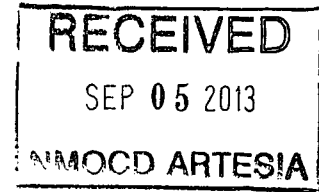




September 4, 2013



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

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

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

Subject: **Soil Assessment and Remediation Work Plan**
Oxy Permian
SDS 11 Federal 1 SWD Battery
API # 30-015-27627 2RP-1704

Dear Mr. Bratcher,

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

Oxy Permian has contracted Talon/LPE (Talon) to perform soil assessment and remediation services for the SDS 11 Federal 1 SWD release. Talon's site assessment, soil sampling results and proposed work plan to perform remediation activities consist of the following:

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

Incident Date

May 13, 2013

OKLAHOMA CITY
7700 North Hudson Avenue
Suite 10
Oklahoma City, Oklahoma 73116
Phone 405.486.7030
Fax 806.467.0622

Background Information

The SDS 11 Federal 1 SWD Battery is located approximately forty (40) miles southeast of Carlsbad, New Mexico. The legal location for the site is Section 11, Township 24 South and Range 31 East in Eddy County, New Mexico. More specifically, the latitude and longitude for the release are 32.23339 North and -103.750704 West.

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

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 Berino complex with 0 to 3 percent slopes, eroded. 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 fine sandy loam underlain by sandy clay loam and hard caliches. Drainage courses in this area are normally dry. The New Mexico State Engineer web site indicates the nearest ground water data to be in S2-T24S-R31E. The ground water in Section 2 is reported to be at depth of 205' below ground surface (bgs). The referenced groundwater data is presented in Appendix I.

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

ENVIRONMENTAL CONSULTING	Depth to ground water	>100'
ENGINEERING	Wellhead Protection Area	>1000'
DRILLING	Distance to surface water body	>1000'
CONSTRUCTION		
SPILL MANAGEMENT		
GENERAL CONTRACTING		

Incident Description

On May 13, 2013 the triplex transfer pump line was found to be leaking causing a release of 20 barrels of produced water. No fluids were recovered. The triplex transfer pump was subsequently replaced. The fluid from this release flowed north and west across the location. It then ran off of the northern side of the location and flowed into the pasture measuring approximately 280-feet long.

Sampling Activities

On May 17, 2013 Talon mobilized personnel to obtain soil samples for the construction of a work plan. Grab soil samples were collected utilizing a hand auger from the surface of the impacted areas to a depth of 3-feet deep. A site plan illustrating the sample locations is attached.

On July 9, 2013 Talon returned to the site to collect deeper vertical delineation samples with a backhoe and again on August 8, 2013 Talon personnel returned to the site to collect additional soil samples using a drill rig. Grab samples were collected from a depth of 12-70 feet below land surface.

The soil samples were collected by Talon personnel wearing clean nitrile gloves. The samples were placed into laboratory provided sample containers, iced and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for TPH (Total Petroleum Hydrocarbons) using EPA Method 8015M, volatile organics (BTEX) using EPA Method 8021B and chlorides were analyzed per method SM4500Cl-B. The complete laboratory reports are attached as Appendix II.

Analytical Results

Analytical results received from Cardinal Laboratories are summarized below:

Date of Lab Report: May 24, 2013

<u>Sample</u>	<u>Depth</u>	<u>BTEX</u>	<u>Chlorides</u>	<u>TPH (mg/kg)</u>
S-1	0'	1.22	45600	1520
	1'	<0.300	2380	<10
	2'	<0.300	432	<10
S-2	0'	<0.300	21600	763
	1'	<0.300	18800	<10
	2'	<0.300	304	<10

Date of Lab Report: May 24, 2013, cont.

<u>Sample</u>	<u>Depth</u>	<u>BTEX</u>	<u>Chlorides</u>	<u>TPH (mg/kg)</u>
S-3	0'	<0.300	20400	216
	1'	<0.300	12000	17
	2'	<0.300	11200	<10
	3'	--	12400	--
S-4	0'	<0.300	29200	<10
	1'	<0.300	5120	<10
	2'	<0.300	2720	<10
	3'	--	3680	--

--Analyte Not Tested

Date of Lab Report: July 15, 2013

<u>Sample</u>	<u>Depth</u>	<u>BTEX</u>	<u>Chlorides</u>	<u>TPH (mg/kg)</u>
S-1	12'	--	2560	--
S-2	10'	--	10100	--
S-3	4'	--	2960	--
S-4	4'	--	1580	--

Date of Lab Report: August 14, 2013

<u>Sample</u>	<u>Depth</u>	<u>BTEX</u>	<u>Chlorides</u>	<u>TPH (mg/kg)</u>
S-2	30'	--	1540	--
	40'	--	864	--
	50'	--	3480	--
	60'	--	576	--
	70'	--	464	--

--Analyte Not Tested

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 cleanup levels are considered to be 1,000 mg/kg.

Actions Taken

On August 28, 2013 Talon personnel met with NMOCD Environmental Specialist Mike Bratcher to review the previous environmental remediation at this location which included the installation of a liner.

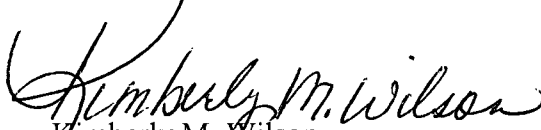
Proposed Remedial Actions


- The impacted area from this release will be excavated to a depth of 1.5-feet below land surface on and off the location. The excavated soil will be transported to a NMOCD approved solid waste disposal facility.
- The pre-existing liner (in the vicinity of S-2) will be repaired with a welded 20 mil liner patch and felt padding.
- The excavated area on location will be backfilled to grade using new caliche backhauled from a local borrow pit and the location will be reconstructed.
- A clay liner will be installed in the excavated flow path off the location over the historic pit area. The work area will be backfilled with clean sandy top soil and contoured to match the surrounding terrain.
- The area excavated off location will be seeded with the recommended BLM seed mixture for the area.
- A final closure report documenting all remedial actions and analytical results will be provided to Oxy, the NMOCD Artesia Office and the BLM along with a Final C-141 form.

If we can provide additional information or be of further assistance please contact our office at 575.746.8768.

Respectfully submitted,

TALON/LPE

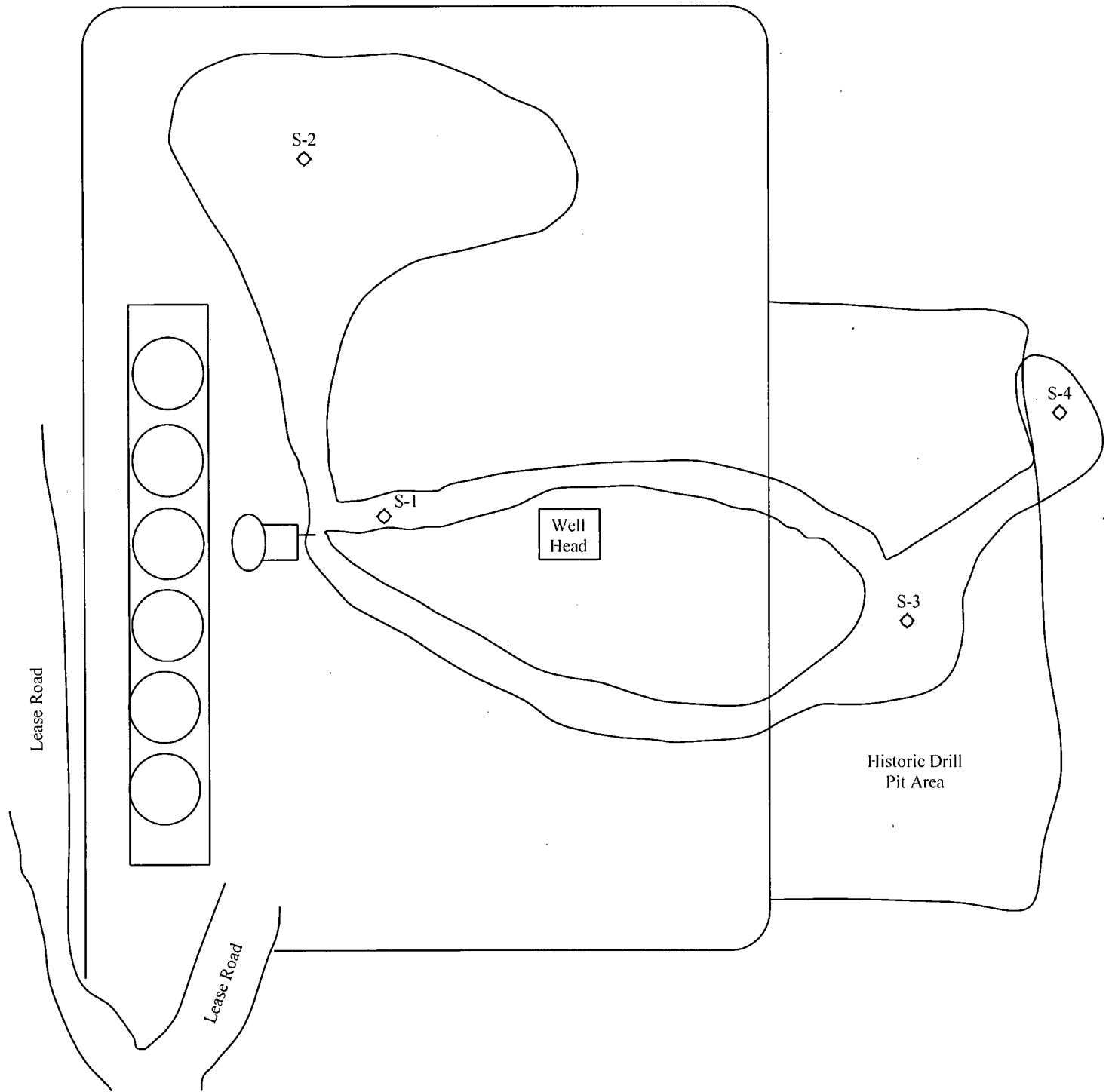

Kimberly M. Wilson
Project Manager


David J. Adkins
District Manager

SITE MAP

1

2



NTS



Scale in Feet

Legend

◇ - Sample Location



Date: 09/04/2013

Scale: NTS

Drawn By: TJS

SDS 11 Fed 1 SWD
Oxy USA, Inc
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	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth	Well	Depth	Water	Water Column
C_02460		C	ED				3 02	24S	31E	617496	3568022*	1279		320			
C_02460 POD2		C	ED				3 02	24S	31E	617496	3568022*	1279		320			
C_02464		C	ED	3	4	1	02	24S	31E	617589	3568530*	1747		320		205	115
C_02440		C	ED	2	3	10	24S	31E	616103	3566599*	1826		350				
C_02405		C	ED	4	1	02	24S	31E	617690	3568631*	1831		275		160	115	

Average Depth to Water: **182 feet**

Minimum Depth: **160 feet**

Maximum Depth: **205 feet**

Record Count: 5

UTM NAD83 Radius Search (in meters):

Easting (X): 617917

Northing (Y): 3566814

Radius: 2000

*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.

6/20/13 10:40 AM

WATER COLUMN/ AVERAGE DEPTH TO
WATER

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

OTM 1318437317 OPERATOR ☒ Initial Report ☐ Final Report

Name of Company Oxy Permian <u>16696</u>	Contact C.J. Summers
Address 102 S. Main St. Carlsbad, NM 88220	Telephone No. 575-397-8216
Facility Name SDS 11 Federal 1 SWD Battery	Facility Type SWD

Surface Owner BLM	Mineral Owner BLM	API No. 30-015-27627
-------------------	-------------------	----------------------

LOCATION OF RELEASE

Unit Letter F	Section 11	Township 24S	Range 31E	Feet from the 2090	North/South Line North	Feet from the 1980	East/West Line West	County Eddy
------------------	---------------	-----------------	--------------	-----------------------	---------------------------	-----------------------	------------------------	----------------

Latitude 32.23339 Longitude -103.75070

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 20 bbls	Volume Recovered 0 bbls
Source of Release Transfer Pump	Date and Hour of Occurrence May 13, 2013 Time: Unknown	Date and Hour of Discovery May 13, 2013 Time: Unknown
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jim Amos of the BLM and Mike Bratcher of NMOCD	
By Whom? C.J. Summers	Date and Hour 5/15/2013 @ 1:38 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	


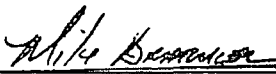
If a Watercourse was Impacted, Describe Fully.*

RECEIVED
JUN 26 2013
NMOCD ARTESIA

Describe Cause of Problem and Remedial Action Taken.*
The release was due to a leak on the triplex transfer pump line. Initial remedial actions will be conducted by Oxy. Talon/LPE was contracted to perform an initial site assessment and soil sampling. Upon receipt of analytical results from the soil sampling activities a work plan will be drafted and remedial activities will begin upon its approval.

Describe Area Affected and Cleanup Action Taken.*
The fluid from this release flowed north and west across the location. The fluid ran off of the Northern side of the location and flowed into the pasture for approximately 280-feet. Talon/LPE collected soil samples on the location as well as in the flow path running in the pasture.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: C.J. Summers	Approved by Environmental Specialist: Signed By 	
Title: HES Advisor	Approval Date: JUL 03 2013	Expiration Date:
E-mail Address: Chancey_Summers@oxy.com	Conditions of Approval: Remediation per OCD Rule & Guidelines, & like approval by BLM. SUBMIT REMEDIATION PROPOSAL NO LATER THAN:	Attached <input type="checkbox"/>
Date: <u>6-20-13</u> Phone: 575-397-8216		

* Attach Additional Sheets If Necessary

August 3rd, 2013 **2RP-1704**

APPENDIX II
LABORATORY RESULTS



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

May 24, 2013

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: SDS 11 FED #1 SWD

Enclosed are the results of analyses for samples received by the laboratory on 05/21/13 8:00.

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.

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: 05/21/2013
 Reported: 05/24/2013
 Project Name: SDS 11 FED #1 SWD
 Project Number: NONE GIVEN
 Project Location: S11- T24S - R31E

 Sampling Date: 05/17/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Daniel Wade

Sample ID: S-1 0' (H301207-01)

BTEX 8021B			mg/kg		Analyzed By: AP			S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/23/2013	ND	2.29	114	2.00	2.88		
Toluene*	0.255	0.050	05/23/2013	ND	2.08	104	2.00	1.96		
Ethylbenzene*	0.169	0.050	05/23/2013	ND	2.32	116	2.00	2.27		
Total Xylenes*	0.792	0.150	05/23/2013	ND	6.70	112	6.00	2.65		
Total BTEX	1.22	0.300	05/23/2013	ND						

Surrogate: 4-Bromofluorobenzene (PID) 160 % 89.4-126

Chloride, SM4500Cl-B			mg/kg					Analyzed By: DW	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	45600	16.0	05/22/2013	ND	448	112	400	3.64	

TPH 8015M			mg/kg					Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	05/22/2013	ND	206	103	200	4.75	
DRO >C10-C28	1520	50.0	05/22/2013	ND	200	100	200	6.06	

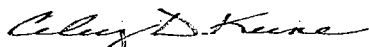
Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 152 % 63.6-154

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:	05/21/2013	Sampling Date:	05/17/2013
Reported:	05/24/2013	Sampling Type:	Soil
Project Name:	SDS 11 FED #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Daniel Wade
Project Location:	S11- T24S - R31E		

Sample ID: S-1 1' (H301207-02)

BTX 8021B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2013	ND	2.29	114	2.00	2.88	
Toluene*	<0.050	0.050	05/23/2013	ND	2.08	104	2.00	1.96	
Ethylbenzene*	<0.050	0.050	05/23/2013	ND	2.32	116	2.00	2.27	
Total Xylenes*	<0.150	0.150	05/23/2013	ND	6.70	112	6.00	2.65	
Total BTX	<0.300	0.300	05/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: DW				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2380	16.0	05/22/2013	ND	448	112	400	3.64	

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	05/22/2013	ND	206	103	200	4.75	
DRO >C10-C28	<10.0	10.0	05/22/2013	ND	200	100	200	6.06	

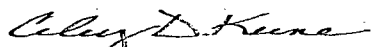
Surrogate: 1-Chlorooctane 106 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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:	05/21/2013	Sampling Date:	05/17/2013
Reported:	05/24/2013	Sampling Type:	Soil
Project Name:	SDS 11 FED #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Daniel Wade
Project Location:	S11- T24S - R31E		

Sample ID: S-1 2' (H301207-03)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2013	ND	2.29	114	2.00	2.88	
Toluene*	<0.050	0.050	05/23/2013	ND	2.08	104	2.00	1.96	
Ethylbenzene*	<0.050	0.050	05/23/2013	ND	2.32	116	2.00	2.27	
Total Xylenes*	<0.150	0.150	05/23/2013	ND	6.70	112	6.00	2.65	
Total BTEX	<0.300	0.300	05/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	05/22/2013	ND	448	112	400	3.64	

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	05/22/2013	ND	206	103	200	4.75	
DRO >C10-C28	<10.0	10.0	05/22/2013	ND	200	100	200	6.06	

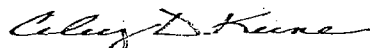
Surrogate: 1-Chlorooctane 106 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 63.6-154

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:	05/21/2013	Sampling Date:	05/17/2013
Reported:	05/24/2013	Sampling Type:	Soil
Project Name:	SDS 11 FED #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Daniel Wade
Project Location:	S11- T24S - R31E		

Sample ID: S-2 0' (H301207-04)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/24/2013	ND	2.29	114	2.00	2.88		
Toluene*	0.057	0.050	05/24/2013	ND	2.08	104	2.00	1.96		
Ethylbenzene*	<0.050	0.050	05/24/2013	ND	2.32	116	2.00	2.27		
Total Xylenes*	<0.150	0.150	05/24/2013	ND	6.70	112	6.00	2.65		
Total BTEX	<0.300	0.300	05/24/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 113 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	21600	16.0	05/22/2013	ND	448	112	400	3.64		

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	05/22/2013	ND	206	103	200	4.75		
DRO >C10-C28	763	10.0	05/22/2013	ND	200	100	200	6.06		

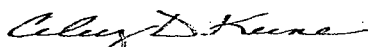
Surrogate: 1-Chlorooctane 109 % 65.2-140

Surrogate: 1-Chlorooctadecane 132 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	05/21/2013	Sampling Date:	05/17/2013
Reported:	05/24/2013	Sampling Type:	Soil
Project Name:	SDS 11 FED #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Daniel Wade
Project Location:	S11- T24S - R31E		

Sample ID: S-2 1' (H301207-05)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/23/2013	ND	2.29	114	2.00	2.88		
Toluene*	<0.050	0.050	05/23/2013	ND	2.08	104	2.00	1.96		
Ethylbenzene*	<0.050	0.050	05/23/2013	ND	2.32	116	2.00	2.27		
Total Xylenes*	<0.150	0.150	05/23/2013	ND	6.70	112	6.00	2.65		
Total BTEX	<0.300	0.300	05/23/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 116 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18800	16.0	05/22/2013	ND	448	112	400	3.64	

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	05/22/2013	ND	206	103	200	4.75		
DRO >C10-C28	<10.0	10.0	05/22/2013	ND	200	100	200	6.06		


Surrogate: 1-Chlorooctane 108 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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Analytical Results For:

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

 Received: 05/21/2013
 Reported: 05/24/2013
 Project Name: SDS 11 FED #1 SWD
 Project Number: NONE GIVEN
 Project Location: S11- T24S - R31E

 Sampling Date: 05/17/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Daniel Wade

Sample ID: S-2 2' (H301207-06)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2013	ND	2.29	114	2.00	2.88	
Toluene*	<0.050	0.050	05/23/2013	ND	2.08	104	2.00	1.96	
Ethylbenzene*	<0.050	0.050	05/23/2013	ND	2.32	116	2.00	2.27	
Total Xylenes*	<0.150	0.150	05/23/2013	ND	6.70	112	6.00	2.65	
Total BTX	<0.300	0.300	05/23/2013	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/22/2013	ND	448	112	400	3.64	

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	05/22/2013	ND	206	103	200	4.75	
DRO >C10-C28	<10.0	10.0	05/22/2013	ND	200	100	200	6.06	

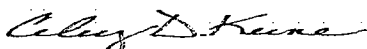
Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 119 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/21/2013
Reported: 05/24/2013
Project Name: SDS 11 FED #1 SWD
Project Number: NONE GIVEN
Project Location: S11- T24S - R31E

Sampling Date: 05/17/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Daniel Wade

Sample ID: S-3 0' (H301207-07)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2013	ND	2.29	114	2.00	2.88	
Toluene*	<0.050	0.050	05/23/2013	ND	2.08	104	2.00	1.96	
Ethylbenzene*	<0.050	0.050	05/23/2013	ND	2.32	116	2.00	2.27	
Total Xylenes*	<0.150	0.150	05/23/2013	ND	6.70	112	6.00	2.65	
Total BTEX	<0.300	0.300	05/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20400	16.0	05/22/2013	ND	448	112	400	3.64	

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	05/22/2013	ND	206	103	200	4.75	
DRO >C10-C28	216	10.0	05/22/2013	ND	200	100	200	6.06	

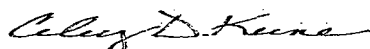
Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 118 % 63.6-154

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Analytical Results For:

 TALON LPE
 DAVID ADKINS
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 Fax To: (575) 745-8905

Received:	05/21/2013	Sampling Date:	05/17/2013
Reported:	05/24/2013	Sampling Type:	Soil
Project Name:	SDS 11 FED #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Daniel Wade
Project Location:	S11- T24S - R31E		

Sample ID: S-3 1' (H301207-08)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2013	ND	2.29	114	2.00	2.88	
Toluene*	<0.050	0.050	05/23/2013	ND	2.08	104	2.00	1.96	
Ethylbenzene*	<0.050	0.050	05/23/2013	ND	2.32	116	2.00	2.27	
Total Xylenes*	<0.150	0.150	05/23/2013	ND	6.70	112	6.00	2.65	
Total BTX	<0.300	0.300	05/23/2013	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12000	16.0	05/22/2013	ND	448	112	400	3.64	

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	05/22/2013	ND	206	103	200	4.75	
DRO >C10-C28	17.0	10.0	05/22/2013	ND	200	100	200	6.06	


Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 120 % 63.6-154

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Analytical Results For:

 TALON LPE
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 Received: 05/21/2013
 Reported: 05/24/2013
 Project Name: SDS 11 FED #1 SWD
 Project Number: NONE GIVEN
 Project Location: S11- T24S - R31E

 Sampling Date: 05/17/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Daniel Wade

Sample ID: S-3 2' (H301207-09)

BTEX 8021B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2013	ND	2.29	114	2.00	2.88	
Toluene*	<0.050	0.050	05/23/2013	ND	2.08	104	2.00	1.96	
Ethylbenzene*	<0.050	0.050	05/23/2013	ND	2.32	116	2.00	2.27	
Total Xylenes*	<0.150	0.150	05/23/2013	ND	6.70	112	6.00	2.65	
Total BTEX	<0.300	0.300	05/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 116 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: DW				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11200	16.0	05/22/2013	ND	448	112	400	3.64	

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	05/22/2013	ND	206	103	200	4.75	
DRO >C10-C28	<10.0	10.0	05/22/2013	ND	200	100	200	6.06	

Surrogate: 1-Chlorooctane 113 % 65.2-140

Surrogate: 1-Chlorooctadecane 121 % 63.6-154


Sample ID: S-3 3' (H301207-10)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: DW				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12400	16.0	05/22/2013	ND	448	112	400	3.64	

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Analytical Results For:

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

Received:	05/21/2013	Sampling Date:	05/17/2013
Reported:	05/24/2013	Sampling Type:	Soil
Project Name:	SDS 11 FED #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Daniel Wade
Project Location:	S11- T24S - R31E		

Sample ID: S-4 0' (H301207-11)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2013	ND	2.29	114	2.00	2.88	
Toluene*	<0.050	0.050	05/23/2013	ND	2.08	104	2.00	1.96	
Ethylbenzene*	<0.050	0.050	05/23/2013	ND	2.32	116	2.00	2.27	
Total Xylenes*	<0.150	0.150	05/23/2013	ND	6.70	112	6.00	2.65	
Total BTEX	<0.300	0.300	05/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 117 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	29200	16.0	05/22/2013	ND	432	108	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	05/22/2013	ND	206	103	200	4.75	
DRO >C10-C28	<10.0	10.0	05/22/2013	ND	200	100	200	6.06	


Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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Analytical Results For:

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

 Received: 05/21/2013
 Reported: 05/24/2013
 Project Name: SDS 11 FED #1 SWD
 Project Number: NONE GIVEN
 Project Location: S11- T24S - R31E

 Sampling Date: 05/17/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Daniel Wade

Sample ID: S-4 1' (H301207-12)

BTEx 8021B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2013	ND	2.29	114	2.00	2.88	
Toluene*	<0.050	0.050	05/23/2013	ND	2.08	104	2.00	1.96	
Ethylbenzene*	<0.050	0.050	05/23/2013	ND	2.32	116	2.00	2.27	
Total Xylenes*	<0.150	0.150	05/23/2013	ND	6.70	112	6.00	2.65	
Total BTEx	<0.300	0.300	05/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 118 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: DW				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	05/22/2013	ND	432	108	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	05/22/2013	ND	206	103	200	4.75	
DRO >C10-C28	<10.0	10.0	05/22/2013	ND	200	100	200	6.06	

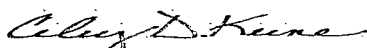
Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 122 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	05/21/2013	Sampling Date:	05/17/2013
Reported:	05/24/2013	Sampling Type:	Soil
Project Name:	SDS 11 FED #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Daniel Wade
Project Location:	S11- T24S - R31E		

Sample ID: S-4 2' (H301207-13)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/23/2013	ND	2.29	114	2.00	2.88	
Toluene*	<0.050	0.050	05/23/2013	ND	2.08	104	2.00	1.96	
Ethylbenzene*	<0.050	0.050	05/23/2013	ND	2.32	116	2.00	2.27	
Total Xylenes*	<0.150	0.150	05/23/2013	ND	6.70	112	6.00	2.65	
Total BTEX	<0.300	0.300	05/23/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 118 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	05/22/2013	ND	432	108	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	05/22/2013	ND	206	103	200	4.75	
DRO >C10-C28	<10.0	10.0	05/22/2013	ND	200	100	200	6.06	

Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

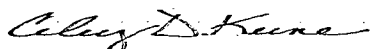
Sample ID: S-4 3' (H301207-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	05/22/2013	ND	432	108	400	0.00	

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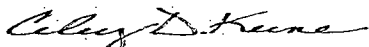
Notes and Definitions

- 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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 15 of 16

Company Name: Talon/LPE						BILL TO								ANALYSIS REQUEST															
Project Manager: D. Atkins						P.O. #:																							
Address: 408 W. Texas Ave.						Company: Talon/LPE																							
City: Artesia State: NM Zip: 88210						Attn:																							
Phone #: 575-746-8768 Fax #: 575-746-8905						Address:																							
Project #: Project Owner: OXY						City:																							
Project Name: SDS II Fed 1 SWD						State: Zip:																							
Project Location: 311-T245-R31E						Phone #:																							
Sampler Name: Sheldon Hitchcock						Fax #:																							
FOR LAB USE ONLY						MATRIX						PRESERV.						SAMPLING											
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					
H301207																													
1 5-1 0'						5												5-17-13 1:40											
2 5-1 1'																		1:45											
3 5-1 2'																		1:47											
4 5-2 0'																		1:50											
5 5-2 1'																		1:52											
6 5-2 2'																		1:55											
7 5-3 0'																		2:02											
8 5-3 1'																		2:04											
9 5-3 2'																		2:07											
10 5-3 3'																		2:10											

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Relinquished By:		Date: 5/21/13	Received By:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
<i>Sheldon Adams</i>		Time: 8:00am	<i>Paul C. Wade</i>	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:	REMARKS:	
		Time:			

Delivered By: (Circle One)		Sample Condition		CHECKED BY:	
Sampler - UPS - Bus - Other:		Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		(Initials) <i>[Signature]</i>	

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

05-393-2676
#54



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

July 15, 2013

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: SDS 11 FED #1 SWD

Enclosed are the results of analyses for samples received by the laboratory on 07/12/13 14:50.

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.

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,

A handwritten signature in black ink, reading "Coley D. Keene". The signature is written in a cursive, flowing style.

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: 07/12/2013
 Reported: 07/15/2013
 Project Name: SDS 11 FED #1 SWD
 Project Number: 700608.201.01
 Project Location: S11- T24S - R31E

 Sampling Date: 07/09/2013
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: S-1 12' (H301642-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	07/15/2013	ND	400	100	400	0.00	

Sample ID: S-2 10' (H301642-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10100	16.0	07/15/2013	ND	400	100	400	0.00	

Sample ID: S-3 4' (H301642-03)

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	07/15/2013	ND	400	100	400	0.00		

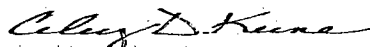
Sample ID: S-4 4' (H301642-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	07/15/2013	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

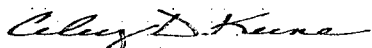
Notes and Definitions

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

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

Company Name: Talon/LPE				BILL TO				ANALYSIS REQUEST																															
Project Manager: D. Adkins				P.O. #:				<div>chlorides</div>																															
Address: 408 W. TEXAS AVE.				Company: Talon/LPE																																			
City: Artesia State: NM Zip: 88210				Attn:																																			
Phone #: 575-746-8768 Fax #: 575-746-8906				Address:																																			
Project #: 700608, 201 Project Owner: ORX				City:																																			
Project Name: SDS II Fed 1				State: Zip:																																			
Project Location:				Phone #:																																			
Sampler Name: Ken SWIFT				Fax #:																																			
FOR LAB USE ONLY																																							
Lab I.D.		Sample I.D.		MATRIX				PRESERV.		SAMPLING																													
				GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE/COOL		OTHER:		DATE		TIME															
H3011642				G/RAB OR (C)OMP.		# CONTAINERS																																	
1		S-1 12'		G		1																		7-9-17		7:30													
2		S-2 10'		G		1																		7-9-13		4:12													
3		S-3 4'		G		1																		7-10-17		8:30													
4		S-4 4'		G		1																		7-10-13		9:02													



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

August 14, 2013

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: S D S

Enclosed are the results of analyses for samples received by the laboratory on 08/12/13 12:20.

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.

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: 08/12/2013
Reported: 08/14/2013
Project Name: S D S
Project Number: 700608.204.01
Project Location: NONE GIVEN

Sampling Date: 08/07/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 30' (H301905-01)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1540	16.0	08/14/2013	ND	432	108	400	3.77	

Sample ID: S-2 40' (H301905-02)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	08/14/2013	ND	432	108	400	3.77	

Sample ID: S-2 50' (H301905-03)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3480	16.0	08/14/2013	ND	432	108	400	3.77	

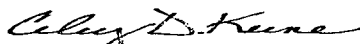
Sample ID: S-2 60' (H301905-04)

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	08/14/2013	ND	432	108	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: 08/12/2013
Reported: 08/14/2013
Project Name: S D S
Project Number: 700608.204.01
Project Location: NONE GIVEN

Sampling Date: 08/07/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

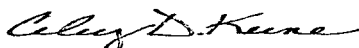
Sample ID: S-2 70' (H301905-05)**Chloride, SM4500Cl-B****mg/kg****Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	08/14/2013	ND	432	108	400	3.77	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

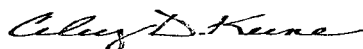
Notes and Definitions

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

Page 5 of 5

Company Name: <u>Talon / LPE</u>		BILL TO		ANALYSIS REQUEST																						
Project Manager: <u>D. Adkins</u>		P.O. #:																								
Address: <u>408 W Texas Ave.</u>		Company: <u>Talon</u>																								
City: <u>Artesia</u> State: <u>NM</u> Zip: <u>88210</u>		Attn:																								
Phone #: <u>575-246-8268</u> Fax #: <u>575-246-8205</u>		Address:																								
Project #: <u>700603.201.0.1</u> Project Owner: <u>Oxy</u>		City:																								
Project Name: <u>SOS</u>		State: Zip:																								
Project Location:		Phone #:																								
Sampler Name: <u>Gabriel Barza</u>		Fax #:																								
FOR LAB USE ONLY		MATRIX		PRESERV.		SAMPLING																				
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME												
<u>H30905</u>																										
<u>1</u>	<u>S-2 30'</u>	<u>G</u>				<u>X</u>				<u>X</u>			<u>8/2/13</u>	<u>1:28</u>	<u>Claims</u>											
<u>2</u>	<u>S-2 40'</u>	<u>G</u>				<u>X</u>				<u>X</u>			<u>1:33</u>		<u>X</u>											
<u>3</u>	<u>S-2 50'</u>	<u>G</u>				<u>X</u>				<u>X</u>			<u>1:40</u>		<u>X</u>											
<u>4</u>	<u>S-2 60'</u>	<u>G</u>				<u>X</u>				<u>X</u>			<u>1:54</u>		<u>X</u>											
<u>5</u>	<u>S-2 70'</u>	<u>G</u>				<u>X</u>				<u>X</u>			<u>1:56</u>		<u>X</u>											

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Relinquished By: <u>[Signature]</u>	Date: <u>8/12/13</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <u>[Signature]</u>	Date: <u>8/12/13</u>	Received By: <u>[Signature]</u>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <u>4.20</u>			REMARKS:	
Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			CHECKED BY: <u>[Signature]</u>	

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

#54