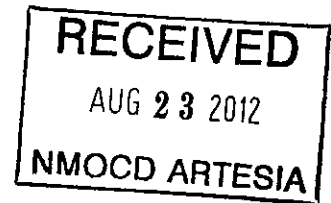




August 20, 2012



Mr. Mike Bratcher  
**NMOCD District 2**  
811 S. 1<sup>st</sup> Street  
Artesia, NM 88210

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

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

AUSTIN  
911 West Anderson Lane  
Suite 202  
Austin, Texas 78757  
Phone 512.989.3428  
Fax 512.989.3487

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

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

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

TULSA  
525 South Main Street  
Suite 535  
Tulsa, Oklahoma 74103  
Phone 918.742.0871  
Fax 918.382.0232

Subject: **Soil Assessment and Remediation Work Plan**  
Cimarex Energy  
Neste Williams Federal No. 2  
API # 30-015-25933 2RP-1222

Dear Mr. Bratcher,

Cimarex Energy has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the referenced Neste Williams Federal No. 2 release. The results of our soil assessment and proposed remediation activities consist of the following:

#### **Incident Date**

July 3, 2012

#### **Background Information**

The Neste Williams Federal No. 2 is located approximately thirty-five (35) miles east of Artesia, New Mexico. The legal location for the site is Section 6, Township 18 South and Range 31 East in Eddy County, New Mexico. More Specifically the latitude and longitude for the release are 32.77847 North and - 103.90628 West.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Kermit-Berino complex with 0 to 3 percent slopes, eroded. The local surface and shallow geology is Holocene to Pleistocene in age and is comprised of eolian sands and piedmont deposits which include silty soils underlain with hard caliche. According to the Texaco/Chevron Eddy County Water Trend Data Map (2005), the depth to groundwater is approximately 325-feet deep. The referenced groundwater data is presented in Appendix I.

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

ENVIRONMENTAL CONSULTING  
ENGINEERING  
DRILLING  
CONSTRUCTION  
SPILL MANAGEMENT  
GENERAL CONTRACTING

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

## **Incident Description**

On July 3, 2012 the clean out plate on back of the oil tank had corroded causing a release of 55 barrels of oil inside the unlined containment berm around the tank battery. A vacuum truck was immediately called and 52 barrels of standing fluids were recovered. The remaining 120 barrels of oil were transferred to a stock tank.

## **Actions Taken**

On July 10, 2012 Talon/LPE mobilized personnel to begin the site assessment and soil sampling for the construction of a work plan. Grab soil samples were collected utilizing a hand auger. A site plan illustrating the work area is attached.

Soils samples were collected by Talon personnel wearing clean nitrile gloves. The samples were placed in laboratory provided glassware, iced and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for volatile organics (BTEX) per EPA Method 8021B, Total Petroleum Hydrocarbons (TPH) per EPA Method 8015M, and total chlorides via Method SM 4500Cl-B. The complete laboratory report is attached as Appendix II.

## **Analytical Results**

Analytical results received from Cardinal Laboratories are summarized below:

July 17, 2012

<u>Sample</u>	<u>Depth</u>	<u>BTEX</u>	<u>Chlorides</u>	<u>TPH (mg/kg)</u>
S-1	0'	1,984	144	63,200
	1'	8.645	144	9,780
	2'	6.385	80	339
	3'	181.73	64	7,020
	4'	304.32	96	2,979

For this site's ranking, New Mexico Oil Conservation District action level criterion for BTEX is 50 mg/kg, Benzene is 10 mg/kg and TPH is 5,000 mg/kg. The chloride remediation standard is considered to be 1,000 mg/kg.

## **Summary**

- Ground water in the project vicinity is approximately 325-feet below land surface according to the Texaco/Chevron Eddy County Water Trend Data Map (2005).
- Per the New Mexico State Engineers Database, groundwater is identified at 98-feet below land surface 5,691 meters southeast of the project location.

- Based on the depth to groundwater, it is unlikely that the impacts identified from this release will pose a threat to groundwater after proposed remediation activities are complete.

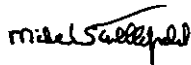
#### **Proposed Remedial Actions**

- The impacted soil from this release will be excavated to a depth of 3-4 feet deep. The excavated soil will be transported to a NMOCD approved solid waste disposal facility.
- Confirmation samples will be collected from the excavated areas. The soil samples will be submitted to laboratory for TPH analysis using EPA Method 8021B and Total Petroleum Hydrocarbons (TPH) per EPA Method 8015M.
- Upon NMOCD and BLM approval the excavated area will be backfilled back to grade using new material transported from a local borrow pit and the berm will be reconstructed.
- A 20 mil liner will be installed inside the tank battery and berms.
- A final closure report documenting all remedial actions and analytical results will be provided to the NMOCD Artesia Office and the BLM along with a 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

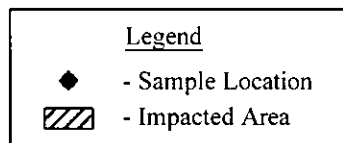
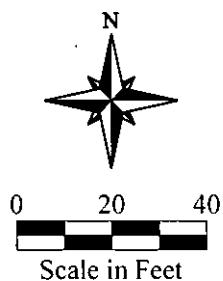
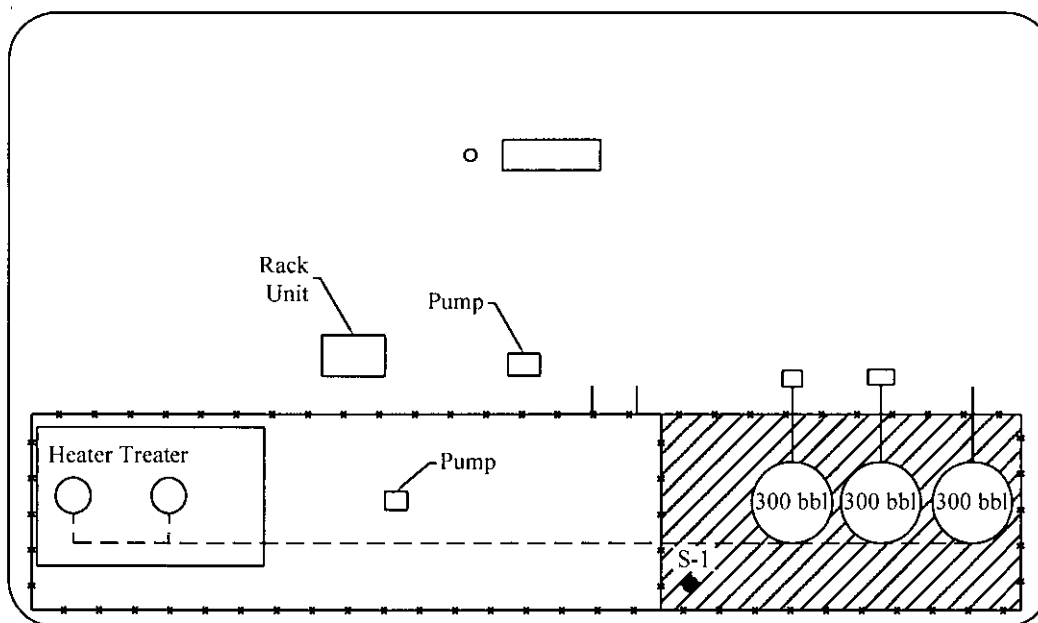


Mike Stubblefield  
Project Manager



David J. Adkins  
District Manager

## **SITE MAP**



Date: 07/25/2012  
 Scale: 1" = 40'  
 Drawn By: TJS

Neste Williams Fed. No. 2  
 Cimarex Energy  
 Eddy County, New Mexico  
 Figure 1 - Site Plan

**APPENDIX I**  
**GROUNDWATER DATA**  
**INITIAL C-141**



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the  
POD suffix indicates the  
POD has been replaced  
& no longer serves a  
water right file.)

(R=POD has  
been replaced,  
O=orphaned,  
C=the file is  
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Code	Subbasin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
RA 11590 POD1			ED	2	1	3	32	17S	31E	603315	3628545	1192	158		
RA 11590 POD4			ED	4	1	1	32	17S	31E	603308	3629253	1827	55		
RA 11590 POD3			ED	3	1	2	32	17S	31E	603932	3629260	2130	60		
L 11092	L		LE	2	3	15	18S	31E		606849	3623669*	5691	160	98	62
Average Depth to Water:													98 feet		
Minimum Depth:													98 feet		
Maximum Depth:													98 feet		

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 602676

Northing (Y): 3627539

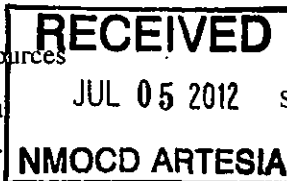
Radius: 6000

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

District I  
1625 N French Dr, Hobbs, NM 88240  
District II  
1301 W Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S St Francis Dr, Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505



Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

### Release Notification and Corrective Action

nJMW1219530371 OPERATOR ☒ Initial Report ☐ Final Report

Name of Company-Cimarex Energy	162683	Contact- James Tinney
Address-600 N Marienfeld Ste 600, Midland Tx 79701		Telephone No. 575 706 0095
Facility Name-Neste Williams Battery		Facility Type- Comingle battery

Surface Owner	Mineral Owner	Lease No: M68039
---------------	---------------	------------------

### LOCATION OF RELEASE

Unit Letter G	Section 6	Township 18 S	Range 31 E	Feet from the	North/South Line	Feet from the	East/West Line	County - Eddy
------------------	--------------	------------------	---------------	---------------	------------------	---------------	----------------	---------------

Latitude- 32-46-39 Longitude- 103-54-25

### NATURE OF RELEASE

Type of Release- crude oil	Volume of Release-55 bbls	Volume Recovered-52 bbls
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? BLM- Jim Amos, OCD- Mike Bratcher ( left message at OCD answering service )	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Take: Clean out plate on back of tank had rusted out from inside tank

Empty Tank

Describe Area Affected and Cleanup Action Take: Spill was contained inside berm around tanks ( not lined) Cleaned up standing oil 52 bbls, had 1 load of oil picked up by Sunoco oil haulers, moved 120 bbls to oil stock tank 902.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC D 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 NMOC D 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, NMOC D 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: James Tinney		Approved by District Supervisor: Signed By	
Title: Production Foreman		Approval Date: JUL 13 2012	Expiration Date:
E-mail Address: jtinney@cimarex.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: 7-3-11 Phone: 575-706-0095			

\* Attach Additional Sheets If Necessary

Remediation per OCD Rules &  
Guidelines. SUBMIT REMEDIATION  
PROPOSAL NOT LATER THAN:

8/13/12

2RP-1222



**APPENDIX II**  
**LABORATORY RESULTS**



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

July 17, 2012

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: NESTE WILLIAMS FEDERAL NO. 2

Enclosed are the results of analyses for samples received by the laboratory on 07/10/12 16:17.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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](http://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  
MIKE STUBBLEFIELD  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received: 07/10/2012  
Reported: 07/17/2012  
Project Name: NESTE WILLIAMS FEDERAL NO. 2  
Project Number: 701162.020.01  
Project Location: SEC. 6 - T18S - R31E

Sampling Date: 07/10/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S - 1 0' (H201570-01)**

BTEx 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	250	5.00	07/16/2012	ND	1.89	94.6	2.00	1.24	
Toluene*	815	5.00	07/16/2012	ND	1.90	95.0	2.00	1.82	
Ethylbenzene*	359	5.00	07/16/2012	ND	1.94	96.9	2.00	1.85	
Total Xylenes*	560	15.0	07/16/2012	ND	5.84	97.3	6.00	2.24	

Surrogate: 4-Bromofluorobenzene (PIL) 130 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/12/2012	ND	400	100	400	4.08	
TPH 8015M		mg/kg	Analyzed By: AM					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	19800	100	07/12/2012	ND	167	83.4	200	0.491	
DRO >C10-C28	43400	100	07/12/2012	ND	175	87.7	200	1.55	

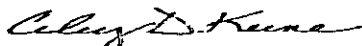
Surrogate: 1-Chlorooctane 180 % 65.2-140

Surrogate: 1-Chlorooctadecane 65.7 % 63.6-154

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

Received:	07/10/2012	Sampling Date:	07/10/2012
Reported:	07/17/2012	Sampling Type:	Soil
Project Name:	NESTE WILLIAMS FEDERAL NO. 2	Sampling Condition:	Cool & Intact
Project Number:	701162.020.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 6 - T18S - R31E		

**Sample ID: S - 1 1' (H201570-02)**

BTX 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.805</b>	0.050	07/16/2012	ND	1.89	94.6	2.00	1.24	
<b>Toluene*</b>	<b>2.95</b>	0.050	07/16/2012	ND	1.90	95.0	2.00	1.82	
<b>Ethylbenzene*</b>	<b>2.69</b>	0.050	07/16/2012	ND	1.94	96.9	2.00	1.85	
<b>Total Xylenes*</b>	<b>2.20</b>	0.150	07/16/2012	ND	5.84	97.3	6.00	2.24	

Surrogate: 4-Bromofluorobenzene (PIL) 288 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>144</b>	16.0	07/12/2012	ND	400	100	400	4.08	

TPH 8015M		mg/kg	Analyzed By: AM					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>290</b>	100	07/12/2012	ND	167	83.4	200	0.491	
<b>DRO &gt;C10-C28</b>	<b>9490</b>	100	07/12/2012	ND	175	87.7	200	1.55	

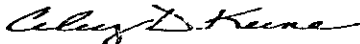
Surrogate: 1-Chlorooctane 85.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 273 % 63.6-154

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

Received:	07/10/2012	Sampling Date:	07/10/2012
Reported:	07/17/2012	Sampling Type:	Soil
Project Name:	NESTE WILLIAMS FEDERAL NO. 2	Sampling Condition:	Cool & Intact
Project Number:	701162.020.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 6 - T18S - R31E		

**Sample ID: S - 1 2' (H201570-03)**

BTEx 8021B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>1.32</b>	0.050	07/16/2012	ND	1.89	94.6	2.00	1.24	
<b>Toluene*</b>	<b>3.36</b>	0.050	07/16/2012	ND	1.90	95.0	2.00	1.82	
<b>Ethylbenzene*</b>	<b>0.655</b>	0.050	07/16/2012	ND	1.94	96.9	2.00	1.85	
<b>Total Xylenes*</b>	<b>1.05</b>	0.150	07/16/2012	ND	5.84	97.3	6.00	2.24	

Surrogate: 4-Bromofluorobenzene (PIE) 115 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>80.0</b>	16.0	07/12/2012	ND	400	100	400	4.08	

TPH 8015M		mg/kg		Analyzed By: AM				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	07/13/2012	ND	167	83.4	200	0.491	
DRO >C10-C28	339	50.0	07/13/2012	ND	175	87.7	200	1.55	

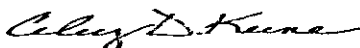
Surrogate: 1-Chlorooctane 64.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 116 % 63.6-154

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

Received:	07/10/2012	Sampling Date:	07/10/2012
Reported:	07/17/2012	Sampling Type:	Soil
Project Name:	NESTE WILLIAMS FEDERAL NO. 2	Sampling Condition:	Cool & Intact
Project Number:	701162.020.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 6 - T18S - R31E		

**Sample ID: S - 1 3' (H201570-04)**

BTEX 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>9.33</b>	1.00	07/16/2012	ND	1.89	94.6	2.00	1.24	
<b>Toluene*</b>	<b>66.6</b>	1.00	07/16/2012	ND	1.90	95.0	2.00	1.82	
<b>Ethylbenzene*</b>	<b>39.7</b>	1.00	07/16/2012	ND	1.94	96.9	2.00	1.85	
<b>Total Xylenes*</b>	<b>66.1</b>	3.00	07/16/2012	ND	5.84	97.3	6.00	2.24	

Surrogate: 4-Bromofluorobenzene (PIL) 130 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>64.0</b>	16.0	07/12/2012	ND	400	100	400	4.08	
TPH 8015M		mg/kg	Analyzed By: AM					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>1780</b>	50.0	07/12/2012	ND	167	83.4	200	0.491	
<b>DRO &gt;C10-C28</b>	<b>5240</b>	50.0	07/12/2012	ND	175	87.7	200	1.55	

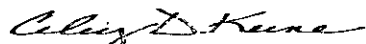
Surrogate: 1-Chlorooctane 149 % 65.2-140

Surrogate: 1-Chlorooctadecane 175 % 63.6-154

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

Received:	07/10/2012	Sampling Date:	07/10/2012
Reported:	07/17/2012	Sampling Type:	Soil
Project Name:	NESTE WILLIAMS FEDERAL NO. 2	Sampling Condition:	Cool & Intact
Project Number:	701162.020.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 6 - T18S - R31E		

**Sample ID: S - 1 4' (H201570-05)**

BTEX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>9.12</b>	0.500	07/17/2012	ND	1.89	94.6	2.00	1.24	
<b>Toluene*</b>	<b>106</b>	0.500	07/17/2012	ND	1.90	95.0	2.00	1.82	
<b>Ethylbenzene*</b>	<b>71.2</b>	0.500	07/17/2012	ND	1.94	96.9	2.00	1.85	
<b>Total Xylenes*</b>	<b>118</b>	1.50	07/17/2012	ND	5.84	97.3	6.00	2.24	

Surrogate: 4-Bromofluorobenzene (PIB) 162 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>96.0</b>	16.0	07/12/2012	ND	400	100	400	4.08	

TPH 8015M		mg/kg		Analyzed By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>599</b>	50.0	07/12/2012	ND	167	83.4	200	0.491	
<b>DRO &gt;C10-C28</b>	<b>2380</b>	50.0	07/12/2012	ND	175	87.7	200	1.55	

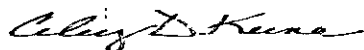
Surrogate: 1-Chlorooctane 100 % 65.2-140

Surrogate: 1-Chlorooctadecane 130 % 63.6-154

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

**Notes and Definitions**

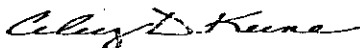
- S-06      The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04      The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND        Analyte NOT DETECTED at or above the reporting limit
- RPD      Relative Percent Difference
- \*\*        Samples not received at proper temperature of 6°C or below.
- \*\*\*      Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

---

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





**PLEASE NOTE:** Lenders and Damages liability and events exclusively for any claim arising whether based in contract or tort, shall be limited to the amount paid by the applicable insurance policy. All claims including those for negligence and any other cause whatsoever that be incurred whether based in contract or tort shall be completed on or before the date of the applicable insurance policy. In no event shall Cardinal be liable for incidental or consequential damages, including valuation, business interruption, loss of, or loss of profits incurred by Card. Its subsidiaries, affiliates, or successors or third parties in relation to the performance of services they provide for Card. Its subsidiaries, affiliates, or successors or third parties or otherwise. Therefore we warrant our third parties in relation to the performance of services they provide for Card. Its subsidiaries, affiliates, or successors or third parties or otherwise.

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476