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Remediation and Closure Report:

Pecos Federal #001Y API# 30-015-24875 Talon Project #702331.002.01

Prepared For:

WPX Energy 5315 Buena Vista Drive Carlsbad, NM 88220

Prepared By:

TALON/LPE 408 W. Texas Avenue Artesia, New Mexico 88210

October 4, 2018

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

Subject:

Remediation and Closure Report

Pecos Federal #001Y API # 30-015-24875

Dear Mr. Bratcher,

WPX Energy (WPX) 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 report are submitted herein.

Site Information

The Pecos Federal #001Y is located approximately forty (40) miles southeast of Carlsbad, New Mexico. The legal location for this release is Unit Letter P, Section 27, Township 26 South and Range 29 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.019996 North and -103.967874 West.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services (NRCS) the soil in this area is made up of Upton-Simona complex, 1 to 15 percent slopes, eroded. The local surface and shallow geology, Paleozoic Age sedimentary deposits, is comprised of the Upper Permian Group, Quartermaster and Rustler formations, which are made up of residuum-weathered limestone under lain by very gravely loam and hard caliches. Drainage courses in this area are normally dry

Ground Water and Site Ranking

The New Mexico Office of the State Engineer database indicates there is no published groundwater information within 5,000 meters of the release area. However, according to the Chevron Texaco Groundwater Trend Map, the groundwater in this area is between 50 to 100 feet below ground surface (BGS).

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, and 1,000 mg/kg for TPH. The NMOCD recommended clean-up criteria guidelines for total chlorides are 600 mg/kg.

Incident Description and Initial Remedial Actions

On July 5, 2018, a flange on a pipeline header began to leak during the transfer of fluids. The line was isolated, the flange repaired and the header was put back into service. A total of 10 barrels of produced water was released with 2 barrels being recovered. Talon mobilized personnel to the location for the initial site assessment and soil sample collection. A site plan is presented in Appendix I which illustrates the impacted area.

On July 10, 2018, Talon personnel mobilized to the site to conduct a site assessment of the release and surrounding location. On July 18, 2018, Talon personnel and equipment returned to the location to conduct remediation activities. Analytical results for all soil samples collected are presented in the following data tables.

Laboratory Results

See Appendix II for complete report of laboratory results.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO	TPH (mg/kg) MOR	Total TPH
S-1	0	< 0.300	8130	<10.0	<10.0	<10.0	<10.0
S-1	1		272				
S-1	1 East Sidewall		64				
S-1	1 West Sidewall		112				
S-2	0	< 0.300	576	<10.0	<10.0	<10.0	<10.0
S-2	1		96				
S-2	1 East Sidewall		48				
S-2	1 West Sidewall		48				
S-3	0	< 0.300	240	<10.0	<10.0	<10.0	<10.0
S-3	1		2280				
S-3	2		96				
S-3	2 East Sidewall		368				

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO	TPH (mg/kg) MOR	Total TPH
S-3	2 West Sidewall		416				
S-4	0	< 0.300	2240	<10.0	<10.0	<10.0	<10.0
S-4	1		288				
S-4	2		208				
S-4	2 East Sidewall		256				
S-4	2 West Sidewall		304				
	1 2 10 10 10 10 11			ero eventual			
S-5	0	< 0.300	416	<10.0	<10.0	<10.0	<10.0
S-5	1		192				
S-5	1 East Sidewall		48				
S-5	1 West Sidewall		160				
S-6	0	< 0.300	32	<10.0	<10.0	<10.0	<10.0
S-6	1		32				
S-6	1 East Sidewall		112				
S-6	1 West Sidewall		32				
BG-1	0		64				
BG-2	0		32				
DCA	0		1.0				
BG-3	0		16				
DC 4	0		22				
BG-4	0		32				
DC 5	0		16				
BG-5	0		16				

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO	TPH (mg/kg) MOR	Total TPH
BG-6	0		96				

⁻⁻ Analyte Not Tested

Remedial Actions Taken

- The impacted soil in the vicinity of soil samples S-1 and S-4 were excavated to a depth of 1-foot deep.
- The impacted soil in the vicinity of S-3 was excavated to a depth of 2-feet deep.
- The visually affected soil throughout the rest of the flow path in the vicinity of samples S-2, S-5 and S-6 was scraped to remove all potential produced water impacts.
- All contaminated soil was transported to R-360, a NMOCD approved solid waste disposal facility
- Upon analytical data confirming that all chloride issues have been addressed, the area was backfilled with locally obtained topsoil, seeded and contoured to match the local terrain.
- A Final C-141 Form is also attached. See Appendix III.

Closure

On behalf of WPX Energy, we respectfully request that no further actions be required and that closure with regards to this incident be granted.

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

Chris Jones Project Manager

David J. Adkins District Manager

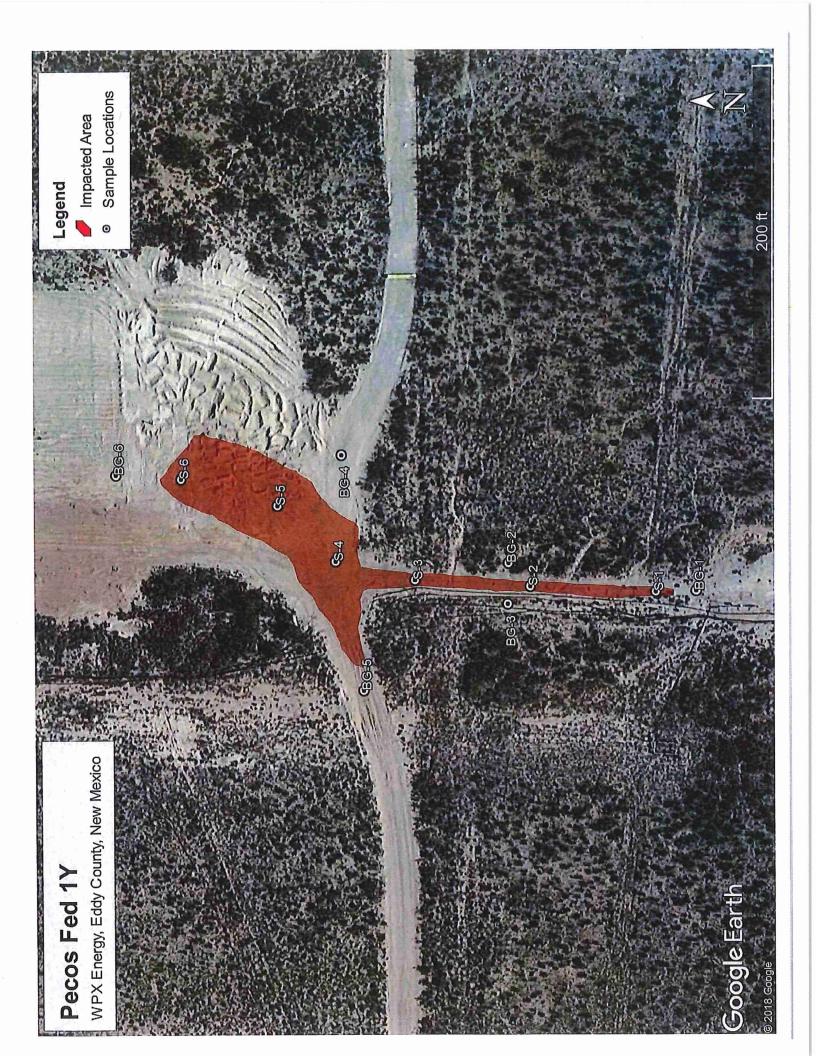
Attachments:

Appendix I Site Plan

Appendix II Laboratory Results

Appendix III Final C-141

APPENDIX I SITE PLAN



APPENDIX II

LABORATORY RESULTS



July 24, 2018

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: PECOS FEDERAL 1Y

Enclosed are the results of analyses for samples received by the laboratory on 07/23/18 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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.

Celes & 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 DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 (575) 745-8905 Fax To:

Received:

07/23/2018

Reported:

07/24/2018

Project Name: Project Number: PECOS FEDERAL 1Y

Project Location:

702331,002.01

Sampling Date:

Soil

Sampling Type:

Sample Received By:

Sampling Condition:

07/18/2018

Cool & Intact Tamara Oldaker

WPX - EDDY CO NM

Sample ID: BG -1 0' (H802000-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/24/2018	ND	416	104	400	0.00	

Sample ID: BG -2 0' (H802000-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/24/2018	ND	416	104	400	0.00	

Sample ID: BG -3 0' (H802000-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/24/2018	ND	416	104	400	0.00	

Sample ID: BG -4 0' (H802000-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/24/2018	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celeg Di Keena

Celey D. Keene, Lab Director/Quality Manager



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

Received: Reported: 07/23/2018

07/24/2018

Project Name: Project Number: PECOS FEDERAL 1Y

Project Location:

Analyte

702331.002.01 WPX - EDDY CO NM Sampling Date:

Sampling Type:

07/18/2018

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: BG -5 0' (H802000-05)

Chloride, SM4500Cl-B

mg/kg

Reporting Limit

16.0

Analyzed By: AC Analyzed

Method Blank

% Recovery True Value QC

RPD

Qualifier

Chloride

Chloride

Result 16.0

07/24/2018

ND

Method Blank

BS 416

BS

104

% Recovery

400

Sample ID: BG -6 0' (H802000-06)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Reporting Limit Analyzed Result Analyte 07/24/2018 96.0 16.0

ND

416 104 True Value QC 400

RPD 0.00

0.00

Qualifier

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Celey D. Keene, Lab Director/Quality Manager

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Received: Reported: 07/23/2018

07/24/2018

Project Name:

PECOS FEDERAL 1Y

Project Number:

702331.002.01

Project Location:

WPX - EDDY CO NM

Sampling Date:

07/18/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: S -1 0' (H802000-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2018	ND	1.98	99.1	2.00	0.522	
Toluene*	<0.050	0.050	07/23/2018	ND	1.97	98.3	2.00	1.59	
Ethylbenzene*	<0.050	0.050	07/23/2018	ND	1.96	98.1	2.00	1.39	
Total Xylenes*	<0.150	0.150	07/23/2018	ND	6.15	103	6.00	1.18	
Total BTEX	<0.300	0.300	07/23/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 %	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8130	16.0	07/24/2018	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2018	ND	218	109	200	0.810	
DRO >C10-C28*	<10.0	10.0	07/23/2018	ND	216	108	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	07/23/2018	ND					
Surrogate: 1-Chlorooctane	104	% 41-14.	2						
Surrogate: 1-Chlorooctadecane	<i>98.1</i>	% 37.6-14	17						

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

Received: Reported: 07/23/2018

07/24/2018

PECOS FEDERAL 1Y

Project Name: Project Number:

702331.002.01

Project Location:

Analyte

WPX - EDDY CO NM

Sampling Date:

Sampling Type:

07/18/2018

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: S -1 1' (H802000-08)

Chloride, SM4500CI-B

mg/kg

Reporting Limit

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed By: AC

Analyzed

Analyzed

07/24/2018

Method Blank

% Recovery

104

True Value QC

RPD

0.00

Chloride

Chloride

Chloride

Result 272

Result

64.0

Result

112

16.0 07/24/2018 ND

416

BS

BS

416

400

Oualifier

Sample ID: S -1 EAST SIDEWALL 1' (H802000-09)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Method Blank

% Recovery

104

True Value QC 400

RPD 0.00

Qualifier

Sample ID: S-1 WEST SIDEWALL 1' (H802000-10)

Chloride, SM4500Cl-B Analyte

Analyte

mg/kg

Analyzed By: AC

Analyzed 07/24/2018

Method Blank ND

ND

BS 416 % Recovery 104

True Value QC

400

RPD

0.00

Qualifier

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Celey D. Keene, Lab Director/Quality Manager

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

Received:

07/23/2018

Reported:

07/24/2018

Project Name:

PECOS FEDERAL 1Y

Project Number: Project Location:

702331.002.01 WPX - EDDY CO NM Sampling Date:

07/18/2018

Sampling Type:

Soil

Sampling Condition:

Sample Received By:

Cool & Intact

Tamara Oldaker

Sample ID: S -2 0' (H802000-11)

BTEX 8021B	mg/	kg	Analyze	By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2018	ND	1.98	99.1	2.00	0.522	
Toluene*	<0.050	0.050	07/23/2018	ND	1.97	98,3	2,00	1.59	
Ethylbenzene*	<0.050	0.050	07/23/2018	ND	1.96	98.1	2.00	1.39	
Total Xylenes*	<0.150	0.150	07/23/2018	ND	6.15	103	6.00	1.18	
Total BTEX	<0.300	0.300	07/23/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	07/24/2018	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/23/2018	. ND	218	109	200	0.810	
DRO >C10-C28*	<10.0	10.0	07/23/2018	ND	216	108	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	07/23/2018	ND					
Surrogate: 1-Chlorooctane	103	% 41-14	2						
Surrogate: 1-Chlorooctadecane	96.9	% 37.6-1-	47						

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alex & Keene



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 (575) 745-8905

Fax To:

Received: Reported: 07/23/2018

07/24/2018

Project Name:

PECOS FEDERAL 1Y

Project Number:

702331.002.01

Project Location:

Analyte

WPX - EDDY CO NM

Sampling Date:

Sampling Type:

07/18/2018 Soil

Cool & Intact

Sampling Condition: Sample Received By:

Tamara Oldaker

Sample ID: S -2 1' (H802000-12)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Result

Reporting Limit

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed

Analyzed

07/24/2018

Analyzed

07/24/2018

Method Blank ND

BS % Recovery

True Value QC

RPD 0.00

0.00

Qualifier

Chloride

96.0

Result

48.0

Result

48.0

07/24/2018 16.0

416

104

400

Chloride

Chloride

Sample ID: S -2 EAST SIDEWALL 1' (H802000-13)

Chloride, SM4500CI-B

Analyte

Analyte

Analyzed By: AC

Method Blank

ND

ND

BS

416

% Recovery

True Value QC RPD Qualifier

Sample ID: S -2 WEST SIDEWALL 1' (H802000-14)

Chloride, SM4500Cl-B

Analyzed By: AC

BS Method Blank

416

% Recovery 104

104

True Value QC

400

400

RPD

0.00

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Clegar Henre

Celey D. Keene, Lab Director/Quality Manager

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

Received:

07/23/2018

Reported:

07/24/2018

Project Name:

PECOS FEDERAL 1Y

Project Number: Project Location: 702331.002.01 WPX - EDDY CO NM Sampling Date:

07/18/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: S -3 0' (H802000-15)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	07/23/2018	ND	1.98	99.1	2.00	0.522	
Toluene*	<0.050	0.050	07/23/2018	ND	1.97	98.3	2,00	1,59	
Ethylbenzene*	<0.050	0.050	07/23/2018	ND	1.96	98.1	2.00	1.39	
Total Xylenes*	<0.150	0.150	07/23/2018	ND	6.15	103	6.00	1.18	
Total BTEX	<0.300	0.300	07/23/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	69.8-14	2						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/24/2018	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	07/24/2018	ND	218	109	200	0.810	
DRO >C10-C28*	<10.0	10.0	07/24/2018	ND	216	108	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	07/24/2018	ND					
Surrogate: 1-Chlorooctane	103	% 41-14	2						
Surrogate: 1-Chlorooctadecane	97.8	% 37.6-14	17						

Cardinal Laboratories

*=Accredited Analyte

REASE NOTE: Liability and Damages. Cardnel's lability and clients's exclusive remedy for any claim arising, whether based in contract or tost, shall be territed to the amount paid by client for analyses. All claims, including those for regigence and any other cause whatsoever shall be deemed valved unless made in writing and received by Cardinal within thiny (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 Cleent, 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 unitine approval of Cardinal laboratories.

alex there



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

Received: Reported: 07/23/2018

07/24/2018

Project Name:

PECOS FEDERAL 1Y

Project Number: Project Location:

Analyte

702331.002.01 WPX - EDDY CO NM Sampling Date:

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

07/18/2018

Sample Received By:

Tamara Oldaker

Sample ID: S -3 1' (H802000-16)

Chloride, SM4500Cl-B

mg/kg

Reporting Limit

Analyzed By: AC Analyzed Method Blank

BS

% Recovery

104

104

True Value QC

Qualifier

Chloride

Result 2280

Result

96.0

Result

368

16.0

Reporting Limit

16.0

07/24/2018

416

400

400

0.00

RPD

Sample ID: S -3 2' (H802000-17)

Chloride, SM4500Cl-B Analyte

mg/kg

Analyzed By: AC Analyzed

07/24/2018

Method Blank

ND

ND

BS

416

True Value QC % Recovery

RPD

0.00

Qualifier

Chloride

Chloride

Chloride

Sample ID: S -3 EAST SIDEWALL 2' (H802000-18) Chloride, SM4500Cl-B

Reporting Limit

16.0

Analyzed By: AC

Analyzed

07/24/2018

Method Blank ND

ND

% Recovery BS 400

True Value QC

400

RPD

0.00

Qualifier QM-07

Qualifier

Sample ID: S -3 WEST SIDEWALL 2' (H802000-19)

Chloride, SM4500CI-B

Analyte

Analyte

mg/kg

Analyzed By: AC

Analyzed Reporting Limit Result 07/24/2018 16.0 416

Method Blank BS 400 % Recovery 100

100

True Value QC 400

RPD 0.00

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Celey D. Keene, Lab Director/Quality Manager



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

Received:

07/23/2018

Reported:

07/24/2018

Project Name:

PECOS FEDERAL 1Y

Project Number:

702331.002.01

Project Location:

WPX - EDDY CO NM

Sampling Date:

07/18/2018

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: 5 -4 0' (H802000-20)

BTEX 8021B	mg/	kg	Analyze	d By: MS	····				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2018	ND	1.98	99.1	2.00	0.522	
Toluene*	<0.050	0.050	07/23/2018	ND	1.97	98.3	2.00	1,59	
Ethylbenzene*	<0.050	0.050	07/23/2018	ND	1.96	98.1	2.00	1.39	
Total Xylenes*	<0.150	0.150	07/23/2018	ND	6.15	103	6.00	1.18	
Total BTEX	<0.300	0.300	07/23/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 %	69.8-14	12						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						· · · · · · · · · · · · · · · · · · ·
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	07/24/2018	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	07/24/2018	ND	218	109	200	0.810	
DRO >C10-C28*	<10.0	10.0	07/24/2018	ND	216	108	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	07/24/2018	ND					
Surrogate: 1-Chlorooctane	103	% 41-14.	2						
Surrogate: 1-Chlorooctadecane	94.3	% 37.6-14	12						

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Received:

07/23/2018

Reported:

07/24/2018

Project Name: Project Number: PECOS FEDERAL 1Y 702331.002.01

Project Location:

Analyte

Analyte

Analyte

Analyte

WPX - EDDY CO NM

Sampling Date:

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

07/18/2018

Sample ID: S -4 1' (H802000-21) Chloride, SM4500Cl-B

mg/kg

Analyzed

Reporting Limit

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed By: AC

Method Blank

% Recovery

True Value QC 400

RPD

Chloride

Chloride

Chloride

Chloride

Result 288

Result

208

Result

256

Result

304

07/24/2018 16.0

ND

BS 400

BS

400

BS

400

400

100

0.00

Oualifier

Sample ID: S -4 2' (H802000-22)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyzed

07/24/2018

Analyzed

07/24/2018

07/24/2018

Method Blank

% Recovery

100

True Value QC 400

RPD

Qualifier

Sample ID: S -4 EAST SIDEWALL 2' (H802000-23)

Chloride, SM4500Cl-B

Analyzed By: AC

Method Blank

ND

ND

% Recovery

100

100

True Value QC

400

RPD 0.00

0.00

Qualifier

Sample ID: S -4 WEST SIDEWALL 2' (H802000-24)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyzed

Method Blank

ND

% Recovery BS

True Value QC

RPD 400 0.00 Qualifier

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Celey D. Keene, Lab Director/Quality Manager

Page 11 of 20



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

Received:

07/23/2018

Reported:

07/24/2018

Project Name: Project Number: PECOS FEDERAL 1Y 702331.002.01

Project Location:

WPX - EDDY CO NM

Sampling Date:

07/18/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: S -5 0' (H802000-25)

BTEX 8021B	mg/	kg	Analyzed	I By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2018	ND	1.98	99.1	2.00	0.522	
Toluene*	<0.050	0.050	07/23/2018	ND	1.97	98,3	2.00	1.59	
Ethylbenzene*	<0.050	0.050	07/23/2018	ND	1.96	98.1	2.00	1.39	
Total Xylenes*	<0.150	0.150	07/23/2018	ND	6.15	103	6.00	1.18	
Total BTEX	<0.300	0.300	07/23/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 69.8-14	72						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	07/24/2018	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	07/24/2018	ND	218	109	200	0.810	
DRO >C10-C28*	<10.0	10.0	07/24/2018	ND	216	108	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	07/24/2018	ND					
Surrogate: 1-Chlorooctane	109	% 41-14	2						
Surrogate: 1-Chlorooctadecane	103	% 37.6-1	47						

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

Received:

07/23/2018

Reported:

07/24/2018

Project Name: Project Number: PECOS FEDERAL 1Y 702331.002.01

Sampling Date:

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

07/18/2018

Tamara Oldaker

Project Location:

Analyte

Analyte

WPX - EDDY CO NM

Sample ID: S -5 1' (H802000-26)

Chloride, SM4500Cl-B

mg/kg

Result Reporting Limit

Analyzed

Method Blank

BS

BS

400

% Recovery True Value QC RPD

Qualifier

Chloride

Chloride

Chloride

192

Result

48.0

07/24/2018 16.0

ND

400

100

0.00

Sample ID: S -5 EAST SIDEWALL 1' (H802000-27)

Chloride, SM4500Cl-B

mg/kg

Reporting Limit

16.0

Analyzed By: AC

Analyzed By: AC

Method Blank

% Recovery

100

True Value QC

400

400

RPD

0.00

Qualifier

Sample ID: S -5 WEST SIDEWALL 1' (H802000-28)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Reporting Limit Result Analyte 160 16.0

Analyzed 07/24/2018

Analyzed

07/24/2018

Method Blank ND

ND

BS 400 % Recovery 100

True Value QC 400

RPD 0.00 Qualifier

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Celey D. Keene, Lab Director/Quality Manager



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

Received:

07/23/2018

Reported:

07/24/2018

Project Name:

PECOS FEDERAL 1Y

Project Number: Project Location:

702331.002.01 WPX - EDDY CO NM

Sampling Date:

07/18/2018

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: S-6 0' (H802000-29)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/23/2018	ND	1.98	99.1	2.00	0.522	
Toluene*	<0.050	0.050	07/23/2018	ND	1,97	98.3	2,00	1,59	
Ethylbenzene*	<0.050	0.050	07/23/2018	ND	1.96	98.1	2.00	1.39	
Total Xylenes*	<0.150	0.150	07/23/2018	ND	6.15	103	6.00	1.18	
Total BTEX	<0.300	0.300	07/23/2018	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 69.8-14	/2						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/24/2018	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/24/2018	ND	218	109	200	0.810	
DRO >C10-C28*	<10.0	10.0	07/24/2018	ND	216	108	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	07/24/2018	ND					
Surrogate: 1-Chlorooctane	97.4	% 41-14	2						
Surrogate: 1-Chlorooctadecane	90.7	% 37.6-1	47						

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

Received:

07/23/2018

07/24/2018

Sampling Date:

07/18/2018

Reported:

Sampling Type:

Soil

Project Name:

PECOS FEDERAL 1Y

Sampling Condition:

Cool & Intact

Project Number:

702331.002.01

Project Location:

Analyte

WPX - EDDY CO NM

Sample Received By:

Tamara Oldaker

Sample ID: S -6 1' (H802000-30)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

True Value QC % Recovery

RPD

0.00

Chloride

Result 32.0

Result

112

16.0

Method Blank ND

400

BS

Qualifier

Analyzed 07/24/2018

100

100

Sample ID: S-6 EAST SIDEWALL 1' (H802000-31)

Chloride

Chloride

Reporting Limit

Reporting Limit

16.0

Chloride, SM4500Cl-B

Analyte

mg/kg

Analyzed By: AC

Analyzed

07/24/2018

Method Blank

ND

ND

BS % Recovery

400

True Value QC 400

RPD 0.00

Qualifier

Sample ID: S -6 WEST SIDEWALL 1' (H802000-32)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Reporting Limit Analyte Result 16.0 32.0

Analyzed 07/24/2018

Method Blank

BS 400 % Recovery 100

True Value QC 400

RPD

0,00

Qualifier

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Celeg tistream

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

OM-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

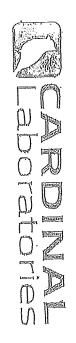
Samples reported on an as received basis (wet) unless otherwise noted on report

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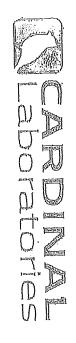
Celego Thema-



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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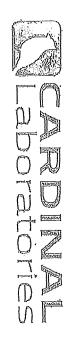
† Cardinal capact accept verbal changes. Flease for written changes to (675) 383-2326



CHARGO CUSTODY AND ANALYSIS REQUEST

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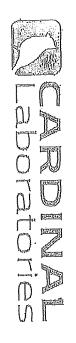
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

104 East Harland, Ecobs, NH 88240 (575) 383-2226 FAX (575) 383-2475 Company Name: Talon/LPE Kelindinisped By: Project Wanager 2 Sampler-UPS - Bes - Other City: Artesia がつってからしょうない Tollect Manner mone st 575-746-8768 Delivered By: (Circle One) HORLAGIBE ONLY Selliek Jejolog radigeon's poelon darass: 408 W. Texas Ave. 1845× といくて りんきょうり 'Q'I sidunes Odkins ED dana 2010 1.84 Fare 575-746-8905 Project Owners るで紹 Timer States NW Zp: 88210 (G)RAB OR (C)OMP. Semple Conditions
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APPENDIX III

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 April 3, 2017

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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Printed Nam	e: James R	aley			4	Approved by	Environmental S	pecialis	t:	***************************************	~~~~					
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E-mail Addr	ess: james.	raley@wpxen	ergy.com			Conditions o	f Approval:			Attached	I 🗆					
Date: 8/30 * Attach Add				75-689-7597												