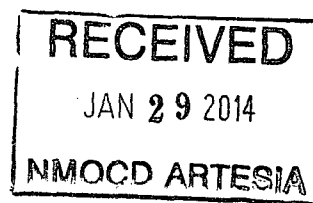




January 29, 2014



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

ARTESIA
408 West Texas Ave.
Artesia, New Mexico 88210
Phone 575.746.8768
Fax 575.748.8905

HOBBS
318 East Taylor Street
Hobbs, New Mexico 88241
Phone 505.393.4261
Fax 505.393.4658

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

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

SAN ANTONIO
13111 Lookout Way
San Antonio, TX 78233
Phone 210.265.8025
Fax 210.568.2191

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

Subject: **Soil Assessment and Remediation Work Plan**
Judah Oil, LLC
Oxy T-Bone Federal #1 SWD
API # 30-015-32122
AMENDED

Dear Mr. Bratcher,

Judah Oil, LLC has contracted Talon/LPE (Talon) to perform soil assessment and remediation services for the Oxy T-Bone Federal #1 SWD. The results of our soil assessment and proposed remediation activities consist of the following:

Background Information

The Oxy T-Bone Federal #1 SWD is located approximately thirty (30) miles southeast of Carlsbad, New Mexico. The legal location for the site is Section 33, Township 18 South and Range 33 East in Eddy County, New Mexico. More specifically, the Latitude and Longitude for the release are 32.709438 North and -103.876617 West.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Berino complex with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Quaternary in age and is comprised of eolian sands and piedmont deposits which include silty soils underlain with sandy clay loam and hard caliche. Drainage courses in this area are normally dry. According to the Texaco/Chevron Eddy County Water Trend Data Map (2005), the depth to groundwater is approximately 325-feet deep.

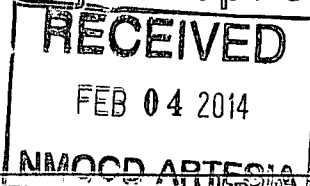
The ranking for this site is 0 based on the as following:

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

ENVIRONMENTAL CONSULTING
ENGINEERING
DRILLING
CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING



For use @ Field Meetings
Judah Oil
Oxy-T-Bone Field
Project Map / Site Diagram



DRAW NORTH
ARROW HERE

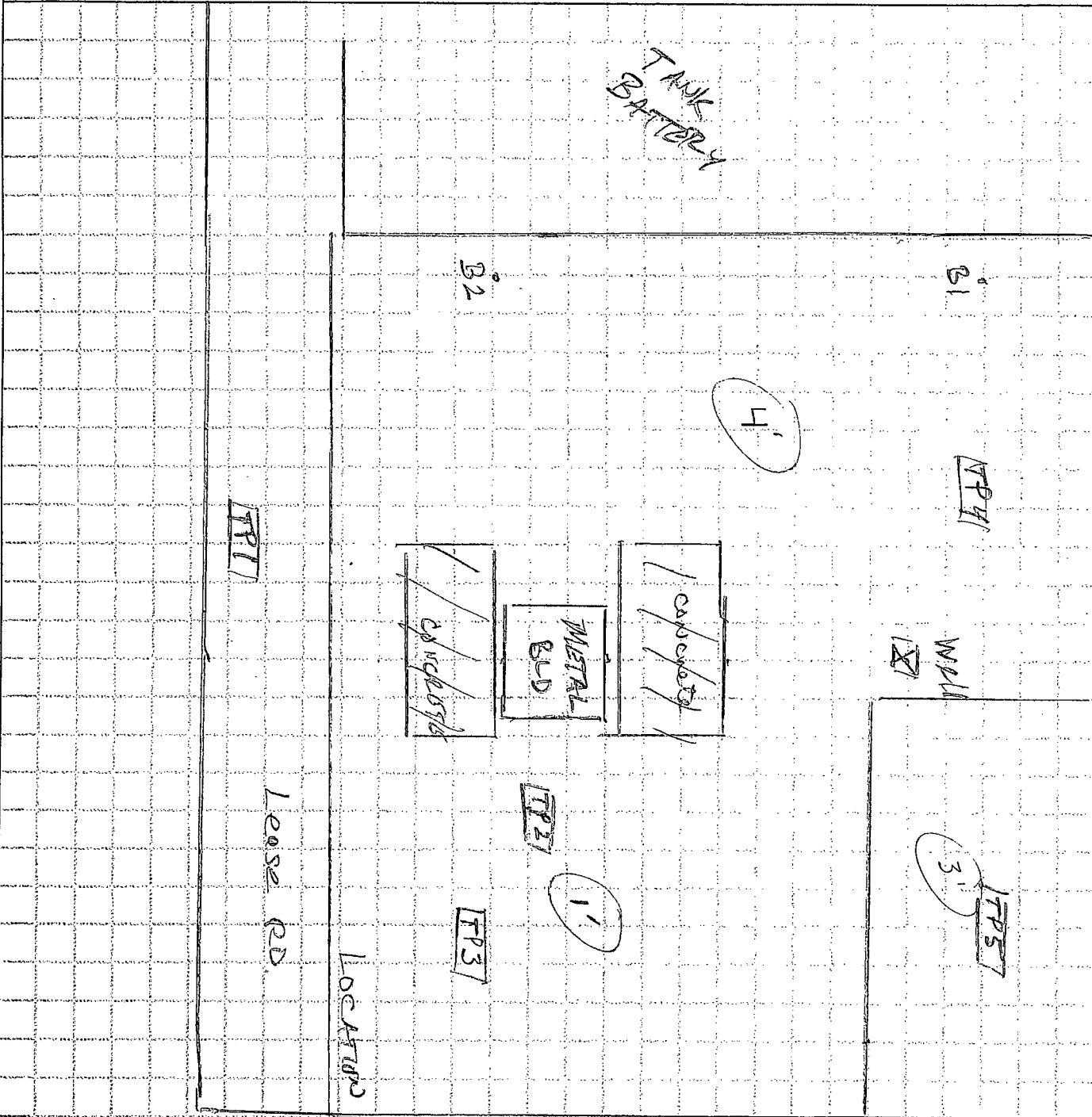


AMARILLO • AUSTIN • MIDLAND • SAN ANTONIO • TYLER • TULSA, OK • ARTESIA, NM • HOBBS, NM

Date: 2/4/14 Time: _____ Project Manager: D. ADKINS

Project Number and Name:

Notes:



Document must be submitted
with Drafting Request Form

Prepared by:

DSA

Page 1 of 1

Select One:
Scaled (1" = 30') / Measured

Actions Taken

On January 9, 2014 Talon mobilized personnel to begin the site assessment and soil sampling for the construction of a work plan. Grab soil samples were collected utilizing a drill rig to a depth of 30-feet deep below ground surface around the tank battery. Soil sample locations are illustrated on the attached site plan.

On January 14, 2014 Talon returned to collect additional soil samples on the location. Grab soil samples were collected utilizing a backhoe to a depth of 12-feet deep.

All soil samples were collected by Talon personnel wearing clean nitrile gloves. The soil samples were placed in 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, and volatile organics (BTEX) using EPA Method 8021B. The chloride samples were analyzed per method SM4500Cl-B. The complete laboratory report is attached.

Analytical Results

Analytical results received from Cardinal Laboratories are summarized below:

January 21, 2014

<u>Sample</u>	<u>Depth</u>	<u>BTEX</u>	<u>TPH</u>	<u>Chlorides (mg/kg)</u>
BH-1	5'	<0.300	<10	3360
	10'	--	--	7040
	15'	--	--	1060
	20'	--	--	592
BH-2	5'	<0.300	14.1	2680
	10'	--	--	1920
	15'	--	--	1500
	20'	--	--	1600
	25'	--	--	1380
	30'	--	--	1400
BH-3	5'	<0.300	<10	<16
	10'	--	--	128
	15'	--	--	1310
	20'	--	--	816
BH-4	5'	<0.300	<10	256
	10'	--	--	<16
	15'	--	--	336
	20'	--	--	288

<u>Sample</u>	<u>Depth</u>	<u>BTEX</u>	<u>TPH</u>	<u>Chlorides (mg/kg)</u>
TP-1	0'	<0.300	<10	1400
	4'	--	--	2280
	8'	--	--	416
	12'	--	--	624
TP-2	0'	<0.300	<10	21800
	2'	<0.300	<10	160
	4'	<0.300	<10	224
	6'	<0.300	<10	128
	8'	--	--	224
	12'	--	--	176
TP-3	0'	<0.300	387	4160
	4'	--	--	432
	8'	--	--	192
	12'	--	--	416
TP-4	0'	<0.300	<10	6560
	4'	--	--	3600
	8'	--	--	1730
	10'	--	--	2680
TP-5	0'	<0.300	<10	7120
	4'	--	--	1660
	8'	--	--	112
	10'	--	--	1170

--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 5000 mg/kg.

Proposed Remedial Actions

- The tank battery area will excavated to a depth of 8-feet deep. The excavated area will then be backfilled to a depth of 4-feet deep and a 40 mil liner will be installed. A layer of sand will be placed on the liner to protect its structural integrity before the tanks are set. The bottom of the battery will be will be constructed with a slight slope to facilitate drainage.
- Lined berms will be constructed around the battery following the installation of the storage tanks. The liner will be extended eastward to THE truck load outs over a slight swale created on the location which will collect future releases from truck loading/unloading operations. A copy of BLM construction recommendations is attached. This liner will be placed 1-foot below the surface, capped with 6-inches of clay and 6-inches of caliche. Additional lined berms will be constructed on the north and south sides of the lined collection area for containment.

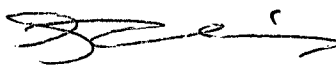
- The impacted area on the location in the vicinity of test pit sample location TP-1 and sample location TP-4 will be excavated to a depth of 4-feet deep. Confirmation soil samples will be collected from the sidewalls of the excavated area. The soil samples will be tested utilizing the field titration test method for chlorides to guide the excavation process.
- The impacted area in the vicinity of test pit sample locations TP-2 and TP-3 will be excavated to a depth of 1-foot deep. Confirmation soil samples will be collected from the sidewalls of the excavated area and field titrated.
- The impacted area in the vicinity of TP-5 will be excavated to a depth of 3-feet deep. Confirmation soil samples will be collected from the bottom and sidewalls of the excavated area. The soil samples will be tested utilizing the field titration test method for chlorides as previously described.
- All excavated soil will be transported to a NMOCD approved solid waste disposal facility, Lea Land, LLC.
- Upon approval of the confirmation samples from the NMOCD and BLM, the excavated areas on location will then be backfilled to grade using new material transported from a local borrow pit and contoured to match the surrounding location.
- A final report documenting all field activities, an updated site map, sampling results and construction details will be provided to the BLM Carlsbad office and NMOCD Artesia Office.

Should you have any questions or if further information is required, please do not hesitate to contact our office at 575.746.8768.

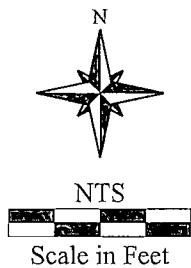
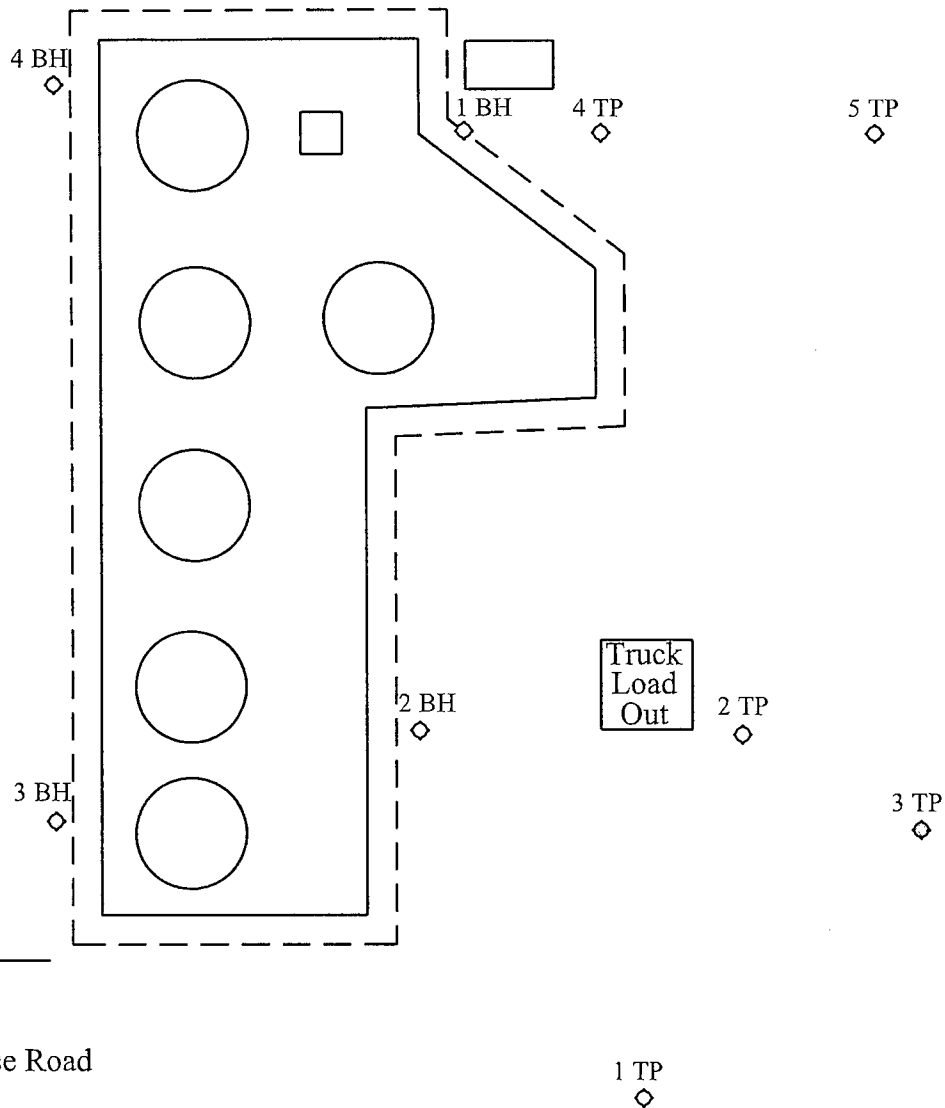
Respectfully submitted,

TALON/LPE


Kimberly M. Wilson
Project Manager


David J. Adkins
District Manager

SITE MAP



Legend
 ◇ - Sample Location



Date: 01/27/2014

Scale: NTS

Drawn By: TJS

T Bone SWD
 Judah Oil LLC
 Eddy County, New Mexico
 Figure 1 - Site Plan

BLM STIPULATIONS

David Adkins

From: Van Curen, Jennifer [jvancure@blm.gov]
Sent: Tuesday, January 28, 2014 10:11 AM
To: David Adkins
Subject: Re: work plan, notice to proceed, Judah Oil T-Bone Fed 1
Attachments: DOC008.PDF

David,

This is going to be an extensive cleanup, so I would like to add a couple of steps to prevent this event in the future. I have attached a hand drawn sketch. The step is not going to cost much more, but will save from the cost of this clean up from happening again. If bottom samples come back less than 2500 at 8' with cls not increasing below that point, I do not see the point of placing a liner. I will require a liner at surface for the facility. I will also require the liner be protected from puncture from beneath or on top. The tanks will need to be placed on something other than gravel to protect the liner. I will also require the pumps and other leak potential equipment to be inside the lined secondary containment.

For the exterior, if you get the cls below 2000 at 3' or deeper and the cls at lower depths do not rise above that, I will not require a liner. I would recommend the liner at 1' below surface. I would then place 6" of clay and then 6" of caliche. Yes the liner is there, but by having the caliche first, this could prevent hydrocarbons from being any more than a scrape of pad. If there is only PW, you know that the most you will have is the 6" due to the fact that PW alone is held very well by clay as long as hydrocarbons do not exist. Again this is a step of prevention from digging and hauling large amounts of contaminants. Even though the liner is at 1', wildlife will still need to be protected from any contaminants on the surface. And scraping is much more economical. I hope this is explained well enough. Again, I don't feel that there will be any more expense since most of the contaminants should be clean enough without a liner at the lower depth.

Let me know what you think.

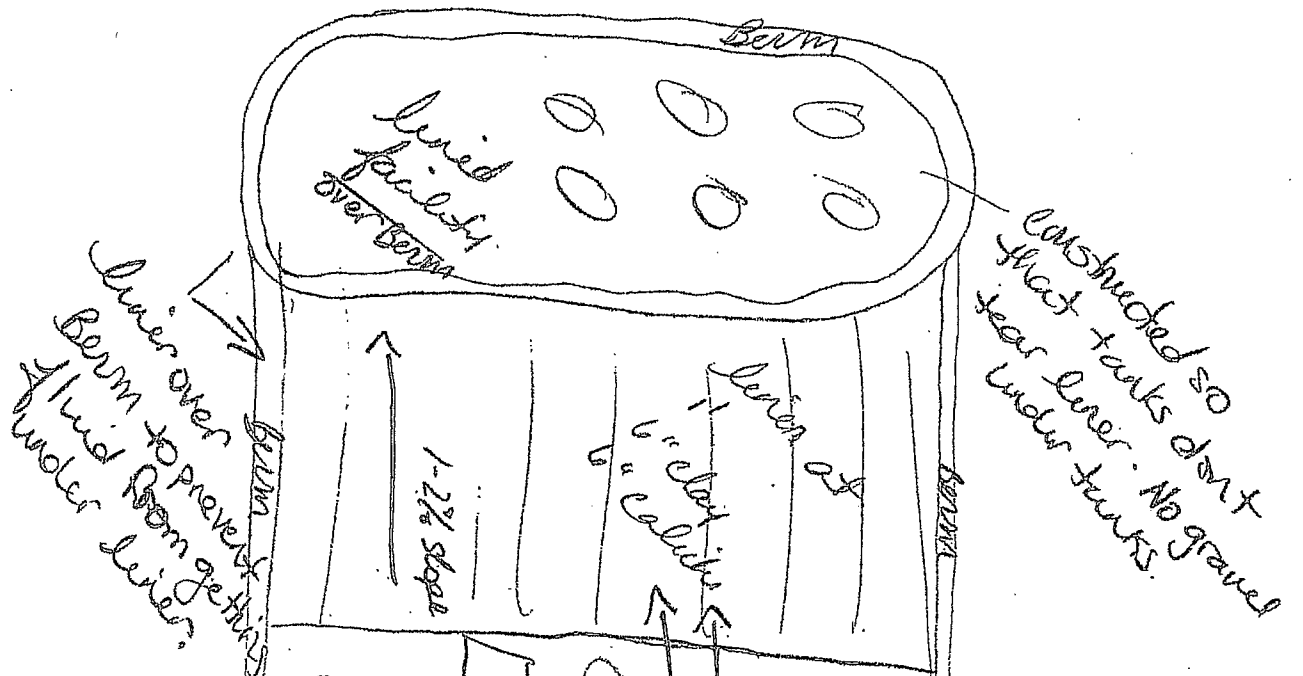
JENNIFER E VAN CUREN
ENVIRONMENTAL PROTECTION SPECIALIST
DOI-BLM-CARLSBAD FIELD OFFICE
320 E GREENE ST. CARLSBAD, NM 88220
OFFICE- 575-234-5905
CELL - 575-361-0042
FAX - 575-234-5927

On Mon, Jan 27, 2014 at 2:37 PM, David Adkins <dadkins@talonlpe.com> wrote:

Hi Jennifer,

Attached please find the work plan for Judah Oil, Oxy T Bone Fed 1 SWD. We have given OCD notice that we are proceeding this week. Please let us know if you have any stipulations or objections. Thank you.

Respectfully,



liner over berm to prevent fluid from getting under liner.

road

check to hold polythene over

check - some is over

unpacked vehicle starts to cross gravel area

All surrounding should include lined area including secondary containment

be in as

utilized as

No pits

Top - Bottom

LABORATORY RESULTS



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

January 21, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: OXY T-BONE FED #1 SWD

Enclosed are the results of analyses for samples received by the laboratory on 01/15/14 12:32.

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/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 that reads "Celey 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: 01/15/2014
 Reported: 01/21/2014
 Project Name: OXY T-BONE FED #1 SWD
 Project Number: 701484.005.01
 Project Location: C-33-18-31

 Sampling Date: 01/09/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: BH-1 5' (H400123-01)

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	01/16/2014	ND	2.47	124	2.00	0.657	
Toluene*	<0.050	0.050	01/16/2014	ND	2.43	122	2.00	0.0197	
Ethylbenzene*	<0.050	0.050	01/16/2014	ND	2.46	123	2.00	0.0828	
Total Xylenes*	<0.150	0.150	01/16/2014	ND	7.31	122	6.00	1.64	
Total BTEX	<0.300	0.300	01/16/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	01/20/2014	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	01/16/2014	ND	201	101	200	12.0	
DRO >C10-C28	<10.0	10.0	01/16/2014	ND	203	102	200	14.3	

Surrogate: 1-Chlorooctane 67.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 66.6 % 63.6-154

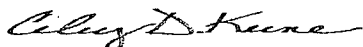
Sample ID: BH-1 10' (H400123-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7040	16.0	01/20/2014	ND	400	100	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: 01/15/2014
Reported: 01/21/2014
Project Name: OXY T-BONE FED #1 SWD
Project Number: 701484.005.01
Project Location: C-33-18-31

Sampling Date: 01/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: BH-1 15' (H400123-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	01/20/2014	ND	400	100	400	0.00	

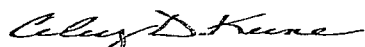
Sample ID: BH-1 20' (H400123-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	01/20/2014	ND	400	100	400	0.00	

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 01/15/2014
Reported: 01/21/2014
Project Name: OXY T-BONE FED #1 SWD
Project Number: 701484.005.01
Project Location: C-33-18-31

Sampling Date: 01/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: BH-2 5' (H400123-05)

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	01/16/2014	ND	2.47	124	2.00	0.657	
Toluene*	<0.050	0.050	01/16/2014	ND	2.43	122	2.00	0.0197	
Ethylbenzene*	<0.050	0.050	01/16/2014	ND	2.46	123	2.00	0.0828	
Total Xylenes*	<0.150	0.150	01/16/2014	ND	7.31	122	6.00	1.64	
Total BTEX	<0.300	0.300	01/16/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	01/20/2014	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	01/16/2014	ND	201	101	200	12.0	
DRO >C10-C28	14.1	10.0	01/16/2014	ND	203	102	200	14.3	

Surrogate: 1-Chlorooctane 76.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 77.7 % 63.6-154

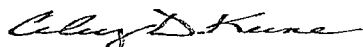
Sample ID: BH-2 10' (H400123-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	01/20/2014	ND	400	100	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: 01/15/2014
 Reported: 01/21/2014
 Project Name: OXY T-BONE FED #1 SWD
 Project Number: 701484.005.01
 Project Location: C-33-18-31

 Sampling Date: 01/09/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: BH-2 15' (H400123-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	01/20/2014	ND	400	100	400	0.00	

Sample ID: BH-2 20' (H400123-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	01/20/2014	ND	400	100	400	0.00	

Sample ID: BH-2 30' (H400123-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1400	16.0	01/20/2014	ND	400	100	400	0.00	

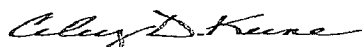
Sample ID: BH-2 25' (H400123-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1380	16.0	01/20/2014	ND	400	100	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: 01/15/2014
Reported: 01/21/2014
Project Name: OXY T-BONE FED #1 SWD
Project Number: 701484.005.01
Project Location: C-33-18-31

Sampling Date: 01/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: BH-3 5' (H400123-11)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2014	ND	2.47	124	2.00	0.657	
Toluene*	<0.050	0.050	01/16/2014	ND	2.43	122	2.00	0.0197	
Ethylbenzene*	<0.050	0.050	01/16/2014	ND	2.46	123	2.00	0.0828	
Total Xylenes*	<0.150	0.150	01/16/2014	ND	7.31	122	6.00	1.64	
Total BTEx	<0.300	0.300	01/16/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/20/2014	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	01/16/2014	ND	201	101	200	12.0	
DRO >C10-C28	<10.0	10.0	01/16/2014	ND	203	102	200	14.3	

Surrogate: 1-Chlorooctane 65.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 63.7 % 63.6-154

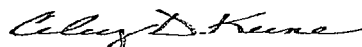
Sample ID: BH-3 10' (H400123-12)

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	01/20/2014	ND	400	100	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: 01/15/2014
Reported: 01/21/2014
Project Name: OXY T-BONE FED #1 SWD
Project Number: 701484.005.01
Project Location: C-33-18-31

Sampling Date: 01/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: BH-3 15' (H400123-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1310	16.0	01/20/2014	ND	400	100	400	0.00	

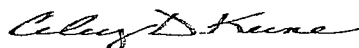
Sample ID: BH-3 20' (H400123-14)

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	01/20/2014	ND	400	100	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:	01/15/2014	Sampling Date:	01/09/2014
Reported:	01/21/2014	Sampling Type:	Soil
Project Name:	OXY T-BONE FED #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	701484.005.01	Sample Received By:	Celey D. Keene
Project Location:	C-33-18-31		

Sample ID: BH-4 5' (H400123-15)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2014	ND	2.47	124	2.00	0.657	
Toluene*	<0.050	0.050	01/16/2014	ND	2.43	122	2.00	0.0197	
Ethylbenzene*	<0.050	0.050	01/16/2014	ND	2.46	123	2.00	0.0828	
Total Xylenes*	<0.150	0.150	01/16/2014	ND	7.31	122	6.00	1.64	
Total BTEX	<0.300	0.300	01/16/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	01/20/2014	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	01/16/2014	ND	201	101	200	12.0	
DRO >C10-C28	<10.0	10.0	01/16/2014	ND	203	102	200	14.3	

Surrogate: 1-Chlorooctane 80.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 78.8 % 63.6-154

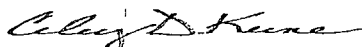
Sample ID: BH-4 10' (H400123-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/20/2014	ND	432	108	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: 01/15/2014
Reported: 01/21/2014
Project Name: OXY T-BONE FED #1 SWD
Project Number: 701484.005.01
Project Location: C-33-18-31

Sampling Date: 01/09/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: BH-4 15' (H400123-17)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	01/20/2014	ND	432	108	400	3.77	

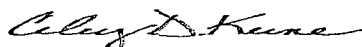
Sample ID: BH-4 20' (H400123-18)

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	01/20/2014	ND	432	108	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: 01/15/2014
 Reported: 01/21/2014
 Project Name: OXY T-BONE FED #1 SWD
 Project Number: 701484.005.01
 Project Location: C-33-18-31

 Sampling Date: 01/14/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: TP-1 0' (H400123-19)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2014	ND	2.47	124	2.00	0.657	
Toluene*	<0.050	0.050	01/16/2014	ND	2.43	122	2.00	0.0197	
Ethylbenzene*	<0.050	0.050	01/16/2014	ND	2.46	123	2.00	0.0828	
Total Xylenes*	<0.150	0.150	01/16/2014	ND	7.31	122	6.00	1.64	
Total BTX	<0.300	0.300	01/16/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1400	16.0	01/20/2014	ND	432	108	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	01/17/2014	ND	201	101	200	12.0	
DRO >C10-C28	<10.0	10.0	01/17/2014	ND	203	102	200	14.3	

Surrogate: 1-Chlorooctane 74.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 77.5 % 63.6-154

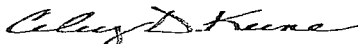
Sample ID: TP-1 4' (H400123-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	01/20/2014	ND	432	108	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:	01/15/2014	Sampling Date:	01/14/2014
Reported:	01/21/2014	Sampling Type:	Soil
Project Name:	OXY T-BONE FED #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	701484.005.01	Sample Received By:	Celey D. Keene
Project Location:	C-33-18-31		

Sample ID: TP-1 8' (H400123-21)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	01/20/2014	ND	432	108	400	3.77	

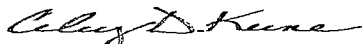
Sample ID: TP-1 12' (H400123-22)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	01/20/2014	ND	432	108	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: 01/15/2014
 Reported: 01/21/2014
 Project Name: OXY T-BONE FED #1 SWD
 Project Number: 701484.005.01
 Project Location: C-33-18-31

 Sampling Date: 01/14/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: TP-2 0' (H400123-23)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2014	ND	2.47	124	2.00	0.657	
Toluene*	<0.050	0.050	01/16/2014	ND	2.43	122	2.00	0.0197	
Ethylbenzene*	<0.050	0.050	01/16/2014	ND	2.46	123	2.00	0.0828	
Total Xylenes*	<0.150	0.150	01/16/2014	ND	7.31	122	6.00	1.64	
Total BTEx	<0.300	0.300	01/16/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21800	16.0	01/20/2014	ND	432	108	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	01/16/2014	ND	201	101	200	12.0	
DRO >C10-C28	<10.0	10.0	01/16/2014	ND	203	102	200	14.3	


Surrogate: 1-Chlorooctane 68.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 67.3 % 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: 01/15/2014
 Reported: 01/21/2014
 Project Name: OXY T-BONE FED #1 SWD
 Project Number: 701484.005.01
 Project Location: C-33-18-31

 Sampling Date: 01/14/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: TP-2 2' (H400123-24)

BTEX 8021B			mg/kg							Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.050	0.050	01/16/2014	ND	2.47	124	2.00	0.657			
Toluene*	<0.050	0.050	01/16/2014	ND	2.43	122	2.00	0.0197			
Ethylbenzene*	<0.050	0.050	01/16/2014	ND	2.46	123	2.00	0.0828			
Total Xylenes*	<0.150	0.150	01/16/2014	ND	7.31	122	6.00	1.64			
Total BTEX	<0.300	0.300	01/16/2014	ND							

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	01/20/2014	ND	432	108	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	01/16/2014	ND	201	101	200	12.0	
DRO >C10-C28	<10.0	10.0	01/16/2014	ND	203	102	200	14.3	

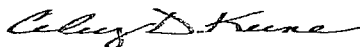
Surrogate: 1-Chlorooctane 83.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 82.2 % 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: 01/15/2014
 Reported: 01/21/2014
 Project Name: OXY T-BONE FED #1 SWD
 Project Number: 701484.005.01
 Project Location: C-33-18-31

 Sampling Date: 01/14/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: TP-2 4' (H400123-25)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2014	ND	2.47	124	2.00	0.657	
Toluene*	<0.050	0.050	01/16/2014	ND	2.43	122	2.00	0.0197	
Ethylbenzene*	<0.050	0.050	01/16/2014	ND	2.46	123	2.00	0.0828	
Total Xylenes*	<0.150	0.150	01/16/2014	ND	7.31	122	6.00	1.64	
Total BTX	<0.300	0.300	01/16/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/20/2014	ND	432	108	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	01/17/2014	ND	201	101	200	12.0	
DRO >C10-C28	<10.0	10.0	01/17/2014	ND	203	102	200	14.3	

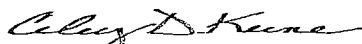
Surrogate: 1-Chlorooctane 75.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 76.7 % 63.6-154

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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: 01/15/2014
Reported: 01/21/2014
Project Name: OXY T-BONE FED #1 SWD
Project Number: 701484.005.01
Project Location: C-33-18-31

Sampling Date: 01/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: TP-2 6' (H400123-26)

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/16/2014	ND	2.47	124	2.00	0.657		
Toluene*	<0.050	0.050	01/16/2014	ND	2.43	122	2.00	0.0197		
Ethylbenzene*	<0.050	0.050	01/16/2014	ND	2.46	123	2.00	0.0828		
Total Xylenes*	<0.150	0.150	01/16/2014	ND	7.31	122	6.00	1.64		
Total BTEX	<0.300	0.300	01/16/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	01/20/2014	ND	432	108	400	3.77		
TPH 8015M	mg/kg		Analyzed By: ms							

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/16/2014	ND	201	101	200	12.0		
DRO >C10-C28	<10.0	10.0	01/16/2014	ND	203	102	200	14.3		

Surrogate: 1-Chlorooctane 76.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 74.8 % 63.6-154

Sample ID: TP-2 8' (H400123-27)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	01/20/2014	ND	432	108	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:	01/15/2014	Sampling Date:	01/14/2014
Reported:	01/21/2014	Sampling Type:	Soil
Project Name:	OXY T-BONE FED #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	701484.005.01	Sample Received By:	Celey D. Keene
Project Location:	C-33-18-31		

Sample ID: TP-2 12' (H400123-28)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	01/20/2014	ND	432	108	400	3.77	

Sample ID: TP-3 0' (H400123-29)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2014	ND	2.47	124	2.00	0.657	
Toluene*	<0.050	0.050	01/16/2014	ND	2.43	122	2.00	0.0197	
Ethylbenzene*	<0.050	0.050	01/16/2014	ND	2.46	123	2.00	0.0828	
Total Xylenes*	<0.150	0.150	01/16/2014	ND	7.31	122	6.00	1.64	
Total BTEX	<0.300	0.300	01/16/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	01/20/2014	ND	432	108	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	01/16/2014	ND	201	101	200	12.0	
DRO >C10-C28	387	10.0	01/16/2014	ND	203	102	200	14.3	

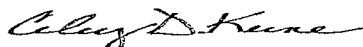
Surrogate: 1-Chlorooctane 84.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.8 % 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:	01/15/2014	Sampling Date:	01/14/2014
Reported:	01/21/2014	Sampling Type:	Soil
Project Name:	OXY T-BONE FED #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	701484.005.01	Sample Received By:	Celey D. Keene
Project Location:	C-33-18-31		

Sample ID: TP-3 4' (H400123-30)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	01/20/2014	ND	432	108	400	3.77	

Sample ID: TP-3 8' (H400123-31)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/20/2014	ND	432	108	400	3.77	

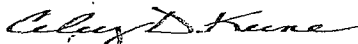
Sample ID: TP-3 12' (H400123-32)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	01/20/2014	ND	432	108	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:	01/15/2014	Sampling Date:	01/14/2014
Reported:	01/21/2014	Sampling Type:	Soil
Project Name:	OXY T-BONE FED #1 SWD	Sampling Condition:	Cool & Intact
Project Number:	701484.005.01	Sample Received By:	Celey D. Keene
Project Location:	C-33-18-31		

Sample ID: TP-4 0' (H400123-33)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2014	ND	2.47	124	2.00	0.657	
Toluene*	<0.050	0.050	01/16/2014	ND	2.43	122	2.00	0.0197	
Ethylbenzene*	<0.050	0.050	01/16/2014	ND	2.46	123	2.00	0.0828	
Total Xylenes*	<0.150	0.150	01/16/2014	ND	7.31	122	6.00	1.64	
Total BTEX	<0.300	0.300	01/16/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6560	16.0	01/20/2014	ND	432	108	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	01/16/2014	ND	201	101	200	12.0	
DRO >C10-C28	<10.0	10.0	01/16/2014	ND	203	102	200	14.3	

Surrogate: 1-Chlorooctane 78.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 77.9 % 63.6-154

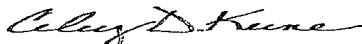
Sample ID: TP-4 4' (H400123-34)

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	01/20/2014	ND	432	108	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: 01/15/2014
 Reported: 01/21/2014
 Project Name: OXY T-BONE FED #1 SWD
 Project Number: 701484.005.01
 Project Location: C-33-18-31

 Sampling Date: 01/14/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: TP-4 8' (H400123-35)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1730	16.0	01/20/2014	ND	432	108	400	3.77	

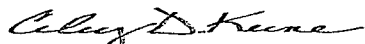
Sample ID: TP-4 10' (H400123-36)

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	01/16/2014	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: 01/15/2014
 Reported: 01/21/2014
 Project Name: OXY T-BONE FED #1 SWD
 Project Number: 701484.005.01
 Project Location: C-33-18-31

 Sampling Date: 01/14/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: TP-5 0' (H400123-37)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/16/2014	ND	2.47	124	2.00	0.657	
Toluene*	<0.050	0.050	01/16/2014	ND	2.43	122	2.00	0.0197	
Ethylbenzene*	<0.050	0.050	01/16/2014	ND	2.46	123	2.00	0.0828	
Total Xylenes*	<0.150	0.150	01/16/2014	ND	7.31	122	6.00	1.64	
Total BTEX	<0.300	0.300	01/16/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7120	16.0	01/16/2014	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/17/2014	ND	42.2	84.4	50.0	3.99	
DRO >C10-C28	<10.0	10.0	01/17/2014	ND	46.9	93.8	50.0	3.76	

Surrogate: 1-Chlorooctane 72.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 74.4 % 63.6-154

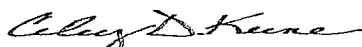
Sample ID: TP-5 4' (H400123-38)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1660	16.0	01/16/2014	ND	416	104	400	3.92	

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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: 01/15/2014
Reported: 01/21/2014
Project Name: OXY T-BONE FED #1 SWD
Project Number: 701484.005.01
Project Location: C-33-18-31

Sampling Date: 01/14/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: TP-5 8' (H400123-39)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	112	16.0	01/16/2014	ND	416	104	400	3.92			

Sample ID: TP-5 10' (H400123-40)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	1170	16.0	01/16/2014	ND	416	104	400	3.92			

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

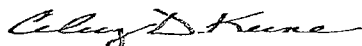
Notes and Definitions

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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Zalor/LPF</u>				BILL TO				ANALYSIS REQUEST																			
Project Manager: <u>David Hopkins</u>				P.O. #:				<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chlorides</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> </div>																			
Address: <u>408 W. Jena</u>				Company: <u>Zalor</u>																							
City: <u>Alameda</u> State: <u>NM</u> Zip: <u>88210</u>				Attn:																							
Phone #: <u>575-746-8168</u> Fax #: <u>575-746-8905</u>				Address:																							
Project #: <u>701484-005.01</u> Project Owner: <u>Wade Bell</u>				City:																							
Project Name: <u>Oxy T-Bone Sed #1 Sed</u>				State: Zip:																							
Project Location: <u>C-33-18-31</u>				Phone #:																							
Sampler Name: <u>Gabe Breaux</u>				Fax #:																							
FOR LAB USE ONLY																											
Lab I.D.	Sample I.D.			GRAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.			SAMPLING														
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER:	DATE	TIME											
H400173																											
11	BH-3	5'						/				/			1/9/14	12:24	/	/	/								
12	BH-3	10'						/				/			1/9/14	12:24	/	/	/								
13	BH-3	15'						/				/			1/9/14	12:28	/	/	/								
14	BH-3	20'						/				/			1/9/14	12:39	/	/	/								
15	BH-4	5'						/				/			1/9/14	1:09	/	/	/								
16	BH-4	10'						/				/			1/9/14	1:12	/	/	/								
17	BH-4	15'						/				/			1/9/14	1:15	/	/	/								
18	BH-4	20'						/				/			1/9/14	1:23	/	/	/								
19	TP-1	0'						/				/			1/14/14	11:00	/	/	/								
20	TP-1	4'						/				/			1/14/14	1:26	/	/	/								

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Relinquished By: <u>[Signature]</u>	Date: <u>1/9/14</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>1/15/14</u>	Received By: <u>[Signature]</u>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Time: <u>12:32</u>	Sample Condition	REMARKS:	
Sampler - UPS - Bus - Other:		<input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
		CHECKED BY: <u>[Signature]</u>		

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

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Page 3 of 4

Page 25 of 26

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Jalon/LPE</u>		BILL TO		ANALYSIS REQUEST																				
Project Manager: <u>DAVID ADKINS</u>		P.O. #:		<div style="display: flex; flex-direction: column; align-items: center; justify-content: center;"><div style="writing-mode: vertical-rl; transform: rotate(180deg);">Cardinal</div><div>TPH</div><div>BTEX</div></div>																				
Address: <u>408 W. Texas</u>		Company: <u>Jalon</u>																						
City: <u>Utesia</u> State: <u>NM</u> Zip: <u>88210</u>		Attn:																						
Phone #: <u>575-746-8968</u> Fax #: <u>575-746-8905</u>		Address:																						
Project #: <u>701484.005.01</u> Project Owner: <u>Sudak Oil</u>		City:																						
Project Name: <u>Oxy T-Bone 2nd #1 SWD</u>		State: Zip:																						
Project Location: <u>C-33-18-31</u>		Phone #:																						
Sampler Name: <u>Gabe Beaza</u>		Fax #:																						
FOR LAB USE ONLY																								
Lab I.D.	Sample I.D.	(GRAB OR (COMP. # CONTAINERS	MATRIX					PRESERV.		SAMPLING														
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER:	DATE	TIME											
H400123																								
21	TP-1 8'	G			/				/			1/14/14	11:55	/										
22	TP-1 12'	G			/				/			1/14/14	12:01	/										
23	TP-2 0'	G			/				/			1/14/14	2:04	/	/	/								
24	TP-2 2'	G			/				/			1/14/14	2:06	/	/	/								
25	TP-2 4'	G			/				/			1/14/14	2:15	/	/	/								
26	TP-2 6'	G			/				/			1/14/14	2:19	/	/	/								
27	TP-2 8'	G			/				/			1/14/14	2:21	/										
28	TP-2 12'	G			/				/			1/14/14	2:21	/										
29	TP-3 0'	G			/				/			1/14/14	2:59	/	/	/								
30	TP-3 4'	G			/				/			1/14/14	3:06	/										

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: <u>10-31</u> Time: <u>11:51/4</u>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date: <u>11/15/14</u> Time: <u>12:32</u>	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <u>5.6°C</u>			CHECKED BY: (Initials) <u>CPH</u>	

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Jalon/LPE				BILL TO				ANALYSIS REQUEST																				
Project Manager: David Adkins				P.O. #:				<div style="font-size: 2em; margin: 10px 0;">Chlorides</div> <div style="display: flex; justify-content: space-around; font-size: 1.5em;"> TPH BTEX </div>																				
Address: 408 W. Texas				Company: Jalon																								
City: Antesca State: NM Zip: 88210				Attn:																								
Phone #: 575-746-8268 Fax #: 575-746-8905				Address:																								
Project #: 701484.005.01 Project Owner: Judah Pil				City:																								
Project Name: DRY T-BONE #1 SWD				State: Zip:																								
Project Location: C-33-B-31				Phone #:																								
Sampler Name: Gabe Baeza				Fax #:																								
FOR LAB USE ONLY																												
Lab I.D.		Sample I.D.		# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER:	DATE	TIME													
H400123																												
31 TP-3 8'				G			/				/			1/14/14	3:16	/												
32 TP-3 12'				G			/				/			1/14/14	3:20	/												
33 TP-4 0'				G			/				/			1/14/14	3:30	/	/	/										
34 TP-4 4'				G			/				/			1/14/14	3:39	/												
35 TP-4 8'				G			/				/			1-14-14	3:41	/												
36 TP-4 10'				G			/				/			1-14-14	3:52	/												
37 TP-5 0'				G			/				/			1-14-14	1:16	/	/	/										
38 TP-5 4'				G			/				/			1-14-14	1:22	/												
39 TP-5 8'				G			/				/			1-14-14	1:37	/												
40 TP-5 10'				G			/				/			1-14-14	1:37	/												

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other causes whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:		Date: 1-25-14	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
		Time: 11:56		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
REMARKS:					

Relinquished By:		Date: 1/15/14	Received By:
		Time: 12:32	

Delivered By: (Circle One) 5.6.1

Sampler - UPS - Bus - Other:	Sample Condition Cool / Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No CHECKED BY: (Initials) mph
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† Cardinal cannot accept verbal changes. Please fax written changes to 595-393-2476.