

Variance Request

Site of Project:

Pogo Resources Bagley SWD S-34-11S-33E 1RP-5716

Report by:

Zach Robbins | Technical and Engineering Analyst | RXSoil, Inc. 201 Main St, Ste 1360, Fort Worth, TX 76102 Zach.robbins@rxsoil.solutions | (210) 400-7645

May 22, 2020

RXSoil, Inc.

This report serves as a variance request for remediation project 1RP-5716 of release #NRM1927360423.

Bagley Field Rd, a Lea County road, borders this spill just to the south. Per instructed by the Lea County Road Department, excavation stopped 5' away from the edge of the road to prevent the road from collapsing. At the Road Department's request, RXSoil set up orange barricades between the road and excavation area and installed "Road Work Ahead" signs. Samples ES10 – ES15 were collected along this sidewall and tested for chlorides via Method 4500 at Cardinal Laboratories in Hobbs, shown below. Laboratory reports are attached. In order to avoid the need to build an access road parallel tearing up additional land along with the safety liabilty that would come with, RXSoil is requesting a variance to leave the soil in place.

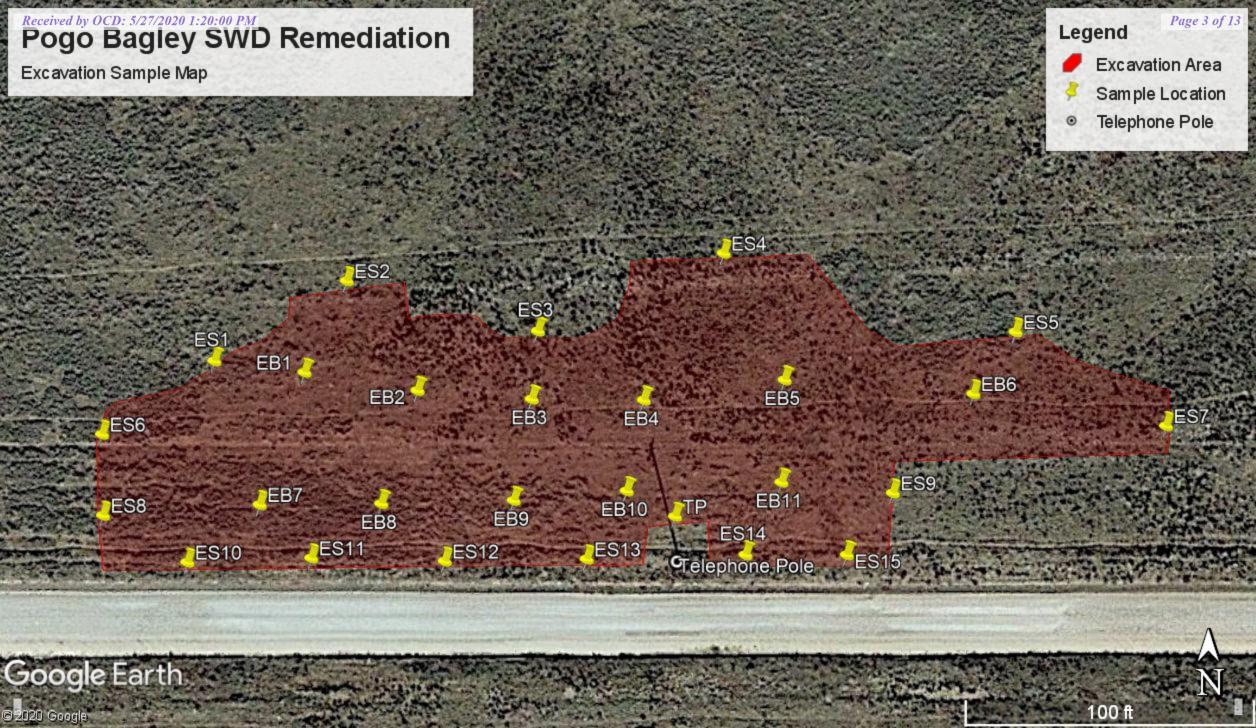
There is also an electrical pole near the excavation area, shown in the map on the following page. RXSoil contacted Lea County Electric Co-op. They requested RXSoil remain 15' away from the pole until Lea County Electric personnel was on-site, in which excavation continued to 12'. A sidewall sample was tested ("TP") They are not allowing further excavation, as further excavation could lead to issues with the integrity of the pole and outages resulting in additional releases. RXSoil is requesting a variance to leave this soil in place.

Sample	Sample	Sample	Chlo	oride
Name	Туре	Date	Field	M4500
ES10	Sidewall	5/18/2020	-	1550
ES11	Sidewall	5/18/2020	-	128
ES12	Sidewall	5/18/2020	-	160
ES13	Sidewall	5/18/2020	-	384
ES14	Sidewall	5/18/2020	-	48
ES15	Sidewall	5/18/2020	-	480
TP	Sidewall	5/21/2020	2404	3520
NMOCD Th	resholds		6	00

BOLD results indicate results above thresholds

⁻ indicates tests were not ran

[&]quot;ND" indicates a non-detectable result, below testing limits







May 19, 2020

HAYES ADAMS

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: POGO

Enclosed are the results of analyses for samples received by the laboratory on 05/18/20 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

RX-SOIL INC. HAYES ADAMS 201 MAIN STREET, SUITE 1360 FORT WORTH TX, 76102 NA

Fax To:

Received:

05/18/2020 05/19/2020

Reported: Project Name:

POGO

Project Number:

TATUM, NM

Sampling Date:

05/16/2020

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Kelly Jacobson

Project Location:

Analyte

Analyte

BAGLEY FIELD

Sample ID: ES -10 (H001353-01)

Chloride, SM4500Cl-B

Chloride

Chloride

mg/kg

Result

1550

Result

128

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

05/19/2020

Analyzed

05/19/2020

Analyzed

05/19/2020

Analyzed

05/19/2020

Analyzed By: GM Analyzed Method Blank

ND

Method Blank

ND

BS

400

% Recovery

100

True Value OC RPD

Oualifier

Sample ID: ES -11 (H001353-02)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: GM

BS

400

BS

400

% Recovery

100

400

True Value QC

400

Qualifier

3.92

RPD

3.92

Sample ID: ES -12 (H001353-03)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: GM

Analyte Result Chloride 160

Method Blank

ND

% Recovery 100

True Value QC 400

RPD

RPD

3.92

Qualifier 3.92

Sample ID: ES -13 (H001353-04)

Chloride, SM4500Cl-B

Chloride

Analyte

mg/kg

Result

384

Analyzed By: GM

Method Blank

ND

BS 400 % Recovery 100

True Value QC 400

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Kreene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

RX-SOIL INC.
HAYES ADAMS
201 MAIN STREET, SUITE 1360
FORT WORTH TX, 76102
Fax To: NA

Received:

05/18/2020

Sampling Date:

05/16/2020

Reported:

05/19/2020 POGO Sampling Type:

Soil

Project Name: Project Number:

TATUM, NM

Sampling Condition: Sample Received By: Cool & Intact Kelly Jacobson

Project Location:

Analyte

BAGLEY FIELD

Sample ID: ES -14 (H001353-05)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: GM

% Recovery

True Value QC

Qualifier

Chloride

Result 48.0

16.0 05/19/2020

Analyzed

Reporting Limit

Method Blank ND BS 400

100

400

Quali

RPD

3.92

3.92

Sample ID: ES -15 (H001353-06)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: GM

 Analyte
 Result
 Reporting Limit
 Analyzed

 Chloride
 480
 16.0
 05/19/2020

Method Blank

ND

BS 400 % Recovery 100

True Value QC 400 RPD Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Freene

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 5



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

Relinquished By:

Date:

Received By:

REMARKS:

5-12-70

All Results are emailed. Please provide Email address:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Observed Temp. °C

Sample Condition
Cool Intact
Yes Yes
No No

CHECKED BY:

Turnaround Time:

Standard Rush

戊

Corrected Temp. °C

Time:

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:		ANALYSIS REQUEST
 = 7	P.O. #:	- 1
Address:	Company:	
City: State:	Zip: Attn:	
Phone #: 817 - 253 · 6100 Fax #:	Address:	
Project #: Project Owner:	er: City:	
Project Name: Pogo	State: Zip:	
Project Location: Tatum, 7m	Phone #:	
Sampler Name: Hayes Adams	Fax#:	De
	MATRIX PRESERV. SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	CHLOR
- FS-10	`	\
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5 5-4	\	\
6 62-13	\	\
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affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is passed upon any of the above stated reasons or otherwise. Received Ry:	Cardinal, regardless of whether such claim is based upon any of the above stated reason.	Sons or otherwise.

Thermometer ID #87 Correction Factor + 4・4・C 封川る



May 22, 2020

HAYES ADAMS

RX-SOIL INC.

201 MAIN STREET, SUITE 1360

FORT WORTH, TX 76102

RE: POGO

Enclosed are the results of analyses for samples received by the laboratory on 05/21/20 16:05.

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Regulated VOCs (V1, V2, V3)

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Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

RX-SOIL INC.
HAYES ADAMS
201 MAIN STREET, SUITE 1360
FORT WORTH TX, 76102
Fax To: NA

Received:

05/21/2020

Sampling Date:

05/21/2020

Reported:

05/22/2020

Sampling Type:

Soil

Project Name: Project Number: POGO TATUM, NM Sampling Condition: Sample Received By: Cool & Intact Kelly Jacobson

Project Location:

BAGLEY FIELD

Sample ID: TELEPHONE POLE (H001404-01)

Chloride, SM4500CI-B	mg,	/kg	Anaiyze	а ву: АС					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	05/22/2020	ND	416	104	400	0.00	

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Celeg D. Freene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



(3/3) 333-2320 : 700 (3:0) 330 2		
Company Name: PX Soll		ANALTOIS NEWSES
Project Manager: House Adams	P.O. #:	
	Company:	
City: State:	Zip: Attn:	
Phone #: 817, 253 . 6100 Fax #:	Address:	
Project #: Project Owner:	city:	
Project Name: Pogo	State: Zip:	5
0	Phone #:	E
	Fax #:	
	MATRIX PRESERV.	SAMPLING
Lab I.D. Sample I.D.	R: BASE: COOL	CHLOI
H001404	# COI GROU WAS' SOIL OIL SLUE OTHE ACID	TIME
Telephone tola		
PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after compelation of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after compelation of the applicable analyses. In lower shall be cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service.	or any claim arising whether based in contract or tort, shall be limited to the amount paid deemed waived unless made in writing and received by Cardinal within 30 days a ling without limitation, business interruptions, loss of use, or loss of profits incurred by	aid by the client for the separate second letter for the applicable client, its subsidiaries,
Relinquished By: Time:	of services hereunder by Cardinal, regardless of whether such claim is based upon any units above season. Verbal Result: S-21-20 Time: Time	Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address:
Relinquished By: 0 Date:	Received By:	REMARKS:
Delivered By: (Circle One) Observed Temp. °C		S
Sampler - UPS - Bus - Other: Corrected Temp. °C	☐ Yes ☐ Yes ☐ No ☐ No	Thermometer ID #97 Yes Yes Yes Yes Orrected Temp. °C No Corrected Temp. °C