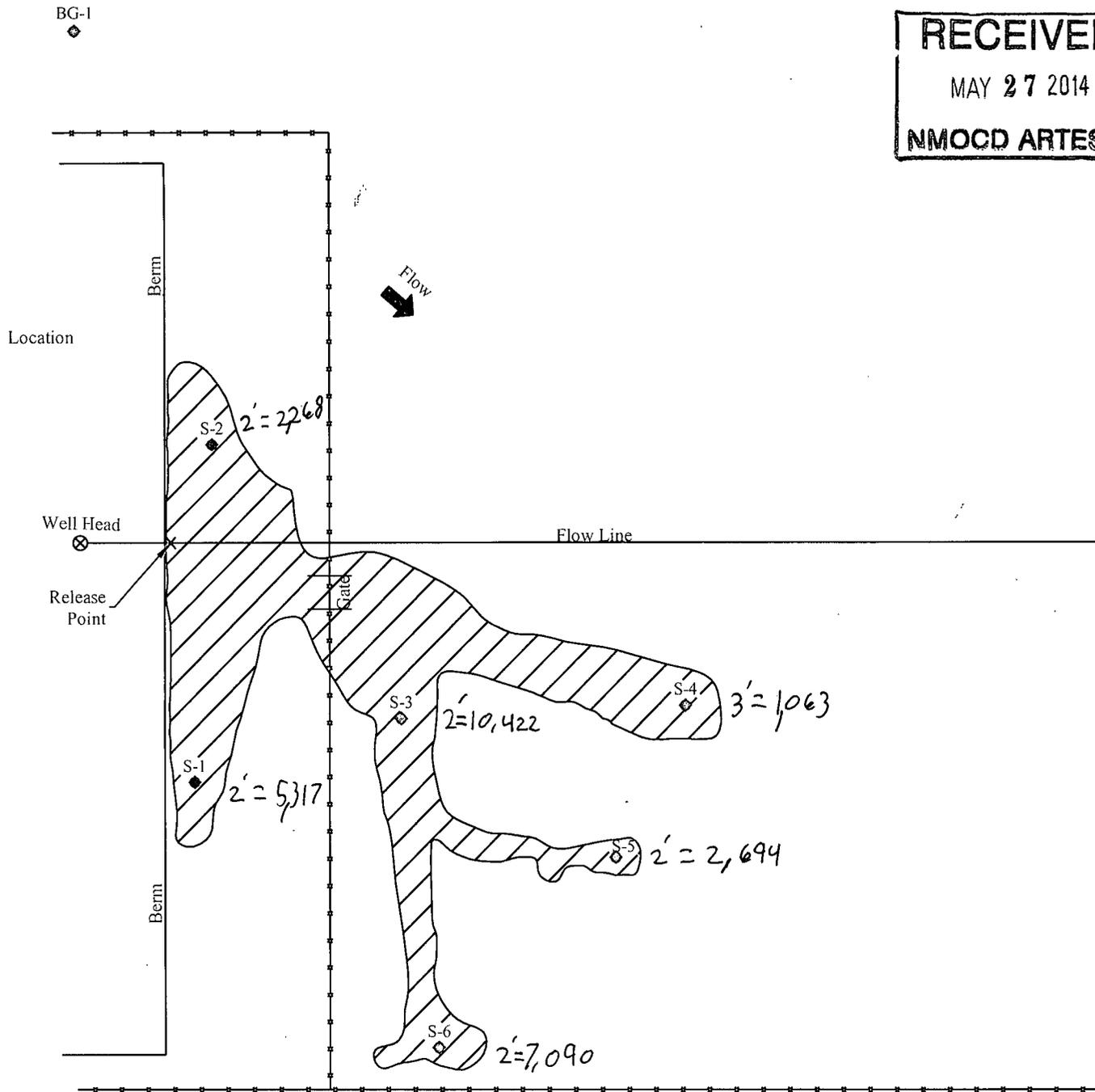


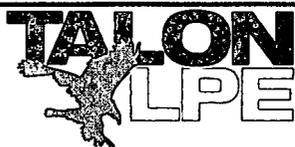
RECEIVED
MAY 27 2014
NMOCD ARTESIA



NTS
Scale in Feet

Legend
◊ - Sample Location
--- - Fence Line

*5/27/14
Further delineation
Revised*



Date: 05/05/2014
Scale: NTS
Drawn By: TJS

Wersell Federal #2
Cimarex Energy
Eddy County, New Mexico
Figure 1 - Site Plan



May 08, 2014

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WERSELL FED #2

Enclosed are the results of analyses for samples received by the laboratory on 04/30/14 17:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/08/2014	Sampling Type:	Soil
Project Name:	WERSELL FED #2	Sampling Condition:	Cool & Intact
Project Number:	701162.056.01	Sample Received By:	Jodi Henson
Project Location:	D-S4-T22S-R27E		

Sample ID: S-1 0' (H401313-01)

BTEX 8260B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2014	ND	2.31	115	2.00	7.09		
Toluene*	<0.050	0.050	05/08/2014	ND	2.34	117	2.00	7.54		
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	2.25	112	2.00	7.31		
Total Xylenes*	<0.150	0.150	05/08/2014	ND	6.84	114	6.00	7.16		
Total BTEX	<0.300	0.300	05/08/2014	ND						

Surrogate: Dibromofluoromethane 97.8 % 61.3-142

Surrogate: Toluene-d8 106 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	23200	16.0	05/05/2014	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/07/2014	ND	160	80.1	200	7.99		
DRO >C10-C28	<10.0	10.0	05/07/2014	ND	176	88.2	200	9.93		

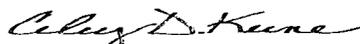
Surrogate: 1-Chlorooctane 98.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.2 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/08/2014	Sampling Type:	Soil
Project Name:	WERSELL FED #2	Sampling Condition:	Cool & Intact
Project Number:	701162.056.01	Sample Received By:	Jodi Henson
Project Location:	D-S4-T22S-R27E		

Sample ID: S-1 1' (H401313-02)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10400	16.0	05/07/2014	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/08/2014	Sampling Type:	Soil
Project Name:	WERSELL FED #2	Sampling Condition:	Cool & Intact
Project Number:	701162.056.01	Sample Received By:	Jodi Henson
Project Location:	D-S4-T22S-R27E		

Sample ID: S-2 0' (H401313-03)

BTEX 8260B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2014	ND	2.31	115	2.00	7.09		
Toluene*	<0.050	0.050	05/08/2014	ND	2.34	117	2.00	7.54		
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	2.25	112	2.00	7.31		
Total Xylenes*	<0.150	0.150	05/08/2014	ND	6.84	114	6.00	7.16		
Total BTEX	<0.300	0.300	05/08/2014	ND						

Surrogate: Dibromofluoromethane 94.9 % 61.3-142

Surrogate: Toluene-d8 104 % 71.3-129

Surrogate: 4-Bromofluorobenzene 99.7 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	19600	16.0	05/07/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/07/2014	ND	160	80.1	200	7.99		
DRO >C10-C28	<10.0	10.0	05/07/2014	ND	176	88.2	200	9.93		

Surrogate: 1-Chlorooctane 106 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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Analytical Results For:

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

Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/08/2014	Sampling Type:	Soil
Project Name:	WERSELL FED #2	Sampling Condition:	Cool & Intact
Project Number:	701162.056.01	Sample Received By:	Jodi Henson
Project Location:	D-S4-T22S-R27E		

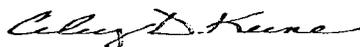
Sample ID: S-2 0' (H401313-04)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	05/07/2014	ND	400	100	400	0.00	

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

Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/08/2014	Sampling Type:	Soil
Project Name:	WERSELL FED #2	Sampling Condition:	Cool & Intact
Project Number:	701162.056.01	Sample Received By:	Jodi Henson
Project Location:	D-S4-T22S-R27E		

Sample ID: S-3 0' (H401313-05)

BTEX 8260B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2014	ND	2.31	115	2.00	7.09		
Toluene*	<0.050	0.050	05/08/2014	ND	2.34	117	2.00	7.54		
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	2.25	112	2.00	7.31		
Total Xylenes*	<0.150	0.150	05/08/2014	ND	6.84	114	6.00	7.16		
Total BTEX	<0.300	0.300	05/08/2014	ND						

Surrogate: Dibromofluoromethane 95.7 % 61.3-142

Surrogate: Toluene-d8 106 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	24400	16.0	05/07/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/07/2014	ND	160	80.1	200	7.99		
DRO >C10-C28	<10.0	10.0	05/07/2014	ND	176	88.2	200	9.93		

Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/08/2014	Sampling Type:	Soil
Project Name:	WERSELL FED #2	Sampling Condition:	Cool & Intact
Project Number:	701162.056.01	Sample Received By:	Jodi Henson
Project Location:	D-S4-T22S-R27E		

Sample ID: S-3 0.5' (H401313-06)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19800	16.0	05/07/2014	ND	400	100	400	0.00	

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Analytical Results For:

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

Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/08/2014	Sampling Type:	Soil
Project Name:	WERSELL FED #2	Sampling Condition:	Cool & Intact
Project Number:	701162.056.01	Sample Received By:	Jodi Henson
Project Location:	D-S4-T22S-R27E		

Sample ID: S-4 0' (H401313-07)

BTEX 8260B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2014	ND	2.31	115	2.00	7.09		
Toluene*	<0.050	0.050	05/08/2014	ND	2.34	117	2.00	7.54		
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	2.25	112	2.00	7.31		
Total Xylenes*	<0.150	0.150	05/08/2014	ND	6.84	114	6.00	7.16		
Total BTEX	<0.300	0.300	05/08/2014	ND						

Surrogate: Dibromofluoromethane 96.8 % 61.3-142

Surrogate: Toluene-d8 108 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	15800	16.0	05/07/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/07/2014	ND	160	80.1	200	7.99		
DRO >C10-C28	<10.0	10.0	05/07/2014	ND	176	88.2	200	9.93		

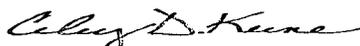
Surrogate: 1-Chlorooctane 98.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/08/2014	Sampling Type:	Soil
Project Name:	WERSELL FED #2	Sampling Condition:	Cool & Intact
Project Number:	701162.056.01	Sample Received By:	Jodi Henson
Project Location:	D-S4-T22S-R27E		

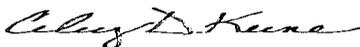
Sample ID: S-4 0.5' (H401313-08)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6100	16.0	05/07/2014	ND	400	100	400	0.00	

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Analytical Results For:

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

Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/08/2014	Sampling Type:	Soil
Project Name:	WERSELL FED #2	Sampling Condition:	Cool & Intact
Project Number:	701162.056.01	Sample Received By:	Jodi Henson
Project Location:	D-S4-T22S-R27E		

Sample ID: S-5 0' (H401313-09)

BTEX 8260B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2014	ND	2.31	115	2.00	7.09		
Toluene*	<0.050	0.050	05/08/2014	ND	2.34	117	2.00	7.54		
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	2.25	112	2.00	7.31		
Total Xylenes*	<0.150	0.150	05/08/2014	ND	6.84	114	6.00	7.16		
Total BTEX	<0.300	0.300	05/08/2014	ND						

Surrogate: Dibromofluoromethane 96.6 % 61.3-142

Surrogate: Toluene-d8 106 % 71.3-129

Surrogate: 4-Bromofluorobenzene 101 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	21000	16.0	05/07/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/07/2014	ND	160	80.1	200	7.99		
DRO >C10-C28	<10.0	10.0	05/07/2014	ND	176	88.2	200	9.93		

Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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Analytical Results For:

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

Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/08/2014	Sampling Type:	Soil
Project Name:	WERSELL FED #2	Sampling Condition:	Cool & Intact
Project Number:	701162.056.01	Sample Received By:	Jodi Henson
Project Location:	D-S4-T22S-R27E		

Sample ID: S-5 0.5' (H401313-10)

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11000	16.0	05/07/2014	ND	400	100	400	0.00	

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

Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/08/2014	Sampling Type:	Soil
Project Name:	WERSELL FED #2	Sampling Condition:	Cool & Intact
Project Number:	701162.056.01	Sample Received By:	Jodi Henson
Project Location:	D-S4-T22S-R27E		

Sample ID: S-6 0' (H401313-11)

BTEX 8260B	mg/kg		Analyzed By: ms							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/08/2014	ND	2.31	115	2.00	7.09		
Toluene*	<0.050	0.050	05/08/2014	ND	2.34	117	2.00	7.54		
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	2.25	112	2.00	7.31		
Total Xylenes*	<0.150	0.150	05/08/2014	ND	6.84	114	6.00	7.16		
Total BTEX	<0.300	0.300	05/08/2014	ND						

Surrogate: Dibromofluoromethane 97.8 % 61.3-142

Surrogate: Toluene-d8 106 % 71.3-129

Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	24800	16.0	05/07/2014	ND	-400	100	400	0.00		

TPH 8015M	mg/kg		Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/07/2014	ND	160	80.1	200	7.99		
DRO >C10-C28	<10.0	10.0	05/07/2014	ND	176	88.2	200	9.93		

Surrogate: 1-Chlorooctane 111 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/30/2014	Sampling Date:	04/29/2014
Reported:	05/08/2014	Sampling Type:	Soil
Project Name:	WERSELL FED #2	Sampling Condition:	Cool & Intact
Project Number:	701162.056.01	Sample Received By:	Jodi Henson
Project Location:	D-S4-T22S-R27E		

Sample ID: S-6 1' (H401313-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13000	16.0	05/07/2014	ND	400	100	400	0.00		

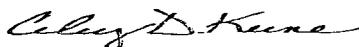
Sample ID: BG-1 0' (H401313-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/07/2014	ND	400	100	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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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

