	(except VOA and ONG) p		Yes 🔽	No 🗆		
9. Was preserv	vative 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	broken?	Yes	No 🔽	# of preserved	
12			Yes 🗹	No 🗔	bottles checked for pH:	
	work match bottle labels? pancies on chain of custod	V)	Yes 💌			12 unless noted)
	s correctly identified on Cha		Yes 🔽	No 🗌	Adjusted?	
14, Is it clear wh	at analyses were requeste	d?	Yes 🗹	No 🗖		
	ding times able to be met? customer for authorization.		Yes 🗹	No 🗌	Checked by:	
Special Hand	lling (if applicable)					
	otified of all discrepancies	with this order?	Yes 🗌	No 🗀	NA 🗹	
Persor	n Notified:	Date	The second s		· · · · · · · · · · · · · · · · · · ·	
By Wh	iom:	Via;	, eMail 🔲 Pho	one 🗌 Fax	In Person	
Regard	ding:		lan kale mendeni dak ini mini kalendari di di sebut di sebut seran		NAME AND ADDRESS OF A DESCRIPTION OF A D	
Client	Instructions:					
17. Additional re	emarks:					
18. <u>Cooler Info</u> Cooler No	o Temp ºC Condition	Seal Intact   Seal No	Seal Date S	igned By		
[1	2.8 Good	Yes			l	
Page 1 of	f 1		······································	<u></u>		·····

Rolect Manuer   Project Manuer   4901 Ha     210   Rolect Manuer   Nooostiock State Unit #1   4901 Ha     210   Rolect Manuer   Project Manuer   Nooostiock State Unit #1   14901 Ha     210   Rolect Manuer   Project Manuer   Nooostiock State Unit #1   14901 Ha     210   Asherter   Nooostiock State Unit #1   Nooostiock State Unit #1   1401 Ha     214   Fruil Varidation   Port 205532   No   20     Asherter   Dother   Sampler Request ID   Someter Asher   No     Reservative   HEAL No.   No   No   No     Reservative   HEAL No.   No   No   No     Reservative   HEAL No.   No   No   No     Reservative   No   No   No   No     Reservative   HEAL No.   No   No   No     Reservative   No   No   No   No     Resoli   VN-10   1-402   No	Client:	EOG Resources, Inc.	ources, h	je je	Standard	Rush	72 HR TAT (7/24/2017)			IA	NAL	YS!	L S L	AB	HALL ENVIRONMENTAL ANALYSIS LABORATORY	E O	12
Woodstock State Unit #1   4901 Hawkins NE     Project #1   Project #1     Project #1   20.025-30700     Project Manager:   80.025-30700     Project Manager:   Robert Asher     Robert Asher   80.005     Sampler: Robert Asher   80.001     Onlice:   90.005     Sampler: Robert Asher   80.001     Onlice:   90.002     Sampler: Robert Asher   81.00     Total Loc   10.0     1.0   1.402.     1.0   1.402.     1.0   1.402.     1.0   1.402.     1.0   1.402.     1.0   1.402.     1.0   1.402.     1.0   1.402.     1.0   1.402.     1.0   1.402.     1.1   1.402. <th></th> <th></th> <th></th> <th></th> <th>Project Name</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>WWW</th> <th>Vuelleu</th> <th>ronme</th> <th>o late</th> <th>E.</th> <th></th> <th></th>					Project Name						WWW	Vuelleu	ronme	o late	E.		
Project #:     Tell. 505-345-30700       30-025-30700     Project Manager:       Robert Asher     Robert Asher       Robert Asher     Robert Asher       Robert Asher     Robert Asher       Sampler: Robert Asher     802       Sampler: Robert Asher     00       Sampler: No     802       10     1-402       10     1-402       10     1-402       10     1-402       10     1-402       10     1-402       10     1-402       10     1-402       10     1-402       10     1-402       10     1-402       10     1-402       10     1-402       10     1-402       10     1-402       10     1-40	Ad	dress: 105	South 4	th Street		tate Unit #1			4901	Hawk	ins NE		nquer	due. N	M 87109		
3D-025-30700   Analysis R     Project Manager:   Robert Asher     Robert Asher   Robert Asher     Robert Asher   Sampler: Robert Asher     Sampler: Robert Asher   Sampler: Robert Asher     Sample: Topo   1-402:     10   1-402:     10   1-402:     10   1-402:     10   1-402:     10   1-402:     10   1-402:     10   1-402:     10   1-402:     10   1-402:     10   1-402:     10   1-402:     10   1-402:     10   1-402:     10 <td>1, N</td> <td>M 88210</td> <td></td> <td></td> <td>Project #:</td> <td></td> <td></td> <td></td> <td>Tel.</td> <td>505-3</td> <td>15-397</td> <td></td> <td>ax 50</td> <td>5-345</td> <td>4107</td> <td></td> <td></td>	1, N	M 88210			Project #:				Tel.	505-3	15-397		ax 50	5-345	4107		
Project Manager.       Project Manager.         Robert Asher       Robert Asher       800         Sampler: Robert Asher       Sampler: Robert Asher       800         Sampler: Robert Asher       Sampler: Robert Asher       800         Sampler: Robert Asher       Sampler: Robert Asher       800         On los:       Sampler: Robert Asher       800         On los:       Sampler: Robert Asher       800         On los:       Type and #       Type         On los:       Type and #       Type and #         Type and #       Type and #       Type and #         Type and #       Type and #       Type and #         Tool       1 - 4oz.       Ice       -         10       1 - 4oz.       Ice       -       CO         10       1 - 4oz.       Ice       -       X       X <td< td=""><td>#</td><td>(575) 748-4</td><td>1217</td><td></td><td>30-025-30700</td><td></td><td></td><td></td><td></td><td></td><td>1</td><td>ualysi</td><td>is Rec</td><td>luest</td><td></td><td></td><td></td></td<>	#	(575) 748-4	1217		30-025-30700						1	ualysi	is Rec	luest			
Robert Asher     I Level 4 (Full Validation)   PO# 205632     Robert Asher   I Level 4 (Full Validation)     Po# 205632   Sample: Robert Asher     Sample: Robert Asher   Sample Request ID     Sample Request ID   Online:     Sample Request ID   Container     Nul:   I - 40c.     Soil   Sc.2.0     1 - 40c.   Ice     Nul:   1 - 40c.     Soil   Sc.2.0     1 - 40c.   Ice     Nul:   Soil     Soil   Sc.2.0     1 - 40c.   Ice     Nul:   Soil     Soil   Nul:     Soil   VE-1.0     1 - 40c.   Ice     Nul:   Soil     Nul:   Soil     Nul:   Soil     Nul:   I - 40c.     Nul:   I	Ro	bert Ashe	r@eogre	sources.com	Project Mana	ger.		¢	-	200		-		-	-		
Image: Solution of the soluti	Pad	kage:			Robert Ashe	2		(805					ince	S.97	-		
Image: Contract Action   Sample: Robert Action   Sample: Robert Action     Image: Contract Action   On los:   E fest   No     Per Robot V Action   Sample Request ID   Type and #   Type     Per Robot V Action   Type   Type   Type   No     Per Robot V Action   Type   Type   No   Sample Request ID   Type and #     Per Robot V Action   Type   Type   Type   No   Sample Request ID   Sample Request ID     Type and #   Type   Type   Type   Type   No   Scool (NA or PAH)     EDB (Method 604.1)   Type   1-402.   Ice   - CO2   X   X   BITEX + MTBE + TAPH     MM   Soil   SC2.0   1-402.   Ice   - CO2   X   X   No     MM   Soil   SC2.0   1-402.   Ice   - CO2   X   X   No     MM   Soil   VS1.0   1-402.   Ice   - CO2   X   X   No     MM   Soil   VS1.10   1-402.   Ice   - CO2   X   X   No     MM   Soil   VS1.10   1-402.   Ice   - CO2   X   X   X     MM   Soil   VN-	da	p		Level 4 (Full Validation)	PO# 205632				-	nal				)d Z	-		
Image: Contract Preservative HEAL No.   Date:   Difference and # Trype and # Trype   Trype and # Trype and # Trype and # Trype   Trype and # Trype and # Trype   Trype (Melhod 604)     Per Robot v + ASh v v vec trype   Trype and # Trype   Trype (Melhod 604)   EEDB (Melhod 604)     Matrix Sample Request ID Trype and # Trype   Trype and # Trype   Trype (Melhod 604)     Per Robot v + ASh v vec trype   Trype (Melhod 604)   EEDB (Melhod 604)     Matrix Soil   Sc2.00   1-402.   Ice   -CO/3   X   X     Matrix Soil   Sc2.00   1-402.   Ice   -CO/3   X   X   Nellals     Matrix Soil   Sc2.10   1-402.   Ice   -CO/3   X   X   Nellals     Matrix Soil   VS-10   1-402.   Ice   -CO/3   X   X   Nellals     Matrix Soil   VS-10   1-402.   Ice   -CO/3   X   X   Nellass     Matrix Soil   VN-10   1-402.   Ice   -CO/5   X   X   N   X     Matrix Soil   VS-10   1-402.   Ice   -CO/5   X   X   X   X     Matrix Soil   VS-10   1-402.   Ice   -CO/5   X   X   X     Matrix Soil   VN-10	tat	:uo			Sampler: Rol	bert Asher			-	-		()		2808	-		
Sample Temperature:   0 gCC     Time   Matrix   Sample Request ID   Container   Type   T     Per   FC034 V + ASILUK veck   Tipe   Tipe   Tipe   Tipe   Tipe     Per   FC034 V + ASILUK veck   Tipe   Tipe   Tipe   Tipe   Tipe     Per   FC034 V + ASILUK veck   Tipe and #   Type   Tipe   TipHib   BTEX + MTBE     FMM   Soil   SC10   1 - 402.   Ice   - CO3   X   X   TPH (Method & BS1310 (PVon)     FMM   Soil   SC20   1 - 402.   Ice   - CO3   X   X   TPH (Method & BS1310 (PVon)     FMM   Soil   Sc10   1 - 402.   Ice   - CO3   X   X   TPH (Method & BS1310 (PVon)     FMM   Soil   VVI.10   1 - 402.   Ice   - CO3   X   X   X     FMM   Soil   VX1.10   1 - 402.   Ice   - CO10   X   X   X   X     FMM   Soil   VX1.10   1 - 402.   Ice   - CO10   X   X   X   X     FMM   Soil   VX1.10   1 - 402.   Ice   - CO10   X   X   X   X <tr< td=""><td>AP</td><td></td><td>D Othe</td><td></td><td>On loe:</td><td>jg Yes</td><td></td><td>_</td><td></td><td></td><td></td><td>_</td><td>.,</td><td>2/1</td><td>(4</td><td></td><td></td></tr<>	AP		D Othe		On loe:	jg Yes		_				_	.,	2/1	(4		
Time   Matrix   Sample Request ID   Container Type and # Type   Preservative Type   HEAL No.     Per   Per   Per   Per   Per   Per     Bill   Soil   SC-10   1-402   Ice   -OOB   X   X   Per     Bill   Soil   SC-20   1-402   Ice   -OOB   X   X   Per   X   N     Bill   Soil   SC-10   1-402   Ice   -OOB   X   X   X   X   X     Bill   Soil   VS-10   1-402   Ice   -OOB   X   X   X   X   X     Bill   Soil   VN-10   1-402   Ice   -OOD   X   X   X   X     Bill   Soil   VN-10   1-402   Ice   -OOD   X   X   X   X     Bill   Soil   VN-10   1-402   Ice   -OOD   X   X   X     Bill   Soil   VN-10   1-402   Ice<	E	(ed)			Sample Temp	verature:	î			-	1.00	_				_	
Per   Rolog (x + As) excessent fillent   The fillent fillent   Fillent fillent     euterstan   soil   scc.1.0   1-402   loe   -COR   x   x   i   x     euterstan   soil   scc.1.0   1-402   loe   -COR   x   x   i   x   i     euterstan   soil   scc.1.0   1-402   loe   -COR   x   x   i   x   i     euterstan   soil   scc.1.0   1-402   loe   -COR   x   x   i   x   i     euterstan   soil   vsr.1.0   1-402   loe   -COR   x   x   i   x     euterstan   soil   vsr.1.0   1-402   loe   -COR   x   x   i     euterstan   soil   vsr.1.0   1-402   loe   -COR   x   x   i     euterstan   soil   vsr.1.0   1-402   loe   -COR   x   x   i     euterstant   soil   vsr.1.0   1-402   loe   -COR   x   x   i     euterstant   soil   vsr.1.0   1-402   loe   -COR   x   x   i     euterst		Time	Matrix	Sample Request ID	Container Type and #	Preservative Tyne	HEAL No.	111111111									
HEAL       Soil       SC-1.0       1 - 4oz.       Ice       · OOI       X <td>E</td> <td>Per</td> <td></td> <td>Asherida</td> <td>12417</td> <td>adr.</td> <td>TOP RIFI</td> <td></td> <td></td> <td>1000</td> <td></td> <td>_</td> <td>1000</td> <td>_</td> <td>1.000</td> <td></td> <td></td>	E	Per		Asherida	12417	adr.	TOP RIFI			1000		_	1000	_	1.000		
Quality       Soil       SC-2.0       1-402       Ice      C03         QUASING       Soil       SC-3.0       1-402       Ice      C03         QUASING       Soil       VW-1.0       1-402       Ice      C03         QUASING       Soil       VW-1.0       1-402       Ice      C03         QUASING       Soil       VW-1.0       1-402       Ice      C04         QUASING       Soil       VS-1.0       1-402       Ice      C06         QUASING       Soil       VN-1.0       1-402       Ice      C06         QUASING       Soil       VE-1.0       1-402       Ice      C06         QUASING       Soil       VE-1.0       1-402       Ice      C06         QUASING       Soil       VE-1.0       1-402       Ice       -C06	2	al Sha	Soil		1 - 4oz.	lce	100.	×	×				×	_	_		
9-26-MM       Soil       SC-3.0       1 - 4o2.       Ice       - 003         9-36-MM       Soil       VW-1.0       1 - 4o2.       Ice       - 004         9-36-MM       Soil       VS-1.0       1 - 4o2.       Ice       - 006         9-36-MM       Soil       VS-1.0       1 - 4o2.       Ice       - 006         9-36-MM       Soil       VN-1.0       1 - 4o2.       Ice       - 006         9-36-MM       Soil       VN-1.0       1 - 4o2.       Ice       - 006         9-36-MM       Soil       VE-1.0       1 - 4o2.       Ice       - 006         9-36-MM       Soil       VE-1.0       1 - 4o2.       Ice       - 006         9-36-MM       Soil       VE-1.0       1 - 4o2.       Ice       - 006         9-36-MM       Soil       VE-1.0       1 - 4o2.       Ice       - 006         9-36-MM       Soil       VE-1.0       1 - 4o2.       Ice       - 006         9-36-MM       Soil       VE-1.0       1 - 4o2.       Ice       - 007         1       Ice       VE       Ice       - 006 <td< td=""><td>2</td><td>021-02:0</td><td>Soil</td><td>SC-2.0</td><td>1 - 402.</td><td>lce</td><td>-003</td><td>×</td><td>×</td><td></td><td></td><td></td><td>×</td><td></td><td></td><td>-</td><td></td></td<>	2	021-02:0	Soil	SC-2.0	1 - 402.	lce	-003	×	×				×			-	
a:30 AM       Soil       VW-1.0       1-4oz.       Ice       -004         -a:30 AM       Soil       VS-1.0       1-4oz.       Ice       -005         -a:35 AM       Soil       VS-1.0       1-4oz.       Ice       -005         -a:15 U       Soil       VN-1.0       1-4oz.       Ice       -005         9:40 AM       Soil       VE-1.0       1-4oz.       Ice       -005         9:45 AM       Soil       VE-1.0       1-4oz.       Ice       -005         10:10       VE-1.0       1-4oz.       Ice       -005       Ice       -005         10:10       VE-1.0       1-4oz.       Ice       -005       Ice       -005         10:10       VE-1.0       1-4oz.       Ice       -005       Ice       -005         10:10       VE       VE       Ice	N	Sister Sister	Soil	SC-3.0	1 - 402.	lce	-003	×	×				×		_		
e::::::::::::::::::::::::::::::::::::	N	MA OBIO	Soil	VW-1.0	1 - 402.	lce	-004	×	×				×				
Grant Soil   Soil   VN-1.0   1-4oz.   Ice   -OOL0     9:46-MI   Soil   VE-1.0   1-4oz.   Ice   -OOL0     10:0   Image: Soil   VE-1.0   1-4oz.   Ice   -OOL0     11:0   Image: Soil   VE-1.0   1-4oz.   Image: Time     11:0   Image: Soil   Image: Soil   Image: Time	2	WW SCIO		VS-1.0	1 - 402.	loe	500-	×	×		-		×				
BadeAll       Soil       VE-1.0       1 - 4oz.       lce       - (DC)         Image: Soil       VE-1.0       1 - 4oz.       lce       - (DC)       1         Image: Soil       VE-1.0       1 - 4oz.       lce       - (DC)       1         Image: Soil       VE-1.0       1 - 4oz.       lce       - (DC)       1         Image: Soil       Kelinquished by:       Received by:       Received by:       Date Time         Imme: Relinquished by:       Received by:       Received by:       Date Time	N	9:40.00		VN-1.0	1 - 4oz.	lce	100-	×	×				×	_			
Time:   Relinquished by:   Date   Time     659 AM   659 AM   20/17 Grid     Time:   Received by:   Date   Time	2	9:46 AM		VE-1.0	1 - 4oz.	lce	-00-	×	×				×				
Time:   Relinquished by:   Date   Time     6:59 AM   6:59 AM   20/17 Grid   Grid     Time:   Relinquished by:   Date   Time																	
Time:   Relinquished by:   Received by:   Date   Time     6:59 AM   Example   Example   Calify   Cg/g     Time:   Relinquished by:   Received by:   Date   Time						,			++-								
Time: Relinquished by: Received by: Date Time		Time: 6:59 AM	Relinquist	Juni.	Received by:	12.1	1	Anal	vtice	al Re		17 v4	JCIPC	11			
1		time:	Relinquish	ed by:	Received by:	A M	-	Rema	rks: C	hlorid	es on s	eparat	e repo	rt, plea	se.		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 26, 2017 Robert Asher EOG 105 South Fourth Street Artesia, NM 88210 TEL: FAX

RE: Woodstock State Unit 1

OrderNo.: 1707A67

Dear Robert Asher:

Hall Environmental Analysis Laboratory received 7 sample(s) on 7/20/2017 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 <u>www.hallenvironmental.com</u> 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environ	mental Analysis	Labora	tory, Inc.		Date Reported: 7/26/2017
	EOG Woodstock State Unit 1				Lab Order: 1707A67
Lab ID: Client Sample ID:	1707A67-001 SC-1.0				Date: 7/18/2017 11:15:00 AM trix: SOIL
Analyses		Result	PQL Qua	al Units	DF Date Analyzed Batch ID
EPA METHOD 300 Chloride	D.0: ANIONS	45	30	mg/Kg	Analyst: MRA 20 7/21/2017 3:03:09 PM 32936
Lab ID: Client Sample ID:	1707A67-002 SC-2.0	<u></u>			Date: 7/18/2017 11:29:00 AM trix: SOIL
Analyses		Result	PQL Qua	al Units	DF Date Analyzed Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	ND	30	mg/Kg	Analyst: <b>MRA</b> 20 7/21/2017 3:40:21 PM 32936
Lab ID: Client Sample ID:	1707A67-003 SC-3.0				Date: 7/18/2017 11:35:00 AM trix: SOIL
Analyses		Result	PQL Qua	l Units	DF Date Analyzed Batch ID
EPA METHOD 300 Chloride	0.0: ANIONS	35	30	mg/Kg	Analyst: MRA 20 7/21/2017 3:52:46 PM 32936
Lab ID: Client Sample ID:	1707A67-004 VW-1.0				Date: 7/18/2017 11:41:00 AM trix: SOIL
Analyses		Result	PQL Qua	l Units	DF Date Analyzed Batch ID
EPA METHOD 300 Chloride	.0: ANIONS	ND	30	mg/Kg	Analyst: <b>MRA</b> 20 7/21/2017 4:05:10 PM 32936
Lab ID:	1707A67-005			Collection D	Pate: 7/18/2017 11:49:00 AM
Client Sample ID:	VS-1.0			Mat	trix: SOIL
Analyses		Result	PQL Qua	l Units	DF Date Analyzed Batch ID
EPA METHOD 300 Chloride	.0: ANIONS	ND	30	mg/Kg	Analyst: <b>MRA</b> 20 7/21/2017 4:17:34 PM 32936

Qualifiers:

\*

D

Η

S

Value exceeds Maximum Contaminant Level.

Holding times for preparation or analysis exceeded

% Recovery outside of range due to dilution or matrix

Sample Diluted Due to Matrix

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 3

Analytical Report Lab Order: 1707A67

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

Hall Enviror	nmental Analysis	Laborat	ory, Inc.			: 1707A67 orted: 7/26/2	2017
	EOG Woodstock State Unit 1			I	Lab Order:	1707A	67
Lab ID: Client Sample ID	1707A67-006 : VN-1.0			Collection Date Matrix	e: 7/18/2017 x: SOIL	11:56:00 A	М
Analyses		Result	PQL Qual	Units	DF Date A	nalyzed	Batch ID
EPA METHOD 30 Chloride	00.0: ANIONS	70	30	mg/Kg	20 7/21/20	Ana 17 4:29:58 F	yst: <b>MRA</b> M 32936
Lab ID: Client Sample ID	1707A67-007 : VE-1.0			Collection Date Matrix	e: 7/18/2017 x: SOIL	12:01:00 P	М
Analyses		Result	PQL Qual	Units	DF Date A	nalyzed	Batch ID
EPA METHOD 30	0.0: ANIONS					Ana	yst: MRA
Chloride		45	30	mg/Kg	20 7/21/20	17 4:42:22 F	PM 32936

				_
Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	
	D	Sample Diluted Due to Matrix	Е	1
	Н	Holding times for preparation or analysis exceeded	J	
	ND	Not Detected at the Reporting Limit	Р	5
	PQL	Practical Quanitative Limit	RL	J
	S	% Recovery outside of range due to dilution or matrix	W	5

- Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 3

**Analytical Report** 

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

**Client:** EOG

**Project:** Woodstock State Unit 1

Sample ID MB-32936	SampType: mblk	TestCode: EPA Method	300.0: Anions		
Client ID: PBS	Batch ID: 32936	RunNo: 44426			
Prep Date: 7/21/2017	Analysis Date: 7/21/2017	SeqNo: 1404232	Units: mg/Kg		
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit	Qual
<u></u>					
Chloride	ND 1.5				
Sample ID LCS-32936	ND 1.5 SampType: Ics	TestCode: EPA Method	300.0: Anions		
	·····	TestCode: EPA Method RunNo: 44426	300.0: Anions		
Sample ID LCS-32936	SampType: Ics		300.0: Anions Units: mg/Kg		
Sample ID LCS-32936 Client ID: LCSS	SampType: Ics Batch ID: 32936 Analysis Date: 7/21/2017	RunNo: 44426		RPDLimit	Qual

#### Qualifiers:

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

Page 3 of 3

WO#: 1707A67

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ANAL	RONMENTAL YSIS RATORY	A TEL: 505-345-39	tal Analysis Labora 4901 Hawkin Ibuquerque, NM 8 75 FAX: 505-345-4 hallenvironmental	s NE 7109 Sam 4107	ple Log-In Ch	eck List
Client Name:	EOG/Yates	Work Order Numb	er: 1707A67		RcptNo:	1
Received By:	Andy Jansson	7/20/2017 9:45:00 A	M	angina		
Completed By:	Ashley Gallegos	7/20/2017 12:02:35	PM	AF		
Reviewed By:	ENM	7/20/17		V		
<u>Chain of Cus</u>	<u>stody</u>					
1. Custody sea	als intact on sample bottles	?	Yes 🗌	No 🗌	Not Present 🗹	
2. Is Chain of (	Custody complete?		Yes 🗹	No 🗌	Not Present	
3. How was the	e sample delivered?		<u>Courier</u>			
<u>Log In</u>						
4. Was an atte	empt made to cool the sam	ples?	Yes 🗹	No 🗔		
5. Were all sar	mples received at a temper	ature of >0° C to 6.0°C	Yes 🗹	No 🗌		
6. Sample(s) ii	n proper container(s)?		Yes 🔽	No 🗆		
7. Sufficient sa	mple volume for indicated i	test(s)?	Yes 🔽	No 🗆		
	(except VOA and ONG) p		Yes 🔽			
	vative added to bottles?		Yes 🗋	No 🗹	NA 🗆	
10.VOA viais ha	ave zero headspace?		Yes 🗌	No 🗆	No VOA Viais 🗹	
11, Were any sa	ample containers received	proken?	Yes 🗆	No 🗹		
			_	_	# of preserved bottles checked	
	vork match bottle labels? pancies on chain of custod	4	Yes 🔽	No 🛄	for pH:	>12 unless noted)
	correctly identified on Cha		Yes 🖌	No 🗆	Adjusted?	
	at analyses were requested	•	Yes 🗹	No 🗌		
	ding times able to be met? customer for authorization.	)	Yes 🗹	No 🗌	Checked by:	
Special Hand	ling (if applicable)					
	otified of all discrepancies v	with this order?	Yes 🗍		<b></b>	
[	م و جاد داد می با ۲۰ دنیا از این . مو جاد داد می با ۲۰ دنیا از این		Yes 🛄	No 📙	NA 🗹	
1	Notified:	Date				
By Who Regard	The second s	Via:	📋 eMail 🔲 P	Phone 🗌 Fax	In Person	
_	nstructions:		hininkak kituan din terretikan di terretikan di	****		
17. Additional re	····· /				I	
18. <u>Cooler Infor</u> Cooler No 1	rmation	Seal Intact Seal No	Seal Date	Signed By		
Page 1 of	`1		, <u>,,</u>			

Mailing A Artesia, Phone #:	Mailing Address: 105 South 4th Street Artesia, NM 88210 Phone #. (575) 748-4217	5 South 4		Project Name: Project Name: Woodstock State Unit #1 Project #: 30-025-30700	e: state Unit #1	tate Unit #1		4901 H	ANAL www.ha 4901 Hawkins NE Tel. 505-345-3975	NALYSIS LABOF www.hallenvironmental.com ins NE - Albuquerque, NM 5-3975 Fax 505-345-41 Analwsis Rectinest	LYSIS LAB .hallenvironmental. E - Albuquerque, 1 75 Fax 505-34 Analysis Request	SIS LABORAT environmental.com Albuquerque, NM 87109 Fax 505-345-4107 Visis Request	e, NN 345-4	R 18/1	ANALYSIS LABORATORY www.hallenvironmental.com wkins NE - Albuquerque, NM 87109 -345-3975 Fax 505-345-4107 Analysis Recinest
email: R	obert Ashe	r@eogre	email: Robert_Asher@eogresources.com	Project Manager.	iger.			-			_			-	
QA/QC Package: X Standard	ackage: ard		□ Level 4 (Full Validation) PO# 205632	Robert Asher PO# 205632	ar		(805	no se Didise		_		S,8Oc		-	
Accreditation:	ition:	CHO L		Sampler, Robert Asher	bert Asher			-	(11)			S808			
D EDD (Type)	Type)			Sample Temperature	perature	D 401	-	_	314	_	_			(AO)	
Date	Time	Matrix Se	imple Request ID	Container Type and #	Preservative Type	HEAL No.	atm + Xat	PH Method PH Method	padteM) H9	DB (Method NP) 018	StaM 8 ARD	(IO) enoin 181 Pesticid	(AOV) 8082	V-im92) 072	
11442	-36	-	SC-1.0	1-402.	lce	100-	-		L	_	2 C		1.0	:8	
714447	-	Soil	SC-2:0	1 - 4oz.	loe	-003	×	×	-	_	×			-	
714417		Soil	SC-3.0	1 - 402.	lce	-003	×	×	-		×				
7HTH7	MAY OB:0	Soil	VW-1.0	1 - 4oz.	lce	+00-	×	×			×				
714417	1	Soil	VS-1.0	1 - 4oz.	lce	500-	×	×			×				
7144477	-	Soil	VN-1.0	1 - 402.	lce	900-	×	×			×				
71##17	9:45 AM	Soil	VE-1.0	1 - 4oz.	loe	L00-	×	×			×				
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Date:	Time:	Relinquish	0.0	Received by:	1	۲ (					-				
Data:	6:59 AM	Salinniichad hu		122	1VVI	110	Anal	ytica	CALIANAIVICAL Results by 7/24/2017.	lits b	V 7124	1201			
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### Operator/Responsible Party,

The OCD has received the form C-141 you provided on \_8/1/2017\_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number \_1RP-4777\_ has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District \_1\_ office in \_\_Hobbs\_\_\_\_ on or before \_9/4/2017\_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

• Nominal detection limits for field and laboratory analyses must be provided.

• Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us