



December 18, 2015

Ms. Heather Patterson
NMOCD District 2

811 S. 1st Street
Artesia, NM 88210

AMARILLO
921 North Bivins
Amarillo, Texas 79107
Phone 806.467.0607
Fax 806.467.0622

ARTESIA
408 West Texas Ave.
Artesia, New Mexico 88210
Phone 575.746.8768
Fax 575.746.8905

HOBBS
318 East Taylor Street
Hobbs, New Mexico 88240
Phone 575.393.4261
Fax 575.393.4658

MIDLAND
2901 State Hwy 349
Midland, Texas 79706
Phone 432.522.2133
Fax 432.522.2180

OKLAHOMA CITY
7700 North Hudson Avenue
Suite 10
Oklahoma City, Oklahoma 73116
Phone 405.486.7030
Fax 806.467.0622

SAN ANTONIO
11 Commercial Place
Schertz, Texas 78154
Phone 210.265.8025
Fax 210.568.2191

Subject: **Remedial Activities and Closure Report**
Cimarex Energy
Vermejo SWD #1
API # 30-015-40644 (2RP-2501)

Dear Ms. Patterson

Cimarex Energy (Cimarex) 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

August 17, 2014

Background Information

The Vermejo Water Transfer Station No. 1 is located approximately sixteen (16) miles southeast of Artesia, New Mexico. The legal location for the Vermejo Water Transfer Station is Section 5, Township 17 South and Range 29 East in Eddy County, New Mexico. More Specifically the latitude and longitude for the location are 32.86364 North and -104.099189 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 the Kimbrough-Stegall loams with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is made up of Holocene to Pleistocene alluvium. Drainage courses in this area are normally dry. According to the 2006 Chevron Texaco Groundwater Trend Map, groundwater in the project vicinity is between 50 and 100 feet below ground surface (bgs). See [Appendix II](#) for the referenced groundwater data.

The ranking for this site is **10** based on the as following:

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

ENVIRONMENTAL CONSULTING
ENGINEERING
DRILLING
CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING

Incident Description

On August 17, 2014 lightning struck the Vermejo SWD Water Transfer Station which is located on what was once the Spiketail SWD #1 (30-015-38599) a P&A location. The facility burnt to the ground releasing approximately 1100 barrels of produced water and 250 barrels of oil. Most of the hydrocarbons were flashed off. No fluid was recovered. What fluid remained flowed south off location and into the pasture. See site plan in [Appendix I](#).

On September 3, 2014 Talon/LPE mobilized personnel to begin site assessment and soil sampling activities for the generation of a work plan. Grab soil samples were collected utilizing a hand auger. Refusal was encountered with the hand auger at a depth of 2-feet bgs.

On June 18, 2015 a backhoe was mobilized to further vertically delineate the impacted area for chlorides and TPH. The analytical results from the soil sampling events are summarized in the tables below.

Laboratory Results

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

September 9, 2014

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0	ND	1920	ND	2640
S-1	0.5	ND	1330	ND	881
S-2	0	5.9	7760	264	5700
S-2	1	ND	320	ND	163
S-2	2	0.605	1120	ND	954
S-3	0	10.4	13000	598	35500
S-3	1	ND	800	ND	609
S-3	2	0.408	544	10.7	592
S-4	0	241	6200	2720	11600
S-4	1	18.2	12400	266	2690
S-5	0	308	64800	ND	8490
S-5	1	ND	10600	ND	24.9
S-6	0	8.24	10600	588	28800
S-6	1	ND	864	ND	695
S-6	2	ND	784	ND	1480

June 25, 2015

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	3	--	1090	--	--
S-1	4	--	176	--	--
S-1	5	--	80	--	--
S-2	2.5	--	64	--	--
S-4	3	--	2720	ND	ND
S-4	4	--	2400	ND	ND
S-4	5	--	1020	ND	ND
S-4	6	--	620	--	--
S-5	5	--	1380	--	--
S-5	6	--	1460	--	--
S-5	7	--	2800	--	--
S-5	8	--	432	--	--
S-6	2.5	--	7840	ND	ND
S-6	3	--	6960	ND	ND
S-6	4	--	4240	ND	56
S-6	5	--	3440	--	--
S-6	6	--	1330	--	--
S-6	8	--	1140	--	--
S-6	9	--	736	--	--
S-6	10	--	320	--	--

(--) Analyte Not Tested

(ND) Analyte Not Detected

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 Chloride.

Remedial Actions Taken

- Pursuant to the approved work plan, the impacted area in the vicinity of sample location S-1 was excavated to a depth of 4-feet bgs.
- The impacted area in the vicinity of sample location S-2 was excavated to a depth of 2.5-feet bgs.
- The impacted area in the vicinity of sample location S-3 was excavated to a depth of 1-foot bgs.
- The impacted area in the vicinity of sample locations S-4 and S-6 were excavated to a depth of 5-feet bgs, per NMOCD stipulations.
- The impacted area in the vicinity of sample location S-5 was excavated to a depth of 4-feet bgs, a 20-mil reinforced liner was installed in the bottom of the excavation to encapsulate the remaining chloride impacts.
- All of the excavated material was hauled to an NMOCD approved solid waste disposal facility.
- The excavation was backfilled with top soil and the location was reclaimed per NMOCD guidelines.

Closure

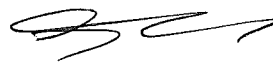
On behalf of Cimarex Energy we respectfully request that no further actions be required and that closure with regard to this release be granted.

If we can provide additional information or be of further assistance, please contact our office at (575)-746-8768.

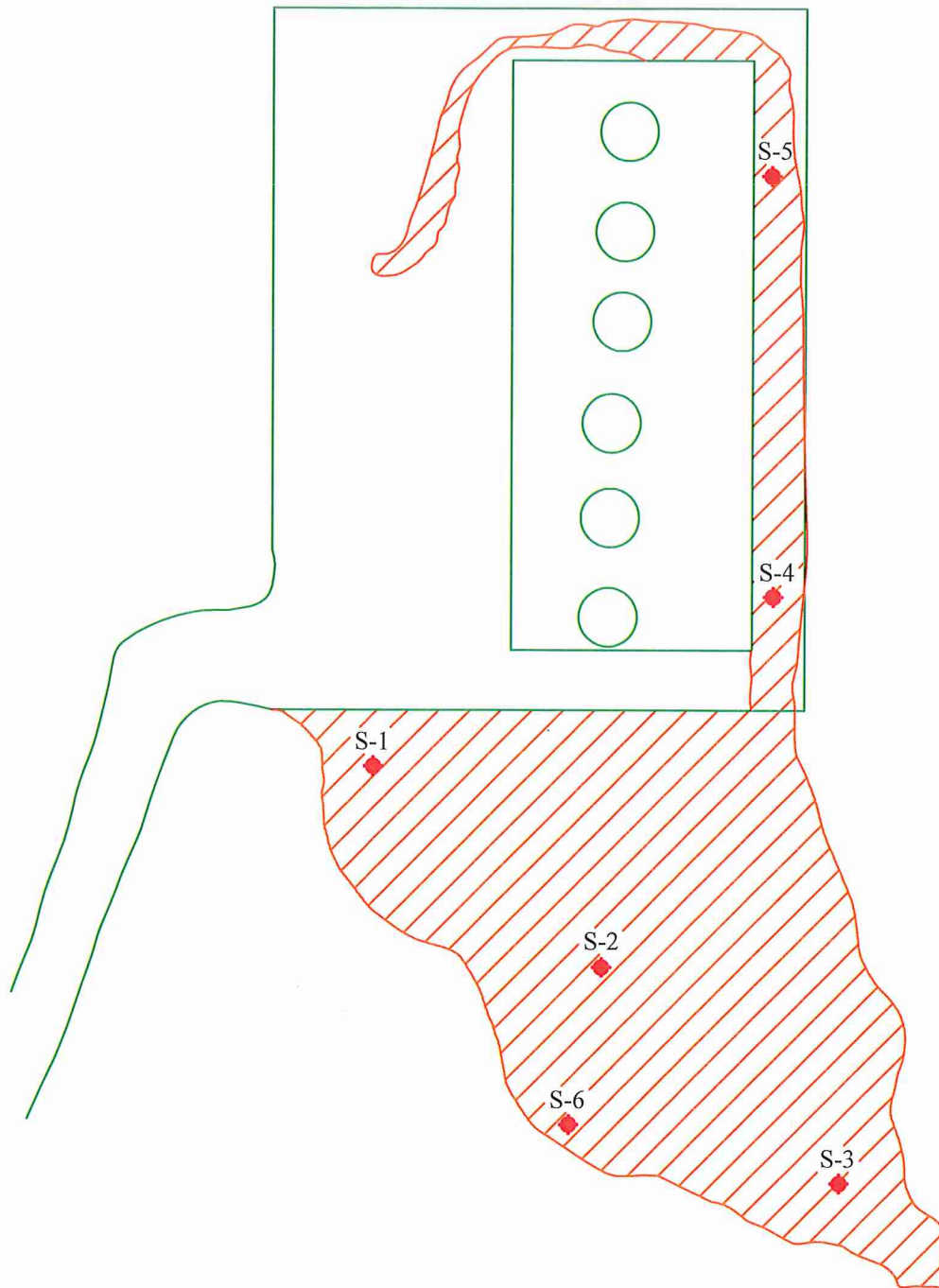
Respectfully submitted,

TALON/LPE

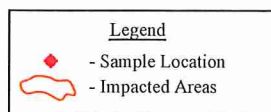

Sheldon Hitchcock
Project Manager


David J. Adkins
District Manager

SITE PLAN



NTS
Scale in Feet



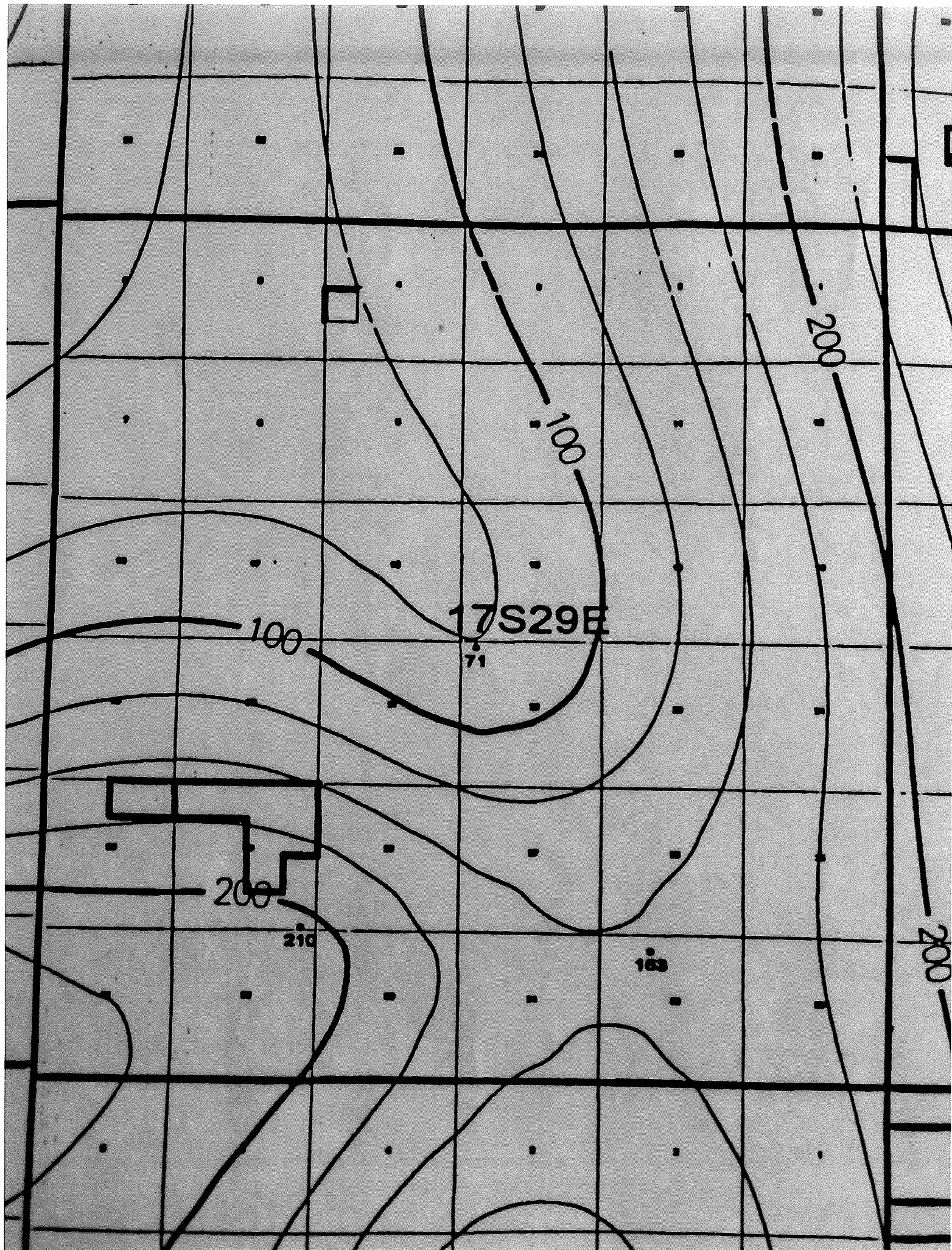
Date: 10/01/2014

Scale: NTS

Drawn By: TJS

Vermejo Water Transfer Station
Cimarex Energy
Eddy County, New Mexico
Figure 1 - Site Plan

GROUNDWATER DATA



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

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141

Revised August 8, 2011

SEP 18 2014

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

RECEIVED

Release Notification and Corrective Action

NAB14210251119

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Cimarex Energy	Contact	Christine Alderman
Address	600 N Marienfeld Ste 600 Midland TX	Telephone No.	432-853-7059
Facility Name	Vermejo SWD #1	Facility Type	Production

Surface Owner	Mineral Owner	API No.	30-015-40644
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	15	17S	28E		900		2530	Eddy

Latitude 32.654322 Longitude -104.059509

NATURE OF RELEASE

Type of Release — produced water and oil	Volume of Release	1100 bbls of PW and 250 bbls crude oil	Volume Recovered	0	
Source of Release	tank battery	Date and Hour of Occurrence	8/17/14	Date and Hour of Discovery	8/17/14
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher		
By Whom?	Christine Alderman	Date and Hour	8/17/14		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Lightning struck tank battery and completely burned. Much of the loss of fluids was burned off

Describe Area Affected and Cleanup Action Taken.*

Contacted local Environmental consulting agency to begin cleanup process.

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>Christine Alderman</i>	OIL CONSERVATION DIVISION	
Printed Name: Christine Alderman	Approved by Environmental Specialist: <i>H. P.</i>	
Title: ESH Supervisor	Approval Date: <i>9/18/14</i>	Expiration Date: <i>NA</i>
E-mail Address: calderman@cimarex.com	Conditions of Approval: Remediation per OCD Rule & Guidelines.	Attached <input type="checkbox"/>
Date: 8/15/14 Phone: 432-853-7059		

* Attach Additional Sheets If Necessary

SUBMIT REMEDIATION PROPOSAL NO
LATER THAN: *10/11/14*

22P-2501

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: Cimarex Energy	Contact: Christine Alderman	
Address: 600 N Marienfeld Ste 600 Midland, TX	Telephone No. 432-853-7059	
Facility Name: Vermejo SWD #1	Facility Type: Production	
Surface Owner: State	Mineral Owner: State	API No. 30-015-40644

LOCATION OF RELEASE

Unit Letter K	Section 5	Township 17S	Range 29E	Feet from the 2610	North/South Line FSL	Feet from the 1980	East/West Line FWL	County Eddy
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Latitude 32.8636513 Longitude -104.0992203

NATURE OF RELEASE

Type of Release: Mixed Fluids	Volume of Release: 1100bbls of PW 250bbls of oil	Volume Recovered: 0
Source of Release: Tank Battery (lightning strike)	Date and Hour of Occurrence: 8/17/14	Date and Hour of Discovery: 8/17/14
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher-NMOCD	
By Whom? Christine Alderman-Cimarex	Date and Hour: 8/17/14	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Lightning struck the tank battery at the Vermejo Water Transfer Station resulting in the release of 1350bbls of mixed fluids. The fluid ran southward from the release point across the location and into the pasture. Talon mobilized personnel to conduct a site assessment and perform soil sampling in preparation for drafting a work plan.

Describe Area Affected and Cleanup Action Taken.*

The affected area was comprised of the east side of the location and the pasture to the south of the location. Upon receipt of analytical data from the soil sampling events Talon generated a work plan that was subsequently approved by NMOCD. The remediation was conducted in accordance to the approved work plan and stipulations issued by NMOCD. After the remediation was complete the location was reclaimed and contoured to match the surrounding terrain.

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.

OIL CONSERVATION DIVISION

Signature: <i>Christine Alderman</i>	Approved by Environmental Specialist:		
Printed Name: Christine Alderman			
Title: EHS Supervisor	Approval Date:	Expiration Date:	
E-mail Address: calderman@cimarex.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 12/18/2015	Phone: 432-853-7059		

* Attach Additional Sheets If Necessary

LABORATORY RESULTS

September 09, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: VERMEJO TRANSFER STATION

Enclosed are the results of analyses for samples received by the laboratory on 09/04/14 10:21.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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: 09/04/2014
Reported: 09/09/2014
Project Name: VERMEJO TRANSFER STATION
Project Number: 70116206501
Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 09/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-1 0' (H402734-01)

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	09/08/2014	ND	1.70	85.1	2.00	4.89	
Toluene*	<0.050	0.050	09/08/2014	ND	1.56	78.1	2.00	5.39	
Ethylbenzene*	0.050	0.050	09/08/2014	ND	1.47	73.5	2.00	5.20	
Total Xylenes*	<0.150	0.150	09/08/2014	ND	4.50	75.0	6.00	6.07	
Total BTEX	<0.300	0.300	09/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	09/09/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	09/05/2014	ND	167	83.6	200	2.35	
DRO >C10-C28	2640	100	09/05/2014	ND	191	95.3	200	1.32	

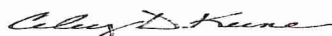
Surrogate: 1-Chlorooctane 72.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 137 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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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: 09/04/2014
Reported: 09/09/2014
Project Name: VERMEJO TRANSFER STATION
Project Number: 70116206501
Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 09/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-1 .5' (H402734-02)

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	09/08/2014	ND	1.70	85.1	2.00	4.89	
Toluene*	<0.050	0.050	09/08/2014	ND	1.56	78.1	2.00	5.39	
Ethylbenzene*	<0.050	0.050	09/08/2014	ND	1.47	73.5	2.00	5.20	
Total Xylenes*	<0.150	0.150	09/08/2014	ND	4.50	75.0	6.00	6.07	
Total BTX	<0.300	0.300	09/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	09/09/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/05/2014	ND	167	83.6	200	2.35	
DRO >C10-C28	881	50.0	09/05/2014	ND	191	95.3	200	1.32	

Surrogate: 1-Chlorooctane 65.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.9 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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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: 09/04/2014
Reported: 09/09/2014
Project Name: VERMEJO TRANSFER STATION
Project Number: 70116206501
Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 09/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-2 0' (H402734-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	09/08/2014	ND	1.70	85.1	2.00	4.89	
Toluene*	0.546	0.200	09/08/2014	ND	1.56	78.1	2.00	5.39	
Ethylbenzene*	1.75	0.200	09/08/2014	ND	1.47	73.5	2.00	5.20	
Total Xylenes*	3.61	0.600	09/08/2014	ND	4.50	75.0	6.00	6.07	
Total BTEX	5.90	1.20	09/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 122 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7760	16.0	09/09/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	264	200	09/05/2014	ND	167	83.6	200	2.35		
DRO >C10-C28	5700	200	09/05/2014	ND	191	95.3	200	1.32		

Surrogate: 1-Chlorooctane 97.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 215 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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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: 09/04/2014
 Reported: 09/09/2014
 Project Name: VERMEJO TRANSFER STATION
 Project Number: 70116206501
 Project Location: CIMAREX - EDDY COUNTY, NM

 Sampling Date: 09/03/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-2 1' (H402734-04)

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	09/08/2014	ND	1.70	85.1	2.00	4.89	
Toluene*	<0.050	0.050	09/08/2014	ND	1.56	78.1	2.00	5.39	
Ethylbenzene*	<0.050	0.050	09/08/2014	ND	1.47	73.5	2.00	5.20	
Total Xylenes*	<0.150	0.150	09/08/2014	ND	4.50	75.0	6.00	6.07	
Total BTEX	<0.300	0.300	09/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	09/09/2014	ND	400	100	400	0.00	

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	09/05/2014	ND	167	83.6	200	2.35	
DRO >C10-C28	163	10.0	09/05/2014	ND	191	95.3	200	1.32	

Surrogate: 1-Chlorooctane 73.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 73.2 % 63.6-154

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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: 09/04/2014
 Reported: 09/09/2014
 Project Name: VERMEJO TRANSFER STATION
 Project Number: 70116206501
 Project Location: CIMAREX - EDDY COUNTY, NM

 Sampling Date: 09/03/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-2 2' (H402734-05)

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	09/08/2014	ND	1.70	85.1	2.00	4.89	
Toluene*	0.069	0.050	09/08/2014	ND	1.56	78.1	2.00	5.39	
Ethylbenzene*	0.170	0.050	09/08/2014	ND	1.47	73.5	2.00	5.20	
Total Xylenes*	0.366	0.150	09/08/2014	ND	4.50	75.0	6.00	6.07	
Total BTX	0.605	0.300	09/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	09/09/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/05/2014	ND	167	83.6	200	2.35	
DRO >C10-C28	954	50.0	09/05/2014	ND	191	95.3	200	1.32	

Surrogate: 1-Chlorooctane 61.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 79.2 % 63.6-154

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Analytical Results For:

TALON LPE
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Fax To: (575) 745-8905

Received: 09/04/2014
Reported: 09/09/2014
Project Name: VERMEJO TRANSFER STATION
Project Number: 70116206501
Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 09/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-3 0' (H402734-06)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	09/08/2014	ND	1.70	85.1	2.00	4.89	
Toluene*	1.42	0.500	09/08/2014	ND	1.56	78.1	2.00	5.39	
Ethylbenzene*	3.10	0.500	09/08/2014	ND	1.47	73.5	2.00	5.20	
Total Xylenes*	5.90	1.50	09/08/2014	ND	4.50	75.0	6.00	6.07	
Total BTEX	10.4	3.00	09/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13000	16.0	09/09/2014	ND	400	100	400	0.00	
TPH 8015M		mg/kg		Analyzed By: ms					
S-06									

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	598	500	09/05/2014	ND	167	83.6	200	2.35	
DRO >C10-C28	35500	500	09/05/2014	ND	191	95.3	200	1.32	

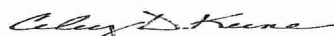
Surrogate: 1-Chlorooctane 116 % 65.2-140

Surrogate: 1-Chlorooctadecane 1480 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 09/04/2014
Reported: 09/09/2014
Project Name: VERMEJO TRANSFER STATION
Project Number: 70116206501
Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 09/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-3 1' (H402734-07)

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	09/08/2014	ND	1.70	85.1	2.00	4.89		
Toluene*	<0.050	0.050	09/08/2014	ND	1.56	78.1	2.00	5.39		
Ethylbenzene*	<0.050	0.050	09/08/2014	ND	1.47	73.5	2.00	5.20		
Total Xylenes*	<0.150	0.150	09/08/2014	ND	4.50	75.0	6.00	6.07		
Total BTEx	<0.300	0.300	09/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	09/09/2014	ND	400	100	400	0.00		

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	09/05/2014	ND	167	83.6	200	2.35	
DRO >C10-C28	609	10.0	09/05/2014	ND	191	95.3	200	1.32	

Surrogate: 1-Chlorooctane 65.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 81.0 % 63.6-154

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Analytical Results For:

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Fax To: (575) 745-8905

Received: 09/04/2014
Reported: 09/09/2014
Project Name: VERMEJO TRANSFER STATION
Project Number: 70116206501
Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 09/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-3 2' (H402734-08)

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	09/08/2014	ND	1.70	85.1	2.00	4.89	
Toluene*	0.064	0.050	09/08/2014	ND	1.56	78.1	2.00	5.39	
Ethylbenzene*	0.115	0.050	09/08/2014	ND	1.47	73.5	2.00	5.20	
Total Xylenes*	0.230	0.150	09/08/2014	ND	4.50	75.0	6.00	6.07	
Total BTEX	0.408	0.300	09/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	09/09/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	10.7	10.0	09/05/2014	ND	167	83.6	200	2.35	
DRO >C10-C28	592	10.0	09/05/2014	ND	191	95.3	200	1.32	

Surrogate: 1-Chlorooctane 71.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.0 % 63.6-154

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Analytical Results For:

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 Fax To: (575) 745-8905

 Received: 09/04/2014
 Reported: 09/09/2014
 Project Name: VERMEJO TRANSFER STATION
 Project Number: 70116206501
 Project Location: CIMAREX - EDDY COUNTY, NM

 Sampling Date: 09/03/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-4 0' (H402734-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.92	2.00	09/08/2014	ND	1.70	85.1	2.00	4.89	
Toluene*	58.4	2.00	09/08/2014	ND	1.56	78.1	2.00	5.39	
Ethylbenzene*	69.6	2.00	09/08/2014	ND	1.47	73.5	2.00	5.20	
Total Xylenes*	109	6.00	09/08/2014	ND	4.50	75.0	6.00	6.07	
Total BTEX	241	12.0	09/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 123 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6200	16.0	09/09/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	2720	100	09/05/2014	ND	167	83.6	200	2.35		
DRO >C10-C28	11600	100	09/05/2014	ND	191	95.3	200	1.32		

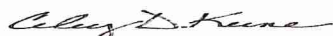
Surrogate: 1-Chlorooctane 148 % 65.2-140

Surrogate: 1-Chlorooctadecane 329 % 63.6-154

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Analytical Results For:

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

Received: 09/04/2014
Reported: 09/09/2014
Project Name: VERMEJO TRANSFER STATION
Project Number: 70116206501
Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 09/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-4 1' (H402734-10)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	09/08/2014	ND	1.70	85.1	2.00	4.89	
Toluene*	2.02	0.200	09/08/2014	ND	1.56	78.1	2.00	5.39	
Ethylbenzene*	5.43	0.200	09/08/2014	ND	1.47	73.5	2.00	5.20	
Total Xylenes*	10.8	0.600	09/08/2014	ND	4.50	75.0	6.00	6.07	
Total BTX	18.2	1.20	09/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 158 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12400	16.0	09/09/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	266	50.0	09/05/2014	ND	167	83.6	200	2.35	
DRO >C10-C28	2690	50.0	09/05/2014	ND	191	95.3	200	1.32	

Surrogate: 1-Chlorooctane 98.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 120 % 63.6-154

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Analytical Results For:

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

Received: 09/04/2014
Reported: 09/09/2014
Project Name: VERMEJO TRANSFER STATION
Project Number: 70116206501
Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 09/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-5 0' (H402734-11)

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	09/08/2014	ND	1.70	85.1	2.00	4.89	
Toluene*	0.624	0.100	09/08/2014	ND	1.56	78.1	2.00	5.39	
Ethylbenzene*	0.859	0.100	09/08/2014	ND	1.47	73.5	2.00	5.20	
Total Xylenes*	1.60	0.300	09/08/2014	ND	4.50	75.0	6.00	6.07	
Total BTEX	3.08	0.600	09/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PII) 116 % 89.4-126


Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64800	16.0	09/09/2014	ND	400	100	400	0.00	
TPH 8015M		mg/kg	Analyzed By: ms						
S-06									

Surrogate: 1-Chlorooctane	80.8 %	65.2-140
Surrogate: 1-Chlorooctadecane	387 %	63.6-154

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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: 09/04/2014
 Reported: 09/09/2014
 Project Name: VERMEJO TRANSFER STATION
 Project Number: 70116206501
 Project Location: CIMAREX - EDDY COUNTY, NM

 Sampling Date: 09/03/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-5 1' (H402734-12)

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	09/08/2014	ND	1.70	85.1	2.00	4.89		
Toluene*	<0.050	0.050	09/08/2014	ND	1.56	78.1	2.00	5.39		
Ethylbenzene*	<0.050	0.050	09/08/2014	ND	1.47	73.5	2.00	5.20		
Total Xylenes*	<0.150	0.150	09/08/2014	ND	4.50	75.0	6.00	6.07		
Total BTEX	<0.300	0.300	09/08/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10600	16.0	09/09/2014	ND	400	100	400	0.00		

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	09/05/2014	ND	167	83.6	200	2.35		
DRO >C10-C28	24.9	10.0	09/05/2014	ND	191	95.3	200	1.32		

Surrogate: 1-Chlorooctane 77.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 80.4 % 63.6-154

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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:	09/04/2014	Sampling Date:	09/03/2014
Reported:	09/09/2014	Sampling Type:	Soil
Project Name:	VERMEJO TRANSFER STATION	Sampling Condition:	Cool & Intact
Project Number:	70116206501	Sample Received By:	Kathy Perez
Project Location:	CIMAREX - EDDY COUNTY, NM		

Sample ID: S-6 0' (H402734-13)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	09/08/2014	ND	1.70	85.1	2.00	4.89	
Toluene*	1.56	0.500	09/08/2014	ND	1.56	78.1	2.00	5.39	
Ethylbenzene*	2.51	0.500	09/08/2014	ND	1.47	73.5	2.00	5.20	
Total Xylenes*	4.16	1.50	09/08/2014	ND	4.50	75.0	6.00	6.07	
Total BTEX	8.24	3.00	09/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10600	16.0	09/09/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	558	500	09/05/2014	ND	167	83.6	200	2.35		
DRO >C10-C28	28800	500	09/05/2014	ND	191	95.3	200	1.32		

Surrogate: 1-Chlorooctane 106 % 65.2-140

Surrogate: 1-Chlorooctadecane 1250 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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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: 09/04/2014
Reported: 09/09/2014
Project Name: VERMEJO TRANSFER STATION
Project Number: 70116206501
Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 09/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-6 1' (H402734-14)

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	09/08/2014	ND	1.70	85.1	2.00	4.89	
Toluene*	<0.050	0.050	09/08/2014	ND	1.56	78.1	2.00	5.39	
Ethylbenzene*	0.062	0.050	09/08/2014	ND	1.47	73.5	2.00	5.20	
Total Xylenes*	<0.150	0.150	09/08/2014	ND	4.50	75.0	6.00	6.07	
Total BTX	<0.300	0.300	09/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	09/09/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/05/2014	ND	167	83.6	200	2.35	
DRO >C10-C28	695	50.0	09/05/2014	ND	191	95.3	200	1.32	

Surrogate: 1-Chlorooctane 82.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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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: 09/04/2014
Reported: 09/09/2014
Project Name: VERMEJO TRANSFER STATION
Project Number: 70116206501
Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 09/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-6 2' (H402734-15)

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	09/08/2014	ND	1.70	85.1	2.00	4.89	
Toluene*	<0.050	0.050	09/08/2014	ND	1.56	78.1	2.00	5.39	
Ethylbenzene*	<0.050	0.050	09/08/2014	ND	1.47	73.5	2.00	5.20	
Total Xylenes*	<0.150	0.150	09/08/2014	ND	4.50	75.0	6.00	6.07	
Total BTEx	<0.300	0.300	09/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	09/09/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/05/2014	ND	167	83.6	200	2.35	
DRO >C10-C28	1480	50.0	09/05/2014	ND	191	95.3	200	1.32	

Surrogate: 1-Chlorooctane 82.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 121 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

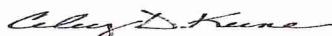
Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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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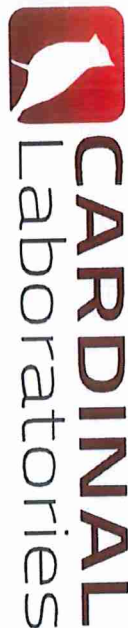
Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 18 of 19

Page 1072



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: Talon/LPE

Project Manager: D. Adkins

Address: 408 W. Texas Ave.

City: Artesia

State: NM Zip: 88210

Phone #: 575-746-8768

Fax #: 575-746-8905

Project #: 20116206501 Project Owner: Cimarron

Project Name: Vermojo Transfer Station

Project Location: Edley

Sample Name: G. Racca

P.O. #:

Company: Talon/LPE

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

FOR LAB USE ONLY

MATRIX

PRESERV

SAMPLING

Lab I.D.

Sample I.D.

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

1 PH
BT EX
Chlorides

11 S-5 0-
12 S-5 2-
13 S-6 0-
14 S-6 2-
15 S-6 2-

9-3-14 12:41
12:50
1:05
1:17
1:26

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Relinquished By:

Date: 10-24-14

Received By:

Relinquished By:

Date:

Received By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

5.8%

Sample Condition

Cool ☒ Intact ☒

CHECKED BY:

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

page 2082

June 25, 2015

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: VERMEJO TRANSFER STATION

Enclosed are the results of analyses for samples received by the laboratory on 06/19/15 14:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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
SHELDON HITCHCOCK
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 06/19/2015
Reported: 06/25/2015
Project Name: VERMEJO TRANSFER STATION
Project Number: 70116206501
Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 06/18/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 3' (H501594-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	06/24/2015	ND	384	96.0	400	8.00	

Sample ID: S-1 4' (H501594-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/24/2015	ND	384	96.0	400	8.00	

Sample ID: S-1 5' (H501594-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/24/2015	ND	384	96.0	400	8.00	

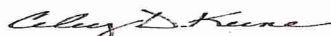
Sample ID: S-2 2.5' (H501594-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/24/2015	ND	384	96.0	400	8.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	06/19/2015	Sampling Date:	06/18/2015
Reported:	06/25/2015	Sampling Type:	Soil
Project Name:	VERMEJO TRANSFER STATION	Sampling Condition:	Cool & Intact
Project Number:	70116206501	Sample Received By:	Jodi Henson
Project Location:	CIMAREX - EDDY COUNTY, NM		

Sample ID: S-4 3' (H501594-05)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2720	16.0	06/24/2015	ND	384	96.0	400	8.00		
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	06/22/2015	ND	186	93.0	200	1.13		
DRO >C10-C28	<10.0	10.0	06/22/2015	ND	201	100	200	0.861		
<i>Surrogate: 1-Chlorooctane</i>										
	94.2 %	47.2-157								
<i>Surrogate: 1-Chlorooctadecane</i>										
	117 %	52.1-176								

Sample ID: S-4 4' (H501594-06)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2400	16.0	06/24/2015	ND	384	96.0	400	8.00		
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	06/22/2015	ND	186	93.0	200	1.13		
DRO >C10-C28	<10.0	10.0	06/22/2015	ND	201	100	200	0.861		
<i>Surrogate: 1-Chlorooctane</i>										
	87.8 %	47.2-157								
<i>Surrogate: 1-Chlorooctadecane</i>										
	109 %	52.1-176								

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 06/19/2015
 Reported: 06/25/2015
 Project Name: VERMEJO TRANSFER STATION
 Project Number: 70116206501
 Project Location: CIMAREX - EDDY COUNTY, NM

 Sampling Date: 06/18/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-4 5' (H501594-07)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	06/24/2015	ND	384	96.0	400	8.00	
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	06/22/2015	ND	186	93.0	200	1.13	
DRO >C10-C28	<10.0	10.0	06/22/2015	ND	201	100	200	0.861	

Surrogate: 1-Chlorooctane 92.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 115 % 52.1-176

Sample ID: S-4 6' (H501594-08)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	06/24/2015	ND	384	96.0	400	8.00	

Sample ID: S-5 5' (H501594-09)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1380	16.0	06/24/2015	ND	384	96.0	400	8.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 06/19/2015
 Reported: 06/25/2015
 Project Name: VERMEJO TRANSFER STATION
 Project Number: 70116206501
 Project Location: CIMAREX - EDDY COUNTY, NM

 Sampling Date: 06/18/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-5 6' (H501594-10)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1460	16.0	06/24/2015	ND	384	96.0	400	8.00	

Sample ID: S-5 7' (H501594-11)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	06/24/2015	ND	384	96.0	400	8.00	


Sample ID: S-5 8' (H501594-12)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	06/24/2015	ND	384	96.0	400	8.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/19/2015
Reported: 06/25/2015
Project Name: VERMEJO TRANSFER STATION
Project Number: 70116206501
Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 06/18/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-6 2.5' (H501594-13)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7840	16.0	06/24/2015	ND	384	96.0	400	8.00	
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	06/22/2015	ND	186	93.0	200	1.13	
DRO >C10-C28	<10.0	10.0	06/22/2015	ND	201	100	200	0.861	
Surrogate: 1-Chlorooctane		103 %	47.2-157						
Surrogate: 1-Chlorooctadecane		115 %	52.1-176						

Sample ID: S-6 3' (H501594-14)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6960	16.0	06/24/2015	ND	384	96.0	400	8.00	
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	06/22/2015	ND	186	93.0	200	1.13	
DRO >C10-C28	<10.0	10.0	06/22/2015	ND	201	100	200	0.861	
Surrogate: 1-Chlorooctane		103 %	47.2-157						
Surrogate: 1-Chlorooctadecane		114 %	52.1-176						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/19/2015
Reported: 06/25/2015
Project Name: VERMEJO TRANSFER STATION
Project Number: 70116206501
Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 06/18/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-6 4' (H501594-15)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	06/24/2015	ND	384	96.0	400	8.00	
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	06/22/2015	ND	186	93.0	200	1.13	
DRO >C10-C28	56.0	10.0	06/22/2015	ND	201	100	200	0.861	

Surrogate: 1-Chlorooctane 89.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 112 % 52.1-176

Sample ID: S-6 5' (H501594-16)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	06/24/2015	ND	384	96.0	400	8.00	

Sample ID: S-6 6' (H501594-17)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	06/25/2015	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/19/2015
Reported: 06/25/2015
Project Name: VERMEJO TRANSFER STATION
Project Number: 70116206501
Project Location: CIMAREX - EDDY COUNTY, NM

Sampling Date: 06/18/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-6 8' (H501594-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	06/25/2015	ND	400	100	400	3.92	

Sample ID: S-6 9' (H501594-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	06/25/2015	ND	400	100	400	3.92	

Sample ID: S-6 10' (H501594-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	06/25/2015	ND	400	100	400	3.92		

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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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

10/22

Company Name: Talon / LPE		P.O. #:		BILL TO										ANALYSIS REQUEST									
Project Manager: S. Hitchcock		Company:																					
Address: 408 W Texas Ave		Attn:																					
City: Artesia State: NM Zip: 88210		Address:																					
Phone #: 575 746 8768 Fax #:		City:																					
Project #: 70162 0501 Project Owner: Cimarron		State:																					
Project Name: Yermojo Transfer Station		Zip:																					
Project Location: Eddy		Phone #:																					
Sampler Name: G. Baeza		Fax #:																					
FOR LAB USE ONLY																							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV	SAMPLING	DATE	TIME										
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:					ACID/BASE:	ICE / COOL	OTHER:							
#501594 1-20	S-1 3										6-18-15	8:30	X	Total Chlorides									
	S-1 4										6-18-15	8:33	X	pH									
	S-1 5										6-18-15	8:36	X										
	S-2 2.5										6-18-15	8:41	X										
	S-4 3										6-18-15	9:00	X										
	S-4 4										6-18-15	9:04	X										
	S-4 5										6-18-15	9:10	X										
	S-4 6										6-18-15	9:13	X										
	S-5 5										6-18-15	9:28	X										
	S-5 6										6-18-15	9:34	X										
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Relinquished By:		Date:	Time:	Received By:		Date:	Time:	Phone Result:		<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:												
Relinquished By: [Signature]		Date: 10/19/15	Time: 2:20	Received By: [Signature]		Date:	Time:	Fax Result:		<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:												
Delivered By: (Circle One)		Sample Condition												CHECKED BY: (Initials)									
Sampler - UPS - Bus - Other:		<input type="checkbox"/> Yes <input type="checkbox"/> No												<input type="checkbox"/> Yes <input type="checkbox"/> No									



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

2052

BILL TO										ANALYSIS REQUEST									
Company Name: <u>Valon/CPG</u>										P.O. #:									
Project Manager: <u>S. H. H. H. H.</u>										Company: <u>Valon/CPG</u>									
Address: <u>4108 W. Texas Ave</u>										Attn:									
City: <u>Artesia</u>										Address:									
Phone #: <u>575 746 8768</u>										City:									
Fax #: <u>575 746 8768</u>										State:									
Project #: <u>70116266501</u>										Zip:									
Project Owner: <u>C. M. M. M.</u>										Project Location: <u>Eddy G. Bass</u>									
Sample Name: <u>Eddy G. Bass</u>										Fax #:									
FOR LAB USE ONLY										MATRIX									
Lab I.D. <u>4501594 1-20</u>										Sample I.D.									
11 S-5 7-										(G)RAB OR (C)OMP.									
12 S-5 8-										# CONTAINERS									
13 S-6 2.5-										GROUNDWATER									
14 S-6 3-										WASTEWATER									
15 S-6 4-										SOIL									
16 S-6 5-										OIL									
17 S-6 6-										SLUDGE									
18 S-6 8-										OTHER :									
19 S-6 9-										ACID/BASE:									
20 S-6 10-										ICE / COOL									
										OTHER :									
DATE										TIME									
6-18-15 9:40										X									
6-18-15 9:45										X									
6-18-15 10:15										X									
6-18-15 10:30										X									
6-18-15 10:43										X									
6-18-15 10:30										X									
6-18-15 10:34										X									
6-18-15 10:40										X									
6-18-15 11:00										X									
6-18-15 11:08										X									
Total Chlorides																			
TPH																			

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Relinquished By: <u>[Signature]</u>	Date: <u>6/18/15</u>	Received By: <u>[Signature]</u>	Date: <u>6/18/15</u>
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <u>4.9 d</u>	Sample Condition <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: <u>[Signature]</u>	(Initials)

REMARKS:

Phone Result: ☐ Yes ☐ No Add'l Phone #:

Fax Result: ☐ Yes ☐ No Add'l Fax #: