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## **Soil Assessment and Remediation Work Plan**

Myrtle Myra No. 8 \* 30-015-43372 \* 1572

Talon Project No. 701771.002.01

### **Prepared For:**

Endurance Resources

PO Box 1466

Artesia, NM 88211

### **Prepared By:**

Kimberly M. Wilson

TALON/LPE

408 W. Texas Avenue

Artesia, New Mexico 88210

**September 20, 2016**

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

Subject: **Soil Assessment and Remediation Work Plan**  
Myrtle Myra No. 8  
API #: 30-015-43372 \* 2RP-1572

Dear Mr. Bratcher,

Endurance Resources 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.

### Site Information

The Myrtle Myra No. 8 is located approximately thirty-eight (38) miles south east of Artesia, New Mexico. The legal location for this release is Unit Letter B, Section 16, Township 21 South and Range 27 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.4855843 North and -104.1928024 West. A site plan is presented in [Appendix I](#)

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services (NRSC) the soil in this area is made up of Simona-Bippus land complex soils with 0 to 5 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology, Quaternary Age sedimentary deposits, is comprised of alluvium and eolian sands which includes silty soils under lain by dense caliche layers. Drainage courses in this area are normally dry.

### Ground Water and Site Ranking

The New Mexico State Engineer web site indicates the nearest ground water data to be in S9-T21S-R27E. The ground water in Section 9 is reported to be at depth of 120' below ground surface (BGS). See [Appendix II](#) for the referenced groundwater data.

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

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

Based upon the site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 1,000 mg/kg for TPH and 1,000 mg/kg for total chlorides.

## Incident Description and Initial Remedial Actions

On March 3, 2013 the casing failed at the wellhead casing a release of 40 barrels of produced water. The flow path measured approximately 10 to 15-feet wide by 300-feet long off the northwest side of the pad continuing down the draw at that time. See initial C-141 in [Appendix III](#). Subsequently, surface water run-off during the past three years has spread the impacted area to the current aerial extent shown on the attached site plan.

A site assessment and soil sampling activities for the construction of a work plan was performed. Initial soil samples were collected utilizing a hand auger to a depth of 1-foot BGS where refusal was encountered.

On July 13, 2016 a backhoe was mobilized for further vertical delineation of the impacted area. However, due to the shallow rock layers encountered the vertical impacts could not be fully investigated. Following a meeting with the New Mexico Oil Conservation Division (NMOCD), on June 15, 2016, Talon personnel returned to the location to obtain additional samples at greater depths utilizing an air rotary drill rig as directed by the NMOCD.

Boreholes were advanced inside of the impacted area at sample locations S-1 and S-5 per NMOCD. The results of all the sampling events at this location are summarized in the data tables below.

## Laboratory Results

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

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0	ND	38800	ND	832
S-1	0.5	ND	6000	ND	13.7
S-1	1	--	3960	--	--
S-1R	2	--	4120	--	--
S-2	0	--	3600	--	--
S-2	1	--	1840	--	--
S-2	3	--	2720	--	--
S-2	5	--	2960	--	--
S-2	7	--	2680	--	--
S-2	9	--	3120	--	--
S-2	11	--	2120	--	--
S-3	0	--	15600	--	--
S-3	1	--	816	--	--
S-3	3	--	1260	--	--
S-3	5	--	576	--	--
S-3	7	--	48	--	--

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-4	0	ND	20600	ND	27.2
S-4	0.5	ND	4800	ND	ND
S-4	1	--	4800	--	--
S-4R	3	--	6240	--	--
S-5	0	--	20000	--	--
S-5	0.5	--	6800	--	--
S-5	1	--	4240	--	--
S-5	3	--	3960	--	--
S-5	5	--	3520	--	--
S-5	3	--	3960	--	--
S-5	5	--	3520	--	--
S-5	7	--	3120	--	--
S-5	9	--	3440	--	--
S-5	11	--	3600	--	--
S-6	0	--	11200	--	--
S-6	0.5	--	6130	--	--
S-6	1	--	4160	--	--
S-6R	1.5	--	4480	--	--
S-7	0	--	3120	--	--
S-7R	1	--	1880	--	--
S-8	0	--	128	--	--
S-9	0	--	2880	--	--
S-9	0.25	--	1720	--	--
S-9	1	--	4240	--	--
S-9R	1.5	--	2720	--	--
S-10	0	--	208	--	--
S-10R	0.5	--	388	--	--

(-- ) Analyte Not Tested (R) Refusal/Top of Rock

(ND) Analyte Not Detected

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	5'	--	207	--	--
S-1	10'	--	2320	--	--
S-1	15'	--	1980	--	--
S-1	20'	--	649	--	--
S-5	15'	--	3440	--	--
S-5	25'	--	278	--	--
S-5	30'	--	305	--	--
S-5	35'	--	301	--	--
S-5	40'	--	126	--	--

(-- ) Analyte Not Tested



### Proposed Remedial actions

- The impacted areas in the vicinity of sample locations S-1, S-2, S-4, S-5 and S-6 will be excavated to a depth of 4-feet deep or to the extent possible where refusal with an excavator is encountered at top of rock. A 20 mil liner will be laid within the excavated area at this location. Pictures will be taken at depths and areas will be documented where 4-foot depths cannot be achieved due to top of rock.
- The area around sample location S-3 will be scraped to a depth of 0.5-foot deep. The impacted area in the vicinity of sample location S-7 will be excavated to 1-foot deep and the area around S-9 will be excavated to the depth 1.5-foot deep where refusal was encountered.
- All of the excavated material will be hauled to Lea Land LLC, a NMOCD approved disposal facility.
- The backfilled area will be contoured to match the surrounding terrain and left in a “rough” condition to approximate natural surface deviations, control erosion, and promote revegetation.
- Erosion control berms, water bars and diversion berms will be constructed to prevent storm water washout.
- Immediately following preparation of the site, a Culti-Pack Seed Drill will be utilized to plant 2 acre of 50% of BLM #3 & #4 seed mixture for shallow/rocky environments following manufacture recommended application rates. The site will be monitored by Endurance Resources personnel to insure proper revegetation. Should revegetation not take place then further amendments will be applied.
- During Talon’s site assessment no obvious noxious or undesirable weeds such as African rue, Russian thistle, etc. were noted. All equipment to be used at this location will be washed prior to mobilization to prevent potential spread of noxious weeds to this site. Should noxious weeds develop during the revegetation process, BLM will be notified and a strategy for weed removal will be developed (herbicide, mechanical removal, etc.) depending on the plant type and extent of infestation.
- A final closure report documenting all remedial actions, analytical results, a final C-141 and seeding labels will be provided to the NMOCD District II Artesia Office and BLM.

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
- Appendix III Initial C-141
- Appendix IV Laboratory Results



## APPENDIX I

### SITE MAP



# Myrtle Myra #8

Endurance

- Legend**
-  Endurance Myrtle Myra #8
  -  Sample points





**APPENDIX II**  
**GROUNDWATER DATA**



# 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 Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">C 01339</a>			ED	1	4	09	21S	27E		575842	3595353*	810	425	120	305

Average Depth to Water: 120 feet

Minimum Depth: 120 feet

Maximum Depth: 120 feet

Record Count: 1

### UTMNAD83 Radius Search (in meters):

Easting (X): 575844

Northing (Y): 3594543

Radius: 820

\*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.

## **APPENDIX III**

### **INITIAL C-141**

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

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 8, 2011  
Submit 1 Copy to appropriate District Office in  
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

*njm* 1306435875 270329 OPERATOR ☒ Initial Report ☐ Final Report

Name of Company <i>ENDURANCE RESOURCES LLC</i>	Contact <i>RANDALL HARRIS</i>
Address <i>P.O. Box 1466 ARTESIA, NM 88211</i>	Telephone No. <i>575.308.0722</i>
Facility Name <i>WYATTE AREA #8</i>	Facility Type <i>SWD</i>

Surface Owner <i>STATE</i>	Mineral Owner <i>STATE</i>	API No. <i>30-015-21650</i>
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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
<i>B</i>	<i>16</i>	<i>21 S</i>	<i>27E</i>	<i>660</i>	<i>NORTH</i>	<i>1980</i>	<i>EAST</i>	<i>EDDY</i>

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

NATURE OF RELEASE

Type of Release <i>OW</i>	Volume of Release <i>40 APC</i>	Volume Recovered <i>0</i>
Source of Release <i>WELL HEAD</i>	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <i>RANDY VADE NMOCD</i>	
By Whom? <i>RANDALL HARRIS</i>	Date and Hour <i>2/1/13 3:30 PM</i>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* *CASUAL FAIL*

Describe Area Affected and Cleanup Action Taken.\* *AREA 10-15' WIDE 300' LONG FROM LOCATION TO NW WILL REMOVE ALL CONTAMINATED SOILS Replace & RESOED*

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.

OIL CONSERVATION DIVISION

Signature: <i>[Signature]</i>	Approved by Environmental Specialist: Signed By <i>[Signature]</i>	
Printed Name: <i>RANDALL HARRIS</i>	Approval Date: <i>MAR 05 2013</i>	Expiration Date:
Title: <i>GEOLOGIST</i>	Conditions of Approval: Remediation per OCD Rule & Guidelines. SUBMIT REMEDIATION PROPOSAL NO LATER THAN: <i>April 5, 2013</i>	
E-mail Address: <i>rharris@ghos.com</i>	Attached <input type="checkbox"/>	
Date: <i>3/4/13</i>	Phone: <i>575-308-0922</i>	

\* Attach Additional Sheets If Necessary

2RP-1572



**APPENDIX IV**  
**LABORATORY RESULTS**

June 21, 2016

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MYRTLE MYRA #8

Enclosed are the results of analyses for samples received by the laboratory on 06/16/16 13:35.

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

 Received: 06/16/2016  
 Reported: 06/21/2016  
 Project Name: MYRTLE MYRA #8  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 06/15/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S-1 0' (H601329-01)**

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/20/2016	ND	1.88	94.2	2.00	0.942		
Toluene*	<0.050	0.050	06/20/2016	ND	1.95	97.3	2.00	1.52		
Ethylbenzene*	<0.050	0.050	06/20/2016	ND	1.80	90.1	2.00	1.39		
Total Xylenes*	<0.150	0.150	06/20/2016	ND	5.72	95.3	6.00	0.620		
Total BTEX	<0.300	0.300	06/20/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 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	38800	16.0	06/20/2016	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/18/2016	ND	182	91.2	200	0.0713		
DRO >C10-C28	832	10.0	06/18/2016	ND	198	98.9	200	7.68		

Surrogate: 1-Chlorooctane 79.6 % 35-147

Surrogate: 1-Chlorooctadecane 101 % 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: 06/16/2016  
 Reported: 06/21/2016  
 Project Name: MYRTLE MYRA #8  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 06/15/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S-1 0.5' (H601329-02)**

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2016	ND	1.88	94.2	2.00	0.942	
Toluene*	<0.050	0.050	06/20/2016	ND	1.95	97.3	2.00	1.52	
Ethylbenzene*	<0.050	0.050	06/20/2016	ND	1.80	90.1	2.00	1.39	
Total Xylenes*	<0.150	0.150	06/20/2016	ND	5.72	95.3	6.00	0.620	
Total BTEX	<0.300	0.300	06/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIB) 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	6000	16.0	06/20/2016	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/18/2016	ND	182	91.2	200	0.0713	
DRO >C10-C28	13.7	10.0	06/18/2016	ND	198	98.9	200	7.68	

Surrogate: 1-Chlorooctane 79.0 % 35-147

Surrogate: 1-Chlorooctadecane 84.0 % 28-171

**Sample ID: S-2 0' (H601329-03)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	06/20/2016	ND	416	104	400	3.77	

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: 06/16/2016  
 Reported: 06/21/2016  
 Project Name: MYRTLE MYRA #8  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 06/15/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S-3 0' (H601329-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15600	16.0	06/20/2016	ND	416	104	400	3.77	

**Sample ID: S-4 0' (H601329-05)**

BTEx 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2016	ND	1.88	94.2	2.00	0.942	
Toluene*	<0.050	0.050	06/20/2016	ND	1.95	97.3	2.00	1.52	
Ethylbenzene*	<0.050	0.050	06/20/2016	ND	1.80	90.1	2.00	1.39	
Total Xylenes*	<0.150	0.150	06/20/2016	ND	5.72	95.3	6.00	0.620	
Total BTEx	<0.300	0.300	06/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 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	20600	16.0	06/20/2016	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/18/2016	ND	182	91.2	200	0.0713	
DRO >C10-C28	27.2	10.0	06/18/2016	ND	198	98.9	200	7.68	

Surrogate: 1-Chlorooctane 78.4 % 35-147

Surrogate: 1-Chlorooctadecane 76.5 % 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: 06/16/2016  
 Reported: 06/21/2016  
 Project Name: MYRTLE MYRA #8  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 06/15/2016  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S-4 0.5' (H601329-06)**

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2016	ND	1.88	94.2	2.00	0.942	
Toluene*	<0.050	0.050	06/20/2016	ND	1.95	97.3	2.00	1.52	
Ethylbenzene*	<0.050	0.050	06/20/2016	ND	1.80	90.1	2.00	1.39	
Total Xylenes*	<0.150	0.150	06/20/2016	ND	5.72	95.3	6.00	0.620	
Total BTX	<0.300	0.300	06/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 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	4800	16.0	06/20/2016	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/18/2016	ND	182	91.2	200	0.0713	
DRO >C10-C28	<10.0	10.0	06/18/2016	ND	198	98.9	200	7.68	

Surrogate: 1-Chlorooctane 83.1 % 35-147

Surrogate: 1-Chlorooctadecane 86.9 % 28-171

**Sample ID: S-5 0' (H601329-07)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20000	16.0	06/20/2016	ND	416	104	400	3.77	

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: 06/16/2016  
Reported: 06/21/2016  
Project Name: MYRTLE MYRA #8  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 06/15/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-5 0.5' (H601329-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	06/20/2016	ND	416	104	400	3.77	

**Sample ID: S-5 1.0' (H601329-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	06/20/2016	ND	416	104	400	3.77	

**Sample ID: S-6 0' (H601329-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11200	16.0	06/20/2016	ND	416	104	400	3.77	

**Sample ID: S-6 0.5' (H601329-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6130	16.0	06/20/2016	ND	416	104	400	3.77	

**Sample ID: S-7 0' (H601329-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	06/20/2016	ND	416	104	400	3.77	

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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: 06/16/2016  
Reported: 06/21/2016  
Project Name: MYRTLE MYRA #8  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 06/15/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-8 0' (H601329-13)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/20/2016	ND	416	104	400	3.77	

**Sample ID: S-9 0' (H601329-14)**

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	06/20/2016	ND	416	104	400	3.77	

**Sample ID: S-9 0.25' (H601329-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1720	16.0	06/20/2016	ND	416	104	400	3.77	

**Sample ID: S-10 0' (H601329-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/20/2016	ND	416	104	400	3.77	

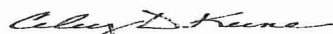
**Sample ID: S-10 0.5' (H601329-17)**

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	06/20/2016	ND	416	104	400	3.77		

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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: 06/16/2016  
Reported: 06/21/2016  
Project Name: MYRTLE MYRA #8  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 06/15/2016  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-10 1.0' (H601329-18)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5440	16.0	06/20/2016	ND	400	100	400	7.69	QM-07	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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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Cardinal Laboratories

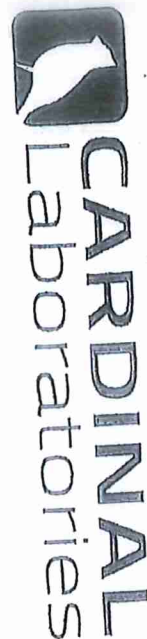
\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

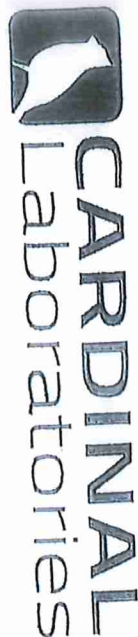
101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

ANALYSIS REQUEST

Company Name: Talon/LPE		P.O. #: 701771.002.01															
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 Owner: Endurance Resources		Zip:															
Project #: Myrtle Myra #8		Phone #:															
Project Location: Eddy County, NM		Fax #:															
Sample Name: P. ADKINS		PRESERV. SAMPLING															
FOR LAB USE ONLY																	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	TOTAL CHLORIDES	TPH	BTX
H001329	S-1 0' 1"	G-1	1										6/15/16		1	1	1
-2	S-1 0.5' 1"	G-1	1										6/15		1	1	1
-3	S-2 0' 1"	G-1	1										6/15		1	1	1
-4	S-3 0' 1"	G-1	1										6/15		1	1	1
-5	S-4 0.5' 1"	G-1	1										6/15		1	1	1
-6	S-4 0.5' 1"	G-1	1										6/15		1	1	1
-7	S-5 0.5' 1"	G-1	1										6/15		1	1	1
-8	S-5 0.5' 1"	G-1	1										6/15		1	1	1
-9	S-5 1.0' 1"	G-1	1										6/15		1	1	1
-10	S-6 0' 1"	G-1	1										6/15		1	1	1
<small>PLEASE NOTE: Liability and Damages. Cardinal hereby and its agents assume no liability for any claims arising from the use of this form or the results of the analysis. All claims for damages, including those for negligence and any other cause whatsoever that be deemed to arise from the use of this form or the results of the analysis, shall be limited to the amount paid by the client for the analysis. In no event shall Cardinal be liable for indirect 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated bases or otherwise.</small>																	
Relinquished By: <u>Shelly Adams</u> Date: <u>6/15/16</u> Time: <u>13:35</u> Received By: <u>Shelby Adams</u>																	
Delivered By: (Circle One) <u>5.3c</u> Sample Condition: <u>Good</u> Intact: <u>Yes</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No																	
Sampler - UPS - Bus - Other: <u>5.3c</u> CHECKED BY: <u>JK</u>																	
REMARKS: <u>P. 1682</u>																	

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





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/LPE

Project Manager: DAVE D ADKINS

Address: 408 W. Texas Ave.

City: Artesia

Phone #: 575-746-8768

Project #: 701771.002.01

Project Name: Myrtle Myra #8

Project Location: Bddy County, NM

Sample Name: D. ADKINS

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

4401329

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

July 20, 2016

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MYRTLE MYRA #8

Enclosed are the results of analyses for samples received by the laboratory on 07/14/16 9:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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  
 DAVID ADKINS  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

 Received: 07/14/2016  
 Reported: 07/20/2016  
 Project Name: MYRTLE MYRA #8  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 07/13/2016  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: S-1 1' (H601583-01)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3960	16.0	07/15/2016	ND	416	104	400	3.92	

**Sample ID: S-1 2' REFUSAL (H601583-02)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4120	16.0	07/15/2016	ND	416	104	400	3.92	

**Sample ID: S-2 1' (H601583-03)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	07/15/2016	ND	416	104	400	3.92	

**Sample ID: S-2 3' (H601583-04)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	07/15/2016	ND	416	104	400	3.92	

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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: 07/14/2016  
Reported: 07/20/2016  
Project Name: MYRTLE MYRA #8  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/13/2016  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: S-2 5' (H601583-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	07/15/2016	ND	416	104	400	3.92	

**Sample ID: S-2 7' (H601583-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	07/15/2016	ND	416	104	400	3.92	

**Sample ID: S-2 9' (H601583-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	07/15/2016	ND	416	104	400	3.92	

**Sample ID: S-2 11' (H601583-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	07/15/2016	ND	416	104	400	3.92	

**Sample ID: S-3 1' (H601583-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	07/15/2016	ND	416	104	400	3.92	

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: 07/14/2016  
 Reported: 07/20/2016  
 Project Name: MYRTLE MYRA #8  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 07/13/2016  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: S-3 3' (H601583-10)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	07/15/2016	ND	416	104	400	3.92	

**Sample ID: S-3 5' (H601583-11)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	07/15/2016	ND	416	104	400	3.92	

**Sample ID: S-3 7' (H601583-12)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/15/2016	ND	416	104	400	3.92	

**Sample ID: S-4 1' (H601583-15)**

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	07/18/2016	ND	416	104	400	0.00	

**Sample ID: S-4 3' REFUSAL (H601583-16)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6240	16.0	07/18/2016	ND	416	104	400	0.00	

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: 07/14/2016  
 Reported: 07/20/2016  
 Project Name: MYRTLE MYRA #8  
 Project Number: NONE GIVEN  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 07/13/2016  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: S-5 1' (H601583-17)**

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	07/18/2016	ND	416	104	400	0.00	

**Sample ID: S-5 3' (H601583-18)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3960	16.0	07/18/2016	ND	416	104	400	0.00	

**Sample ID: S-5 5' (H601583-19)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	07/18/2016	ND	416	104	400	0.00	

**Sample ID: S-5 7' (H601583-20)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	07/18/2016	ND	416	104	400	0.00	

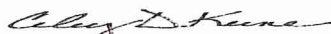
**Sample ID: S-5 9' (H601583-21)**

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	07/18/2016	ND	416	104	400	0.00	

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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: 07/14/2016  
Reported: 07/20/2016  
Project Name: MYRTLE MYRA #8  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/13/2016  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: S-5 11' (H601583-22)**

Chloride, SM4500CI-B mg/kg			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	07/18/2016	ND	416	104	400	0.00	

**Sample ID: S-6 1' (H601583-23)**

Chloride, SM4500CI-B mg/kg			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	07/18/2016	ND	416	104	400	0.00	

**Sample ID: S-6 1.5' REFUSAL (H601583-24)**

Chloride, SM4500CI-B mg/kg			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	07/18/2016	ND	416	104	400	0.00	

**Sample ID: S-7 1' REFUSAL (H601583-25)**

Chloride, SM4500CI-B mg/kg			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	07/18/2016	ND	416	104	400	0.00	

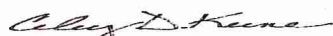
**Sample ID: S-9 1' (H601583-26)**

Chloride, SM4500CI-B mg/kg			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	07/18/2016	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager





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

**Analytical Results For:**

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

Received: 07/14/2016  
Reported: 07/20/2016  
Project Name: MYRTLE MYRA #8  
Project Number: NONE GIVEN  
Project Location: EDDY COUNTY, NM

Sampling Date: 07/13/2016  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: S-9 1.5' REFUSAL (H601583-27)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	07/18/2016	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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---

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Talon/PE

Project Manager: D. Adkins

Address: 408 W. Texas Ave.

City: Artesia

Phone #: 575-746-8768

State: NM Zip: 88210

Project #: 761771, 002, 01

Fax #: 575-746-8905

Project Name: MYRLE MYRA #8

Project Location:

Sampler Name: Robbie Driscoll

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

HL001583

5-1 1'

5-2 1'

5-2 1'

5-2 1'

5-2 1'

5-2 1'

5-2 1'

5-2 1'

5-2 1'

5-2 1'

5-2 1'

5-2 1'

(G)RAB OR (C)OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

7/13/16

Chlorides

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Relinquished By:

Date: 7/13/16

Time: 4:10 PM

Received By: Robbie Driscoll

Date: 7/13/16

Time: 5:50 PM

Relinquished By: Robbie Driscoll

Date: 7/13/16

Time: 5:50 PM

Received By: Robbie Driscoll

Date: 7/13/16

Time: 5:50 PM

Relinquished By:

Date: 7/13/16

Time: 4:10 PM

Received By: Robbie Driscoll

Date: 7/13/16

Time: 5:50 PM

Relinquished By: Robbie Driscoll

Date: 7/13/16

Time: 5:50 PM

Received By: Robbie Driscoll

Date: 7/13/16

Time: 5:50 PM

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Date: 7/13/16

Time: 4:10 PM

Received By: Robbie Driscoll

Date: 7/13/16

Time: 5:50 PM

Relinquished By: Robbie Driscoll

Date: 7/13/16

Time: 5:50 PM

Received By: Robbie Driscoll

Date: 7/13/16

Time: 5:50 PM

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

#75

Page 1 of 2





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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

TELEPHONE OR COUNTERLINE			
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:			

15-2-2023





W65 3 21-3

ANALYSIS REQUEST

Lab I.D.	Sample I.D.
----------	-------------

H601583

21 5-54

22	5-5
22	5-5

5-6 5-7

7-6.1.5 re F-46a1

25	6-6
41	6-6

die	2	1	
nn	5	9	1.5' 1/2 Finger

12

[illegible]


**E: Liability and Damages.** Claims including those for

event shall Cardinal be lia

ished By:



ished By:

14. 25

Prepared By: (Circled Signature)

or - UPS - Bus

1

Cardinal cannot

Date: 11/16/10  
 Time: 11:48  
 Date: 11/16/10  
 Time: 1:50  
 Received By: Sheldon Hirsch  
 Sample Condition: Intact  
 Cool: ☒ Yes ☐ No  
 Intact: ☒ Yes ☐ No  
 CHECKED BY: SP  
 (Initials)  
 changes. Please fax written changes to (575) 393-8326  
#75

Section 87(2)(b) - Information not to be disclosed under the Access to Information Act

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:

STEP CI is  $\leq 250 \text{ mg/kg}$

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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# Analytical Report 535768

for  
**Talon LPE**

**Project Manager: David Adkins**

**Myrtle Myra 8**

**01-SEP-16**

Collected By: Client



**1211 W. Florida Ave, Midland TX 79701**

Xenco-Houston (EPA Lab code: TX00122):  
Texas (T104704215), Arizona (AZ0765), Florida (E871002), Louisiana (03054)  
Oklahoma (9218)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295)  
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400)  
Xenco-San Antonio: Texas (T104704534)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)  
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)



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01-SEP-16

Project Manager: **David Adkins**

**Talon LPE**

408 W. Texas St.

Artesia, NM 88210

Reference: XENCO Report No(s): **535768**

**Myrtle Myra 8**

Project Address: Eddy Co NM

**David Adkins:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 535768. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 535768 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

**Kelsey Brooks**

Project Manager

*Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.*

*Certified and approved by numerous States and Agencies.*

*A Small Business and Minority Status Company that delivers SERVICE and QUALITY*

Houston - Dallas - Odessa - San Antonio - Tampa - Lakeland - Atlanta - Phoenix - Oklahoma - Latin America





## Sample Cross Reference 535768



### Talon LPE, Artesia, NM

#### Myrtle Myra 8

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
S-1 5'	S	08-25-16 09:30	- 5 ft	535768-001
S-1 10'	S	08-25-16 09:40	- 10 ft	535768-002
S-1 15'	S	08-25-16 09:50	- 15 ft	535768-003
S-1 20'	S	08-25-16 10:00	- 20 ft	535768-004
S-5 15'	S	08-25-16 11:00	- 15 ft	535768-005
S-5 25'	S	08-25-16 11:15	- 25 ft	535768-006
S-5 30'	S	08-25-16 11:30	- 30 ft	535768-007
S-5 35'	S	08-25-16 11:45	- 35 ft	535768-008
S-5 40'	S	08-25-16 12:00	- 40 ft	535768-009



## CASE NARRATIVE



*Client Name: Talon LPE*  
*Project Name: Myrtle Myra 8*

Project ID:  
Work Order Number(s): 535768

Report Date: 01-SEP-16  
Date Received: 08/26/2016

---

**Sample receipt non conformances and comments:**

---

**Sample receipt non conformances and comments per sample:**

None



# Certificate of Analysis Summary 535768

Talon LPE, Artesia, NM

Project Name: Myrtle Myra 8

Project Id:

Contact: David Adkins

Project Location: Eddy Co NM

Date Received in Lab: Fri Aug-26-16 10:05 am

Report Date: 01-SEP-16

Project Manager: Kelsey Brooks

<i>Analysis Requested</i>		<i>Lab Id:</i>	<i>Field Id:</i>	<i>Depth:</i>	<i>Matrix:</i>	<i>Sampled:</i>	<i>Extracted:</i>	<i>Analyzed:</i>	<i>Units/RL:</i>
<b>Inorganic Anions by EPA 300/300.1</b>		535768-001	S-1 5'	5 ft	SOIL	Aug-25-16 09:30	Aug-30-16 11:00	Aug-30-16 13:36	mg/kg RL
									207 10.0
		535768-002	S-1 10'	10 ft	SOIL	Aug-25-16 09:40	Aug-30-16 11:00	Aug-30-16 14:43	mg/kg RL
									2320 50.0
		535768-003	S-1 15'	15 ft	SOIL	Aug-25-16 09:50	Aug-30-16 11:00	Aug-31-16 13:48	mg/kg RL
									1980 50.0
		535768-004	S-1 20'	20 ft	SOIL	Aug-25-16 10:00	Aug-30-16 11:00	Aug-30-16 18:30	mg/kg RL
									649 10.0
		535768-005	S-5 15'	15 ft	SOIL	Aug-25-16 11:00	Aug-30-16 11:00	Aug-30-16 18:38	mg/kg RL
									3440 50.0
		535768-006	S-5 25'	25 ft	SOIL	Aug-25-16 11:15	Aug-30-16 11:00	Aug-30-16 19:02	mg/kg RL
									278 10.0
Chloride									

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

*Kelsey Brooks*

Kelsey Brooks  
Project Manager



# Certificate of Analysis Summary 535768

Talon LPE, Artesia, NM

Project Name: Myrtle Myra 8

Project Id:

Contact: David Adkins

Project Location: Eddy Co NM

Date Received in Lab: Fri Aug-26-16 10:05 am

Report Date: 01-SEP-16

Project Manager: Kelsey Brooks



<i>Analysis Requested</i>		<i>Lab Id:</i>	535768-007	535768-008	535768-009		
		<i>Field Id:</i>	S-5 30'	S-5 35'	S-5 40'		
		<i>Depth:</i>	30 ft	35 ft	40 ft		
		<i>Matrix:</i>	SOIL	SOIL	SOIL		
		<i>Sampled:</i>	Aug-25-16 11:30	Aug-25-16 11:45	Aug-25-16 12:00		
		<i>Extracted:</i>	Aug-30-16 11:00	Aug-30-16 11:00	Aug-30-16 11:00		
		<i>Analyzed:</i>	Aug-30-16 19:09	Aug-30-16 19:17	Aug-30-16 19:25		
		<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL		
			305	301	126	10.0	10.0
Chloride							

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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*Kelsey Brooks*

Kelsey Brooks  
Project Manager





## Flagging Criteria



- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

**BRL** Below Reporting Limit.

**RL** Reporting Limit

**MDL** Method Detection Limit      **SDL** Sample Detection Limit      **LOD** Limit of Detection

**PQL** Practical Quantitation Limit      **MQL** Method Quantitation Limit      **LOQ** Limit of Quantitation

**DL** Method Detection Limit

**NC** Non-Calculable

+ NELAC certification not offered for this compound.

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(602) 437-0330	



## BS / BSD Recoveries



Project Name: Myrtle Myra 8

Work Order #: 535768

Analyst: MNR

Date Prepared: 08/30/2016

Project ID:

Date Analyzed: 08/30/2016

Lab Batch ID: 1000928

Sample: 713201-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

### BLANK / BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Analytes										
Chloride	<10.0	250	253	101	250	249	100	2	90-110	20	

Relative Percent Difference  $RPD = 200 * [(C-F)/(C+F)]$   
Blank Spike Recovery  $[D] = 100 * (C)/[B]$   
Blank Spike Duplicate Recovery  $[G] = 100 * (F)/[E]$   
All results are based on MDL and Validated for QC Purposes



# Form 3 - MS / MSD Recoveries



Project Name: Myrtle Myra 8

Work Order #: 535768  
Lab Batch ID: 1000928  
Date Analyzed: 08/31/2016  
Reporting Units: mg/kg

Project ID:  
QC- Sample ID: 535768-001 S Batch #: 1 Matrix: Soil  
Date Prepared: 08/30/2016 Analyst: MNR

## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	207	250	467	104	250	459	101	2	90-110	20	

Lab Batch ID: 1000928 QC- Sample ID: 535810-001 S Batch #: 1 Matrix: Soil  
Date Analyzed: 08/30/2016 Date Prepared: 08/30/2016 Analyst: MNR

## MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Inorganic Anions by EPA 300/300.1 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	2990	1250	4200	97	1250	4210	98	0	90-110	20	

Matrix Spike Percent Recovery  $[D] = 100 * (C-A) / B$   
Relative Percent Difference  $RPD = 200 * [(C-F) / (C+F)]$

Matrix Spike Duplicate Percent Recovery  $[G] = 100 * (F-A) / E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable  
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.



# CHAIN OF CUSTODY

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Lakeland, Florida (888-646-9526)  
Tampa, Florida (813-620-2000)

Xenco Quote #

Xenco Job #

5557108

## Client / Reporting Information

Company Name / Branch: Talon/CPE - Artesia

Company Address: 408 W. Texas Ave Artesia, NM

Phone No: 505/771-0020

Project Name/Number: Myrtle Myra 8

Project Location: 701771.002.01

Invoice To: Eddy Co., NM

PO Number: 701771002.01

Sample's Name: David Adkins

Field ID / Point of Collection: 701771002.01

## Project Information

Project Name/Number: Myrtle Myra 8

Project Location: 701771.002.01

Invoice To: Eddy Co., NM

PO Number: 701771002.01

Sample's Name: David Adkins

Field ID / Point of Collection: 701771002.01

## Analytical Information

Analytical Information

## Matrix Codes

Matrix Codes

- A= Air
- S = Soil/Sed/Solid
- GW = Ground Water
- DW = Drinking Water
- P = Product
- SW = Surface water
- SL = Sludge
- WM = Waste Water
- W = Wipe
- O = Oil
- WM = Waste Water

## Field Comments

Chlorides

No.	Field ID / Point of Collection	Sample Depth	Date	Time	Matrix	# of bottles	HC	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MeOH	NONE
1	5-1 5'	5'	8/25/16	0930	5	1								
2	5-1 10'	10'		0940	5	1								
3	5-1 15'	15'		0950	5	1								
4	5-1 20'	20'		1000	5	1								
5	5-5 15'	15'		1100	5	1								
6	5-5 25'	25'		1115	5	1								
7	5-5 30'	30'		1130	5	1								
8	5-5 35'	35'		1145	5	1								
9	5-5 40'	40'		1200	5	1								
10														

TAT Starts Day received by Lab, if received by 3:00 pm

Relinquished by: [Signature]

Relinquished by: [Signature]

Relinquished by: [Signature]

Relinquished by: [Signature]

Relinquished by: [Signature]

Relinquished by: [Signature]

Relinquished by: [Signature]

Relinquished by: [Signature]

DATE TIME: 0930 8/25/16

DATE TIME: 0930 8/25/16

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FED-EX / UPS - Tracking #

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41 MAF  
 6606 3912 3572  
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 FRI - 26 AUG 10 00  
 PRIORITY OVERNIGHT  
 TX-US 1131

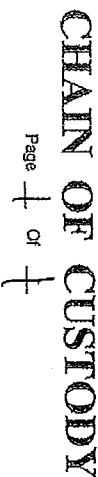
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 MAIL SERVICES ETC, LLC  
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 HOBBS, NM 88240  
 UNITED STATES US

SHIP DATE: 25AUG16  
 RCTWGT: 14.0 LB MAN  
 CWD: 0909328/CNFE2915  
 DIMS: 14x11x9 IN  
 BILL RECIPIENT

538C1/178/3288



Page 1 of 1

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<b>Client / Reporting Information</b> Company Name / Branch: <b>Talen/CPB - Artesia</b> Company Address: <b>408 W. Texas Ave Artesia, NM</b> Email: <b>David Adkins</b> Project Contact: <b>David Adkins</b> Samples Name: <b>David Adkins</b>		<b>Project Information</b> Project Name/Number: <b>NYR-16-MY-8</b> Project Location: <b>701771.002.01</b> Invoice To: <b>Eddy Co., NM</b> PO Number: <b>701771002.01</b>			
<b>Field ID / Point of Collection</b> No. <span style="margin-left: 100px;">Field ID / Point of Collection</span>		<b>Collection</b> Sample Depth <span style="margin-left: 20px;">Date</span> <span style="margin-left: 20px;">Time</span> <span style="margin-left: 20px;">Matrix</span> <span style="margin-left: 20px;"># of bottles</span> <span style="margin-left: 20px;">HCl</span> <span style="margin-left: 20px;">NaOH/Zn Acetate</span> <span style="margin-left: 20px;">HNO3</span> <span style="margin-left: 20px;">H2SO4</span> <span style="margin-left: 20px;">NaOH</span> <span style="margin-left: 20px;">NaHSO4</span> <span style="margin-left: 20px;">MeOH</span> <span style="margin-left: 20px;">NONE</span>		<b>Number of Preserved Bottles</b>	
1 5-1 5' <span style="margin-left: 100px;">5'</span> <span style="margin-left: 20px;">8/24/16</span> <span style="margin-left: 20px;">0930</span> <span style="margin-left: 20px;">S</span> <span style="margin-left: 20px;">1</span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span>		2 5-1 10' <span style="margin-left: 100px;">10'</span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;">0940</span> <span style="margin-left: 20px;">S</span> <span style="margin-left: 20px;">1</span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span>		3 5-1 15' <span style="margin-left: 100px;">15'</span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;">0950</span> <span style="margin-left: 20px;">S</span> <span style="margin-left: 20px;">1</span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span>	
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<input type="checkbox"/> Same Day TAT <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span>		<input type="checkbox"/> Level II Std QC <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span> <span style="margin-left: 20px;"></span>			

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Final 1.000

41 MAF  
 6606 3912 3572  
 TRK# 0201  
 FRI - 26 AUG 10 10:00  
 PRIORITY OVERNIGHT  
 79701 TX  
 158163-424 RTT2 0074

FedEx  
 Express  
 538C1/1770/2208

XENCO LABORATORIES  
 1211 W FLORIDA AVE  
 MIDLAND TX 79701  
 (432) 663-1800  
 ZNY  
 PO1

XENCO LABORATORIES  
 4008 N GRIMES  
 MAIL SERVICES ETC, LLC  
 HOBBS, NM 88240  
 UNITED STATES US  
 ORIGIN ID: H08R (678) 392-1880

SHIP DATE: 25AUG16  
 ACTWGT: 14.0 LB MAN  
 CNO: 0809328/CHFE2915  
 DIMS: 14x11x9 IN  
 BILL RECIPIENT



**XENCO Laboratories**  
**Prelogin/Nonconformance Report- Sample Log-In**



Client: Talon LPE

Date/ Time Received: 08/26/2016 10:05:00 AM

Work Order #: 535768

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : r8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	2.1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seal present on shipping container/ cooler?	No
#5 *Custody Seals intact on shipping container/ cooler?	N/A
#6 Custody Seals intact on sample bottles?	Yes
#7 *Custody Seals Signed and dated?	Yes
#8 *Chain of Custody present?	Yes
#9 Sample instructions complete on Chain of Custody?	Yes
#10 Any missing/extra samples?	No
#11 Chain of Custody signed when relinquished/ received?	Yes
#12 Chain of Custody agrees with sample label(s)?	Yes
#13 Container label(s) legible and intact?	Yes
#14 Sample matrix/ properties agree with Chain of Custody?	Yes
#15 Samples in proper container/ bottle?	Yes
#16 Samples properly preserved?	Yes
#17 Sample container(s) intact?	Yes
#18 Sufficient sample amount for indicated test(s)?	Yes
#19 All samples received within hold time?	Yes
#20 Subcontract of sample(s)?	No
#21 VOC samples have zero headspace (less than 1/4 inch bubble)?	N/A
#22 <2 for all samples preserved with HNO <sub>3</sub> , HCL, H <sub>2</sub> SO <sub>4</sub> ? Except for samples for the analysis of HEM or HEM-SGT which are verified by the analysts.	N/A
#23 >10 for all samples preserved with NaAsO <sub>2</sub> +NaOH, ZnAc+NaOH?	N/A

**\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by: Jessica Kramer  
Jessica Kramer

Date: 08/26/2016

Checklist reviewed by: Kelsey Brooks  
Kelsey Brooks

Date: 08/26/2016