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TALON

Remedial Activities and Closure Report

Emerald PWH 20 No. 62H API: 30-015-43372|2RP-3377

Prepared For:

Devon Energy Production Company, 6488 Seven Rivers Hwy Artesia, New Mexico 88210

Prepared By:

Sheldon L. Hitchcock Talon/LPE 408 West Texas Artesia, New Mexico 88210

August 31, 2016 Mr. Mike Bratcher Mr. Mike Bratcher NMOCD District 2 811 S. 1st Street Artesia, NM 88210

Subject:

Remedial Activities and Closure Report

Devon Energy

Emerald PWH 20 #62H * 30-015-43372

Dear Mr. Bratcher,

Devon Energy has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The incident description, soil sampling results, remediation activities and closure request are submitted herein.

Incident Date

October 31, 2015

Site Information

The Emerald PWH 20 #62H is located approximately seventeen (17) miles southeast of Artesia, New Mexico. The legal location for the site is Section 20, Township 19 South and Range 29 East in Eddy County, New Mexico. More specifically the latitude and longitude for the location are 32.6424438 North and -104.1049327 West. See site plan in Appendix I.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service (NRCS), the soil in this area is made up of Tonuco loamy fine sand with 0 to 3 percent slopes. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

According to the Chevron Texaco ground water trend map, the ground water in this area is 50-100 feet below ground surface (BGS). See Appendix II. Therefore the ranking for this site is a 10 based on the following:

Depth to ground water 50'-100'
Wellhead Protection Area >1000'
Distance to surface water body >1000'

Based upon the site ranking of **10**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 1,000 mg/kg for TPH and 1,000 mg/kg for total chlorides.

Incident Description

On the night of October 31, 2015 the H2S alarms went off while drilling. The drilling crew evacuated the rig floor immediately leaving the pumps engaged causing the mud pits to overflow. This resulted in a release of 15 barrels of brine water on location. The location was scraped and the contaminated soil was placed in the cutting bin. A site plan is presented in Appendix I which illustrates the impacted area.

On June 9 2016, Talon mobilized personnel to begin the preliminary site assessment and to collect initial soil samples from the impacted area with a hand auger to a depth of 0.25-feet BGS, where refusal was encountered. Laboratory results are presented below in Table 1.

On June 20, 2016, Talon returned to the site with a backhoe for further vertical delineation of the impacted area. Laboratory results are presented below in Table 2.

Laboratory Results

See Appendix IV for complete report of laboratory results.

June 9, 2016 Table 1

Sample ID	Depth	BTEX	Chlorides	TPH (mg/kg)	TPH (mg/kg)
•	(feet)	(mg/kg)	(mg/kg)	GRO	DRO
S-1	0,		33200		
	0.25'		12300		
S-2	0'		29200		
	0.25		13300		

⁻⁻ Analyte Not Tested

June 20, 2016 Table 2

June 20, 2010				I dole .	<u> </u>
Sample ID	Depth	BTEX	Chlorides	TPH (mg/kg)	TPH (mg/kg)
•	(feet)	(mg/kg)	(mg/kg)	GRO	DRO
S-1	1'		96		
	2'		16		
	3'		<16		
	4'		16		
	5'		<16		
S-2	1'		5040		
	2'		1800		
1	3'		32		
	4'		112		
	5'		48		

⁻⁻ Analyte Not Tested

Remedial Actions Taken

- The impacted area in the vicinity of sample location S-1 was excavated to a depth of 0.5-feet BGS in accordance with the NMOCD approved work plan.
- The impacted area in the vicinity of sample location S-2 was excavated to a depth of 2-feet BGS.
- All excavated soil was transported to a NMOCD approved disposal facility. Lea Land, LLC.
- The excavation was backfilled with caliche and contoured to match the surrounding location.

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768

Respectfully submitted,

TALON/LPE

Sheldon L. Hitchcock

Project Manager

David J. Adkins District Manager

Attachments:

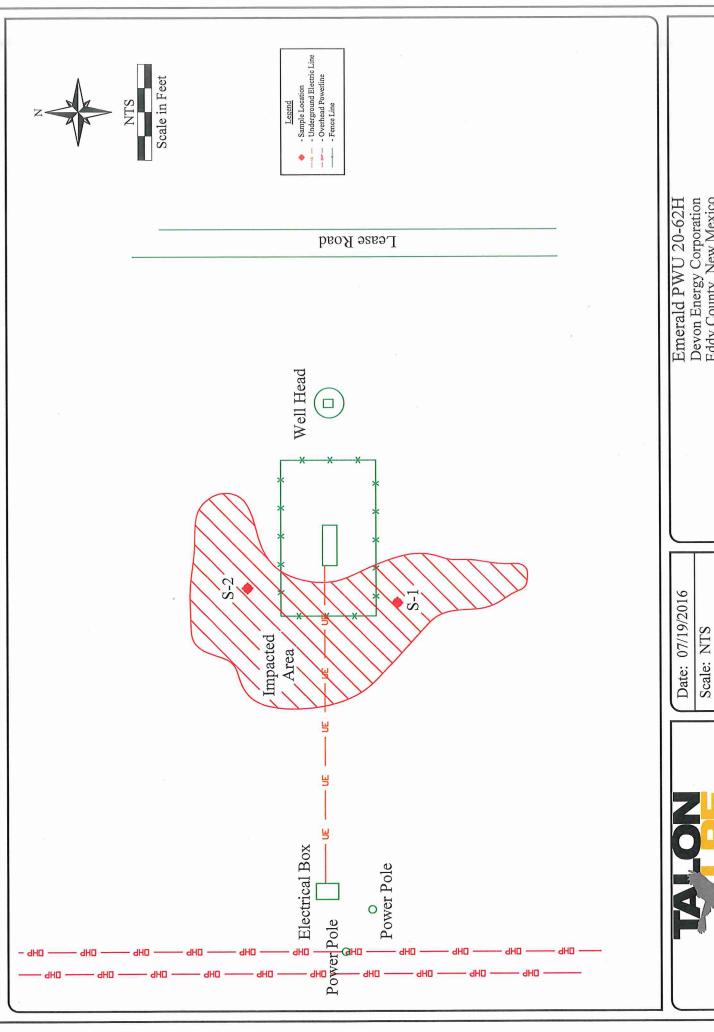
Appendix I Site Plan

Appendix II Groundwater Data

Appendix III Initial & Final C-141

Appendix IV Laboratory Results

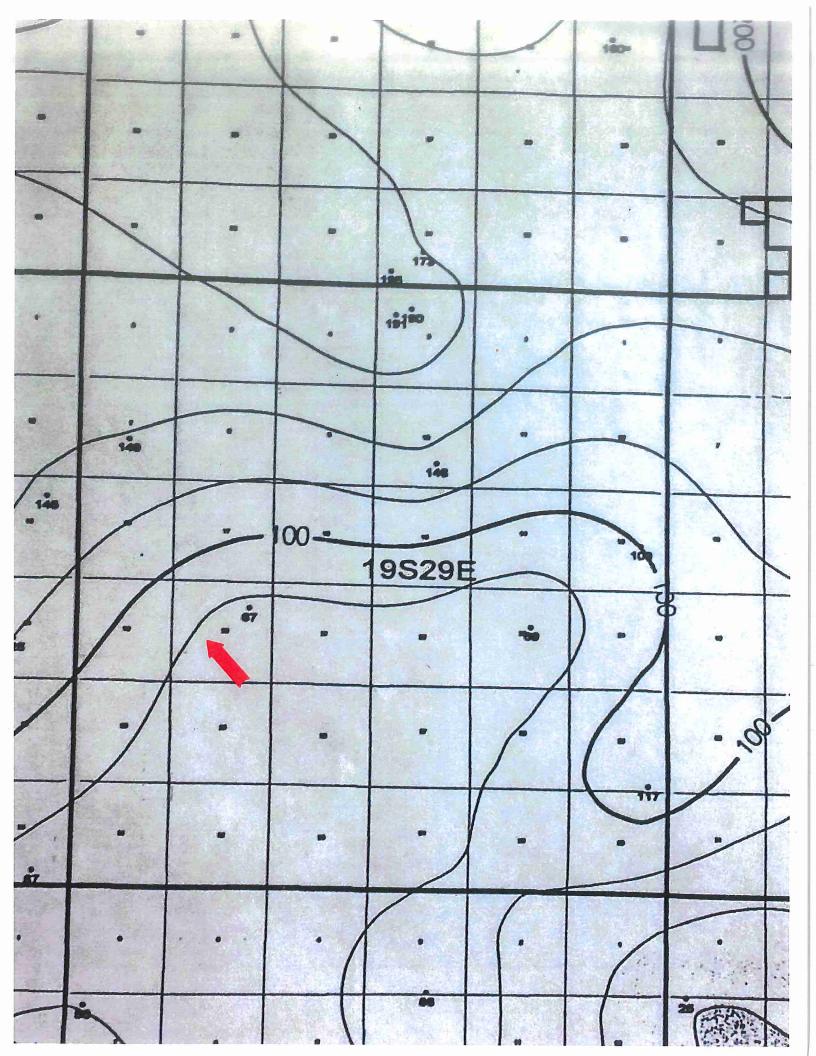
APPENDIX I SITE PLAN



Devon Energy Corporation Eddy County, New Mexico Figure 1 - Site Plan

Drawn By: TJS

APPENDIX II GROUNDWATER DATA



APPENDIX III
INITIAL C-141
&
FINAL C-141

District I
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 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.

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Surface Ov	wner State			Mineral ()wner	State			API No	. 30-015-	<u>43372</u>	
						OF REI					manarii e	
Unit Letter M	Section 20	Township 19S	Range 29E	Feet from the 1238		South Linc FSL	Feet from the 248	1	West Line FWL	County EDDY		
	•		La	ntitude: <u>32.6424</u>			de: <u>-104.104</u>	9327				
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Type of Rele	ease Spin	Brine water				15 BBL	Release		14 BBL			
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By Whom?	N/A	······································				Date and 1 11/02/15 1						
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regulations a public health should their or the enviro	all operators h or the envi- operations h onment. In a	are required to ronment. The lave failed to:	o report and acceptant adequately OCD accept	e is true and comp nd/or file certain r ce of a C-141 repo y investigate and r otance of a C-141	clease not by the conclusion	otifications a c NMOCD n e contaminat	nd perform con arked as "Final ion that pose a t	rective ac Report" hreat to g	tions for rel does not rel ground wate	leases which lieve the ope r. surface w	n may ci crator of ater, hu	ndanger Fliability man health
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	ne: Jeanette					Approval Da	1110	15	Expiration	Date: N	VA	
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E-mail Add	ress: Jeanet	le.barron@d	vn.com			Conditions of Romedia	lion per O.C	D. Rule	es & Guld	ieliAB3che	d 🔲	
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APPENDIX IV LABORATORY RESULTS



June 13, 2016

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: EMERALD PWU 20 #62H

Enclosed are the results of analyses for samples received by the laboratory on 06/10/16 13:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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/qa/lab accredited 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



TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

06/10/2016

Reported:

06/13/2016

Project Name:

EMERALD PWU 20 #62H

Project Number:

700794.191.01

Project Location:

EDDY COUNTY, NM

Sampling Date:

06/09/2016

Soil

Sampling Type: Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-1 0' (H601277-01)

Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	33200	16.0	06/10/2016	ND	432	108	400	0.00	
Sample ID: S-1 0.25' REF	USAL (H6012		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12300	16.0	06/10/2016	ND	432	108	400	0.00	
Sample ID: S-2 0' (H6012: Chloride, SM4500Cl-B	77-03) mg/	/ka	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	29200	16.0	06/10/2016	ND	432	108	400	0.00	
Sample ID: S-2 0.25' REF	USAL (H6012		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13300	16.0	06/10/2016	ND	432	108	400	3.77	QM-07

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Keene



Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

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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Celeg D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: 1810N/LPE		· ANALYSIS REQUEST
Project Manager: Himberth Wilson	P.O. 嵌	
e.	Company: Talon/LPE	
City: Artesia state: NM zip: 88210	Attn:	
Phone #: 575-746-8768 Fax #: 575-746-8905	Address:	
Project #: 700 794, 191.01 Project Owner: 1)/1/10	City:	
Project Name: EMERAL PWU 20 #62H	State: Zip:	
Project Location: Eddy Ctv	#	
Sampler Name: Kim Wilson		
FOR LAB USE ONLY MATRIX	PRESERV SAMPLING	
RS TER	vria	
Sample ID	DGE ER: /BASE: .COOL ER:	
# GI	O AC	
2 5-1 0.25' Refusal 6		
3 (. 2 0'		
4 5-2 0,25 Refusal G	~	
PLEASE NOTE: Leakity and Sumages, Cardinal's liability and client's exclusive remany for any claim adding whether based in confract or fort, shall be limited to the amount pad by the client for the	contract or test, shall be limited to the amount paid by the client for the	
analysts. A same inciding those for hadgenose and any other cause whatsoever shall be decembed walved unless made in walling and teceived by Cardinal within 30 days after completion of the applicable services, in no event shall Candinal to leable for incidental or consequential damages, instability without limited being the property of profits incidently offert, its substitution, so the consequent of the profit incidents of the consequential damages. Instability without limited being the profit of the profit incidents of the consequential damages. Instability without limited being the profit of th	ting and received by Cardinal within 30 days after completion of the applicable pidens, loss of luce, or loss of profile hoursed by oftent, its substitutions, and the first in the substitutions.	
Relinguished By: Date: / // Received By:	Phone Result: Yes	口 No Add'l Phone #:

Sampler - UPS - Bus - Other:

(Circle One)

Relinquished By:

UK

Time: (21,00

Date: 6/6/6 Received By:

Phone Result: ☐ Yes ☐ No Add'I Phone Fax Result: ☐ Yes ☐ No Add'I Fax #: REMARKS:



June 24, 2016

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: EMERALD PW 20 62H

Enclosed are the results of analyses for samples received by the laboratory on 06/22/16 12:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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/qa/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. Keene

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



TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received: Reported: 06/22/2016

06/24/2016

Project Name:

EMERALD PW 20 62H

Project Number: Project Location:

Analyte

Analyte

700794.191.01

EDDY COUNTY, NM

Sampling Date:

06/20/2016

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-1 1' (H601366-01)

Chloride, SM4500CI-B

Chloride

Chloride

Chloride

Chloride

mg/kg

Result

96.0

Result

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed By: HM

Analyzed

06/24/2016

Method Blank ND

BS % Recovery

True Value QC

RPD 0.00 Qualifier

Sample ID: S-1 2' (H601366-02)

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

Analyzed

Method Blank ND

BS 416

416

% Recovery 104

104

104

True Value QC 400

400

RPD

0.00

Qualifier

Sample ID: S-1 3' (H601366-03)

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

Result Reporting Limit Analyte <16.0 16.0

Analyzed 06/24/2016

Analyzed

06/24/2016

06/24/2016

Method Blank ND

BS 416

BS

416

% Recovery True Value QC

400

400

RPD 0.00

Qualifier

Sample ID: S-1 4' (H601366-04)

Analyte

Chloride, SM4500Cl-B

mg/kg

Result

16.0

Analyzed By: HM

Method Blank ND

% Recovery

104

True Value QC

RPD 0.00

Qualifier

Cardinal Laboratories

*=Accredited Analyte

All claims, including those for negligence and 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 client for analyses. any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & Keine

Celey D. Keene, Lab Director/Quality Manager



TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:

06/22/2016

Reported:

06/24/2016

Project Name:

EMERALD PW 20 62H

Project Number:

700794.191.01

5040

16.0

Project Location:

EDDY COUNTY, NM

Sampling Date: Sampling Type:

416

104

06/20/2016

Soil

400

0.00

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-1 5' (H601366-05)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/24/2016	ND	416	104	400	0.00	
Sample ID: S-2 1' (H6013	366-06)	٠							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM			9		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Sample ID: S-2 2' (H601366-07)

Chloride

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	06/24/2016	ND	416	104	400	0.00	

ND

06/24/2016

Sample ID: S-2 3' (H601366-08)

Chloride, SM4500CI-B		mg/	/kg	Analyze	d By: HM					
Analyte	6	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride		32.0	16.0	06/24/2016	ND	416	104	400	0.00	

Sample ID: S-2 4' (H601366-09)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/24/2016	ND	416	104	400	0.00	

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*=Accredited Analyte

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Celeg D. Keine



TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

06/22/2016

Reported: Project Name: 06/24/2016 EMERALD PW 20 62H

Project Number:

700794.191.01

Project Location:

EDDY COUNTY, NM

Sampling Date:

06/20/2016

Soil

Sampling Type: Sampling Condition: Sample Received By:

Cool & Intact

Jodi Henson

Sample ID: S-2 5' (H601366-10)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyte

Reporting Limit Result

Analyzed

Method Blank

BS % Recovery True Value QC

RPD

Qualifier

Chloride

48.0

16.0

06/24/2016

ND

416

104

400

0.00

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

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 SM4500CI-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

PLEASE NOTE: Liability and Damages. Cardinal's fability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed valved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey & Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(010) 000,5000 1 (010) 000 11.11		ANALYSIS RECOEST
Company Name: Talon/LPE		
Project Manager: Kinchel, M. Wilson		
State: NM	zip: 88210 Attn:	
-746-8768 F	3905 Address:	
Project #: 700 794, 191.01 Project Owner: L	city:	
Project Name: England full 62 H	State: Zip:	
ä	Phone #:	
Sampler Name: Kine Wilson	Fax#:	Le Le
FOR LAB USE ONLY	MATRIX PRESERVI SAMPLING	
с)омр.	NTER ER	Oci
Name and Address of the Owner, where	NDWA EWATE BE R: BASE:	610
G)RAE	WASTINE SOIL OIL SLUDG OTHER OTHER TIME	
-		
2 5-1 2		
3 5-1 3'		
-4 S-1 4'		
-5 5-1 57 6		
-65-21		
2'		
-8 S-2 3'		
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[†] Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326