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Remediation Activities and Closure Report

State CF No 5 |30-005-60304| 2RP-3648

Talon Project No. 701047.162.01

Prepared For:

Legacy Reserves Operating, LP
303 W. Wall St. Ste. 1300
Midland, TX 79701

Prepared By:

Sheldon Hitchcock
Talon/LPE
408 West Texas
Artesia, New Mexico 88210

December 5, 2016

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

Subject: Remediation Activities and Closure Report
Legacy Reserves Operating, LP
State CF No. 5 Battery
API# 30-005-60304 * 2RP-3648

Dear Mr. Bratcher,

Legacy Reserves Operating, LP (Legacy) 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.

Site Information

The State CF No. 5 Battery is located approximately twenty-four (24) miles east of Roswell, New Mexico. The legal location for this release is Unit Letter K, Section 13, Township 11 South and Range 27 East in Chaves County, New Mexico. More specifically the latitude and longitude for the release are 33.363369 North and -104.1924744 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 Simona fine sandy loam. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is comprised of eolian sands. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

According to the Chevron Texaco ground water trend map, the ground water in this area is 100-feet below ground surface (BGS). See [Appendix II](#) for referenced ground water data.

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

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

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 total chlorides.

Incident Description and Initial Remedial Actions

The horizontal pump and the high-level alarm failed causing the tank to overflow. Approximately 500 barrels were released into the lined containment. An estimated 3-4 barrels breached the containment and flowed approximately 500-feet into the pasture. A vacuum truck was called to the location to recover the free standing fluids.

On April 6, 2016, Talon mobilized personnel to begin the preliminary site assessment and to collect initial soil samples from the impacted area with a hand auger to a depth of 0.5 feet deep, where refusal was encountered.

Talon returned to the site with a backhoe was then mobilized for further vertical delineation of the impacted area. Vertical delineation sampling was carried out April 19, 2016. Laboratory results are summarized below.

Laboratory Results

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

April 13, 2016

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0'	0.317	48	81.3	8460
Refusal	0.5'	3.00	80	365	8130

April 26, 2015

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	2'	5.89	--	165	2400
	3'	6.7	--	427	6440
	4'	<0.300	--	<10	20.3
	5'	<0.300	--	<10	<10
	6'	<0.300	--	<10	<10
	9'	<0.300	--	<10	297
	10'	<0.300	--	<10	<10
	11'	<0.300	--	<10	509
S-2	0'	<0.300	--	<100	32600
	1'	<0.300	--	<10	2240
	2'	<0.300	--	<10	1400
	3'	<0.300	--	<10	11.8
	4'	<0.300	--	<10	<10
	5'	<0.300	--	<10	<10
	7'	<0.300	--	<10	<10
	9'	<0.300	--	<10	<10
	11'	<0.300	--	<10	122
	12'	<0.300	--	<10	26.9

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-3	0'	<0.300	--	<100	11600
	1'	3.23	--	78.4	2960
	2'	3.61	--	108	3120
	3'	<0.300	--	<10	10.9
	4'	<0.300	--	<10	<10
	5'	<0.300	--	<10	<10
	7'	<0.300	--	<10	<10
	9'	<0.300	--	<10	31
	11'	<0.300	--	<10	64.2
	12'	<0.300	--	<10	52

--Analyte Not Tested

Confirmation Sidewall Samples

Sample ID	Depth (feet)	BTEX (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-4	1	ND	ND	ND
S-5	1	ND	ND	ND
S-6	1	ND	ND	ND
S-7	1	ND	ND	ND
S-8	1	ND	ND	ND
S-9	1	ND	ND	ND
S-10	1	ND	ND	ND

Remedial Actions Taken

- The impacted area in the vicinity of sample location S-1 was excavated to a depth of 3-feet BGS.
- The impacted area in the vicinity of sample locations S-2 and S-3 were excavated to a depth of 1-foot BGS.
- Confirmation soil samples were taken from the side walls of the excavation to insure all of the impacted soil was removed.
- All of the excavated material was hauled to an NMOCD approved solid waste disposal facility.
- The excavation was backfilled with top soil and seeded with BLM #2 LPC seed mixture per the New Mexico State Land Office (NMSLO) approved revegetation plan.
- After inspection of the liner it was determined that the liner was in good condition. The battery was flushed with fresh water to remove the remaining oil and treated with Micro-Blaze (a bio remediation agent) to degrade any oil staining on the gravel.
- 150 days after the micro-blaze event oil staining was still present on the gravel within the lined tank battery. Hydrogen Peroxide was applied to oxidize the remaining hydrocarbon impacts on the gravel.
- Per the NMSLO approved revegetation plan the site will be monitored on a quarterly basis until revegetation approximating natural coverage is achieved. If revegetation is abnormally slow (taking into account precipitation levels) further soil amendments may be added after consultation with NMSLO.

Closure

On behalf of Legacy Reserves Operating, LP we respectfully request that no further actions be required and that closure with regard to this release be granted.

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768

Respectfully submitted,

TALON/LPE


Sheldon Hitchcock
Project Manager


David J. Adkins
District Manager

Attachments:

Appendix I Site Plan
Appendix II Groundwater Data
Appendix III Initial C-141 & Final C-141
Appendix IV Seed Label
Appendix V Laboratory Results

APPENDIX I

SITE PLAN

Legacy State CF #5

State CF Battery



S-8

S-2

S-7

S-1

S-10

S-4

S-6

S-9

S-5

S-3



100 ft

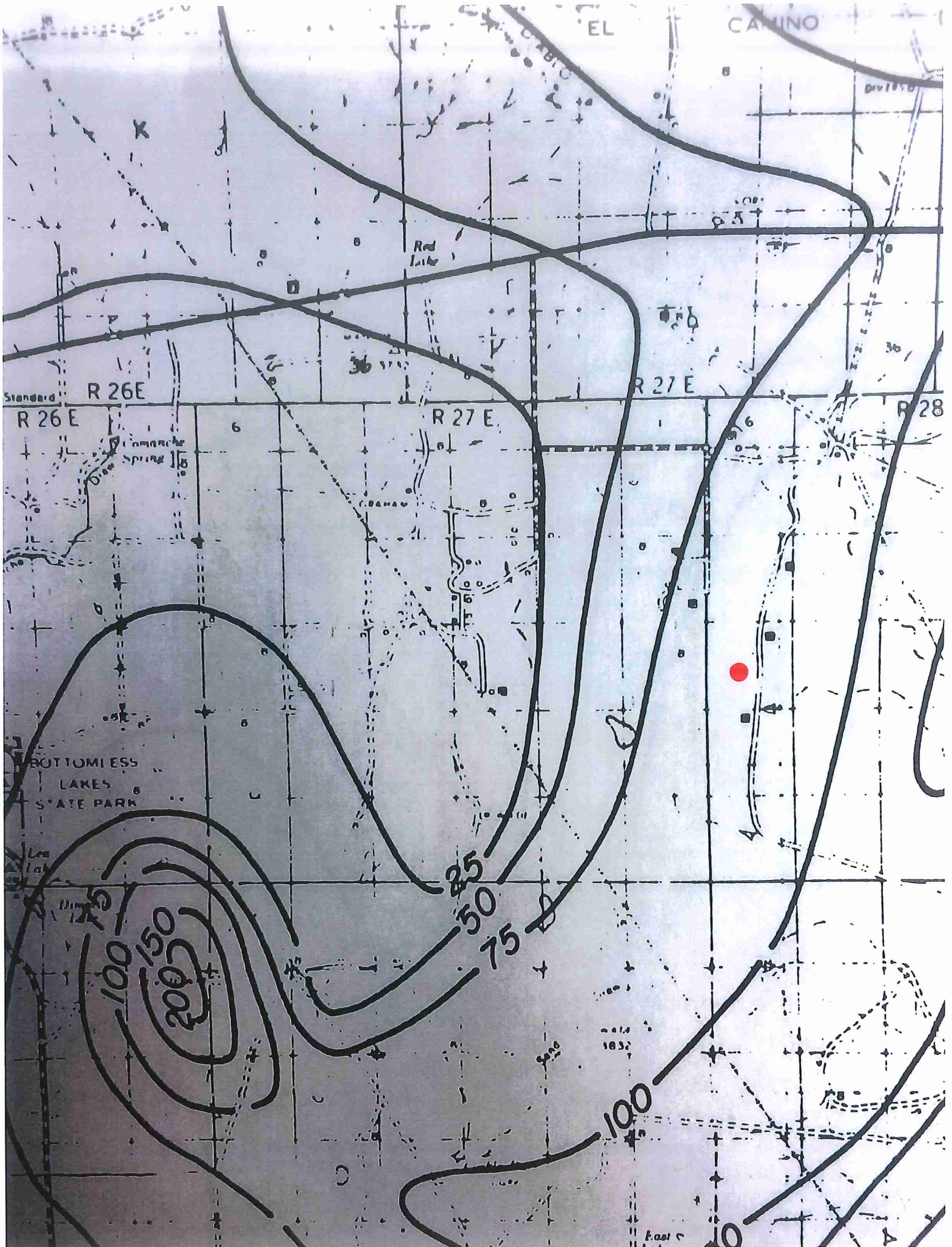
Google earth

© 2016 Google

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APPENDIX II

GROUNDWATER DATA



APPENDIX III

INITIAL C-141 & FINAL C-141

NM OIL CONSERVATION
ARTESIA DISTRICT

APR 14 2016

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

RECEIVED

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

DABIW1103315 340974 OPERATOR ☒ Initial Report ☐ Final Report

Name of Company: Legacy Reserves Operating, LP	Contact: Freddie Gibbs
Address: 303 W. Wall St. Ste 1300, Midland, TX 79701	Telephone No.: 432-664-1692
Facility Name: State CF #5	Facility Type: Battery
Surface Owner: State	Mineral Owner: API No.: 30-005-60304

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County: Chaves
K	13	11S	27E	1980	South	1980	West	

Latitude 33.363369 N Longitude -104.1924744 W

NATURE OF RELEASE

Type of Release: Mixed fluids	Volume of Release: 500 bbls	Volume Recovered: Unknown
Source of Release: Tank overflow	Date and Hour of Occurrence: <u>9/2015</u>	Date and Hour of Discovery
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* The horizontal pump and the high-level alarm failed causing the tank to overflow. Approximately 500 barrels were released into the lined containment. An estimated 3-4 barrels breached the containment and flowed approximately 500-feet into the pasture. A vac truck was called to the location to recover the free standing fluids.

Describe Area Affected and Cleanup Action Taken.* Talon/LPE was retained by Legacy Reserves to develop a work plan and remediate the affected area in the pasture. Initial sampling activities were conducted on 4/6/2016.

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>Freddie Gibbs</u>	OIL CONSERVATION DIVISION	
Printed Name: Freddie Gibbs	Approved by Environmental Specialist: <u>[Signature]</u>	
Title: Production Superintendent	Approval Date: <u>4/19/16</u>	Expiration Date: <u>N/A</u>
E-mail Address: fgibbs@legacyp.com	Conditions of Approval:	Attached ☐
Date: 4/8/2016 Phone: 432-664-1692	Remediation per O.C.D. Rules & Guidelines	

* Attach Additional Sheets If Necessary

SUBMIT REMEDIATION PROPOSAL NO.
LATER THAN: 5/20/16 2RP-3648

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: Legacy Reserves Operating, LP	Contact: Heath Loftin
Address: 303 W. Wall St. Ste 1300, Midland, TX 79701	Telephone No.: 432-689-5200
Facility Name: State CF #5	Facility Type: Battery

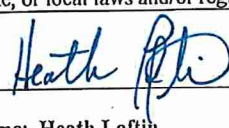
Surface Owner: State	Mineral Owner: State	API No.: 30-005-60304
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LOCATION OF RELEASE

Unit Letter K	Section 13	Township 11S	Range 27E	Feet from the 1980	North/South Line South	Feet from the 1980	East/West Line West	County: Chaves
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Latitude 33.363369 N Longitude -104.1924744 W

NATURE OF RELEASE

Type of Release: Mixed fluids	Volume of Release: 500 bbls	Volume Recovered: Unknown
Source of Release: Tank overflow	Date and Hour of Occurrence: 9/2015	Date and Hour of Discovery
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* The horizontal pump and the high-level alarm failed causing the tank to overflow. Approximately 500 barrels were released into the lined containment. An estimated 3-4 barrels breached the containment and flowed approximately 500-feet into the pasture. A vac truck was called to the location to recover the free standing fluids. Talon/LPE (Talon) mobilized personnel to conduct a site assessment and perform soil sampling within the impacted area. Upon receipt of analytical data from the soil sampling events a remediation work plan was drafted and subsequently approved by NMOCD.		
Describe Area Affected and Cleanup Action Taken.* The impacted area was remediated per the approved remediation work plan. The liner inside the battery was inspected and found to be in good condition so the battery was flushed to remove the remaining oil/produced water and was treated with Micro-Blaze to degrade hydrocarbons within the battery. The oil staining still remained 150 days after the micro-blaze treatment. Therefore the gravel inside of the battery was retreated with hydrogen peroxide to oxidize the remaining hydrocarbons on the gravel. The impacted area in the pasture was excavated to depths between 1 and 3 feet below ground surface. Confirmation soil samples were taken from the sidewalls of the excavation. Upon receipt of analytical results from the confirmation sampling showing that all of the impacted soil had been removed, the excavation was backfilled with top soil, contoured to match the surrounding terrain, and seeded with BLM #2 LPC seed mixture.		
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: Heath Loftin		Approved by Environmental Specialist:
Title: Production Superintendent	Approval Date:	Expiration Date:
E-mail Address: hloftin@legacyp.com	Conditions of Approval:	Attached ☐
Date: 12/20/2016	Phone: 432-689-5200	

* Attach Additional Sheets If Necessary

APPENDIX IV

SEED LABEL

6/13/16
X.L.

Lot# M-13730

Item	Origin	Purity	Germ	Dormant	Total Germination	Test Date	Total LBS Pounds
Sand Dropseed VNS	New Mexico	5.56%	23.00%	73.00%	96.00%	11/15	1.00
Sand Bluestem Woodward	Texas	14.05%	95.00%	0.00%	95.00%	11/15	2.50
Little Bluestem Aldous	Texas	14.20%	94.00%	0.00%	94.00%	11/15	2.50
Coreopsis Plains	Colorado	5.93%	84.00%	6.00%	90.00%	03/16	1.00
Plains Bristlegrass VNS	Oklahoma	16.68%	84.00%	12.00%	96.00%	12/15	3.00
Sideoats Grama El Reno	New Mexico	17.41%	35.00%	57.00%	92.00%	03/16	3.00
Crop Seed: Matter:	6.28% 0.06% 19.83%	There Are 1 Bags For this Mix This Bag Weighs 18 Bulk Pounds Use This Bag For 0.5 Lbs				Total Bulk Pounds:	19

APPENDIX V

LABROTORY RESULTS



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

June 13, 2016

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: LEGACY STATE CF BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/06/16 13:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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: 06/06/2016
 Reported: 06/13/2016
 Project Name: LEGACY STATE CF BATTERY
 Project Number: 701047.162.01
 Project Location: NONE GIVEN

 Sampling Date: 06/02/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-4 1.0' (H601216-01)

BTEX 8260B			mg/kg								Analyzed By: CK	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier			
Benzene*	<0.050	0.050	06/09/2016	ND	1.99	99.3	2.00	1.59				
Toluene*	<0.050	0.050	06/09/2016	ND	2.08	104	2.00	0.988				
Ethylbenzene*	<0.050	0.050	06/09/2016	ND	2.03	102	2.00	1.85				
Total Xylenes*	<0.150	0.150	06/09/2016	ND	6.78	113	6.00	1.79				
Total BTEX	<0.300	0.300	06/09/2016	ND								

Surrogate: Dibromofluoromethane 105 % 90.4-111

Surrogate: Toluene-d8 97.6 % 85.3-114

Surrogate: 4-Bromofluorobenzene 98.7 % 80.1-121

TPH 8015M			mg/kg							Analyzed By: CK	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<10.0	10.0	06/07/2016	ND	169	84.7	200	11.4			
DRO >C10-C28	<10.0	10.0	06/07/2016	ND	183	91.6	200	14.1			

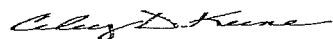
Surrogate: 1-Chlorooctane 64.5 % 35-147

Surrogate: 1-Chlorooctadecane 89.6 % 28-171

Cardinal Laboratories

*—Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	06/06/2016	Sampling Date:	06/02/2016
Reported:	06/13/2016	Sampling Type:	Soil
Project Name:	LEGACY STATE CF BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701047.162.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-5 1.0' (H601216-02)

BTEX 8260B			mg/kg Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2016	ND	1.99	99.3	2.00	1.59	
Toluene*	<0.050	0.050	06/09/2016	ND	2.08	104	2.00	0.988	
Ethylbenzene*	<0.050	0.050	06/09/2016	ND	2.03	102	2.00	1.85	
Total Xylenes*	<0.150	0.150	06/09/2016	ND	6.78	113	6.00	1.79	
Total BTEX	<0.300	0.300	06/09/2016	ND					

Surrogate: Dibromofluoromethane 103 % 90.4-111

Surrogate: Toluene-d8 97.6 % 85.3-114

Surrogate: 4-Bromofluorobenzene 98.5 % 80.1-121

TPH 8015M			mg/kg Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/07/2016	ND	169	84.7	200	11.4	
DRO >C10-C28	<10.0	10.0	06/07/2016	ND	183	91.6	200	14.1	

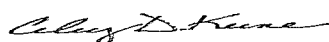
Surrogate: 1-Chlorooctane 73.0 % 35-147

Surrogate: 1-Chlorooctadecane 100 % 28-171

Cardinal Laboratories

* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/06/2016
Reported: 06/13/2016
Project Name: LEGACY STATE CF BATTERY
Project Number: 701047.162.01
Project Location: NONE GIVEN

Sampling Date: 06/02/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-6 1.0' (H601216-03)

BTEX 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2016	ND	1.99	99.3	2.00	1.59	
Toluene*	<0.050	0.050	06/09/2016	ND	2.08	104	2.00	0.988	
Ethylbenzene*	<0.050	0.050	06/09/2016	ND	2.03	102	2.00	1.85	
Total Xylenes*	<0.150	0.150	06/09/2016	ND	6.78	113	6.00	1.79	
Total BTEX	<0.300	0.300	06/09/2016	ND					

Surrogate: Dibromofluoromethane 105 % 90.4-111

Surrogate: Toluene-d8 101 % 85.3-114

Surrogate: 4-Bromofluorobenzene 98.5 % 80.1-121

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/07/2016	ND	169	84.7	200	11.4	
DRO >C10-C28	<10.0	10.0	06/07/2016	ND	183	91.6	200	14.1	

Surrogate: 1-Chlorooctane 63.4 % 35-147

Surrogate: 1-Chlorooctadecane 91.5 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/06/2016	Sampling Date:	06/02/2016
Reported:	06/13/2016	Sampling Type:	Soil
Project Name:	LEGACY STATE CF BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701047.162.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-7 1.0' (H601216-04)

BTEX 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2016	ND	1.99	99.3	2.00	1.59	
Toluene*	<0.050	0.050	06/09/2016	ND	2.08	104	2.00	0.988	
Ethylbenzene*	<0.050	0.050	06/09/2016	ND	2.03	102	2.00	1.85	
Total Xylenes*	<0.150	0.150	06/09/2016	ND	6.78	113	6.00	1.79	
Total BTEX	<0.300	0.300	06/09/2016	ND					

Surrogate: Dibromofluoromethane 104 % 90.4-111

Surrogate: Toluene-d8 98.1 % 85.3-114

Surrogate: 4-Bromofluorobenzene 98.5 % 80.1-121

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/07/2016	ND	169	84.7	200	11.4	
DRO >C10-C28	<10.0	10.0	06/07/2016	ND	183	91.6	200	14.1	

Surrogate: 1-Chlorooctane 65.2 % 35-147

Surrogate: 1-Chlorooctadecane 83.0 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

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:	06/06/2016	Sampling Date:	06/02/2016
Reported:	06/13/2016	Sampling Type:	Soil
Project Name:	LEGACY STATE CF BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701047.162.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-8 1.0' (H601216-05)

BTEX 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2016	ND	1.99	99.3	2.00	1.59	
Toluene*	<0.050	0.050	06/09/2016	ND	2.08	104	2.00	0.988	
Ethylbenzene*	<0.050	0.050	06/09/2016	ND	2.03	102	2.00	1.85	
Total Xylenes*	<0.150	0.150	06/09/2016	ND	6.78	113	6.00	1.79	
Total BTEX	<0.300	0.300	06/09/2016	ND					

Surrogate: Dibromofluoromethane 103 % 90.4-111

Surrogate: Toluene-d8 98.5 % 85.3-114

Surrogate: 4-Bromofluorobenzene 98.2 % 80.1-121

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/07/2016	ND	169	84.7	200	11.4		
DRO >C10-C28	<10.0	10.0	06/07/2016	ND	183	91.6	200	14.1		

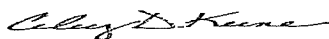
Surrogate: 1-Chlorooctane 57.5 % 35-147

Surrogate: 1-Chlorooctadecane 85.0 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/06/2016	Sampling Date:	06/02/2016
Reported:	06/13/2016	Sampling Type:	Soil
Project Name:	LEGACY STATE CF BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701047.162.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-9 1.0' (H601216-06)

BTEX 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2016	ND	1.99	99.3	2.00	1.59	
Toluene*	<0.050	0.050	06/09/2016	ND	2.08	104	2.00	0.988	
Ethylbenzene*	<0.050	0.050	06/09/2016	ND	2.03	102	2.00	1.85	
Total Xylenes*	<0.150	0.150	06/09/2016	ND	6.78	113	6.00	1.79	
Total BTEX	<0.300	0.300	06/09/2016	ND					

Surrogate: Dibromofluoromethane 102 % 90.4-111

Surrogate: Toluene-d8 98.4 % 85.3-114

Surrogate: 4-Bromofluorobenzene 98.3 % 80.1-121

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/07/2016	ND	169	84.7	200	11.4	
DRO >C10-C28	<10.0	10.0	06/07/2016	ND	183	91.6	200	14.1	

Surrogate: 1-Chlorooctane 61.0 % 35-147

Surrogate: 1-Chlorooctadecane 82.3 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/06/2016
Reported: 06/13/2016
Project Name: LEGACY STATE CF BATTERY
Project Number: 701047.162.01
Project Location: NONE GIVEN

Sampling Date: 06/02/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-10 1.0' (H601216-07)

BTEx 8260B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2016	ND	1.99	99.3	2.00	1.59	
Toluene*	<0.050	0.050	06/09/2016	ND	2.08	104	2.00	0.988	
Ethylbenzene*	<0.050	0.050	06/09/2016	ND	2.03	102	2.00	1.85	
Total Xylenes*	<0.150	0.150	06/09/2016	ND	6.78	113	6.00	1.79	
Total BTEx	<0.300	0.300	06/09/2016	ND					

Surrogate: Dibromofluoromethane 103 % 90.4-111

Surrogate: Toluene-d8 98.7 % 85.3-114

Surrogate: 4-Bromofluorobenzene 101 % 80.1-121

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/07/2016	ND	169	84.7	200	11.4	
DRO >C10-C28	<10.0	10.0	06/07/2016	ND	183	91.6	200	14.1	

Surrogate: 1-Chlorooctane 66.1 % 35-147

Surrogate: 1-Chlorooctadecane 85.9 % 28-171

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

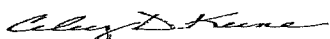
Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

ANALYSIS REQUEST

Company Name:

Talson / LPS

Project Manager:

DAVID ADKINS

Address:

408 W. TEXAS

City:

Artesia

Phone #:

575-441-4835

Fax #:

State: NM Zip: 88210

Project #:

701047.162.01

Project Owner:

Legacy

Project Location:

Legacy Site Battery

Sampler Name:

D. ADKINS

For Use Only

Matrix

Preserv

Sampling

Lab I.D.

Sample I.D.

H001216

5-4, 1.0'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH

BTEX

1130

1200

1215

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5140

5150

5200



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

April 13, 2016

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: STATE CF #5

Enclosed are the results of analyses for samples received by the laboratory on 04/07/16 12:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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: 04/07/2016
 Reported: 04/13/2016
 Project Name: STATE CF #5
 Project Number: 701047.162.01
 Project Location: CHAVES COUNTY, NM

 Sampling Date: 04/06/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 0' (H600750-01)

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	04/08/2016	ND	1.97	98.5	2.00	1.73	
Toluene*	<0.050	0.050	04/08/2016	ND	1.86	92.8	2.00	3.49	
Ethylbenzene*	0.317	0.050	04/08/2016	ND	1.64	82.2	2.00	4.52	
Total Xylenes*	<0.150	0.150	04/08/2016	ND	5.09	84.9	6.00	4.15	
Total BTX	0.317	0.300	04/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 135 % 73.6-140

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	04/08/2016	ND	416	104	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	81.3	50.0	04/08/2016	ND	185	92.4	200	1.37		
DRO >C10-C28	8460	50.0	04/08/2016	ND	180	89.8	200	6.73		

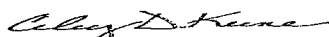
Surrogate: 1-Chlorooctane 88.8 % 35-147

Surrogate: 1-Chlorooctadecane 298 % 28-171

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: 04/07/2016
 Reported: 04/13/2016
 Project Name: STATE CF #5
 Project Number: 701047.162.01
 Project Location: CHAVES COUNTY, NM

 Sampling Date: 04/06/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 0.5' (R) (H600750-02)

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	04/08/2016	ND	1.97	98.5	2.00	1.73	
Toluene*	0.261	0.200	04/08/2016	ND	1.86	92.8	2.00	3.49	
Ethylbenzene*	<0.200	0.200	04/08/2016	ND	1.64	82.2	2.00	4.52	
Total Xylenes*	2.74	0.600	04/08/2016	ND	5.09	84.9	6.00	4.15	
Total BTEX	3.00	1.20	04/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIB) 130 % 73.6-140

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	04/08/2016	ND	416	104	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	365	50.0	04/08/2016	ND	185	92.4	200	1.37		
DRO >C10-C28	8130	50.0	04/08/2016	ND	180	89.8	200	6.73		

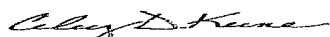
Surrogate: 1-Chlorooctane 138 % 35-147

Surrogate: 1-Chlorooctadecane 257 % 28-171

Cardinal Laboratories

*—Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

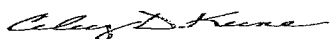
Notes and Definitions

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.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

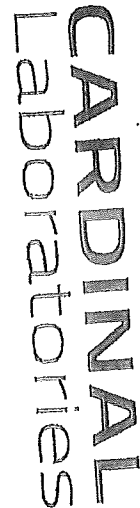
Cardinal Laboratories

*—Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

ANALYSIS REQUEST

[illegible]



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

April 26, 2016

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: STATE CF #5

Enclosed are the results of analyses for samples received by the laboratory on 04/20/16 9:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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
 KIMBERLY WILSON
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	04/20/2016	Sampling Date:	04/19/2016
Reported:	04/26/2016	Sampling Type:	Soil
Project Name:	STATE CF #5	Sampling Condition:	Cool & Intact
Project Number:	701047.162.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S-1 2' (H600850-01)

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	04/20/2016	ND	2.10	105	2.00	2.15			
Toluene*	0.129	0.050	04/20/2016	ND	2.01	100	2.00	2.78			
Ethylbenzene*	0.837	0.050	04/20/2016	ND	1.82	91.1	2.00	2.81			
Total Xylenes*	4.92	0.150	04/20/2016	ND	5.67	94.5	6.00	2.65			
Total BTEX	5.89	0.300	04/20/2016	ND							

Surrogate: 4-Bromofluorobenzene (PIE) 140 % 73.6-140

TPH 8015M			mg/kg							Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	165	10.0	04/20/2016	ND	186	93.0	200	8.42			
DRO >C10-C28	2400	10.0	04/20/2016	ND	212	106	200	8.92			

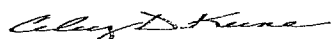
Surrogate: 1-Chlorooctane 103 % 35-147

Surrogate: 1-Chlorooctadecane 117 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/20/2016	Sampling Date:	04/19/2016
Reported:	04/26/2016	Sampling Type:	Soil
Project Name:	STATE CF #5	Sampling Condition:	Cool & Intact
Project Number:	701047.162.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S-1 3' (H600850-02)

BTEX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2016	ND	2.10	105	2.00	2.15	
Toluene*	0.092	0.050	04/20/2016	ND	2.01	100	2.00	2.78	
Ethylbenzene*	<0.050	0.050	04/20/2016	ND	1.82	91.1	2.00	2.81	
Total Xylenes*	6.61	0.150	04/20/2016	ND	5.67	94.5	6.00	2.65	
Total BTEX	6.70	0.300	04/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 150 % 73.6-140

TPH 8015M		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	427	10.0	04/20/2016	ND	186	93.0	200	8.42	
DRO >C10-C28	6440	10.0	04/20/2016	ND	212	106	200	8.92	

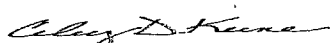
Surrogate: 1-Chlorooctane 144 % 35-147

Surrogate: 1-Chlorooctadecane 190 % 28-171

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 KIMBERLY WILSON
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 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	04/20/2016	Sampling Date:	04/19/2016
Reported:	04/26/2016	Sampling Type:	Soil
Project Name:	STATE CF #5	Sampling Condition:	Cool & Intact
Project Number:	701047.162.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S-1 4' (H600850-03)

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	04/20/2016	ND	2.10	105	2.00	2.15	
Toluene*	<0.050	0.050	04/20/2016	ND	2.01	100	2.00	2.78	
Ethylbenzene*	<0.050	0.050	04/20/2016	ND	1.82	91.1	2.00	2.81	
Total Xylenes*	<0.150	0.150	04/20/2016	ND	5.67	94.5	6.00	2.65	
Total BTEX	<0.300	0.300	04/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

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	04/20/2016	ND	186	93.0	200	8.42	
DRO >C10-C28	20.3	10.0	04/20/2016	ND	212	106	200	8.92	

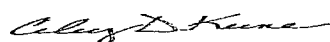
Surrogate: 1-Chlorooctane 75.2 % 35-147

Surrogate: 1-Chlorooctadecane 80.3 % 28-171

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 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	04/20/2016	Sampling Date:	04/19/2016
Reported:	04/26/2016	Sampling Type:	Soil
Project Name:	STATE CF #5	Sampling Condition:	Cool & Intact
Project Number:	701047.162.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S-1 5' (H600850-04)

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	04/20/2016	ND	2.10	105	2.00	2.15	
Toluene*	<0.050	0.050	04/20/2016	ND	2.01	100	2.00	2.78	
Ethylbenzene*	<0.050	0.050	04/20/2016	ND	1.82	91.1	2.00	2.81	
Total Xylenes*	<0.150	0.150	04/20/2016	ND	5.67	94.5	6.00	2.65	
Total BTEX	<0.300	0.300	04/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PII) 112 % 73.6-140

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	04/20/2016	ND	186	93.0	200	8.42	
DRO >C10-C28	<10.0	10.0	04/20/2016	ND	212	106	200	8.92	

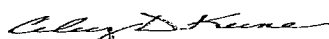
Surrogate: 1-Chlorooctane 92.1 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

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 Received: 04/20/2016
 Reported: 04/26/2016
 Project Name: STATE CF #5
 Project Number: 701047.162.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/19/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 6' (H600850-05)

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	04/20/2016	ND	2.10	105	2.00	2.15	
Toluene*	<0.050	0.050	04/20/2016	ND	2.01	100	2.00	2.78	
Ethylbenzene*	<0.050	0.050	04/20/2016	ND	1.82	91.1	2.00	2.81	
Total Xylenes*	<0.150	0.150	04/20/2016	ND	5.67	94.5	6.00	2.65	
Total BTEX	<0.300	0.300	04/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 112 % 73.6-140

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	04/20/2016	ND	186	93.0	200	8.42	
DRO >C10-C28	<10.0	10.0	04/20/2016	ND	212	106	200	8.92	

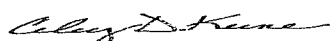
Surrogate: 1-Chlorooctane 79.3 % 35-147

Surrogate: 1-Chlorooctadecane 86.8 % 28-171

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

Received:	04/20/2016	Sampling Date:	04/19/2016
Reported:	04/26/2016	Sampling Type:	Soil
Project Name:	STATE CF #5	Sampling Condition:	Cool & Intact
Project Number:	701047.162.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S-1 9' (H600850-06)

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	04/21/2016	ND	1.90	95.2	2.00	2.53	
Toluene*	<0.050	0.050	04/21/2016	ND	1.83	91.3	2.00	3.48	
Ethylbenzene*	<0.050	0.050	04/21/2016	ND	1.65	82.7	2.00	3.67	
Total Xylenes*	<0.150	0.150	04/21/2016	ND	5.15	85.9	6.00	3.39	
Total BTX	<0.300	0.300	04/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 109 % 73.6-140

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	04/20/2016	ND	186	93.0	200	8.42	
DRO >C10-C28	297	10.0	04/20/2016	ND	212	106	200	8.92	

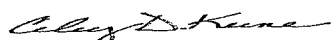
Surrogate: 1-Chlorooctane 77.5 % 35-147

Surrogate: 1-Chlorooctadecane 92.9 % 28-171

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 KIMBERLY WILSON
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 04/20/2016
 Reported: 04/26/2016
 Project Name: STATE CF #5
 Project Number: 701047.162.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/19/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 10' (H600850-07)

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	04/21/2016	ND	1.90	95.2	2.00	2.53	
Toluene*	<0.050	0.050	04/21/2016	ND	1.83	91.3	2.00	3.48	
Ethylbenzene*	<0.050	0.050	04/21/2016	ND	1.65	82.7	2.00	3.67	
Total Xylenes*	<0.150	0.150	04/21/2016	ND	5.15	85.9	6.00	3.39	
Total BTEX	<0.300	0.300	04/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 73.6-140

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	04/20/2016	ND	186	93.0	200	8.42	
DRO >C10-C28	<10.0	10.0	04/20/2016	ND	212	106	200	8.92	

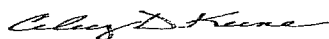
Surrogate: 1-Chlorooctane 78.6 % 35-147

Surrogate: 1-Chlorooctadecane 85.9 % 28-171

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 KIMBERLY WILSON
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	04/20/2016	Sampling Date:	04/19/2016
Reported:	04/26/2016	Sampling Type:	Soil
Project Name:	STATE CF #5	Sampling Condition:	Cool & Intact
Project Number:	701047.162.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S-1 11' (H600850-08)

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	04/21/2016	ND	1.90	95.2	2.00	2.53	
Toluene*	<0.050	0.050	04/21/2016	ND	1.83	91.3	2.00	3.48	
Ethylbenzene*	<0.050	0.050	04/21/2016	ND	1.65	82.7	2.00	3.67	
Total Xylenes*	<0.150	0.150	04/21/2016	ND	5.15	85.9	6.00	3.39	
Total BTEX	<0.300	0.300	04/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 73.6-140

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	04/20/2016	ND	186	93.0	200	8.42	
DRO >C10-C28	509	10.0	04/20/2016	ND	212	106	200	8.92	

Surrogate: 1-Chlorooctane 81.3 % 35-147

Surrogate: 1-Chlorooctadecane 106 % 28-171

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 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	04/20/2016	Sampling Date:	04/19/2016
Reported:	04/26/2016	Sampling Type:	Soil
Project Name:	STATE CF #5	Sampling Condition:	Cool & Intact
Project Number:	701047.162.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S-1 12' (H600850-09)

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	04/21/2016	ND	1.90	95.2	2.00	2.53		
Toluene*	<0.050	0.050	04/21/2016	ND	1.83	91.3	2.00	3.48		
Ethylbenzene*	<0.050	0.050	04/21/2016	ND	1.65	82.7	2.00	3.67		
Total Xylenes*	<0.150	0.150	04/21/2016	ND	5.15	85.9	6.00	3.39		
Total BTEx	<0.300	0.300	04/21/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 73.6-140

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	04/20/2016	ND	188	94.2	200	9.74	
DRO >C10-C28	71.2	10.0	04/20/2016	ND	215	107	200	1.32	

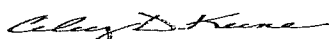
Surrogate: 1-Chlorooctane 91.6 % 35-147

Surrogate: 1-Chlorooctadecane 96.5 % 28-171

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 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	04/20/2016	Sampling Date:	04/19/2016
Reported:	04/26/2016	Sampling Type:	Soil
Project Name:	STATE CF #5	Sampling Condition:	Cool & Intact
Project Number:	701047.162.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S-2 0' (H600850-10)

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	04/21/2016	ND	1.90	95.2	2.00	2.53	
Toluene*	<0.050	0.050	04/21/2016	ND	1.83	91.3	2.00	3.48	
Ethylbenzene*	<0.050	0.050	04/21/2016	ND	1.65	82.7	2.00	3.67	
Total Xylenes*	<0.150	0.150	04/21/2016	ND	5.15	85.9	6.00	3.39	
Total BTEX	<0.300	0.300	04/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

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	<100	100	04/21/2016	ND	188	94.2	200	9.74		
DRO >C10-C28	32600	100	04/21/2016	ND	215	107	200	1.32		

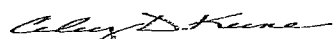
Surrogate: 1-Chlorooctane 91.1 % 35-147

Surrogate: 1-Chlorooctadecane 2010 % 28-171

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Analytical Results For:

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

 Received: 04/20/2016
 Reported: 04/26/2016
 Project Name: STATE CF #5
 Project Number: 701047.162.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/19/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-2 1' (H600850-11)

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	04/21/2016	ND	1.90	95.2	2.00	2.53				
Toluene*	<0.050	0.050	04/21/2016	ND	1.83	91.3	2.00	3.48				
Ethylbenzene*	0.070	0.050	04/21/2016	ND	1.65	82.7	2.00	3.67				
Total Xylenes*	<0.150	0.150	04/21/2016	ND	5.15	85.9	6.00	3.39				
Total BTEX	<0.300	0.300	04/21/2016	ND								

Surrogate: 4-Bromofluorobenzene (PIL) 114 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	33.7	10.0	04/20/2016	ND	188	94.2	200	9.74	
DRO >C10-C28	2240	10.0	04/20/2016	ND	215	107	200	1.32	

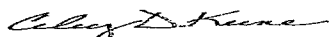
Surrogate: 1-Chlorooctane 87.1 % 35-147

Surrogate: 1-Chlorooctadecane 178 % 28-171

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 Fax To: (575) 745-8905

 Received: 04/20/2016
 Reported: 04/26/2016
 Project Name: STATE CF #5
 Project Number: 701047.162.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/19/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-2 2' (H600850-12)

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	04/21/2016	ND	1.90	95.2	2.00	2.53				
Toluene*	<0.050	0.050	04/21/2016	ND	1.83	91.3	2.00	3.48				
Ethylbenzene*	<0.050	0.050	04/21/2016	ND	1.65	82.7	2.00	3.67				
Total Xylenes*	<0.150	0.150	04/21/2016	ND	5.15	85.9	6.00	3.39				
Total BTX	<0.300	0.300	04/21/2016	ND								

Surrogate: 4-Bromofluorobenzene (PID) 111 % 73.6-140

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	04/20/2016	ND	188	94.2	200	9.74			
DRO >C10-C28	1400	10.0	04/20/2016	ND	215	107	200	1.32			

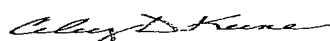
Surrogate: 1-Chlorooctane 86.6 % 35-147

Surrogate: 1-Chlorooctadecane 164 % 28-171

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Received:	04/20/2016	Sampling Date:	04/19/2016
Reported:	04/26/2016	Sampling Type:	Soil
Project Name:	STATE CF #5	Sampling Condition:	Cool & Intact
Project Number:	701047.162.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S-2 3' (H600850-13)

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	04/21/2016	ND	1.90	95.2	2.00	2.53	
Toluene*	<0.050	0.050	04/21/2016	ND	1.83	91.3	2.00	3.48	
Ethylbenzene*	<0.050	0.050	04/21/2016	ND	1.65	82.7	2.00	3.67	
Total Xylenes*	<0.150	0.150	04/21/2016	ND	5.15	85.9	6.00	3.39	
Total BTEX	<0.300	0.300	04/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PII) 112 % 73.6-140

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	04/21/2016	ND	188	94.2	200	9.74	
DRO >C10-C28	11.8	10.0	04/21/2016	ND	215	107	200	1.32	

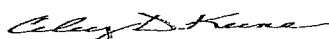
Surrogate: 1-Chlorooctane 83.0 % 35-147

Surrogate: 1-Chlorooctadecane 89.9 % 28-171

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Fax To: (575) 745-8905

Received: 04/20/2016
Reported: 04/26/2016
Project Name: STATE CF #5
Project Number: 701047.162.01
Project Location: EDDY COUNTY, NM

Sampling Date: 04/19/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 4' (H600850-14)

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	04/21/2016	ND	1.90	95.2	2.00	2.53	
Toluene*	<0.050	0.050	04/21/2016	ND	1.83	91.3	2.00	3.48	
Ethylbenzene*	<0.050	0.050	04/21/2016	ND	1.65	82.7	2.00	3.67	
Total Xylenes*	<0.150	0.150	04/21/2016	ND	5.15	85.9	6.00	3.39	
Total BTEX	<0.300	0.300	04/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 73.6-140

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	04/21/2016	ND	188	94.2	200	9.74	
DRO >C10-C28	<10.0	10.0	04/21/2016	ND	215	107	200	1.32	

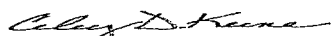
Surrogate: 1-Chlorooctane 75.6 % 35-147

Surrogate: 1-Chlorooctadecane 78.2 % 28-171

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 Received: 04/20/2016
 Reported: 04/26/2016
 Project Name: STATE CF #5
 Project Number: 701047.162.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/19/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-2 5' (H600850-15)

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	04/21/2016	ND	1.90	95.2	2.00	2.53	
Toluene*	<0.050	0.050	04/21/2016	ND	1.83	91.3	2.00	3.48	
Ethylbenzene*	<0.050	0.050	04/21/2016	ND	1.65	82.7	2.00	3.67	
Total Xylenes*	<0.150	0.150	04/21/2016	ND	5.15	85.9	6.00	3.39	
Total BTEX	<0.300	0.300	04/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 73.6-140

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	04/21/2016	ND	188	94.2	200	9.74	
DRO >C10-C28	<10.0	10.0	04/21/2016	ND	215	107	200	1.32	

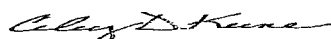
Surrogate: 1-Chlorooctane 81.7 % 35-147

Surrogate: 1-Chlorooctadecane 89.6 % 28-171

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 Fax To: (575) 745-8905

 Received: 04/20/2016
 Reported: 04/26/2016
 Project Name: STATE CF #5
 Project Number: 701047.162.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/19/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-2 7' (H600850-16)

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	04/21/2016	ND	2.14	107	2.00	2.41			
Toluene*	<0.050	0.050	04/21/2016	ND	2.06	103	2.00	2.59			
Ethylbenzene*	<0.050	0.050	04/21/2016	ND	1.87	93.6	2.00	3.31			
Total Xylenes*	<0.150	0.150	04/21/2016	ND	5.74	95.6	6.00	3.02			
Total BTX	<0.300	0.300	04/21/2016	ND							

Surrogate: 4-Bromofluorobenzene (PIL) 106 % 73.6-140

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	04/21/2016	ND	188	94.2	200	9.74			
DRO >C10-C28	<10.0	10.0	04/21/2016	ND	215	107	200	1.32			

Surrogate: 1-Chlorooctane 79.7 % 35-147

Surrogate: 1-Chlorooctadecane 87.1 % 28-171

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 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 04/20/2016
 Reported: 04/26/2016
 Project Name: STATE CF #5
 Project Number: 701047.162.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/19/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-2 9' (H600850-17)

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	04/21/2016	ND	2.14	107	2.00	2.41	
Toluene*	<0.050	0.050	04/21/2016	ND	2.06	103	2.00	2.59	
Ethylbenzene*	<0.050	0.050	04/21/2016	ND	1.87	93.6	2.00	3.31	
Total Xylenes*	<0.150	0.150	04/21/2016	ND	5.74	95.6	6.00	3.02	
Total BTEX	<0.300	0.300	04/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 73.6-140

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	04/21/2016	ND	188	94.2	200	9.74	
DRO >C10-C28	<10.0	10.0	04/21/2016	ND	215	107	200	1.32	

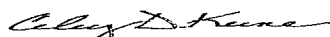
Surrogate: 1-Chlorooctane 84.7 % 35-147

Surrogate: 1-Chlorooctadecane 94.4 % 28-171

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 Fax To: (575) 745-8905

Received:	04/20/2016	Sampling Date:	04/19/2016
Reported:	04/26/2016	Sampling Type:	Soil
Project Name:	STATE CF #5	Sampling Condition:	Cool & Intact
Project Number:	701047.162.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S-2 11' (H600850-18)

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	04/21/2016	ND	2.14	107	2.00	2.41			
Toluene*	<0.050	0.050	04/21/2016	ND	2.06	103	2.00	2.59			
Ethylbenzene*	<0.050	0.050	04/21/2016	ND	1.87	93.6	2.00	3.31			
Total Xylenes*	<0.150	0.150	04/21/2016	ND	5.74	95.6	6.00	3.02			
Total BTEX	<0.300	0.300	04/21/2016	ND							

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 73.6-140

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	04/21/2016	ND	188	94.2	200	9.74			
DRO >C10-C28	122	10.0	04/21/2016	ND	215	107	200	1.32			

Surrogate: 1-Chlorooctane 72.6 % 35-147

Surrogate: 1-Chlorooctadecane 95.3 % 28-171

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KIMBERLY WILSON
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 04/20/2016
Reported: 04/26/2016
Project Name: STATE CF #5
Project Number: 701047.162.01
Project Location: EDDY COUNTY, NM

Sampling Date: 04/19/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 12' (H600850-19)

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	04/21/2016	ND	2.14	107	2.00	2.41		
Toluene*	<0.050	0.050	04/21/2016	ND	2.06	103	2.00	2.59		
Ethylbenzene*	<0.050	0.050	04/21/2016	ND	1.87	93.6	2.00	3.31		
Total Xylenes*	<0.150	0.150	04/21/2016	ND	5.74	95.6	6.00	3.02		
Total BTEX	<0.300	0.300	04/21/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 73.6-140

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	04/21/2016	ND	188	94.2	200	9.74		
DRO >C10-C28	26.9	10.0	04/21/2016	ND	215	107	200	1.32		

Surrogate: 1-Chlorooctane 84.9 % 35-147

Surrogate: 1-Chlorooctadecane 93.1 % 28-171

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Analytical Results For:

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

 Received: 04/20/2016
 Reported: 04/26/2016
 Project Name: STATE CF #5
 Project Number: 701047.162.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/19/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-3 0' (H600850-20)

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	04/21/2016	ND	2.14	107	2.00	2.41	
Toluene*	<0.050	0.050	04/21/2016	ND	2.06	103	2.00	2.59	
Ethylbenzene*	<0.050	0.050	04/21/2016	ND	1.87	93.6	2.00	3.31	
Total Xylenes*	<0.150	0.150	04/21/2016	ND	5.74	95.6	6.00	3.02	
Total BTEX	<0.300	0.300	04/21/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 73.6-140

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	<100	100	04/21/2016	ND	188	94.2	200	9.74		
DRO >C10-C28	11600	100	04/21/2016	ND	215	107	200	1.32		

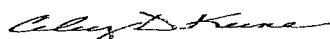
Surrogate: 1-Chlorooctane 78.4 % 35-147

Surrogate: 1-Chlorooctadecane 582 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 04/20/2016
 Reported: 04/26/2016
 Project Name: STATE CF #5
 Project Number: 701047.162.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/19/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-3 1' (H600850-21)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/21/2016	ND	2.14	107	2.00	2.41		
Toluene*	0.094	0.050	04/21/2016	ND	2.06	103	2.00	2.59		
Ethylbenzene*	<0.050	0.050	04/21/2016	ND	1.87	93.6	2.00	3.31		
Total Xylenes*	3.13	0.150	04/21/2016	ND	5.74	95.6	6.00	3.02		
Total BTEX	3.23	0.300	04/21/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 158 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	78.4	10.0	04/21/2016	ND	188	94.2	200	9.74		
DRO >C10-C28	2960	10.0	04/21/2016	ND	215	107	200	1.32		

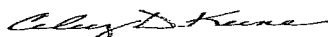
Surrogate: 1-Chlorooctane 95.4 % 35-147

Surrogate: 1-Chlorooctadecane 134 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/20/2016
Reported: 04/26/2016
Project Name: STATE CF #5
Project Number: 701047.162.01
Project Location: EDDY COUNTY, NM

Sampling Date: 04/19/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 2' (H600850-22)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2016	ND	2.14	107	2.00	2.41	
Toluene*	0.103	0.050	04/22/2016	ND	2.06	103	2.00	2.59	
Ethylbenzene*	<0.050	0.050	04/22/2016	ND	1.87	93.6	2.00	3.31	
Total Xylenes*	3.51	0.150	04/22/2016	ND	5.74	95.6	6.00	3.02	
Total BTX	3.61	0.300	04/22/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 165 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	108	10.0	04/21/2016	ND	188	94.2	200	9.74	
DRO >C10-C28	3120	10.0	04/21/2016	ND	215	107	200	1.32	

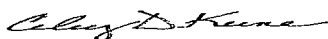
Surrogate: 1-Chlorooctane 96.8 % 35-147

Surrogate: 1-Chlorooctadecane 123 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 04/20/2016
 Reported: 04/26/2016
 Project Name: STATE CF #5
 Project Number: 701047.162.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/19/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-3 3' (H600850-23)

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	04/22/2016	ND	2.14	107	2.00	2.41		
Toluene*	<0.050	0.050	04/22/2016	ND	2.06	103	2.00	2.59		
Ethylbenzene*	<0.050	0.050	04/22							

Analytical Results For:

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

Received:	04/20/2016	Sampling Date:	04/19/2016
Reported:	04/26/2016	Sampling Type:	Soil
Project Name:	STATE CF #5	Sampling Condition:	Cool & Intact
Project Number:	701047.162.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S-3 4' (H600850-24)

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	04/22/2016	ND	2.14	107	2.00	2.41		
Toluene*	<0.050	0.050	04/22/2016	ND	2.06	103	2.00	2.59		
Ethylbenzene*	<0.050	0								

Analytical Results For:

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

 Received: 04/20/2016
 Reported: 04/26/2016
 Project Name: STATE CF #5
 Project Number: 701047.162.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/19/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-3 5' (H600850-25)

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	04/22/2016	ND	2.14	107	2.00	2.41	
Toluene*	<0.050	0.050	04/22/2016	ND	2.06	103	2.00	2.59	
Ethylbenzene*	<0.050	0.050	04/22/2016	ND	1.87	93.6	2.00	3.31	
Total Xylenes*	<0.1								



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Analytical Results For:

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

Received: 04/20/2016
Reported: 04/26/2016
Project Name: STATE CF #5
Project Number: 701047.162.01
Project Location: EDDY COUNTY, NM

Sampling Date: 04/19/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 7' (H600850-26)

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	04/22/2016	ND	2.14	107	2.00	2.41	
Toluene*	<0.050	0.050	04/22/2016	ND	2.06	103	2.00	2.59	
Ethylbenzene*	<0.050	0.050	04/22/2016	ND	1.87	93.6	2.00	3.31	
Total Xylenes*	<0.150	0.150	04/22/2016	ND	5.74	95.6	6.00	3.02	

Analytical Results For:

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

 Received: 04/20/2016
 Reported: 04/26/2016
 Project Name: STATE CF #5
 Project Number: 701047.162.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/19/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-3 9' (H600850-27)

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	04/22/2016	ND	2.14	107	2.00	2.41		
Toluene*	<0.050	0.050	04/22/2016	ND	2.06	103	2.00	2.59		
Ethylbenzene*	<0.050	0.050	04/22/2016	ND	1.87	93.6	2.00	3.31		
Total Xy										

Analytical Results For:

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

Received:	04/20/2016	Sampling Date:	04/19/2016
Reported:	04/26/2016	Sampling Type:	Soil
Project Name:	STATE CF #5	Sampling Condition:	Cool & Intact
Project Number:	701047.162.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S-3 11' (H600850-28)

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	04/22/2016	ND	2.14	107	2.00	2.41	
Toluene*	<0.050	0.050	04/22/2016	ND	2.06	103	2.00	2.59	
Ethylbenzene*	&								

Analytical Results For:

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

 Received: 04/20/2016
 Reported: 04/26/2016
 Project Name: STATE CF #5
 Project Number: 701047.162.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/19/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-3 12' (H600850-29)

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	04/22/2016	ND	2.14	107	2.00	2.41		
Toluene*	<0.050	0.050	04/22/2016	ND	2.06	103	2.00	2.59		
Ethylbenzene*	<0.050	0.050	04/22/2016	ND	1.87	93.6	2.00			

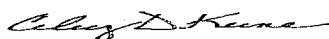
Notes and Definitions

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.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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

Page 1 of 3

Company Name: Talon/LPE
Project Manager: Kim Wilson
Address: 408 W. Texas Ave.
City: Artesia
Phone #: 575-746-8768
Fax #: 575-746-8905
Project #: 701047.16.2.01
Project Owner: Legacy
Project Location: Eddy City
Sampler Name: Kim Wilson
FOR LAB USE ONLY

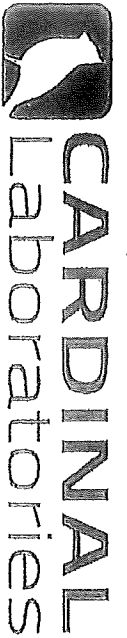
P.O. #:
Company: Talon/LPE
Attn:
Address:
City:
State:
Zip:
Phone #:
Fax #:
BIB-TO
ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME										
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :										
1	8-1 2'	5	1										4/19/16									
2	8-1 3'	5	1																			
3	8-1 4'	5	1																			
4	8-1 5'	5	1																			
5	8-1 6'	5	1																			
6	8-1 9'	5	1																			
7	8-1 10'	5	1																			
8	8-1 11'	5	1																			
9	8-1 12'	5	1																			
10	8-2 0'	5	1																			

FOR LAB USE ONLY: Lab I.D. Sample I.D. (G)RAB OR (C)OMP. # CONTAINERS MATRIX: GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER: ACID/BASE, ICE / COOL, OTHER: DATE, TIME

Relinquished By: Kim Wilson
Date: 4/20/16
Time: 9:25 AM
Received By: Bob Jones
Date: 4/20/16
Time: 9:15 AM
Sample Condition: Cool, Intact, Yes
Checked By: Bob Jones
Phone Result: Yes
Fax Result: Yes
Add'l Phone #:
Add'l Fax #:
REMARKS:

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:
Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

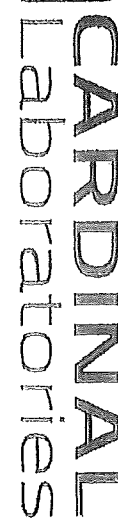
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Page 2 of 3

Company Name: Talon/PE		P.O. #:		ANALYSIS REQUEST																					
Project Manager: Kim Wilson		Company: Talon/PE																							
Address: 408 W. Texas Ave.		Attn:																							
City: Artesia		Address:																							
Phone #: 575-746-8768		City:																							
Fax #: 575-746-8905		State:																							
Project #: 701047162.01		Zip:																							
Project Name: State GP #5																									
Project Location: Eddy City																									
Sample Name: Kim Wilson																									
FOR LAB USE ONLY		Fax #:																							
Lab I.D.	Sample I.D.	(C)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING																
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME											
4400850	11	5-2 1'	6										4/19/16		TPH										
	12	5-2 2'	6												BTEX										
	13	5-2 3'	6																						
	14	5-2 4'	6																						
	15	5-2 5'	6																						
	16	5-2 7'	6																						
	17	5-2 9'	6																						
	18	5-2 11'	6																						
	19	5-2 12'	6																						
	20	5-3 2'	6																						
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Relinquished By: Kim Wilson		Date: 4/20/16		Received By: Bob Henderson		Time: 1:35		Time: 4:15		Sample Condition		Checked By: (initials)		REMARKS:											
Relinquished By:		Date:		Received By:		Time:		Time:		Cool Intact		Checked By:		Phone Result: Yes No Add'l Phone #:											
Delivered By: (Circle One)		Date:		Received By:		Time:		Time:		Cool Intact		Checked By:		Fax Result: Yes No Add'l Fax #:											
Sample - UPS - Bus - Other:		2.26																							

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

#54



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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[illegible]