

PRELIMINARY RESULTS

talonlpe.com • 866.742.0742



Soil Assessment and Remediation Work Plan

Cockburn Fed 2

API # 30-025-36282 * 1RP-4725-0

Prepared For:

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

Prepared By:

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

March 16, 2018

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

Subject: **Soil Assessment and Remediation Work Plan**
Cockburn Fed 2
API # 30-025-36282 * 1RP-4725-0

Dear Mr. Bratcher,

Devon Corporation has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

Site Information

The Cockburn Fed 2 is located approximately thirty-three (33) miles west of Hobbs, New Mexico. The legal location for this release is Unit Letter M, Section 10, Township 18 South and Range 33 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.7565918 North and -103.6573715 West. A site plan is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Kermit-Palomas fine sands with 0 to 12 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Calcareous in age and is comprised of sandy eolian deposits derived from sedimentary rock. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

The New Mexico State Engineer web site indicates the nearest ground water is 70' below ground surface (BGS). See [Appendix III](#) for the referenced groundwater data.

Therefore the ranking for this site is a **10** based on the following:

Depth to ground water	50-99'
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 600 mg/kg for total chlorides.

Incident Description and Initial Remedial Actions

On May 31, 2017 a fiberglass produced water tank at the Cockburn Fed 2 was struck by lightning resulting in a release of 140 barrels of fluid, all fluids were contained within the earthen berm on the location. A vac truck was called to the location and recovered 100 barrels of fluid. The battery was immediately shut-in. A site plan is presented in [Appendix I](#) which illustrates the impacted area. See initial C-141 in [Appendix II](#).

On December 22, 2017, Talon mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. Grab soil samples were collected from around the tank battery and in the pasture behind the battery utilizing a hand auger to a depth of 4-foot deep.

See [Appendix IV](#) for complete report of laboratory results.

Sample ID	Depth (feet)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH EXT (mg/kg)	BTEX (mg/kg)	Chlorides (mg/kg)
BG	0'	<10.0	<10.0	<10.0	<0.300	16
	1'	-	-	-	-	32
	2'	-	-	-	-	<16.0
	3'	-	-	-	-	<16.0
	4'	-	-	-	-	<16.0
S-1	0'	<10.0	887	435	<0.300	<16.0
	1'	-	-	-	<0.300	<16.0
	2'	<10.0	125	49.2	-	<16.0
	3'	<10.0	43.9	16.2	-	32
	4'	<10.0	139	34.1	-	80
S-2	0'	<10.0	15	30.6	<0.300	16
	1'	-	-	-	<0.300	<16.0
	2'	<10.0	<10.0	<10.0	-	<16.0
	3'	<10.0	<10.0	<10.0	-	<16.0
	4'	<10.0	<10.0	<10.0	-	<16.0
S-3	0'	-	<10.0	<10.0	<0.300	<16.0
	1'	-	-	-	-	<16.0
	2'	-	-	-	-	32
	3'	-	-	-	-	<16.0
	4'	-	-	-	-	32
S-4	0'	<10.0	<10.0	<10.0	<0.300	22000
	1'	-	-	-	-	144
	2'	-	-	-	-	48
	3'	-	-	-	-	48
	4'	-	-	-	-	64

Sample ID	Depth (feet)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH EXT (mg/kg)	BTEX (mg/kg)	Chlorides (mg/kg)
S-5	0'	<10.0	<10.0	<10.0	<0.300	6200
	1'	-	-	-	-	<16.0
	2'	-	-	-	-	32
	3'	-	-	-	-	48
	4'	-	-	-	-	32
S-6	0'	<10.0	<10.0	<10.0	<0.300	80
	1'	-	-	-	-	<16.0
	2'	-	-	-	-	32
	3'	-	-	-	-	<16.0
	4'	-	-	-	-	64

--Analyte Not Tested

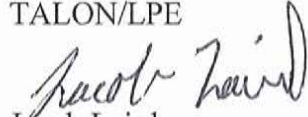
Proposed Remedial Actions:

- The impacted soil in the vicinity of sample locations S-4 and S-5 be excavated to a depth of 1.0-feet deep.
- All contaminated soil will be transported to Lea Land, LLC, a NMOCD approved disposal facility.
- The excavated area will be backfilled with new caliche. Once the backfilling activities are complete the work area will be contoured to match the surrounding location.
- A final closure report documenting all remedial actions will be provided to the NMOCD Artesia Office along with a Final C-141 Form.


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



Jacob Laird
Environmental Scientist



Kimberly M. Wilson
Project Manager

Attachments:

Appendix I Site Plan
Appendix II Initial C-141
Appendix III Groundwater Data
Appendix IV Laboratory Results

APPENDIX I

SITE PLAN

Cockburn Fed 2

Lea County

Legend

- Proposed Excavation
- Sample Locations



BG

S-4

S-5

S-3

S-2

S-6

S-1

Google Earth

© 2018 Google

100 ft



APPENDIX II

INITIAL 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
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Devon Energy Production Company	Contact	Danny Velo, Production Foreman
Address	6488 Seven Rivers Hwy Artesia, NM 88210	Telephone No.	575-703-3360
Facility Name	Cockburn Fed 2	Facility Type	Oil

Surface Owner	Private	Mineral Owner	Federal	API No	30-025-36282
---------------	---------	---------------	---------	--------	--------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	10	18S	33E	660'	FSL	660'	FWL	Lea

Latitude: 32.7565918

Longitude: -103.6573715

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 140bbls	Volume Recovered 0bbls
Source of Release Produced Water Tank	Date and Hour of Occurrence May 31, 2017 @ 7:05 PM	Date and Hour of Discovery May 31, 2017 @ 7:05 PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Shelly Tucker, BLM Olivia Yu, OCD	
By Whom? Ky Scott, Asst. Production Foreman	Date and Hour Shelly Tucker, BLM May 31, 2017 @ 9:07 PM Olivia Yu, OCD May 31, 2017 @ 9:05 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse N/A	

RECEIVED

By Olivia Yu at 10:02 am, Jun 15, 2017

If a Watercourse was Impacted, Describe Fully.*
N/A


Describe Cause of Problem and Remedial Action Taken.*

Lightning struck a 500bbl fiberglass produced water tank causing it to catch on fire and structurally compromising the tank. The wells were immediately shut in. Emergency services were contacted and the fire department was dispatched to the location and extinguished the fire.

Describe Area Affected and Cleanup Action Taken.*

Approximately 140bbls produced water was in the tank when the lightning strike occurred. A vacuum truck recovered approximately 100bbls of produced water. All fluids stayed inside the earthen berm containment and on location. An environmental contractor will be contacted to assist with the delineation and remediation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Sheila Fisher</i>	OIL CONSERVATION DIVISION	
Printed Name: Sheila Fisher	Approved by Environmental Specialist: 	
Title: Field Admin Support	Approval Date: 6/15/2017	Expiration Date:
E-mail Address: Sheila.fisher@dmv.com	Conditions of Approval: see attached directive	Attached <input checked="" type="checkbox"/>
Date: 6/1/17 Phone: 575.748.1829		

* Attach Additional Sheets If Necessary

1RP-4725

nOY1716637417

pOY1716638035

APPENDIX III
GROUNDWATER DATA



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,

C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 6	Q 4	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP 00546 POD1		CP	LE	2	2	4	09	18S	33E		625464	3625597*	591	90	70	20
CP 00072 POD3		CP	LE	2	4	4	10	18S	33E		627076	3625223*	1313	70		
CP 01417 POD1		CP	LE				11	18S	33E		627036	3625738	1422	120	54	66
CP 00072 POD4		CP	LE	1	4	2	10	18S	33E		626865	3626028*	1442	70		
CP 00701		CP	LE		1	3	11	18S	33E		627373	3625534*	1663	100		
CP 00701 POD2		CP	LE	4	1	3	11	18S	33E		627472	3625433*	1736	100		

Average Depth to Water: 62 feet

Minimum Depth: 54 feet

Maximum Depth: 70 feet

Record Count: 6

UTM NAD83 Radius Search (In meters):

Easting (X): 625769.33

Northing (Y): 3625090.43

Radius: 2000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

1/17/18 9:05 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

APPENDIX IV

LABORATORY RESULTS



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

December 29, 2017

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: COCKBURN G FED #2

Enclosed are the results of analyses for samples received by the laboratory on 12/22/17 15:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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 accredited 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.

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:

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

 Received: 12/22/2017
 Reported: 12/29/2017
 Project Name: COCKBURN G FED #2
 Project Number: 700794.244.01
 Project Location: DEVON -LEA CO NM

 Sampling Date: 12/05/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BG - 1' (H703592-01)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	32.0	16.0	12/28/2017	ND	400	100	400	14.8			

Sample ID: BG - 2' (H703592-02)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	<16.0	16.0	12/28/2017	ND	400	100	400	14.8			

Sample ID: BG - 3' (H703592-03)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	<16.0	16.0	12/28/2017	ND	400	100	400	11.3			

Sample ID: BG - 4' (H703592-04)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	<16.0	16.0	12/28/2017	ND	400	100	400	11.3			

Cardinal Laboratories

*=Accredited Analyte

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. All claims, including those for negligence and 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.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 12/22/2017
 Reported: 12/29/2017
 Project Name: COCKBURN G FED #2
 Project Number: 700794.244.01
 Project Location: DEVON -LEA CO NM

 Sampling Date: 12/05/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S-1 1' (H703592-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/28/2017	ND	400	100	400	11.3	

Sample ID: S-1 2' (H703592-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/28/2017	ND	400	100	400	11.3	

Sample ID: S-1 3' (H703592-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/28/2017	ND	400	100	400	11.3	

Sample ID: S-1 4' (H703592-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/28/2017	ND	400	100	400	11.3	

Sample ID: S-2 1' (H703592-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/28/2017	ND	400	100	400	11.3	

Cardinal Laboratories

*=Accredited Analyte

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. All claims, including those for negligence and 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.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 12/22/2017
 Reported: 12/29/2017
 Project Name: COCKBURN G FED #2
 Project Number: 700794.244.01
 Project Location: DEVON -LEA CO NM

 Sampling Date: 12/05/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S-2 2' (H703592-10)

Chloride, SM4500Cl-B			mg/kg Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/28/2017	ND	400	100	400	11.3	

Sample ID: S-2 3' (H703592-11)

Chloride, SM4500Cl-B			mg/kg Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/28/2017	ND	400	100	400	11.3	

Sample ID: S-2 4' (H703592-12)

Chloride, SM4500Cl-B			mg/kg Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/28/2017	ND	400	100	400	11.3	

Sample ID: S-3 1' (H703592-13)

Chloride, SM4500Cl-B			mg/kg Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/28/2017	ND	400	100	400	11.3	

Sample ID: S-3 2' (H703592-14)

Chloride, SM4500Cl-B			mg/kg Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/28/2017	ND	400	100	400	11.3	

Cardinal Laboratories

*=Accredited Analyte

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. All claims, including those for negligence and 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.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 12/22/2017
 Reported: 12/29/2017
 Project Name: COCKBURN G FED #2
 Project Number: 700794.244.01
 Project Location: DEVON -LEA CO NM

 Sampling Date: 12/05/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S-3 3' (H703592-15)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/28/2017	ND	400	100	400	11.3		

Sample ID: S-3 4' (H703592-16)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/28/2017	ND	400	100	400	11.3		

Sample ID: S-4 1' (H703592-17)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	12/28/2017	ND	400	100	400	11.3		

Sample ID: S-4 2' (H703592-18)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	48.0	16.0	12/28/2017	ND	400	100	400	11.3			

Sample ID: S-4 3' (H703592-19)

Chloride, SM4500Cl-B			mg/kg								Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier			
Chloride	48.0	16.0	12/28/2017	ND	400	100	400	11.3				

Cardinal Laboratories

*—Accredited Analyte

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. All claims, including those for negligence and 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.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 12/22/2017
 Reported: 12/29/2017
 Project Name: COCKBURN G FED #2
 Project Number: 700794.244.01
 Project Location: DEVON -LEA CO NM

 Sampling Date: 12/05/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S-4 4' (H703592-20)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/28/2017	ND	400	100	400	11.3	

Sample ID: S-5 1' (H703592-21)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/28/2017	ND	400	100	400	11.3	

Sample ID: S-5 2' (H703592-22)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/28/2017	ND	400	100	400	11.3	

Sample ID: S-5 3' (H703592-23)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/28/2017	ND	400	100	400	11.3	

Sample ID: S-5 4' (H703592-24)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/28/2017	ND	400	100	400	11.3	

Cardinal Laboratories

*=Accredited Analyte

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. All claims, including those for negligence and 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.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 12/22/2017
 Reported: 12/29/2017
 Project Name: COCKBURN G FED #2
 Project Number: 700794.244.01
 Project Location: DEVON -LEA CO NM

 Sampling Date: 12/05/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S-6 1' (H703592-25)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/28/2017	ND	400	100	400	11.3		

Sample ID: S-6 2' (H703592-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/28/2017	ND	400	100	400	11.3	

Sample ID: S-6 3' (H703592-27)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/28/2017	ND	400	100	400	11.3		

Sample ID: S-6 4' (H703592-28)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/28/2017	ND	400	100	400	11.3		

Cardinal Laboratories

*=Accredited Analyte

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. All claims, including those for negligence and 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.



Celey D. Keene, Lab Director/Quality Manager

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

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. All claims, including those for negligence and 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.



Celey D. Keene, Lab Director/Quality Manager

[illegible]Page 9 of 11



2 of 3
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Teton LPL

Project Manager: D. Atkins

Address: 1108 West Texas Ave

City: Artesia

Phone #: 575-746-8768

Project #: 700494.244.01

Project Name: Cockburn Fed #3

Project Location: Kern County

Sampler Name: J. hand

FOR LAB USE ONLY

P.O. #:

Company: Teton LPL

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

PRESERV

SAMPLING

DATE

TIME

Chlorides

17-5-17

0919

0923

0925

0931

0934

0937

0940

Lab I.D.

Sample I.D.

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

Chlorides

17-5-17

0919

0923

0925

0931

0934

0937

0940

PLEASE NOTE: Liability and Damages. Cardinal's liability and direct'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 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 caused by delay, its subsidiaries, affiliates or subcontractors resulting out of or related to the performance of services hereunder by Cardinal. Remedies of whether such claim is based upon any of the above stated remedies or otherwise.

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Relinquished By:

Date:

Time:



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

January 16, 2018

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: COCKBURN G FED #2

Enclosed are the results of analyses for samples received by the laboratory on 01/10/18 15:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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 accredited 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.

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:

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

Received: 01/10/2018
Reported: 01/16/2018
Project Name: COCKBURN G FED #2
Project Number: 700794.244.01
Project Location: DEVON -LEA CO NM

Sampling Date: 01/10/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S-1 1' (H800121-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2018	ND	1.97	98.4	2.00	0.724	
Toluene*	<0.050	0.050	01/12/2018	ND	1.97	98.4	2.00	0.259	
Ethylbenzene*	<0.050	0.050	01/12/2018	ND	1.98	98.9	2.00	0.326	
Total Xylenes*	<0.150	0.150	01/12/2018	ND	6.13	102	6.00	0.0518	
Total BTEX	<0.300	0.300	01/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 72-148

Sample ID: S-1 2' (H800121-02)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2018	ND	198	98.9	200	2.77	
DRO >C10-C28*	125	10.0	01/12/2018	ND	195	97.5	200	2.80	
EXT DRO >C28-C36	49.2	10.0	01/12/2018	ND					

Surrogate: 1-Chlorooctane 83.0 % 41-142

Surrogate: 1-Chlorooctadecane 86.6 % 37.6-147

Cardinal Laboratories

*==Accredited Analyte

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. All claims, including those for negligence and 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.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 01/10/2018
Reported: 01/16/2018
Project Name: COCKBURN G FED #2
Project Number: 700794.244.01
Project Location: DEVON -LEA CO NM

Sampling Date: 01/10/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S-1 3' (H800121-03)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2018	ND	198	98.9	200	2.77	
DRO >C10-C28*	43.9	10.0	01/12/2018	ND	195	97.5	200	2.80	
EXT DRO >C28-C36	16.2	10.0	01/12/2018	ND					
<hr/>									
Surrogate: 1-Chlorooctane	94.0 %	41-142							
Surrogate: 1-Chlorooctadecane	96.2 %	37.6-147							

Sample ID: S-1 4' (H800121-04)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2018	ND	198	98.9	200	2.77	
DRO >C10-C28*	139	10.0	01/12/2018	ND	195	97.5	200	2.80	
EXT DRO >C28-C36	34.1	10.0	01/12/2018	ND					
<hr/>									
Surrogate: 1-Chlorooctane	91.7 %	41-142							
Surrogate: 1-Chlorooctadecane	98.0 %	37.6-147							

Cardinal Laboratories

*=Accredited Analyte

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. All claims, including those for negligence and 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.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 01/10/2018
Reported: 01/16/2018
Project Name: COCKBURN G FED #2
Project Number: 700794.244.01
Project Location: DEVON -LEA CO NM

Sampling Date: 01/10/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S-2 1' (H800121-05)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/12/2018	ND	1.97	98.4	2.00	0.724	
Toluene*	<0.050	0.050	01/12/2018	ND	1.97	98.4	2.00	0.259	
Ethylbenzene*	<0.050	0.050	01/12/2018	ND	1.98	98.9	2.00	0.326	
Total Xylenes*	<0.150	0.150	01/12/2018	ND	6.13	102	6.00	0.0518	
Total BTX	<0.300	0.300	01/12/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 72-148

Sample ID: S-2 2' (H800121-06)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2018	ND	198	98.9	200	2.77	
DRO >C10-C28*	<10.0	10.0	01/12/2018	ND	195	97.5	200	2.80	
EXT DRO >C28-C36	<10.0	10.0	01/12/2018	ND					

Surrogate: 1-Chlorooctane 84.9 % 41-142

Surrogate: 1-Chlorooctadecane 84.8 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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. All claims, including those for negligence and 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.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 01/10/2018
 Reported: 01/16/2018
 Project Name: COCKBURN G FED #2
 Project Number: 700794.244.01
 Project Location: DEVON -LEA CO NM

 Sampling Date: 01/10/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S-2 3' (H800121-07)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2018	ND	198	98.9	200	2.77	
DRO >C10-C28*	<10.0	10.0	01/12/2018	ND	195	97.5	200	2.80	
EXT DRO >C28-C36	<10.0	10.0	01/12/2018	ND					
<hr/>									
Surrogate: 1-Chlorooctane	106 %	41-142							
Surrogate: 1-Chlorooctadecane	107 %	37.6-147							

Sample ID: S-2 4' (H800121-08)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2018	ND	198	98.9	200	2.77	
DRO >C10-C28*	<10.0	10.0	01/12/2018	ND	195	97.5	200	2.80	
EXT DRO >C28-C36	<10.0	10.0	01/12/2018	ND					
<hr/>									
Surrogate: 1-Chlorooctane	102 %	41-142							
Surrogate: 1-Chlorooctadecane	104 %	37.6-147							

Cardinal Laboratories

*=Accredited Analyte

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. All claims, including those for negligence and 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.



Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of 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

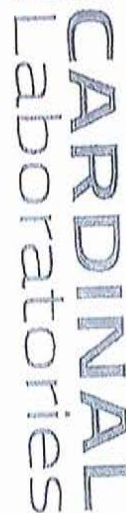
Cardinal Laboratories

*=Accredited Analyte

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. All claims, including those for negligence and 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.



Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/PE

Project Manager:

Address: 408 W. Texas Ave.

City: Artesia

Phone #: 575-746-8768

Project #: 400441244.01

Project Name: Cockburn G Field

Project Location: Lea County

Sampler Name: J. Ward

FOR LAB USE ONLY

P.O. #:

Company: Talon/PE

State: NM **Zip:** 88210

Attn:

Address:

City:

State:

Phone #:

Fax #:

Lab ID: H800121

Sample ID:

Lab ID	Sample ID	DATE	TIME
1	5-1	5/10/18	1
2	5-1		2
3	5-1		3
4	5-1		4
5	5-2		5
6	5-2		6
7	5-2		7
8	5-2		8

Relinquished By: [Signature]

Received By: [Signature]

Date: 5/10/18

Time: 1:50

Delivered By: (Circle One) **2.32**

Sampler - UPS - Bus - Other: **2.32**

Sample Condition: Cool ☒ Intact ☒ Yes ☐ No ☐ No

CHECKED BY: [Signature]

REMARKS:

TRM EXT
BTEY

ANALYSIS REQUEST