



July 23, 2015

Ms. Heather Patterson
NMOCD District 2

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

811 S. 1st Street
Artesia, NM 88210

Subject: **Remedial Activities and Closure Report**
LRE Operating, LLC.
Marathon 25 State #8 CTB
30-015-29967 (2RP-3038)

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

LRE Operating, LLC contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The incident description, soil sampling results 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 Marathon 25 State #8 Central Tank Battery is located approximately sixteen miles east of Artesia, New Mexico. The legal location for this release is Unit Letter C, Section 25, Township 17 South and Range 28 East. More specifically the latitude and longitude for this release are 32.81221399 North and -104.13305353 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 Simona gravelly fine sandy loam 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 Holocene to middle Pleistocene eolian and piedmont deposits. Drainage courses in this area are normally dry. Ground water in the project vicinity is approximately 150-feet below ground surface (bgs) according to the 2006 Chevron Texaco Groundwater Trend Map.

SAN ANTONIO
13111 Lookout Way
San Antonio, Texas 78233
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

A valve malfunctioned inside of the facility causing a release of 103bbls of oil. A vacuum truck was immediately dispatched to recover the standing fluids which remained within the berms of the battery. Approximately 97bbls of oil were recovered. A hydro-excavator was also used to remove the heavily impacted soil at the surface within the battery. Talon mobilized personnel to conduct a site assessment and perform soil sampling within the impacted area. Refusal was encountered with a hand auger at a depth of 0.75-feet bgs.

A backhoe was subsequently mobilized to further vertically delineate the site. Due to the proximity of infrastructure within the battery, sample location S-1 could not be further explored with the backhoe. Thus other sample locations were chosen in order to fully investigate the impacts in this portion of the battery. Laboratory 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	0.5	0.353	4320	ND	697
S-1	0.75	452	1800	1450	2130
S-2 (refusal)	1	ND	384	ND	ND
S-3	1	ND	ND	ND	ND
S-3	2	ND	64	ND	ND
S-3	3	ND	80	ND	ND
S-3	4	ND	ND	ND	ND
S-3	5	ND	48	ND	ND
S-3	6	ND	224	ND	ND

Confirmation Sampling

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	1				

(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, 5,000 mg/kg for TPH and 1,000 mg/kg for chloride.

Remedial Actions and Closure Request

- The impacted area in the vicinity of sample locations S-1, S-2 and S-3 was excavated to a depth of 1-foot bgs.
- A confirmation soil sample was taken at sample location S-1 and analyzed for BTEX, per NMOCD closure stipulations.
- All of the excavated material was hauled to an NMOCD approved solid waste disposal facility.
- Upon receipt of analytical results from the confirmation sampling at S-1, the battery was backfilled with caliche.

On behalf of Lime Rock Resources, 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 L. Hitchcock
Project Manager



David J. Adkins
District Manager

SITE PLAN

Lease Road

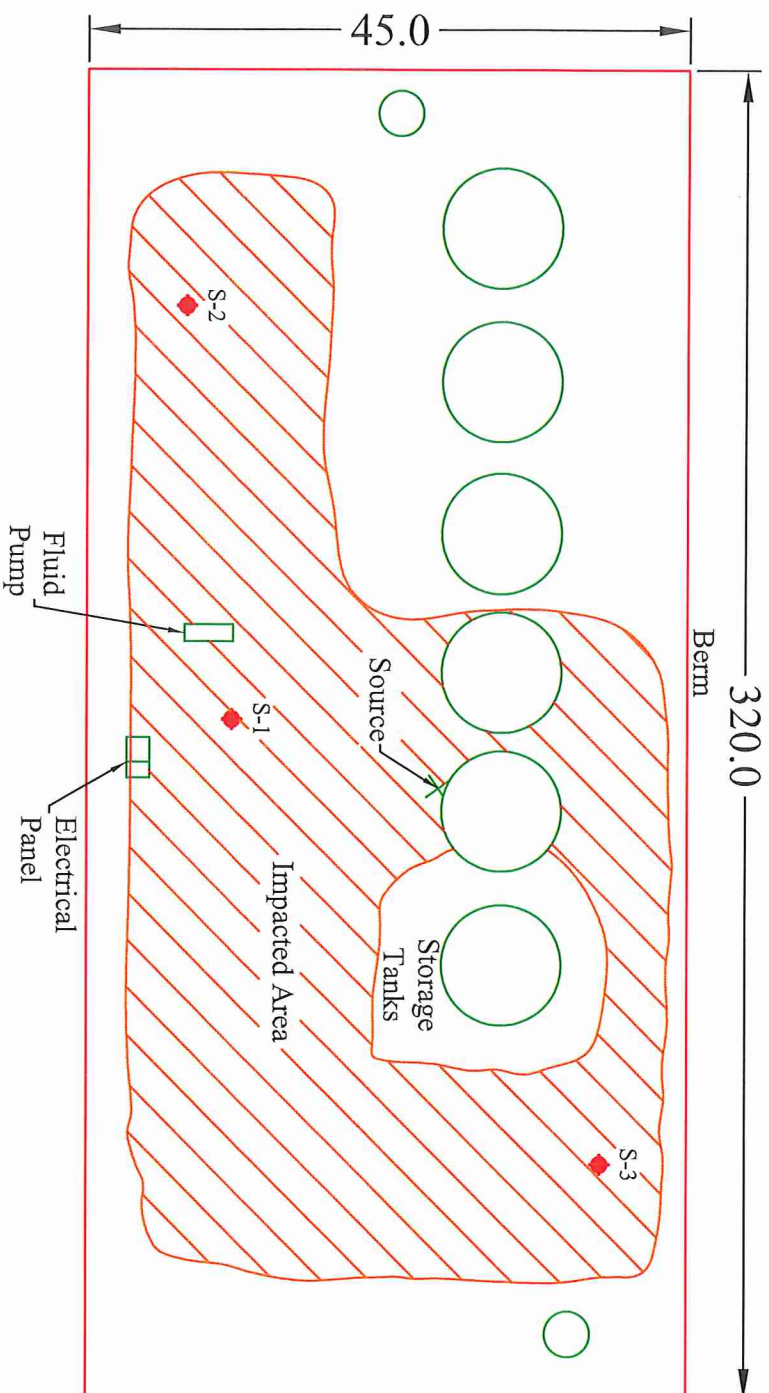


NTS

Scale in Feet

320.0
Berm

45.0



Legend
♦ - Sample Location



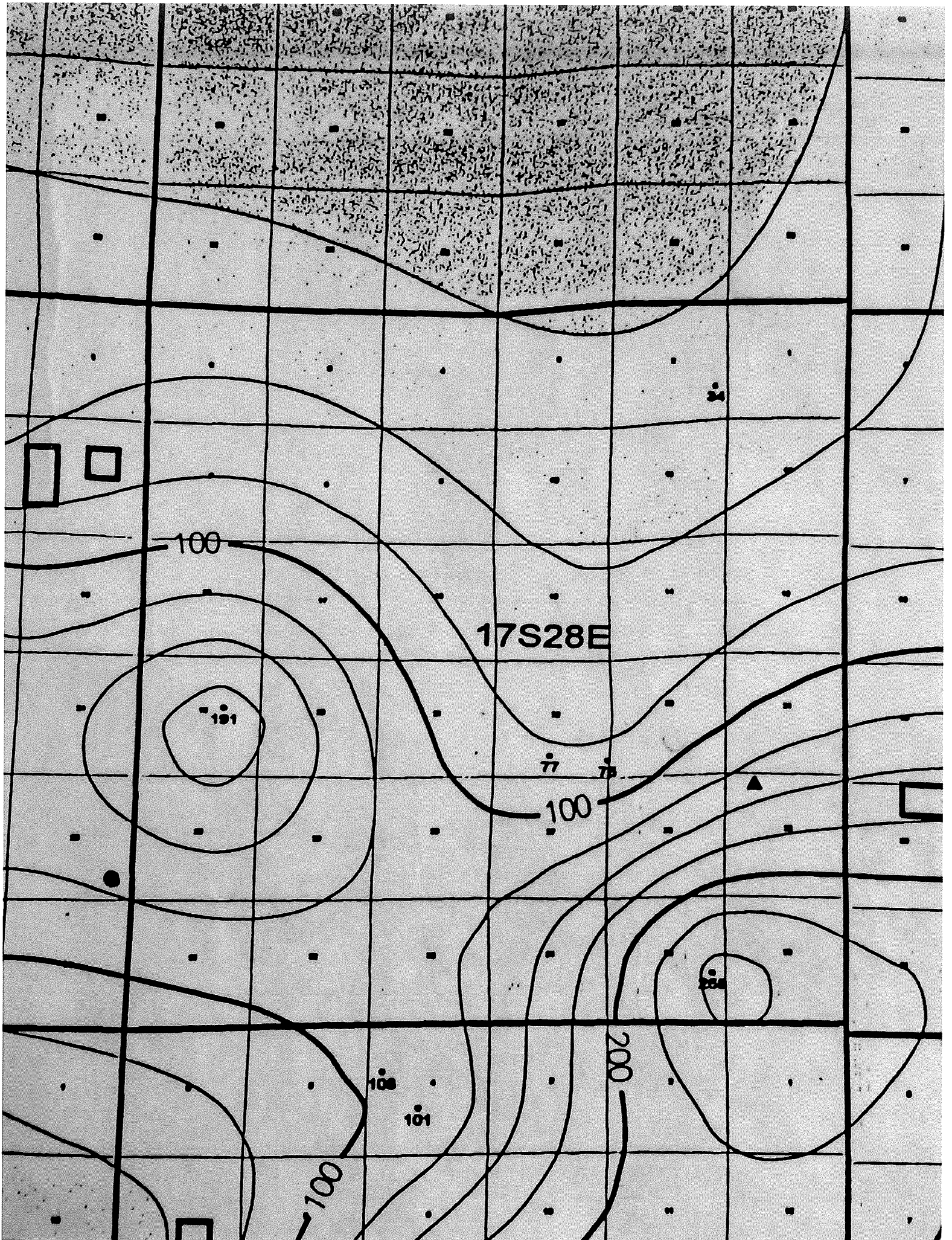
Date: 06/03/2015

Scale: NTS

Drawn By: TJS

Marathon A25 Battery
Lime Rock Resources
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
1301 W. Grand Avenue, 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 October 10, 2003
Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

nAB1515455677

OPERATOR		<input checked="" type="checkbox"/> Initial Report	<input type="checkbox"/> Final Report
Name of Company: LRE Operating, LLC. 281994		Contact: Mike Barrett	
Address: 1111 Bagby Street Suite 4600, Houston, TX 77002		Telephone No.: 575-623-8424	
Facility Name: Marathon 25 State #8		Facility Type: Battery	
Surface Owner: State		Mineral Owner: API #30-015-29967	

LOCATION OF RELEASE

Unit Letter C	Section 25	Township 17S	Range 28E	Feet from the 990'	North/South Line FNL	Feet from the 1650'	East/West Line FWL	County Eddy
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Latitude **32.8122139954 N** Longitude **-104.133053542 W**

NATURE OF RELEASE


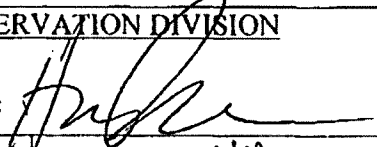
Type of Release: Oil	Volume of Release: 103 bbl Oil	Volume Recovered: 97 bbls Oil
Source of Release: Valve Malfunction	Date and Hour of Occurrence: 5/14/15 4:00 pm	Date and Hour of Discovery: 4/14/15 4:00 pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD * Heather Patterson via phone @ 10:45 am	
By Whom? Kimberly Wilson with Talon/LPE	Date and Hour: 5/15/15 @ 10:45 am	
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.* **A valve malfunctioned inside the facility causing the release of 103 barrels of oil. A vac truck was immediately called to the location and recovered 97 barrels of oil. All wells were shut in, the valve was replaced and the facility was brought back into service. The release stayed within the berm of the facility. No fluids breached the berms of the facility.**

Describe Area Affected and Cleanup Action Taken.* **Talon/LPE was on site on May 15, 2015 for the initial site assessment activities. Hydrovac operations are in progress May 15, 2015. A work plan will be generated.**

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: 	OIL CONSERVATION DIVISION	
Printed Name: Michael Barrett	Approved by District Supervisor: 	
Title: Production Supervisor	Approval Date: 6/18/15	Expiration Date: N/A
E-mail Address: mbarrett@limerockresources.com	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines <input checked="" type="checkbox"/> Remediation per O.C.D. Rules & Guidelines <input type="checkbox"/>	
Date: 5/18/2015 Phone: 575-623-8424	SUBMIT REMEDIATION PROPOSAL NO	

* Attach Additional Sheets If Necessary

LATER THAN: 7/14/15 2RP-3038

NM OIL CONSERVATION
ARTESIA DISTRICT

JUN 8 2015

RECEIVED

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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 October 10, 2003
Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: LRE Operating, LLC.	Contact : Mike Barrett
Address : 1111 Bagby Street Suite 4600, Houston ,TX 77002	Telephone No. : 575-623-8424
Facility Name: Marathon 25 State #8	Facility Type: Battery

Surface Owner : State	Mineral Owner: State	API # 30-015-29967
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LOCATION OF RELEASE

Unit Letter C	Section 25	Township 17S	Range 28E	Feet from the 990'	North/South Line FNL	Feet from the 1650'	East/West Line FWL	County Eddy
-------------------------	----------------------	------------------------	---------------------	------------------------------	--------------------------------	-------------------------------	------------------------------	--------------------

Latitude **32.8122139954 N** Longitude **-104.133053542 W**

NATURE OF RELEASE


Type of Release : Oil	Volume of Release : 103 bbl Oil	Volume Recovered: 97 bbls Oil
Source of Release : Valve Malfunction	Date and Hour of Occurrence: 5/14/15 4:00 pm	Date and Hour of Discovery: 4/14/15 4:00 pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD * Heather Patterson via phone @ 10:45 am	
By Whom? Kimberly Wilson with Talon/LPE	Date and Hour : 5/15/15 @ 10:45 am	
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.* A valve malfunctioned inside the facility causing the release of 103 barrels of oil. A vac truck was immediately called to the location and recovered 97 barrels of oil. All wells were shut in, the valve was replaced and the facility was brought back into service. The release stayed within the berm of the facility. No fluids breached the berms of the facility.

Describe Area Affected and Cleanup Action Taken.* Talon/LPE was on site on May 15, 2015 for the initial site assessment activities. Hydrovac operations are in progress May 15, 2015. A work plan was generated and subsequently approved. Work progressed per the NMOCD approved work plan and stipulations. The battery was backfilled.

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: 	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Michael Barrett	Approved by District Supervisor:		
Title: Production Supervisor	Approval Date:	Expiration Date:	
E-mail Address: mbarrett@limerockresources.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 7/24/2015 Phone: 575-623-8424			

* Attach Additional Sheets If Necessary

LABORATORY RESULTS

June 04, 2015

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MARATHON A 25 STATE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/18/15 11:30.

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: 05/18/2015
Reported: 06/04/2015
Project Name: MARATHON A 25 STATE BATTERY
Project Number: 701307075.01
Project Location: EDDY

Sampling Date: 05/15/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 0.5' (H501258-01)

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	05/19/2015	ND	1.81	90.7	2.00	1.58	
Toluene*	0.222	0.050	05/19/2015	ND	1.97	98.4	2.00	3.91	
Ethylbenzene*	0.131	0.050	05/19/2015	ND	1.86	93.0	2.00	3.46	
Total Xylenes*	<0.150	0.150	05/19/2015	ND	5.54	92.3	6.00	4.12	
Total BTX	0.353	0.300	05/19/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 108 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	05/18/2015	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	05/18/2015	ND	173	86.6	200	1.90	
DRO >C10-C28	697	50.0	05/18/2015	ND	198	99.0	200	1.16	

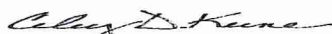
Surrogate: 1-Chlorooctane 85.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 140 % 52.1-176

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:	05/18/2015	Sampling Date:	05/15/2015
Reported:	06/04/2015	Sampling Type:	Soil
Project Name:	MARATHON A 25 STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307075.01	Sample Received By:	Jodi Henson
Project Location:	EDDY		

Sample ID: S-1 0.75' (REFUSAL) (H501258-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	43.5	1.00	05/19/2015	ND	1.81	90.7	2.00	1.58	
Toluene*	170	1.00	05/19/2015	ND	1.97	98.4	2.00	3.91	
Ethylbenzene*	136	1.00	05/19/2015	ND	1.86	93.0	2.00	3.46	
Total Xylenes*	103	3.00	05/19/2015	ND	5.54	92.3	6.00	4.12	
Total BTX	452	6.00	05/19/2015	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	05/18/2015	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	1450	50.0	05/18/2015	ND	173	86.6	200	1.90	
DRO >C10-C28	2130	50.0	05/18/2015	ND	198	99.0	200	1.16	

Surrogate: 1-Chlorooctane 141 % 47.2-157

Surrogate: 1-Chlorooctadecane 122 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



(575) 393-2326 FAX (575) 393-2476

3376

#54

May 28, 2015

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MARATHON A 25 STATE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/27/15 15:10.

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/ga/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,



Caley 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:	05/27/2015	Sampling Date:	05/27/2015
Reported:	05/28/2015	Sampling Type:	Soil
Project Name:	MARATHON A 25 STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307075.01	Sample Received By:	Jodi Henson
Project Location:	EDDY		

Sample ID: S-2 1 REFUSAL (H501326-01)

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	05/28/2015	ND	1.83	91.4	2.00	0.634	
Toluene*	<0.050	0.050	05/28/2015	ND	1.87	93.3	2.00	1.71	
Ethylbenzene*	<0.050	0.050	05/28/2015	ND	1.75	87.5	2.00	3.91	
Total Xylenes*	<0.150	0.150	05/28/2015	ND	5.04	84.0	6.00	3.69	
Total BTEX	<0.300	0.300	05/28/2015	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	05/28/2015	ND	416	104	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	05/28/2015	ND	182	90.8	200	1.83	
DRO >C10-C28	<10.0	10.0	05/28/2015	ND	200	100	200	3.30	

Surrogate: 1-Chlorooctane 108 % 47.2-157

Surrogate: 1-Chlorooctadecane 123 % 52.1-176

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:	05/27/2015	Sampling Date:	05/27/2015
Reported:	05/28/2015	Sampling Type:	Soil
Project Name:	MARATHON A 25 STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307075.01	Sample Received By:	Jodi Henson
Project Location:	EDDY		

Sample ID: S-3 1' (H501326-02)

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	05/28/2015	ND	1.83	91.4	2.00	0.634	
Toluene*	<0.050	0.050	05/28/2015	ND	1.87	93.3	2.00	1.71	
Ethylbenzene*	<0.050	0.050	05/28/2015	ND	1.75	87.5	2.00	3.91	
Total Xylenes*	<0.150	0.150	05/28/2015	ND	5.04	84.0	6.00	3.69	
Total BTX	<0.300	0.300	05/28/2015	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/28/2015	ND	416	104	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	05/28/2015	ND	182	90.8	200	1.83	
DRO >C10-C28	<10.0	10.0	05/28/2015	ND	200	100	200	3.30	

Surrogate: 1-Chlorooctane 107 % 47.2-157

Surrogate: 1-Chlorooctadecane 132 % 52.1-176

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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:	05/27/2015	Sampling Date:	05/27/2015
Reported:	05/28/2015	Sampling Type:	Soil
Project Name:	MARATHON A 25 STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307075.01	Sample Received By:	Jodi Henson
Project Location:	EDDY		

Sample ID: S-3 2' (H501326-03)

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	05/28/2015	ND	1.83	91.4	2.00	0.634	
Toluene*	<0.050	0.050	05/28/2015	ND	1.87	93.3	2.00	1.71	
Ethylbenzene*	<0.050	0.050	05/28/2015	ND	1.75	87.5	2.00	3.91	
Total Xylenes*	<0.150	0.150	05/28/2015	ND	5.04	84.0	6.00	3.69	
Total BTEX	<0.300	0.300	05/28/2015	ND					

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

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	05/28/2015	ND	416	104	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	05/28/2015	ND	182	90.8	200	1.83	
DRO >C10-C28	<10.0	10.0	05/28/2015	ND	200	100	200	3.30	

Surrogate: 1-Chlorooctane 105 % 47.2-157

Surrogate: 1-Chlorooctadecane 129 % 52.1-176

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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:	05/27/2015	Sampling Date:	05/27/2015
Reported:	05/28/2015	Sampling Type:	Soil
Project Name:	MARATHON A 25 STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307075.01	Sample Received By:	Jodi Henson
Project Location:	EDDY		

Sample ID: S-3 4' (H501326-04)

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	05/28/2015	ND	1.83	91.4	2.00	0.634	
Toluene*	<0.050	0.050	05/28/2015	ND	1.87	93.3	2.00	1.71	
Ethylbenzene*	<0.050	0.050	05/28/2015	ND	1.75	87.5	2.00	3.91	
Total Xylenes*	<0.150	0.150	05/28/2015	ND	5.04	84.0	6.00	3.69	
Total BTX	<0.300	0.300	05/28/2015	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/28/2015	ND	416	104	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	05/28/2015	ND	182	90.8	200	1.83	
DRO >C10-C28	<10.0	10.0	05/28/2015	ND	200	100	200	3.30	

Surrogate: 1-Chlorooctane 95.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 119 % 52.1-176

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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:	05/27/2015	Sampling Date:	05/27/2015
Reported:	05/28/2015	Sampling Type:	Soil
Project Name:	MARATHON A 25 STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307075.01	Sample Received By:	Jodi Henson
Project Location:	EDDY		

Sample ID: S-3 5' (H501326-05)

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	05/28/2015	ND	1.83	91.4	2.00	0.634	
Toluene*	<0.050	0.050	05/28/2015	ND	1.87	93.3	2.00	1.71	
Ethylbenzene*	<0.050	0.050	05/28/2015	ND	1.75	87.5	2.00	3.91	
Total Xylenes*	<0.150	0.150	05/28/2015	ND	5.04	84.0	6.00	3.69	
Total BTX	<0.300	0.300	05/28/2015	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/28/2015	ND	416	104	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	05/28/2015	ND	182	90.8	200	1.83	
DRO >C10-C28	<10.0	10.0	05/28/2015	ND	200	100	200	3.30	

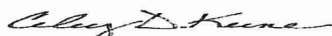
Surrogate: 1-Chlorooctane 100 % 47.2-157

Surrogate: 1-Chlorooctadecane 124 % 52.1-176

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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:	05/27/2015	Sampling Date:	05/27/2015
Reported:	05/28/2015	Sampling Type:	Soil
Project Name:	MARATHON A 25 STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307075.01	Sample Received By:	Jodi Henson
Project Location:	EDDY		

Sample ID: S-3 6' (H501326-06)

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	05/28/2015	ND	1.83	91.4	2.00	0.634	
Toluene*	<0.050	0.050	05/28/2015	ND	1.87	93.3	2.00	1.71	
Ethylbenzene*	<0.050	0.050	05/28/2015	ND	1.75	87.5	2.00	3.91	
Total Xylenes*	<0.150	0.150	05/28/2015	ND	5.04	84.0	6.00	3.69	
Total BTX	<0.300	0.300	05/28/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/28/2015	ND	416	104	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	05/28/2015	ND	182	90.8	200	1.83	
DRO >C10-C28	<10.0	10.0	05/28/2015	ND	200	100	200	3.30	

Surrogate: 1-Chlorooctane 110 % 47.2-157

Surrogate: 1-Chlorooctadecane 126 % 52.1-176

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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:	05/27/2015	Sampling Date:	05/27/2015
Reported:	05/28/2015	Sampling Type:	Soil
Project Name:	MARATHON A 25 STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307075.01	Sample Received By:	Jodi Henson
Project Location:	EDDY		

Sample ID: S-3 3' (H501326-07)

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	05/28/2015	ND	1.83	91.4	2.00	0.634			
Toluene*	<0.050	0.050	05/28/2015	ND	1.87	93.3	2.00	1.71			
Ethylbenzene*	<0.050	0.050	05/28/2015	ND	1.75	87.5	2.00	3.91			
Total Xylenes*	<0.150	0.150	05/28/2015	ND	5.04	84.0	6.00	3.69			
Total BTEx	<0.300	0.300	05/28/2015	ND							

Surrogate: 4-Bromofluorobenzene (PIC) 113 % 61-154

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	05/28/2015	ND	416	104	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	05/28/2015	ND	182	90.8	200	1.83		
DRO >C10-C28	<10.0	10.0	05/28/2015	ND	200	100	200	3.30		

Surrogate: 1-Chlorooctane 100 % 47.2-157

Surrogate: 1-Chlorooctadecane 125 % 52.1-176

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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

[illegible]



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

July 24, 2015

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MARATHON 25 ST. #8 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/23/15 14:39.

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:	07/23/2015	Sampling Date:	07/23/2015
Reported:	07/24/2015	Sampling Type:	Soil
Project Name:	MARATHON 25 ST. #8 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701307.075.01	Sample Received By:	Judy Garcia
Project Location:	C-25-17S-28E		

Sample ID: S-1 1' (H501923-01)

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	07/23/2015	ND	1.92	95.9	2.00	0.776	
Toluene*	<0.050	0.050	07/23/2015	ND	1.92	96.2	2.00	1.40	
Ethylbenzene*	<0.050	0.050	07/23/2015	ND	2.05	103	2.00	2.64	
Total Xylenes*	<0.150	0.150	07/23/2015	ND	5.38	89.6	6.00	2.81	
Total BTX	<0.300	0.300	07/23/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 116 % 85.6-137

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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

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