From:	<u>Yu, Olivia, EMNRD</u>
To:	Bernard.Bockisch@ghd.com; Mann, Ryan
Cc:	Alan.Brandon@ghd.com; Zane Kurtz
Subject:	RE: Jolly Roger (1RP-3541) Request for Closure
Date:	Friday, May 11, 2018 3:12:00 PM
Attachments:	approved_088210-21 Final C-141.pdf

Dear Mr. Bockisch/Kurtz:

Thank you for the confirmatory data.

The available information indicates **OPERATOR** has met the requirements of 19.15.29 NMAC and no further corrective action is required. NMOCD considers **1RP-3541** closed. This determination by the Oil Conservation Division does not relieve Operator of responsibility should future information indicate a threat to ground water, surface water, human health, or the environment. Furthermore, it does not relieve Operator of responsibility for compliance with any federal, state, or local laws and/or regulations.

Like approval from NMSLO required.

Thanks,

Olivia Yu Environmental Specialist NMOCD, District I <u>Olivia.yu@state.nm.us</u> 575-393-6161 x113

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Bernard.Bockisch@ghd.com <Bernard.Bockisch@ghd.com>
Sent: Thursday, May 10, 2018 2:05 PM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>
Cc: Alan.Brandon@ghd.com; Zane Kurtz <Zane_Kurtz@eogresources.com>
Subject: FW: Jolly Roger (1RP-3541) Request for Closure

Olivia,

I have attached a figure showing the soil samples collected from the backfill at the Jolly Roger. Each sample is a composite collected from one foot and three feet below ground surface. I have also included the laboratory analytical results for the samples collected. Based on these results, we are

requesting site closure on behalf of EOG Resources. Please feel free to contact us if you have any questions.

Bernie

Bernard Bockisch, PMP

Senior Project Manager

GHD

T: +1 505 884 0672 | M: +1 505 280 0572 | VOIP Ext: 867310 | E: <u>Bernard.Bockisch@ghd.com</u> 6121 Indian School Rd. NE Albuquerque New Mexico 87110 | <u>www.ghd.com</u> <u>WATER | ENERGY & RESOURCES | ENVIRONMENT | PROPERTY & BUILDINGS | TRANSPORTATION</u>

Please consider our environment before printing this email

From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]
Sent: Wednesday, March 14, 2018 7:09 AM
To: Bernard Bockisch <<u>Bernard.Bockisch@ghd.com</u>>
Cc: Naranjo, Mark <<u>MNaranjo@slo.state.nm.us</u>>; Zane Kurtz <<u>Zane_Kurtz@eogresources.com</u>>
Subject: RE: Jolly Roger (1RP-3541) Request for Closure

Good morning Mr. Bockisch:

Excellent. Thank you.

Olivia

From: Bernard.Bockisch@ghd.com [mailto:Bernard.Bockisch@ghd.com]
Sent: Tuesday, March 13, 2018 5:59 PM
To: Yu, Olivia, EMNRD <<u>Olivia.Yu@state.nm.us</u>>
Cc: Naranjo, Mark <<u>MNaranjo@slo.state.nm.us</u>>; Zane Kurtz <<u>Zane_Kurtz@eogresources.com</u>>
Subject: Re: Jolly Roger (1RP-3541) Request for Closure

We'll get them.

Sent from my iPhone

On Mar 13, 2018, at 4:34 PM, Yu, Olivia, EMNRD <<u>Olivia.Yu@state.nm.us</u>> wrote:

Mr. Bockisch:

Yes; that would be optimal. Since Figure 2 in the closure report for 1RP-3541 does not have a scale, please collect representative samples approximately 50 ft. interval or one sample every 75 cubic yards. Please confirm or inform for clarification.

Thanks, Olivia From: Bernard.Bockisch@ghd.com [mailto:Bernard.Bockisch@ghd.com]
Sent: Tuesday, March 13, 2018 4:21 PM
To: Yu, Olivia, EMNRD <<u>Olivia.Yu@state.nm.us</u>>; Naranjo, Mark
<<u>MNaranjo@slo.state.nm.us</u>>
Cc: Zane Kurtz <<u>Zane_Kurtz@eogresources.com</u>>
Subject: RE: Fox State No. 3 and 4 (1RP-3541) Request for Closure

Olivia,

For the Jolly Roger, the site was backfilled before we collected a composite sample from the backfill. Prior to backfilling we collected two composite samples from the stockpile that was about 600 cubic yards in size. The samples were analyzed to contain 390 mg/kg and 610 mg/kg chloride. Based on this, it appears that the blended soil should be below 600 mg/kg. However, if you want we could collect some composite hand auger samples and have them analyzed.

Bernie

Bernard Bockisch, PMP Senior Project Manager

GHD

T: +1 505 884 0672 | M: +1 505 280 0572 | VOIP Ext: 867310 | E: <u>Bernard.Bockisch@ghd.com</u> 6121 Indian School Rd. NE Albuquerque New Mexico 87110 | <u>www.ghd.com</u> <u>WATER | ENERGY & RESOURCES | ENVIRONMENT | PROPERTY & BUILDINGS | TRANSPORTATION</u>

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From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]
Sent: Tuesday, March 13, 2018 10:50 AM
To: Bernard Bockisch <<u>Bernard.Bockisch@ghd.com</u>>; Naranjo, Mark
<<u>MNaranjo@slo.state.nm.us</u>>
Cc: Zane Kurtz <<u>Zane_Kurtz@eogresources.com</u>>
Subject: RE: Fox State No. 3 and 4 (1RP-3541) Request for Closure

Good morning Mr. Bockisch:

Please be advised that the closure report for 1RP-3541 is for Jolly Roger 16 State #1, not Fox State. Do you have field or laboratory data of the blended soil for backfilling to verify that chloride levels were <= 600 mg/kg? If so, please provide and indicate approximately at what volume per sample.

Thanks, Olivia From: Bockisch, Bernie [mailto:Bernard.Bockisch@ghd.com]
Sent: Wednesday, May 31, 2017 2:01 PM
To: Yu, Olivia, EMNRD <<u>Olivia.Yu@state.nm.us</u>>; Groves, Amber
<<u>agroves@slo.state.nm.us</u>>
Cc: Zane Kurtz <<u>Zane_Kurtz@eogresources.com</u>>
Subject: Fox State No. 3 and 4 (1RP-3541) Request for Closure

Olivia/Amber,

On behalf of EOG Resources, Inc. GHD is submitting the attached request for closure and final C-141 for the above referenced site. Please feel free to contact me if you have any questions.

Bernie

Bernard Bockisch, PMP

Senior Project Manager

GHD

T: +1 505 884 0672 | M: +1 505 280 0572 | VOIP Ext: 867310 | E: <u>Bernard.Bockisch@ghd.com</u> 6121 Indian School Rd. NE Albuquerque New Mexico 87110 | <u>www.ghd.com</u> <u>WATER</u> | <u>ENERGY & RESOURCES</u> | <u>ENVIRONMENT</u> | <u>PROPERTY & BUILDINGS</u> | <u>TRANSPORTATION</u>

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Not to Scal Rangeland Figure 3 BACKFILL COMPOSITE SOIL SAMPLE LOCATION MAP JOLLY ROGER 16 STATE 1 LEA COUNTY, NEW MEXICO EOG Resources



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

March 28, 2018

Bernie Bockisch GHD 6121 Indian School Road, NE #200 Albuquerque, NM 87110 TEL: (505) 884-0672 FAX

OrderNo.: 1803B78

RE: Jolly Roger

Dear Bernie Bockisch:

Hall Environmental Analysis Laboratory received 8 sample(s) on 3/21/2018 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

Analytical Report

Lab Order: 1803B78

Hall Environ	mental Analysis	Laborat	ory, Inc.		Lab Order: 1803B78 Date Reported: 3/28/2018
	GHD olly Roger			L	ab Order: 1803B78
Lab ID:	1803B78-001		(Collection Date:	: 3/19/2018 12:40:00 PM
Client Sample ID:	S-088210-21-031918-	MG-HA-1		Matrix	: SOIL
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch I
EPA METHOD 300	.0: ANIONS				Analyst: MRA
Chloride		180	30	mg/Kg	20 3/27/2018 2:34:36 PM 3725
Lab ID:	1803B78-002			Collection Date:	: 3/19/2018 12:42:00 PM
Client Sample ID:	S-088210-21-031918-	MG-HA-2		Matrix	: SOIL
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch I
EPA METHOD 300	.0: ANIONS				Analyst: MRA
Chloride		170	30	mg/Kg	20 3/27/2018 2:47:00 PM 3725
Lab ID:	1803B78-003		(Collection Date:	: 3/19/2018 12:45:00 PM
Client Sample ID:	S-088210-21-031918-	MG-HA-3		Matrix	: SOIL
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch II
EPA METHOD 300	.0: ANIONS				Analyst: MRA
Chloride		120	30	mg/Kg	20 3/27/2018 2:59:25 PM 3725
Lab ID:	1803B78-004			Collection Date:	: 3/19/2018 12:47:00 PM
Client Sample ID:	S-088210-21-031918-	MG-HA-4		Matrix	: SOIL
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch II
EPA METHOD 300	.0: ANIONS				Analyst: MRA
Chloride		140	30	mg/Kg	20 3/27/2018 3:11:49 PM 3725
Lab ID:	1803B78-005			Collection Date:	: 3/19/2018 12:50:00 PM
Client Sample ID:	S-088210-21-031918-	MG-HA-5		Matrix	: SOIL
Analyses		Result	PQL Qual	Units	DF Date Analyzed Batch II
EPA METHOD 300	.0: ANIONS				Analyst: MRA
Chloride		35	30	mg/Kg	20 3/27/2018 3:24:14 PM 3725

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

- 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
- ND Not Detected at the Reporting Linit
- 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 3
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Analytical Report

Lab Order: 1803B78

Hall Environ	mental Analysis	s Laborat	ory, Inc.			orted: 3/28/20)18
	GHD olly Roger			L	ab Order:	1803B7	8
Lab ID:	1803B78-006			Collection Date:	: 3/19/2018	12:52:00 PM	[
Client Sample ID:	S-088210-21-031918	-MG-HA-6		Matrix	: SOIL		
Analyses		Result	PQL Qual	Units	DF Date A	Analyzed	Batch ID
EPA METHOD 300	.0: ANIONS					Analy	st: MRA
Chloride		38	30	mg/Kg	20 3/27/2	018 3:36:38 PN	1 37258
Lab ID:	1803B78-007			Collection Date:	: 3/19/2018	12:55:00 PM	[
Client Sample ID:	S-088210-21-031918	-MG-HA-7		Matrix	: SOIL		
Analyses		Result	PQL Qual	Units	DF Date A	Analyzed	Batch ID
EPA METHOD 300	.0: ANIONS					Analy	st: MRA
Chloride		ND	30	mg/Kg	20 3/27/2	018 4:13:52 PN	1 37258
Lab ID:	1803B78-008			Collection Date:	: 3/19/2018	12:57:00 PM	[
Client Sample ID:	S-088210-21-031918	-MG-HA-8		Matrix	: SOIL		
Analyses		Result	PQL Qual	Units	DF Date A	Analyzed	Batch ID
EPA METHOD 300	.0: ANIONS					Analy	st: MRA
Chloride		ND	30	mg/Kg	20 3/27/2	018 4:26:16 PN	1 37258

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

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
- % Recovery outside of range due to dilution or matrix S
- Analyte detected in the associated Method Blank В
- Value above quantitation range Е
- J Analyte detected below quantitation limits Page 2 of 3
- Р Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

GHD

Project: Jolly Roger Sample ID MB-37258 SampType: mblk TestCode: EPA Method 300.0: Anions Client ID: PBS Batch ID: 37258 RunNo: 50104 Prep Date: 3/27/2018 Analysis Date: 3/27/2018 SeqNo: 1623718 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Chloride ND 1.5 Sample ID LCS-37258 SampType: Ics TestCode: EPA Method 300.0: Anions Batch ID: 37258 Client ID: LCSS RunNo: 50104 Prep Date: 3/27/2018 Analysis Date: 3/27/2018 SeqNo: 1623719 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Analyte Qual Chloride 14 1.5 15.00 0 95.1 90 110

Qualifiers:

Client:

- * 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 3 of 3

HALL Hall Environmental Analysis Laboratory 4901 Hawkins NE ANALYSIS LABORATORY TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	GHD	Work Order Num	ber: 1803B78		RcptNo: 1
Received By:	Mandy Woods	3/21/2018 9:30:00	AM	Mass	-
Completed By:	Ashley Gallegos	3/21/2018 12:51:20	PM	AF	
Reviewed By:	PDS	3/22/18		, Q	
MW 3/	22/18	7.0			
Chain of Cus	•				
1. Is Chain of C	Sustody complete?		Yes 🖌	No 🗌	Not Present
2. How was the	sample delivered?		Courier		
<u>Log In</u>					
	npt made to cool the samp	es?	Yes 🔽	No 🗌	NA 🗌
4. Were all sam	ples received at a temperat	ture of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗌
5. Sample(s) in	proper container(s)?		Yes 🗹	No 🗀	
6. Sufficient san	nple volume for indicated te	st(s)?	Yes 🔽	No 🗌	
7. Are samples	(except VOA and ONG) pro	perly preserved?	Yes 🗹	No 🗌	
8. Was preserva	tive added to bottles?		Yes 🗌	No 🗹	NA 🗌
9. VOA vials hav	/e zero headspace?		Yes	No 🗌	No VOA Vials 🔽
10. Were any sar	mple containers received bi	oken?	Yes 🗌	No 🔽	# a6 ana and
	ork match bottle labels?		Yes 🔽	No 🗌	# of preserved bottles checked for pH:
	ancies on chain of custody)		_	_	(<2 or >12 unless noted)
	correctly identified on Chair		Yes 🗹	No 🗌	Adjusted?
	t analyses were requested? ng times able to be met?	,	Yes 🗹		Checked by:
	ustomer for authorization.)		Yes 🗹	No 🗌	
Special Handl	ing (if applicable)				
15. Was client no	tified of all discrepancies w	ith this order?	Yes 🗌	No 🗌	NA 🗹
Person	Notified:	Date	T		
By Who	om:	Via:	🗌 eMail 🔲 P	hone 🗌 Fax	📋 In Person
Regard					HAR AN
Client Ir	nstructions:				ne n
16. Additional rei	marks:				·
17. Cooler Infor	mation				
Cooler No		Seal Intact Seal No	Seal Date	Signed By	
 1	2.6 Good	Yes			

-

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Mailing Address:(J.) (Thylicin.School NEAl bueu corg u.c., N/M & 711 Phone #: S05 854 6672 email or Fax#: Bennocol. Bock Isch QAVQC Package: D Standard D Level 4 (Fu		OERVICES	Standard Rush Project Name:	C Rush				ANA	TYS	SIS	P	SOR	ANALYSIS LABORATORY	RY
/£/Albueucov Phone #:S0S_8 email or Fax#:Bes 0A/0C Package: □ Standard	ALT4	ndianSchool Rol Staco	J. W.	Roger	4	48	101 Hav	4901 Hawkins NE	alle	anvironmental.com Albuquerque, NM 87109	intal.co	m M 8710	60	
email or Fax#.[<u>%</u> 0A/QC Package: □ Standard	SSH O	0	Project #: O 8 S A 10 . 2 1	12.0		T	el. 505-	Tel. 505-345-3975	A N	Fax 50: lysis Re	505-345-4107 Request	4107		
	mercy	Bock Isch Candron	Project Manager. Becnerce	0	ockisch				(SMI		8804			
c	Other		Sampler: M (G M Yes	D No		90 / DB	(1.4(S 0/79	on and a second s	2000/	192	205	
EDD (Type)			Temp	N	·	_	สอ))g po				10/-	avo	• A/
Date Time	Matrix	Sample Request ID	Container P Type and #	Preservative Type	HEAL NO. 1803B78	TM + XƏT8 TM + XƏT8	TPH (Metho TPH 8015B	EDB (Metho	PAH's (8310 6M 8 AЯጋЯ	O, F) anoinA Diteo Pestic	8260B (VO/	ime2) 0728	2011-	səlddu8 iA
3/19/18/1240	S	1.244. SW.SIDESILE DIRES	fozbil Sar	ICE	100-							X	5	
2421	_	5,000001 031418 1/100-143	_	_	-002					_		~	V	
SHEI		50882. 10.21.031913-M6- H4.5			2003								X	
1247		444 MIGING HAY			100-					-			×	
1250	_	2-44-9W. SIDISONE OTOSO		_	-005							\cap	X	-
12.52	_	S. CSEND JI OSMIS . MG.HA.6			-000					_		<u> </u>		
1255		S. ORSUD. 21. 03141 X. MC. HAT	_		-007							X		
1257	_	S.OSSAD. 21. 03 MIS . WE HAS	-	_	-008					-		\uparrow		
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