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Soil Assessment and Remediation Work Plan

NB Tween State #1 * 30-015-35915 * 2RP-3511

Talon Project No. 700745.053.01

Prepared For:

Apache Corporation
2350 W Marland Blvd
Hobbs, New Mexico 88240

Prepared By:

Kimberly M. Wilson
Talon/LPE
408 West Texas
Artesia, New Mexico 88210

June 12, 2016

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

Subject: **Soil Assessment and Remediation Work Plan**
Apache Corporation
NB Tween State #1 Battery
API # 30-015-35915 2RP-3511

Dear Mr. Bratcher,

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

Incident Date

December 28, 2015

Site Information

The NB Tween State #1 is located approximately sixteen (16) miles east of Artesia, New Mexico. The legal location for this site is Unit Letter H of Section 25, Township 17 South, and Range 28 East in Eddy County, New Mexico. More specifically the latitude and longitude for the location are 32.807655 North and -104.12471 West. See site plan in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service (NRCS), the soil in this area is made up of Simona gravelly fine sandy loam with 0 to 3 percent slopes. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

According to the Chevron Texaco Groundwater Trend Map, has the ground water in this area is approximately 175-feet below ground surface (BGS). See [Appendix II](#). 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

The gasket on the heater treater failed resulting in 50 barrels of oil and 70 barrels of produced water to be released on the location. The wells were shut in. No fluids were recovered due to inclement weather. The roads were impassable for a vac truck to make it to location due to the snow. All fluid was contained on location. A site plan is presented in [Appendix I](#) which illustrates the impacted area.

On January 26, 2016 Talon mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. Grab soil samples were collected utilizing a backhoe to a depth of 6-feet below ground surface. Laboratory results are presented below in [Table 1](#).

Talon returned to the site with a backhoe for further vertical delineation of the impacted area as directed by the NMOCD. Vertical delineation sampling was carried out on May 3, 2016. Laboratory results are presented below in [Table 2](#).

Laboratory Results

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

February 2, 2016

Table 1

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0'	<0.300	1020	<10	15.5
	1'	<0.300	416	<10	<10
	2'	<0.300	192	<10	<10
	3'	<0.300	304	<10	19.7
	4'	<0.300	240	<10	<10
S-2	0'	108	80	1600	7640
	1'	2.25	416	16.7	239
	2'	<0.300	592	<10	<10
	3'	<0.300	2880	<10	<10
	4'	0.541	1570	<10	197
S-3	0'	0.870	384	36.0	1830
	1'	<0.300	4800	<10	15.0
	2'	<0.300	1490	<10	<10
	3'	<0.300	1600	<10	168
S-4	0'	<0.300	3280	31.3	937
	1'	<0.300	2560	<10	178
	2'	<0.300	80	<10	<10
	3'	<0.300	256	<10	<10
	4'	<0.300	32	<10	<10
	6'	<0.300	<16	<10	<10

S-5	0'	834	688	8510	15900
	1'	60.1	1040	1730	3440
Refusal	1.5'	124	480	1120	2650
S-6	0'	175	352	2190	12300
	1'	123	6260	831	2500
	2'	410	768	5080	8560
	3'	33.8	704	423	1040
	4'	27.1	464	307	1440

May 18, 2016

Table 2

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-2	5'	--	592	--	--
	6'	--	272	--	--
	7'	--	288	--	--
S-3	4'	--	272	--	--
	5'	--	352	--	--
S-7	0'	85.7	17600	1130	8020
Refusal	0.75'	293	6960	2330	2600

--Analyte Not Tested

Conclusions and Proposed Remedial Actions


- Ground water in the project vicinity is greater than 175-feet deep below land surface according to the Chevron/Texaco water trend map.
- The impacted area in the vicinity of sample location S-2 will be excavated to a depth of 0.5-foot deep and the impacted areas near sample points S-3 and S-4 will be excavated to a depth of 1-foot deep.
- The hydrocarbon impacted areas in the separator battery at sample locations S-5, S6 and S-7 will be hand excavated to the best extent reasonable, feasible and as safely as possible around the steel flow lines and with regard to the structural integrity of the equipment within the battery.
- The excavated area within the separator battery will be treated with both high nitrogen fertilizer and mircoblaze, a bioremediation agent.
- On behalf of Apache Corporation, we respectfully request deferent of further remediation within the separator battery until facility closure.
- All contaminated soil will be transported to Lea Land, LLC, a NMOCD approved disposal facility.


- The excavated areas on the location and in the separator battery will be backfilled with new caliche. Once the backfill activities are complete the work areas will be compacted and contoured to match the surrounding location.
- A final closure report documenting all remedial actions will be provided to the NMOCD Artesia Office along with a Final C-141 Form.

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

Respectfully submitted,

TALON/LPE


Kimberly M. Wilson
Project Manager


David J. Adkins
District Manager

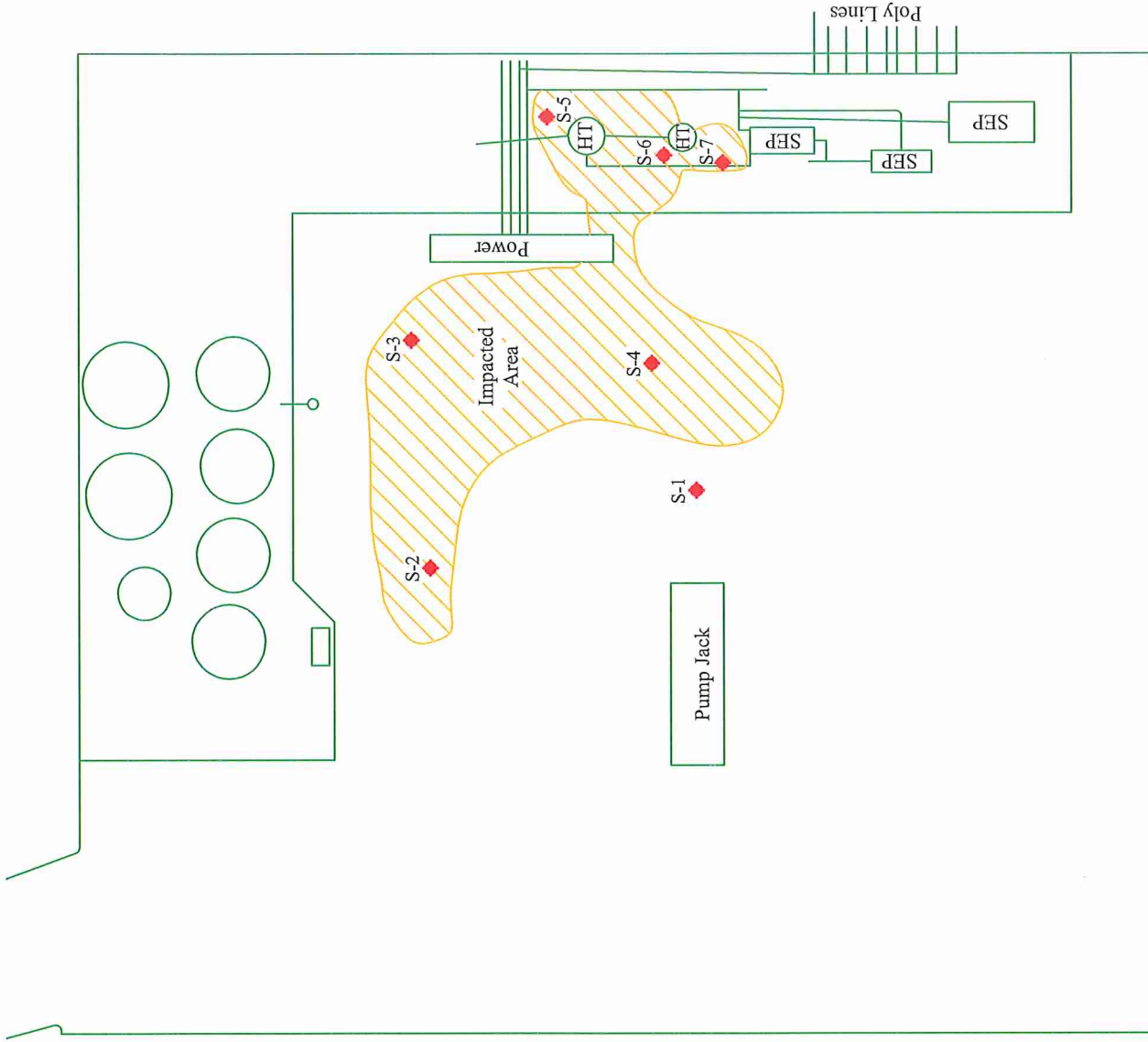
Attachments:

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

APPENDIX I
SITE MAP



Legend
- Sample Location



NBTween St #1
Apache Corporation
Eddy County, New Mexico
Figure 1 - Site Plan

Date: 06/08/2016

Scale: 1" = 40'

Drawn By: TJS



APPENDIX II
GROUNDWATER DATA
INITIAL C-141

17S28E

77

75

100

100

100

101

200



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

NAB1602527566 **813** **OPERATOR** ☒ Initial Report ☐ Final Report

Name of Company: Apache Corporation	Contact: Bruce Baker
Address: 2350 W Marland Blvd Hobbs, NM 88240	Telephone No. (432) 631-6982
Facility Name: NB Tween Battery	Facility Type: Battery

Surface Owner State	Mineral Owner	API No. 30-015-35915
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	25	17S	28E	2310'	FNL	990'	FEL	Eddy

Latitude N32.8076553 Longitude W104.1247177

NATURE OF RELEASE

Type of Release: Oil and produced water	Volume of Release: 50 barrels of oil and 70 barrels of water	Volume Recovered: 0
Source of Release: Heater Treater	Date and Hour of Occurrence: 12/28/2015	Date and Hour of Discovery: 12/28/2015
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Heather Patterson (NMOCD)	
By Whom? Bruce Baker	Date and Hour: 12/28/2015 *4:08 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. *per final attached	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

The gasket on fire tube failed resulting in the loss. The wells were shut in but due to the heavy snowfall could not get vacuum truck to location to pick-up standing fluid.

Describe Area Affected and Cleanup Action Taken.*

The entire release was contained to the berm facility and lease pad.

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>Bruce Baker</u>		OIL CONSERVATION DIVISION	
Printed Name: Bruce Baker		Approved by Environmental Specialist: <u>[Signature]</u>	
Title: Environmental Technician		Approval Date: <u>1/25/16</u>	Expiration Date: <u>NIA</u>
E-mail Address: <u>larry.baker@apachecorp.com</u>		Conditions of Approval: <u>Remediation per O.C.D. Rules & Guidelines</u> <input checked="" type="checkbox"/> <u>checked</u> <input type="checkbox"/>	
Date: <u>1/22/2016</u> Phone: (432) 631-6982		SUBMIT REMEDIATION PROPOSAL NO <u>225116</u>	

* Attach Additional Sheets If Necessary

LATER THAN: 2/25/16

2RP-3511

Kimberly M. Wilson

From: Patterson, Heather, EMNRD [Heather.Patterson@state.nm.us]
Sent: Wednesday, April 27, 2016 9:36 AM
To: Kimberly M. Wilson
Cc: Larry.Baker@apachecorp.com; David Adkins; Bratcher, Mike, EMNRD; agroves@slo.state.nm.us
Subject: RE: N B Tween State #1 Battery * 30-015-35915 * 2RP-3511 * DOR: 12/28/2015
Attachments: 4.image.pdf

RE: Apache Corp. * NB Tween State #1 Battery * 30-015-35915 * 2RP-3511

Kimberly,

Your work plan for the above listed release cannot be approved at this time. The OCD will need to see the areas of S-2 and S-3 vertically defined before excavation depths can be approved. In addition, we will need to see a cleanup proposal in the battery (S-5, S-6) that addresses the high hydrocarbon numbers seen at the surface. Please note, Google Earth imaging indicates the contamination extended further south in the battery. The OCD would like to see one more sample taken south of S-6, between the treater and the separator.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notification, please contact me.

Heather Patterson
Environmental Specialist
NMOCD District II
Office (575)748-1283 ext.101
Cell (575)703-0228

From: Kimberly M. Wilson [<mailto:kwilson@talonlpe.com>]
Sent: Friday, April 15, 2016 8:51 AM
To: Bratcher, Mike, EMNRD
Cc: Patterson, Heather, EMNRD; Larry.Baker@apachecorp.com; David Adkins
Subject: N B Tween State #1 Battery * 30-015-35915 * 2RP-3511 * DOR: 12/28/2015

Apache: N B Tween State #1 Battery * 30-015-35915 * 2RP-3511 * DOR: 12/28/2015

Good morning,

Attached please find the work plan for the above referenced location. If you have any questions or concerns please feel free to contact me. Thank you.

Respectfully submitted,

Kimberly M. Wilson
Project Manager
Office: 575.746.8768
Direct: 575.616.4023
Cell: 575.602.3826
Fax: 575.746.8905

APPENDIX III

LABORATORY RESULTS

February 02, 2016

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: NBTWEEN ST #1

Enclosed are the results of analyses for samples received by the laboratory on 01/27/16 8:50.

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: 01/27/2016
Reported: 02/02/2016
Project Name: NBTWEEN ST #1
Project Number: 70074505301
Project Location: EDDY COUNTY, NM

Sampling Date: 01/26/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 0' (H600187-01)

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	01/29/2016	ND	2.13	106	2.00	1.33	
Toluene*	<0.050	0.050	01/29/2016	ND	2.07	104	2.00	0.869	
Ethylbenzene*	<0.050	0.050	01/29/2016	ND	1.88	94.1	2.00	0.807	
Total Xylenes*	<0.150	0.150	01/29/2016	ND	5.65	94.2	6.00	0.907	
Total BTX	<0.300	0.300	01/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 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	1020	16.0	01/29/2016	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/28/2016	ND	206	103	200	0.896	
DRO >C10-C28	15.5	10.0	01/28/2016	ND	204	102	200	1.18	

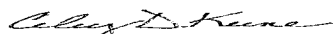
Surrogate: 1-Chlorooctane 65.9 % 35-147

Surrogate: 1-Chlorooctadecane 59.3 % 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: 01/27/2016
Reported: 02/02/2016
Project Name: NBTWEEN ST #1
Project Number: 70074505301
Project Location: EDDY COUNTY, NM

Sampling Date: 01/26/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 1' (H600187-02)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2016	ND	2.13	106	2.00	1.33	
Toluene*	<0.050	0.050	01/29/2016	ND	2.07	104	2.00	0.869	
Ethylbenzene*	<0.050	0.050	01/29/2016	ND	1.88	94.1	2.00	0.807	
Total Xylenes*	<0.150	0.150	01/29/2016	ND	5.65	94.2	6.00	0.907	
Total BTEX	<0.300	0.300	01/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 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	416	16.0	01/29/2016	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/28/2016	ND	206	103	200	0.896	
DRO >C10-C28	<10.0	10.0	01/28/2016	ND	204	102	200	1.18	

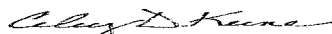
Surrogate: 1-Chlorooctane 79.9 % 35-147

Surrogate: 1-Chlorooctadecane 78.2 % 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: 01/27/2016
 Reported: 02/02/2016
 Project Name: NBTWEEN ST #1
 Project Number: 70074505301
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/26/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 2' (H600187-03)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2016	ND	2.14	107	2.00	0.513	
Toluene*	<0.050	0.050	01/29/2016	ND	2.08	104	2.00	0.261	
Ethylbenzene*	<0.050	0.050	01/29/2016	ND	1.89	94.6	2.00	0.415	
Total Xylenes*	<0.150	0.150	01/29/2016	ND	5.67	94.5	6.00	0.693	
Total BTX	<0.300	0.300	01/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 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	192	16.0	01/29/2016	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/28/2016	ND	206	103	200	0.896	
DRO >C10-C28	<10.0	10.0	01/28/2016	ND	204	102	200	1.18	

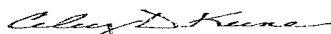
Surrogate: 1-Chlorooctane 77.3 % 35-147

Surrogate: 1-Chlorooctadecane 74.1 % 28-171

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 01/27/2016
 Reported: 02/02/2016
 Project Name: NBTWEEN ST #1
 Project Number: 70074505301
 Project Location: EDDY COUNTY, NM

Sampling Date: 01/26/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 3' (H600187-04)

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	01/29/2016	ND	2.14	107	2.00	0.513	
Toluene*	<0.050	0.050	01/29/2016	ND	2.08	104	2.00	0.261	
Ethylbenzene*	<0.050	0.050	01/29/2016	ND	1.89	94.6	2.00	0.415	
Total Xylenes*	<0.150	0.150	01/29/2016	ND	5.67	94.5	6.00	0.693	
Total BTEX	<0.300	0.300	01/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 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	304	16.0	01/29/2016	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/28/2016	ND	206	103	200	0.896	
DRO >C10-C28	19.7	10.0	01/28/2016	ND	204	102	200	1.18	

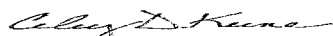
Surrogate: 1-Chlorooctane 77.2 % 35-147

Surrogate: 1-Chlorooctadecane 72.7 % 28-171

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 Fax To: (575) 745-8905

 Received: 01/27/2016
 Reported: 02/02/2016
 Project Name: NBTWEEN ST #1
 Project Number: 70074505301
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/26/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 4' (H600187-05)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2016	ND	2.14	107	2.00	0.513	
Toluene*	<0.050	0.050	01/29/2016	ND	2.08	104	2.00	0.261	
Ethylbenzene*	<0.050	0.050	01/29/2016	ND	1.89	94.6	2.00	0.415	
Total Xylenes*	<0.150	0.150	01/29/2016	ND	5.67	94.5	6.00	0.693	
Total BTX	<0.300	0.300	01/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PI) 101 % 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	240	16.0	01/29/2016	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/28/2016	ND	206	103	200	0.896	
DRO >C10-C28	<10.0	10.0	01/28/2016	ND	204	102	200	1.18	

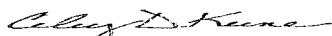
Surrogate: 1-Chlorooctane 71.0 % 35-147

Surrogate: 1-Chlorooctadecane 61.8 % 28-171

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*=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: 01/27/2016
 Reported: 02/02/2016
 Project Name: NBTWEEN ST #1
 Project Number: 70074505301
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/26/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-2 0' (H600187-06)

BTX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.857	0.500	01/29/2016	ND	2.14	107	2.00	0.513	
Toluene*	25.0	0.500	01/29/2016	ND	2.08	104	2.00	0.261	
Ethylbenzene*	27.7	0.500	01/29/2016	ND	1.89	94.6	2.00	0.415	
Total Xylenes*	54.2	1.50	01/29/2016	ND	5.67	94.5	6.00	0.693	
Total BTX	108	3.00	01/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 113 % 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	01/29/2016	ND	416	104	400	3.92	

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	1600	50.0	01/28/2016	ND	206	103	200	0.896		
DRO >C10-C28	7640	50.0	01/28/2016	ND	204	102	200	1.18		

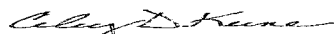
Surrogate: 1-Chlorooctane 202 % 35-147

Surrogate: 1-Chlorooctadecane 160 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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Received: 01/27/2016
Reported: 02/02/2016
Project Name: NBTWEEN ST #1
Project Number: 70074505301
Project Location: EDDY COUNTY, NM

Sampling Date: 01/26/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 1' (H600187-07)

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	01/29/2016	ND	2.14	107	2.00	0.513	
Toluene*	0.410	0.050	01/29/2016	ND	2.08	104	2.00	0.261	
Ethylbenzene*	0.552	0.050	01/29/2016	ND	1.89	94.6	2.00	0.415	
Total Xylenes*	1.29	0.150	01/29/2016	ND	5.67	94.5	6.00	0.693	
Total BTEX	2.25	0.300	01/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 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	416	16.0	01/29/2016	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	16.7	10.0	01/28/2016	ND	206	103	200	0.896	
DRO >C10-C28	239	10.0	01/28/2016	ND	204	102	200	1.18	

Surrogate: 1-Chlorooctane 85.1 % 35-147

Surrogate: 1-Chlorooctadecane 80.2 % 28-171

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Received: 01/27/2016
Reported: 02/02/2016
Project Name: NBTWEEN ST #1
Project Number: 70074505301
Project Location: EDDY COUNTY, NM

Sampling Date: 01/26/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 2' (H600187-08)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2016	ND	2.14	107	2.00	0.513	
Toluene*	<0.050	0.050	01/29/2016	ND	2.08	104	2.00	0.261	
Ethylbenzene*	<0.050	0.050	01/29/2016	ND	1.89	94.6	2.00	0.415	
Total Xylenes*	<0.150	0.150	01/29/2016	ND	5.67	94.5	6.00	0.693	
Total BTX	<0.300	0.300	01/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PII) 105 % 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	592	16.0	01/29/2016	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/28/2016	ND	206	103	200	0.896	
DRO >C10-C28	<10.0	10.0	01/28/2016	ND	204	102	200	1.18	

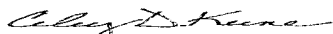
Surrogate: 1-Chlorooctane 79.8 % 35-147

Surrogate: 1-Chlorooctadecane 70.8 % 28-171

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Received: 01/27/2016
Reported: 02/02/2016
Project Name: NBTWEEN ST #1
Project Number: 70074505301
Project Location: EDDY COUNTY, NM

Sampling Date: 01/26/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 3' (H600187-09)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2016	ND	2.14	107	2.00	0.513	
Toluene*	<0.050	0.050	01/29/2016	ND	2.08	104	2.00	0.261	
Ethylbenzene*	<0.050	0.050	01/29/2016	ND	1.89	94.6	2.00	0.415	
Total Xylenes*	<0.150	0.150	01/29/2016	ND	5.67	94.5	6.00	0.693	
Total BTX	<0.300	0.300	01/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 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	2880	16.0	01/29/2016	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/28/2016	ND	206	103	200	0.896	
DRO >C10-C28	<10.0	10.0	01/28/2016	ND	204	102	200	1.18	

Surrogate: 1-Chlorooctane 83.3 % 35-147

Surrogate: 1-Chlorooctadecane 83.0 % 28-171

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Received: 01/27/2016
Reported: 02/02/2016
Project Name: NBTWEEN ST #1
Project Number: 70074505301
Project Location: EDDY COUNTY, NM

Sampling Date: 01/26/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 4' (H600187-10)

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	01/29/2016	ND	2.14	107	2.00	0.513	
Toluene*	0.080	0.050	01/29/2016	ND	2.08	104	2.00	0.261	
Ethylbenzene*	0.127	0.050	01/29/2016	ND	1.89	94.6	2.00	0.415	
Total Xylenes*	0.334	0.150	01/29/2016	ND	5.67	94.5	6.00	0.693	
Total BTEX	0.541	0.300	01/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 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	1570	16.0	01/29/2016	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/28/2016	ND	206	103	200	0.896	
DRO >C10-C28	197	10.0	01/28/2016	ND	204	102	200	1.18	

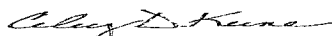
Surrogate: 1-Chlorooctane 81.4 % 35-147

Surrogate: 1-Chlorooctadecane 75.2 % 28-171

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Analytical Results For:

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

 Received: 01/27/2016
 Reported: 02/02/2016
 Project Name: NBTWEEN ST #1
 Project Number: 70074505301
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/26/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-3 0' (H600187-11)

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	01/29/2016	ND	2.14	107	2.00	0.513		
Toluene*	0.079	0.050	01/29/2016	ND	2.08	104	2.00	0.261		
Ethylbenzene*	0.231	0.050	01/29/2016	ND	1.89	94.6	2.00	0.415		
Total Xylenes*	0.560	0.150	01/29/2016	ND	5.67	94.5	6.00	0.693		
Total BTEX	0.870	0.300	01/29/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 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	384	16.0	01/29/2016	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	36.0	10.0	01/28/2016	ND	187	93.7	200	2.96		
DRO >C10-C28	1830	10.0	01/28/2016	ND	185	92.4	200	0.422		

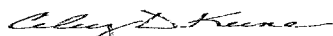
Surrogate: 1-Chlorooctane 83.2 % 35-147

Surrogate: 1-Chlorooctadecane 86.8 % 28-171

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Analytical Results For:

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 Fax To: (575) 745-8905

 Received: 01/27/2016
 Reported: 02/02/2016
 Project Name: NBTWEEN ST #1
 Project Number: 70074505301
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/26/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-3 1' (H600187-12)

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	01/29/2016	ND	2.14	107	2.00	0.513			
Toluene*	<0.050	0.050	01/29/2016	ND	2.08	104	2.00	0.261			
Ethylbenzene*	<0.050	0.050	01/29/2016	ND	1.89	94.6	2.00	0.415			
Total Xylenes*	<0.150	0.150	01/29/2016	ND	5.67	94.5	6.00	0.693			
Total BTX	<0.300	0.300	01/29/2016	ND							

Surrogate: 4-Bromofluorobenzene (PII) 103 % 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	4800	16.0	01/29/2016	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/28/2016	ND	187	93.7	200	2.96	
DRO >C10-C28	15.0	10.0	01/28/2016	ND	185	92.4	200	0.422	

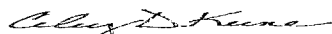
Surrogate: 1-Chlorooctane 70.1 % 35-147

Surrogate: 1-Chlorooctadecane 69.8 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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 Fax To: (575) 745-8905

 Received: 01/27/2016
 Reported: 02/02/2016
 Project Name: NBTWEEN ST #1
 Project Number: 70074505301
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/26/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-3 2' (H600187-13)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2016	ND	2.14	107	2.00	0.513	
Toluene*	<0.050	0.050	01/29/2016	ND	2.08	104	2.00	0.261	
Ethylbenzene*	<0.050	0.050	01/29/2016	ND	1.89	94.6	2.00	0.415	
Total Xylenes*	<0.150	0.150	01/29/2016	ND	5.67	94.5	6.00	0.693	
Total BTX	<0.300	0.300	01/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 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	1490	16.0	01/29/2016	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/28/2016	ND	187	93.7	200	2.96	
DRO >C10-C28	<10.0	10.0	01/28/2016	ND	185	92.4	200	0.422	

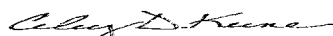
Surrogate: 1-Chlorooctane 72.1 % 35-147

Surrogate: 1-Chlorooctadecane 75.5 % 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: 01/27/2016
 Reported: 02/02/2016
 Project Name: NBTWEEN ST #1
 Project Number: 70074505301
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/26/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-3 3' (H600187-14)

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	01/29/2016	ND	2.14	107	2.00	0.513	
Toluene*	<0.050	0.050	01/29/2016	ND	2.08	104	2.00	0.261	
Ethylbenzene*	<0.050	0.050	01/29/2016	ND	1.89	94.6	2.00	0.415	
Total Xylenes*	<0.150	0.150	01/29/2016	ND	5.67	94.5	6.00	0.693	
Total BTEx	<0.300	0.300	01/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 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	1600	16.0	01/29/2016	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/28/2016	ND	187	93.7	200	2.96	
DRO >C10-C28	168	10.0	01/28/2016	ND	185	92.4	200	0.422	

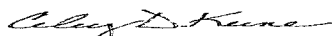
Surrogate: 1-Chlorooctane 81.6 % 35-147

Surrogate: 1-Chlorooctadecane 82.5 % 28-171

Cardinal Laboratories

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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: 01/27/2016
 Reported: 02/02/2016
 Project Name: NBTWEEN ST #1
 Project Number: 70074505301
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/26/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-4 0' (H600187-15)

BTX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/29/2016	ND	2.14	107	2.00	0.513		
Toluene*	<0.050	0.050	01/29/2016	ND	2.08	104	2.00	0.261		
Ethylbenzene*	0.054	0.050	01/29/2016	ND	1.89	94.6	2.00	0.415		
Total Xylenes*	<0.150	0.150	01/29/2016	ND	5.67	94.5	6.00	0.693		
Total BTEX	<0.300	0.300	01/29/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 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	3280	16.0	01/29/2016	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	31.3	10.0	01/28/2016	ND	187	93.7	200	2.96		
DRO >C10-C28	937	10.0	01/28/2016	ND	185	92.4	200	0.422		

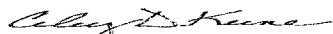
Surrogate: 1-Chlorooctane 80.3 % 35-147

Surrogate: 1-Chlorooctadecane 83.0 % 28-171

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*—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: 01/27/2016
 Reported: 02/02/2016
 Project Name: NBTWEEN ST #1
 Project Number: 70074505301
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/26/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-4 1' (H600187-16)

BTEx 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2016	ND	2.14	107	2.00	0.513	
Toluene*	<0.050	0.050	01/29/2016	ND	2.08	104	2.00	0.261	
Ethylbenzene*	<0.050	0.050	01/29/2016	ND	1.89	94.6	2.00	0.415	
Total Xylenes*	<0.150	0.150	01/29/2016	ND	5.67	94.5	6.00	0.693	
Total BTEx	<0.300	0.300	01/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 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	2560	16.0	01/29/2016	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/28/2016	ND	187	93.7	200	2.96	
DRO >C10-C28	178	10.0	01/28/2016	ND	185	92.4	200	0.422	

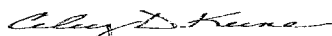
Surrogate: 1-Chlorooctane 75.6 % 35-147

Surrogate: 1-Chlorooctadecane 78.6 % 28-171

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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: 01/27/2016
 Reported: 02/02/2016
 Project Name: NBTWEEN ST #1
 Project Number: 70074505301
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/26/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-4 2' (H600187-17)

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	01/29/2016	ND	2.14	107	2.00	0.513			
Toluene*	<0.050	0.050	01/29/2016	ND	2.08	104	2.00	0.261			
Ethylbenzene*	<0.050	0.050	01/29/2016	ND	1.89	94.6	2.00	0.415			
Total Xylenes*	<0.150	0.150	01/29/2016	ND	5.67	94.5	6.00	0.693			
Total BTEX	<0.300	0.300	01/29/2016	ND							

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 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	01/29/2016	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/28/2016	ND	187	93.7	200	2.96	
DRO >C10-C28	<10.0	10.0	01/28/2016	ND	185	92.4	200	0.422	

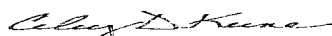
Surrogate: 1-Chlorooctane 70.7 % 35-147

Surrogate: 1-Chlorooctadecane 73.9 % 28-171

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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: 01/27/2016
Reported: 02/02/2016
Project Name: NBTWEEN ST #1
Project Number: 70074505301
Project Location: EDDY COUNTY, NM

Sampling Date: 01/26/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-4 3' (H600187-18)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2016	ND	2.14	107	2.00	0.513	
Toluene*	<0.050	0.050	01/29/2016	ND	2.08	104	2.00	0.261	
Ethylbenzene*	<0.050	0.050	01/29/2016	ND	1.89	94.6	2.00	0.415	
Total Xylenes*	<0.150	0.150	01/29/2016	ND	5.67	94.5	6.00	0.693	
Total BTX	<0.300	0.300	01/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PII) 102 % 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	256	16.0	01/29/2016	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/28/2016	ND	187	93.7	200	2.96	
DRO >C10-C28	<10.0	10.0	01/28/2016	ND	185	92.4	200	0.422	

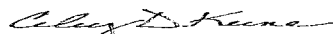
Surrogate: 1-Chlorooctane 70.4 % 35-147

Surrogate: 1-Chlorooctadecane 74.3 % 28-171

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*=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: 01/27/2016
 Reported: 02/02/2016
 Project Name: NBTWEEN ST #1
 Project Number: 70074505301
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/26/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-4 4' (H600187-19)

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	01/29/2016	ND	2.14	107	2.00	0.513		
Toluene*	<0.050	0.050	01/29/2016	ND	2.08	104	2.00	0.261		
Ethylbenzene*	<0.050	0.050	01/29/2016	ND	1.89	94.6	2.00	0.415		
Total Xylenes*	<0.150	0.150	01/29/2016	ND	5.67	94.5	6.00	0.693		
Total BTEx	<0.300	0.300	01/29/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 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	32.0	16.0	01/29/2016	ND	416	104	400	3.92		

TPH 8015M			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/28/2016	ND	187	93.7	200	2.96		
DRO >C10-C28	<10.0	10.0	01/28/2016	ND	185	92.4	200	0.422		

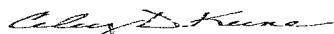
Surrogate: 1-Chlorooctane 74.2 % 35-147

Surrogate: 1-Chlorooctadecane 75.8 % 28-171

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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: 01/27/2016
 Reported: 02/02/2016
 Project Name: NBTWEEN ST #1
 Project Number: 70074505301
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/26/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-4 6' (H600187-20)

BTX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/29/2016	ND	2.14	107	2.00	0.513		
Toluene*	<0.050	0.050	01/29/2016	ND	2.08	104	2.00	0.261		
Ethylbenzene*	<0.050	0.050	01/29/2016	ND	1.89	94.6	2.00	0.415		
Total Xylenes*	<0.150	0.150	01/29/2016	ND	5.67	94.5	6.00	0.693		
Total BTX	<0.300	0.300	01/29/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 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	<16.0	16.0	01/28/2016	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/28/2016	ND	187	93.7	200	2.96		
DRO >C10-C28	<10.0	10.0	01/28/2016	ND	185	92.4	200	0.422		

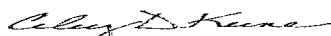
Surrogate: 1-Chlorooctane 62.3 % 35-147

Surrogate: 1-Chlorooctadecane 64.9 % 28-171

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* = Accredited Analyte

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Analytical Results For:

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

Received: 01/27/2016
 Reported: 02/02/2016
 Project Name: NBTWEEN ST #1
 Project Number: 70074505301
 Project Location: EDDY COUNTY, NM

Sampling Date: 01/26/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-5 0' (H600187-21)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	75.0	5.00	01/29/2016	ND	2.14	107	2.00	0.513	
Toluene*	333	5.00	01/29/2016	ND	2.08	104	2.00	0.261	
Ethylbenzene*	162	5.00	01/29/2016	ND	1.89	94.6	2.00	0.415	
Total Xylenes*	264	15.0	01/29/2016	ND	5.67	94.5	6.00	0.693	
Total BTEX	834	30.0	01/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 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	688	16.0	01/28/2016	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	8510	100	01/28/2016	ND	187	93.7	200	2.96		
DRO >C10-C28	15900	100	01/28/2016	ND	185	92.4	200	0.422		

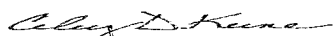
Surrogate: 1-Chlorooctane 199 % 35-147

Surrogate: 1-Chlorooctadecane 329 % 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: 01/27/2016
 Reported: 02/02/2016
 Project Name: NBTWEEN ST #1
 Project Number: 70074505301
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/26/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-5 1' (H600187-22)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.75	1.00	01/29/2016	ND	2.14	107	2.00	0.513	
Toluene*	20.2	1.00	01/29/2016	ND	2.08	104	2.00	0.261	
Ethylbenzene*	13.2	1.00	01/29/2016	ND	1.89	94.6	2.00	0.415	
Total Xylenes*	23.9	3.00	01/29/2016	ND	5.67	94.5	6.00	0.693	
Total BTEX	60.1	6.00	01/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 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	1040	16.0	01/28/2016	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	1730	10.0	01/28/2016	ND	187	93.7	200	2.96	
DRO >C10-C28	3440	10.0	01/28/2016	ND	185	92.4	200	0.422	

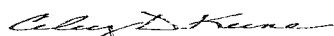
Surrogate: 1-Chlorooctane 110 % 35-147

Surrogate: 1-Chlorooctadecane 109 % 28-171

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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: 01/27/2016
 Reported: 02/02/2016
 Project Name: NBTWEEN ST #1
 Project Number: 70074505301
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/26/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-5 1.5' (R) (H600187-23)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	6.60	0.500	01/29/2016	ND	1.89	94.6	2.00	3.12	
Toluene*	42.5	0.500	01/29/2016	ND	1.84	92.0	2.00	2.27	
Ethylbenzene*	27.1	0.500	01/29/2016	ND	1.66	83.2	2.00	1.15	
Total Xylenes*	47.9	1.50	01/29/2016	ND	5.12	85.3	6.00	0.948	
Total BTEX	124	3.00	01/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 111 % 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	480	16.0	01/28/2016	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	1120	10.0	01/28/2016	ND	187	93.7	200	2.96	
DRO >C10-C28	2650	10.0	01/28/2016	ND	185	92.4	200	0.422	

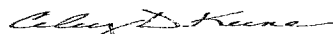
Surrogate: 1-Chlorooctane 135 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

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Analytical Results For:

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

Received: 01/27/2016
Reported: 02/02/2016
Project Name: NBTWEEN ST #1
Project Number: 70074505301
Project Location: EDDY COUNTY, NM

Sampling Date: 01/26/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-6 0' (H600187-24)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.25	1.00	01/29/2016	ND	1.89	94.6	2.00	3.12	
Toluene*	46.2	1.00	01/29/2016	ND	1.84	92.0	2.00	2.27	
Ethylbenzene*	42.2	1.00	01/29/2016	ND	1.66	83.2	2.00	1.15	
Total Xylenes*	82.6	3.00	01/29/2016	ND	5.12	85.3	6.00	0.948	
Total BTEX	175	6.00	01/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PII) 109 % 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	352	16.0	01/28/2016	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	2190	100	01/28/2016	ND	187	93.7	200	2.96		
DRO >C10-C28	12300	100	01/28/2016	ND	185	92.4	200	0.422		

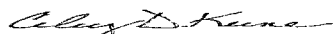
Surrogate: 1-Chlorooctane 151 % 35-147

Surrogate: 1-Chlorooctadecane 274 % 28-171

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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: 01/27/2016
 Reported: 02/02/2016
 Project Name: NBTWEEN ST #1
 Project Number: 70074505301
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/26/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-6 1' (H600187-25)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	7.25	0.500	01/29/2016	ND	1.89	94.6	2.00	3.12	
Toluene*	42.5	0.500	01/29/2016	ND	1.84	92.0	2.00	2.27	
Ethylbenzene*	26.7	0.500	01/29/2016	ND	1.66	83.2	2.00	1.15	
Total Xylenes*	46.4	1.50	01/29/2016	ND	5.12	85.3	6.00	0.948	
Total BTEX	123	3.00	01/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 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	6260	16.0	01/28/2016	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	831	10.0	01/28/2016	ND	187	93.7	200	2.96	
DRO >C10-C28	2500	10.0	01/28/2016	ND	185	92.4	200	0.422	

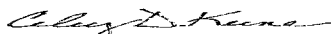
Surrogate: 1-Chlorooctane 119 % 35-147

Surrogate: 1-Chlorooctadecane 97.0 % 28-171

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Analytical Results For:

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

 Received: 01/27/2016
 Reported: 02/02/2016
 Project Name: NBTWEEN ST #1
 Project Number: 70074505301
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/26/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-6 2' (H600187-26)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	30.8	2.00	01/29/2016	ND	1.89	94.6	2.00	3.12	
Toluene*	152	2.00	01/29/2016	ND	1.84	92.0	2.00	2.27	
Ethylbenzene*	84.0	2.00	01/29/2016	ND	1.66	83.2	2.00	1.15	
Total Xylenes*	143	6.00	01/29/2016	ND	5.12	85.3	6.00	0.948	
Total BTEX	410	12.0	01/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 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	768	16.0	01/28/2016	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	5080	50.0	01/28/2016	ND	189	94.4	200	7.71		
DRO >C10-C28	8560	50.0	01/28/2016	ND	188	93.8	200	5.88		

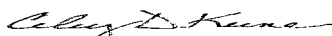
Surrogate: 1-Chlorooctane 158 % 35-147

Surrogate: 1-Chlorooctadecane 155 % 28-171

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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: 01/27/2016
 Reported: 02/02/2016
 Project Name: NBTWEEN ST #1
 Project Number: 70074505301
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/26/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-6 3' (H600187-27)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.15	0.200	01/29/2016	ND	1.89	94.6	2.00	3.12	
Toluene*	10.3	0.200	01/29/2016	ND	1.84	92.0	2.00	2.27	
Ethylbenzene*	7.76	0.200	01/29/2016	ND	1.66	83.2	2.00	1.15	
Total Xylenes*	14.5	0.600	01/29/2016	ND	5.12	85.3	6.00	0.948	
Total BTEX	33.8	1.20	01/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 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	704	16.0	01/28/2016	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	423	10.0	01/28/2016	ND	189	94.4	200	7.71	
DRO >C10-C28	1040	10.0	01/28/2016	ND	188	93.8	200	5.88	

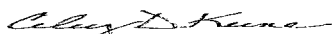
Surrogate: 1-Chlorooctane 94.7 % 35-147

Surrogate: 1-Chlorooctadecane 75.0 % 28-171

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Analytical Results For:

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

 Received: 01/27/2016
 Reported: 02/02/2016
 Project Name: NBTWEEN ST #1
 Project Number: 70074505301
 Project Location: EDDY COUNTY, NM

 Sampling Date: 01/26/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-6 4' (H600187-28)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.698	0.200	01/29/2016	ND	1.89	94.6	2.00	3.12	
Toluene*	7.47	0.200	01/29/2016	ND	1.84	92.0	2.00	2.27	
Ethylbenzene*	6.49	0.200	01/29/2016	ND	1.66	83.2	2.00	1.15	
Total Xylenes*	12.5	0.600	01/29/2016	ND	5.12	85.3	6.00	0.948	
Total BTEX	27.1	1.20	01/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 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	464	16.0	01/28/2016	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	307	10.0	01/28/2016	ND	189	94.4	200	7.71	
DRO >C10-C28	1440	10.0	01/28/2016	ND	188	93.8	200	5.88	

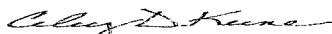
Surrogate: 1-Chlorooctane 96.4 % 35-147

Surrogate: 1-Chlorooctadecane 85.0 % 28-171

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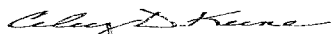
Notes and Definitions

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.
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



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

Page 1 of 3

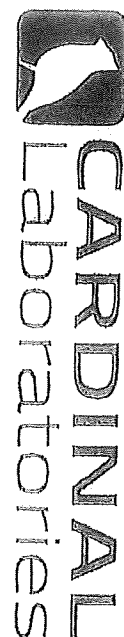
Company Name: Talon/LPE		P.O. #		BIL-70		ANALYSIS REQUEST	
Project Manager: David Adkins		Company: Talon/LPE					
Address: 408 W. Texas Ave.		Attn:					
City: Artesia		State: NM Zip: 88210					
Phone #: 575-746-8768		Fax #: 575-746-8905					
Project #: 70074505301		Project Owner: Apache					
Project Name: NBTween St #1		City:					
Project Location: Eagle City		State:					
Sample Name: Kim Wilson		Phone #:					
FOR LAB USE ONLY		Fax #:					

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV	SAMPLING	DATE	TIME	Chlorides	TPH	BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE							
1	S-1 0'		1											11:45			
2	S-1 1'		1											11:47			
3	S-1 2'		1											11:49			
4	S-1 3'		1											11:51			
5	S-1 4'		1											11:53			
6	S-2 0'		1											12:01			
7	S-2 1'		1											12:04			
8	S-2 2'		1											12:12			
9	S-2 3'		1											12:15			
10	S-2 4'		1											12:18			

PLEASE NOTE: Laboratory and/or sample container labels and/or labels exclusive remedy for any claim arising whether caused in connection with the sample, and the sample is not to be used for any other purpose without the express written consent of the provider. The provider shall not be liable for any damage, loss of time, or other costs whatsoever, including without limitation, business interruption, loss of data, or loss of profits incurred by client, its employees, or others, in connection with the sample, and the sample is not to be used for any other purpose without the express written consent of the provider.

Relinquished By: Kim Wilson	Date:	Received By: Kelly Meadows	Date:
Relinquished By:	Time:	Received By:	Time:
Delivered By: (Circle One)	Time:	Sample Condition	CHECKED BY:
Sampler - UPS - Bus - Other:	Time:	Cool - <input type="checkbox"/> Yes <input type="checkbox"/> No	Initials:
	Time:	Yes <input type="checkbox"/> No <input type="checkbox"/>	
	Time:	Yes <input type="checkbox"/> No <input type="checkbox"/>	

Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
REMARKS:	



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 3

Company Name: Talon/LPE		P.O. #:		ANALYSIS REQUEST	
Project Manager: David Adkins		Company: Talon/LPE			
Address: 408 W. Texas Ave.		Attn:			
City: Artesia		Address:			
Phone #: 575-746-8768		City:			
Fax #: 575-746-8905		State:			
Project #: 10074505301		Zip:			
Project Name: N/B Tweep 54 #1		Phone #:			
Project Location: Eddy Co		Fax #:			
Sampler Name: Kim Wilson					
FOR LAB USE ONLY					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS		
H1000187			GROUNDWATER		
			WASTEWATER		
			SOIL		
			OIL		
			SLUDGE		
			OTHER:		
			ACID/BASE:		
			ICE / COOL		
			OTHER:		
			DATE / TIME		
11	5-3 01		11/26/16 12:30	Chlorides	
12	5-3 11		12:33	TPH	
13	5-3 21		12:35	BTEX	
14	5-3 31		12:38		
15	5-4 01		12:50		
16	5-4 11		1:00		
17	5-4 21		1:07		
18	5-4 31		1:12		
19	5-4 41		1:20		
20	5-4 11		1:30		
PLEASE NOTE: Liability and Sampling Costs are the responsibility of the client. The client is responsible for the collection, handling, and storage of samples. The client is responsible for the collection, handling, and storage of samples. The client is responsible for the collection, handling, and storage of samples.					
Relinquished By: Kim Wilson					
Received By: Rudy Medeiros					
Delivered By: (Circle One) Rudy Medeiros					
Sampler - UPS - Bus - Other: 432					
Sample Condition: Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
CHECKED BY: [Signature]					
REMARKS:					



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Maryland, Hobbs, NM 88240
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Page 3 of 3

Company Name: Talon/LPE		P.O. #:	
Project Manager: David Perkins		Company: Talon/LPE	
Address: 408 W. Texas Ave.		City: Artesia	
State: NM Zip: 88210		Attn:	
Phone #: 575-746-8768		Address:	
Fax #: 575-746-8905		City:	
Project #: 70074505301		State: Zip:	
Project Name: NBTween St #1		Phone #:	
Project Location: Eddy City		Fax #:	
Sampler Name: Kim Wilson			

FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING	
Lab ID.	Sample ID.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL
				SLUDGE	OTHER:	ACID/BASE:	ICE / COOL
				OTHER:			

Lab ID.	Sample ID.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE/ TIME	ANALYSIS REQUEST
H000187	3-5 0'												1/26/16 1:45	Chlorides
21	3-5 0'												1:50	TPH
22	3-5 1'												1:55	BTEX
23	3-5 1.5' (R)												2:05	
24	3-6 0'												2:10	
25	3-6 1'												2:15	
26	3-6 2'												2:20	
27	3-6 3'												2:25	
28	3-6 4'												2:30	

Please Note: Liability and Damages. Customer's liability and damage exclusive remedy for any claim arising within the warranty period is the amount paid by the client for the analysis. All claims involving these items must be filed with the contractor and any other claims involving these items must be filed with the contractor within 90 days after completion of the analysis. In no event shall the contractor be liable for consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to this and the terms of the contract shall be deemed to be the entire agreement between the parties.	
Relinquished By: Kim Wilson	Received By: [Signature]
Date: 1/26/16	Date: 1/26/16
Time: 1:45	Time: 1:45
Delivered By: (Circle One) UPS	Sample Condition: (Circle One) Intact
Sampler - UPS	Checked By: [Signature]
Bus - Other	Remarks: [Blank]

Analytical Results For:

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

Received: 05/04/2016
Reported: 05/18/2016
Project Name: NB TWEEN ST #1
Project Number: 70074505301
Project Location: EDDY COUNTY, NM

Sampling Date: 05/03/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Celey D. Keene

Sample ID: S-2 5' (H600968-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	05/05/2016	ND	400	100	400	3.92	

Sample ID: S-2 6' (H600968-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	05/05/2016	ND	400	100	400	3.92	

Sample ID: S-2 7' (H600968-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/05/2016	ND	400	100	400	3.92	

Sample ID: S-3 4' (H600968-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	05/05/2016	ND	400	100	400	3.92	

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*=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: 05/04/2016
Reported: 05/18/2016
Project Name: NB TWEEN ST #1
Project Number: 70074505301
Project Location: EDDY COUNTY, NM

Sampling Date: 05/03/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Celey D. Keene

Sample ID: S-3 5' (H600968-05)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	05/17/2016	ND	400	100	400	3.92	

Sample ID: S-7 0' (H600968-06)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.50	1.00	05/06/2016	ND	1.88	93.8	2.00	0.797	
Toluene*	26.8	1.00	05/06/2016	ND	1.79	89.5	2.00	3.11	
Ethylbenzene*	18.4	1.00	05/06/2016	ND	1.62	81.1	2.00	2.52	
Total Xylenes*	37.9	3.00	05/06/2016	ND	5.05	84.2	6.00	2.67	
Total BTEX	85.7	6.00	05/06/2016	ND					

Surrogate: 4-Bromofluorobenzene (PII) 101 % 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	17600	16.0	05/05/2016	ND	400	100	400	3.92	

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	1130	50.0	05/05/2016	ND	177	88.5	200	6.25		
DRO >C10-C28	8020	50.0	05/05/2016	ND	176	87.8	200	0.0182		

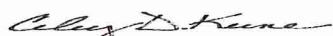
Surrogate: 1-Chlorooctane 160 % 35-147

Surrogate: 1-Chlorooctadecane 217 % 28-171

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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: 05/04/2016
Reported: 05/18/2016
Project Name: NB TWEEN ST #1
Project Number: 70074505301
Project Location: EDDY COUNTY, NM

Sampling Date: 05/03/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Celey D. Keene

Sample ID: S-7 0.75' (H600968-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	14.1	1.00	05/06/2016	ND	1.88	93.8	2.00	0.797	
Toluene*	116	1.00	05/06/2016	ND	1.79	89.5	2.00	3.11	
Ethylbenzene*	58.9	1.00	05/06/2016	ND	1.62	81.1	2.00	2.52	
Total Xylenes*	103	3.00	05/06/2016	ND	5.05	84.2	6.00	2.67	
Total BTEX	293	6.00	05/06/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 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	6960	16.0	05/05/2016	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2330	50.0	05/05/2016	ND	177	88.5	200	6.25	
DRO >C10-C28	2600	50.0	05/05/2016	ND	176	87.8	200	0.0182	


Surrogate: 1-Chlorooctane 109 % 35-147

Surrogate: 1-Chlorooctadecane 79.9 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

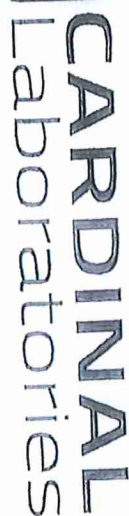
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Celey D. Keene, Lab Director/Quality Manager



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ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please fax written changes.



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

May 18, 2016

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: NB TWEEN ST #1

Enclosed are the results of analyses for samples received by the laboratory on 05/04/16 8:45.

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