



September 22, 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

Subject: **Remedial Activities and Closure Report**

Cimarex Energy

Parkway State Com #5Y

30-015-38499 (2RP-3052)

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

Dear Ms. Patterson

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

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.

Background Information

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

The Parkway State Com #5Y is located approximately thirty (30) miles southeast of Artesia, New Mexico. The legal location for this site is Unit Letter C, Section 15, Township 19 South and Range 29 East. More specifically the latitude and longitude for this site are 32.667114 North and -104.064786 West. A site plan is presented in Appendix I.

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

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 comprised of middle to lower Pleistocene age alluvial deposits, piedmont areas and calcic soils with eolian cover sediments. Drainage courses in this area are normally dry. Ground water in the project vicinity is approximately 100-feet below ground surface (bgs) according to the 2006 Chevron Texaco groundwater trend map.

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

The ranking for this site is **0** based on the following:

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

ENVIRONMENTAL CONSULTING
ENGINEERING
DRILLING
CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING

Toll Free: 866.742.0742
www.talonlpe.com

Incident Description

Lightning struck the produced water tank and blew it out of the containment. The oil tanks and containment were not damaged, however destruction of the water tank caused a release of approximately 105bbls of produced water. A vacuum truck was used to recover approximately 5bbls of produced water.

Talon mobilized personnel to conduct an initial site assessment and soil sampling within the impacted area. Analytical results from the soil sampling activities are summarized in the table below.

Laboratory Results

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

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0	ND	30000	ND	268
S-1	1	ND	80	ND	ND
S-1	2	ND	48	ND	ND
S-1	3	--	224	--	--
S-2	0	ND	20400	ND	ND
S-2	1	ND	480	ND	ND
S-2	2	ND	1090	ND	ND
S-2	3	--	176	--	--
S-3	0	ND	14400	ND	ND
S-3	1	ND	128	ND	ND
S-3	2	ND	160	ND	ND
S-3	3	--	160	--	--
S-4	0	ND	400	ND	25.8
S-4	1	ND	1040	ND	ND
S-4	2	ND	176	ND	ND
S-4	3	--	16	--	--

(--) Analyte Not Tested

(ND) Analyte Not Detected

Based upon the site ranking of 0, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, and 5,000 mg/kg for TPH.

Remedial Actions Taken

- The impacted area in the vicinity of sample locations S-1, S-2, S-3, and S-4 were excavated to a depth of 1-foot bgs.
- All of the excavated material was hauled to an NMOCD approved solid waste disposal facility.
- The excavation was backfilled with caliche and contoured to match the surrounding terrain.

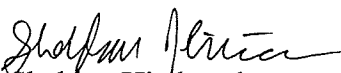
Closure


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.

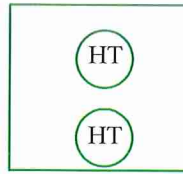
Respectfully submitted,

TALON/LPE


Sheldon Hitchcock
Project Manager


David J. Adkins
District Manager

SITE PLAN



Impacted Area

S-1

S-4

PW
Tank

S-2

S-3

Well Head



NTS

Scale in Feet

Legend

◆ - Sample Location



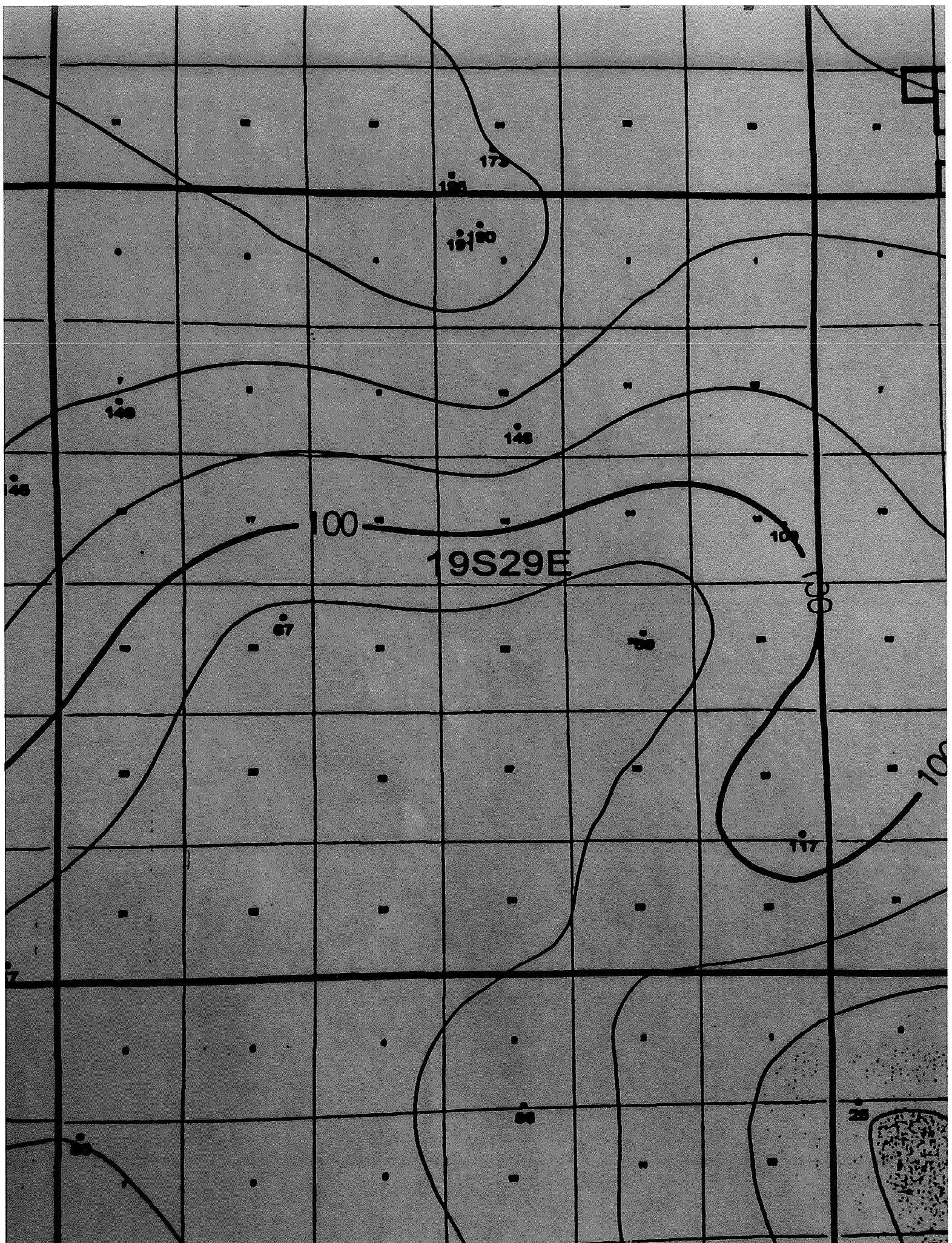
Date: 06/25/2015

Scale: NTS

Drawn By: TJS

Parkway St. Com #51
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

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

NAB1516756346		OPERATOR	<input checked="" type="checkbox"/> Initial Report	<input type="checkbox"/> 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 Parkway State Com 5Y		Facility Type production		
Surface Owner		Mineral Owner	API No. 30-015-38499	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	15	19S	29E	405	N	1980	W	Eddy

Latitude 32.667114 Longitude -104.064786

NATURE OF RELEASE

Type of Release Produced water	Volume of Release 105 bbls	Volume Recovered 5 bbls
Source of Release tank	Date and Hour of Occurrence 6/14/15 pm	Date and Hour of Discovery 6/14/15 pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher/ Heather Patterson	NM OIL CONSERVATION ARTESIA DISTRICT JUN 15 2015
By Whom? Christine Alderman	Date and Hour 6/15/15 1:20pm	
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.*

RECEIVED

Describe Cause of Problem and Remedial Action Taken.*

Lightning struck a produced water storage tank. The tank was blown out of containment but no fire is evident. The oil tanks were isolated and were not affected.

Describe Area Affected and Cleanup Action Taken.*

location pad 300' x 150'

Pasture 100' x 30'

Talon LPE is going to assess and develop workplan.

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: Christine Alderman		OIL CONSERVATION DIVISION	
Printed Name: Christine Alderman		Approved by Environmental Specialist: [Signature]	
Title: ESH Supervisor		Approval Date: 6/16/15	Expiration Date: N/A
E-mail Address: calderman@cimarex.com		Conditions of Approval:	
Date: 6/15/15 Phone: 432-853-7059		Remediation per O.C.D. Rules & Guidelines	
		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

SUBMIT REMEDIATION PROPOSAL NO
LATER THAN: 6/17/15

2RP-3052

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: Parkway State Com 5y	Facility Type: Production

Surface Owner: State	Mineral Owner: State	API No. 30-015-38499
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LOCATION OF RELEASE

Unit Letter C	Section 15	Township 19S	Range 29E	Feet from the 405	North/South Line N	Feet from the 1980	East/West Line W	County Eddy
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Latitude 32.667114 Longitude -104.064786

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 105bbbls	Volume Recovered: 5bbbls
Source of Release: Tank	Date and Hour of Occurrence 6/14/15 pm	Date and Hour of Discovery 6/14/15pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher/ Heather Patterson	
By Whom? Christine Alderman	Date and Hour: 6/15/15 1:20pm	
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.*

Lighting struck a produced water storage tank. The tank was blown out of the containment. The destruction of the tank resulted in the release of approximately 105bbbls of produced water. A vacuum truck was utilized to recover approximately 5bbbls of produced water. Talon/LPE mobilized personnel to conduct an initial site assessment and perform soil sampling within the impacted area.

Describe Area Affected and Cleanup Action Taken.*

Talon/LPE mobilized personnel to conduct an initial site assessment and perform soil sampling within the impacted area. Upon receipt of analytical results from the soil sampling a work plan was generated and subsequently approved by NMOCD. The remediation took place to the scope laid out in the approved work plan. The area was backfilled and contoured to match the surrounding location.

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:		
Title: EHS- Supervisor	Approval Date:	Expiration Date:	
E-mail Address: calderman@cimarex.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: <u>9-24-15</u> Phone: 432-853-7059			

* Attach Additional Sheets If Necessary

LABORATORY RESULTS

June 26, 2015

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: PARKWAY ST. # 5Y

Enclosed are the results of analyses for samples received by the laboratory on 06/22/15 14:03.

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: 06/22/2015
 Reported: 06/26/2015
 Project Name: PARKWAY ST. # 5Y
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 06/22/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 0' (H501604-01)

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	06/24/2015	ND	1.99	99.6	2.00	2.89		
Toluene*	<0.050	0.050	06/24/2015	ND	1.99	99.7	2.00	0.0251		
Ethylbenzene*	<0.050	0.050	06/24/2015	ND	2.04	102	2.00	0.543		
Total Xylenes*	<0.150	0.150	06/24/2015	ND	5.70	95.0	6.00	1.41		
Total BTEX	<0.300	0.300	06/24/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 61-154

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	30000	16.0	06/25/2015	ND	400	100	400	8.33		

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	180	90.2	200	1.95		
DRO >C10-C28	268	10.0	06/22/2015	ND	176	87.9	200	4.10		

Surrogate: 1-Chlorooctane 82.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 93.0 % 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: 06/22/2015
Reported: 06/26/2015
Project Name: PARKWAY ST. # 5Y
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/22/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 1' (H501604-02)

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	06/24/2015	ND	1.99	99.6	2.00	2.89	
Toluene*	<0.050	0.050	06/24/2015	ND	1.99	99.7	2.00	0.0251	
Ethylbenzene*	<0.050	0.050	06/24/2015	ND	2.04	102	2.00	0.543	
Total Xylenes*	<0.150	0.150	06/24/2015	ND	5.70	95.0	6.00	1.41	
Total BTEx	<0.300	0.300	06/24/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 61-154

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/25/2015	ND	400	100	400	8.33	

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	180	90.2	200	1.95	
DRO >C10-C28	<10.0	10.0	06/22/2015	ND	176	87.9	200	4.10	

Surrogate: 1-Chlorooctane 91.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 98.1 % 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: 06/22/2015
Reported: 06/26/2015
Project Name: PARKWAY ST. # 5Y
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/22/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 2' (H501604-03)

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	06/24/2015	ND	1.99	99.6	2.00	2.89	
Toluene*	<0.050	0.050	06/24/2015	ND	1.99	99.7	2.00	0.0251	
Ethylbenzene*	<0.050	0.050	06/24/2015	ND	2.04	102	2.00	0.543	
Total Xylenes*	<0.150	0.150	06/24/2015	ND	5.70	95.0	6.00	1.41	
Total BTEx	<0.300	0.300	06/24/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/25/2015	ND	400	100	400	8.33	

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	180	90.2	200	1.95	
DRO >C10-C28	<10.0	10.0	06/22/2015	ND	176	87.9	200	4.10	

Surrogate: 1-Chlorooctane 76.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 80.6 % 52.1-176

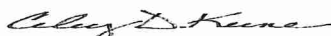
Sample ID: S-1 3' (H501604-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	06/25/2015	ND	400	100	400	8.33	

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: 06/22/2015
 Reported: 06/26/2015
 Project Name: PARKWAY ST. # 5Y
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 06/22/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-2 0' (H501604-05)

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	06/24/2015	ND	1.99	99.6	2.00	2.89	
Toluene*	<0.050	0.050	06/24/2015	ND	1.99	99.7	2.00	0.0251	
Ethylbenzene*	<0.050	0.050	06/24/2015	ND	2.04	102	2.00	0.543	
Total Xylenes*	<0.150	0.150	06/24/2015	ND	5.70	95.0	6.00	1.41	
Total BTX	<0.300	0.300	06/24/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20400	16.0	06/25/2015	ND	400	100	400	8.33	

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	180	90.2	200	1.95	
DRO >C10-C28	<10.0	10.0	06/22/2015	ND	176	87.9	200	4.10	

Surrogate: 1-Chlorooctane 86.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 91.6 % 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: 06/22/2015
Reported: 06/26/2015
Project Name: PARKWAY ST. # 5Y
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/22/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 1' (H501604-06)

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	06/24/2015	ND	1.99	99.6	2.00	2.89	
Toluene*	<0.050	0.050	06/24/2015	ND	1.99	99.7	2.00	0.0251	
Ethylbenzene*	<0.050	0.050	06/24/2015	ND	2.04	102	2.00	0.543	
Total Xylenes*	<0.150	0.150	06/24/2015	ND	5.70	95.0	6.00	1.41	
Total BTEX	<0.300	0.300	06/24/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 112 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	06/25/2015	ND	400	100	400	8.33	

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	180	90.2	200	1.95	
DRO >C10-C28	<10.0	10.0	06/22/2015	ND	176	87.9	200	4.10	

Surrogate: 1-Chlorooctane 85.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 90.9 % 52.1-176

Cardinal Laboratories

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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: 06/22/2015
 Reported: 06/26/2015
 Project Name: PARKWAY ST. # 5Y
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 06/22/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-2 2' (H501604-07)

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	06/24/2015	ND	1.99	99.6	2.00	2.89		
Toluene*	<0.050	0.050	06/24/2015	ND	1.99	99.7	2.00	0.0251		
Ethylbenzene*	<0.050	0.050	06/24/2015	ND	2.04	102	2.00	0.543		
Total Xylenes*	<0.150	0.150	06/24/2015	ND	5.70	95.0	6.00	1.41		
Total BTEX	<0.300	0.300	06/24/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 61-154

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1090	16.0	06/25/2015	ND	400	100	400	8.33		

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	180	90.2	200	1.95		
DRO >C10-C28	<10.0	10.0	06/22/2015	ND	176	87.9	200	4.10		

Surrogate: 1-Chlorooctane 92.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 98.2 % 52.1-176

Sample ID: S-2 3' (H501604-08)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	06/25/2015	ND	400	100	400	8.33		

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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: 06/22/2015
 Reported: 06/26/2015
 Project Name: PARKWAY ST. # 5Y
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 06/22/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-3 0' (H501604-09)

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	06/24/2015	ND	1.99	99.6	2.00	2.89		
Toluene*	<0.050	0.050	06/24/2015	ND	1.99	99.7	2.00	0.0251		
Ethylbenzene*	<0.050	0.050	06/24/2015	ND	2.04	102	2.00	0.543		
Total Xylenes*	<0.150	0.150	06/24/2015	ND	5.70	95.0	6.00	1.41		
Total BTEX	<0.300	0.300	06/24/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 112 % 61-154

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14400	16.0	06/25/2015	ND	400	100	400	8.33		

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	180	90.2	200	1.95		
DRO >C10-C28	<10.0	10.0	06/22/2015	ND	176	87.9	200	4.10		

Surrogate: 1-Chlorooctane 84.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 87.8 % 52.1-176

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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: 06/22/2015
Reported: 06/26/2015
Project Name: PARKWAY ST. # 5Y
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/22/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 1' (H501604-10)

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	06/24/2015	ND	1.99	99.6	2.00	2.89	
Toluene*	<0.050	0.050	06/24/2015	ND	1.99	99.7	2.00	0.0251	
Ethylbenzene*	<0.050	0.050	06/24/2015	ND	2.04	102	2.00	0.543	
Total Xylenes*	<0.150	0.150	06/24/2015	ND	5.70	95.0	6.00	1.41	
Total BTX	<0.300	0.300	06/24/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 61-154

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/25/2015	ND	400	100	400	8.33	

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	06/23/2015	ND	180	90.2	200	1.95	
DRO >C10-C28	<10.0	10.0	06/23/2015	ND	176	87.9	200	4.10	

Surrogate: 1-Chlorooctane 83.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 88.7 % 52.1-176

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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: 06/22/2015
 Reported: 06/26/2015
 Project Name: PARKWAY ST. # 5Y
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 06/22/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-3 2' (H501604-11)

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	06/24/2015	ND	1.99	99.6	2.00	2.89		
Toluene*	<0.050	0.050	06/24/2015	ND	1.99	99.7	2.00	0.0251		
Ethylbenzene*	<0.050	0.050	06/24/2015	ND	2.04	102	2.00	0.543		
Total Xylenes*	<0.150	0.150	06/24/2015	ND	5.70	95.0	6.00	1.41		
Total BTEX	<0.300	0.300	06/24/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/25/2015	ND	400	100	400	8.33	

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	06/23/2015	ND	180	90.2	200	1.95		
DRO >C10-C28	<10.0	10.0	06/23/2015	ND	176	87.9	200	4.10		

Surrogate: 1-Chlorooctane 83.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 87.8 % 52.1-176

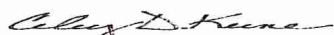
Sample ID: S-3 3' (H501604-12)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	06/25/2015	ND	400	100	400	8.33		

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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: 06/22/2015
 Reported: 06/26/2015
 Project Name: PARKWAY ST. # 5Y
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 06/22/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-4 0' (H501604-13)

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	06/24/2015	ND	1.99	99.6	2.00	2.89	
Toluene*	<0.050	0.050	06/24/2015	ND	1.99	99.7	2.00	0.0251	
Ethylbenzene*	<0.050	0.050	06/24/2015	ND	2.04	102	2.00	0.543	
Total Xylenes*	<0.150	0.150	06/24/2015	ND	5.70	95.0	6.00	1.41	
Total BTEX	<0.300	0.300	06/24/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	06/25/2015	ND	400	100	400	8.33	

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	06/23/2015	ND	180	90.2	200	1.95	
DRO >C10-C28	25.8	10.0	06/23/2015	ND	176	87.9	200	4.10	

Surrogate: 1-Chlorooctane 84.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.1 % 52.1-176

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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: 06/22/2015
 Reported: 06/26/2015
 Project Name: PARKWAY ST. # 5Y
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 06/22/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-4 1' (H501604-14)

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	06/24/2015	ND	1.99	99.6	2.00	2.89		
Toluene*	<0.050	0.050	06/24/2015	ND	1.99	99.7	2.00	0.0251		
Ethylbenzene*	<0.050	0.050	06/24/2015	ND	2.04	102	2.00	0.543		
Total Xylenes*	<0.150	0.150	06/24/2015	ND	5.70	95.0	6.00	1.41		
Total BTEX	<0.300	0.300	06/24/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	06/25/2015	ND	400	100	400	8.33		

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	06/23/2015	ND	180	90.2	200	1.95		
DRO >C10-C28	<10.0	10.0	06/23/2015	ND	176	87.9	200	4.10		

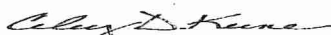
Surrogate: 1-Chlorooctane 86.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 91.4 % 52.1-176

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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: 06/22/2015
Reported: 06/26/2015
Project Name: PARKWAY ST. # 5Y
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/22/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-4 2' (H501604-15)

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	06/24/2015	ND	1.99	99.6	2.00	2.89	
Toluene*	<0.050	0.050	06/24/2015	ND	1.99	99.7	2.00	0.0251	
Ethylbenzene*	<0.050	0.050	06/24/2015	ND	2.04	102	2.00	0.543	
Total Xylenes*	<0.150	0.150	06/24/2015	ND	5.70	95.0	6.00	1.41	
Total BTEX	<0.300	0.300	06/24/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 61-154

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/25/2015	ND	400	100	400	8.33	

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	06/23/2015	ND	180	90.2	200	1.95	
DRO >C10-C28	<10.0	10.0	06/23/2015	ND	176	87.9	200	4.10	

Surrogate: 1-Chlorooctane 85.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 91.2 % 52.1-176

Sample ID: S-4 3' (H501604-16)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/25/2015	ND	400	100	400	8.33	

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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

BILL TO

ANALYSIS REQUEST

Company Name: Talon/LPE

Project Manager: S. Hitchcock

Address: 408 W. Texas Ave.

City: Artesia

Phone #: 575-746-8768

Project #:

Project Name: Parkway St. #57

Project Location:

Sampler Name: S. Hitchcock

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

#501604

5-10'

5-11'

5-12'

5-13'

5-20'

5-21'

5-22'

5-23'

5-30'

5-31'

5-32'

5-33'

5-34'

5-35'

6/24/15

11:00

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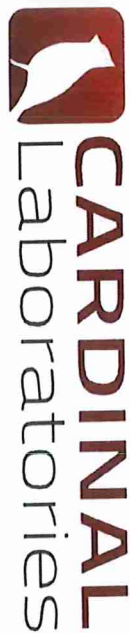
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO										ANALYSIS REQUEST									
Company Name: Talon/LPE										P.O. #:									
Project Manager: J. Hitchcock										Company: Talon/LPE									
Address: 408 W. Texas Ave.										Attn:									
City: Artesia										State: NM Zip: 88210									
Phone #: 575-746-8768										Fax #: 575-746-8905									
Project #:										Project Owner: Lindsay									
Project Name: Parley St. #57										City:									
Project Location:										State: Zip:									
Sampler Name: S. Hinson										Phone #:									
Fax #:										Fax #:									
FOR LAB USE ONLY										MATRIX									
Lab I.D.										Sample I.D.									
(G)RAB OR (C)OMP.										# CONTAINERS									
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