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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

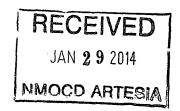
OKLAHOMA CITY 7700 North Hudson Ave

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

January 29, 2014

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 under lain 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:

ENVIRONMENTAL CONSULTING
ENGINEERING
DRILLING
CONSTRUCTION
SPILL MANAGEMENT

Depth to ground water Wellhead Protection Area >100' >1000'

Distance to surface water body

>1000'

Toll Free: 866.742.0742 www.talonipe.com

GENERAL CONTRACTING

For OField Menting Judah Oil

Project Map / Site Diagram

RECEIVED

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

FEB 04 2014

DRAW NORTH ARROW HERE

NMOCD ARTESIA Manager: Date: Time: D. ADKINS Notes: 0 P Select One: Scaled (1"= 30)/Measured Prepared by: Document must be submitted Page _ l _ of _ l with Drafting Request Form

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

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

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

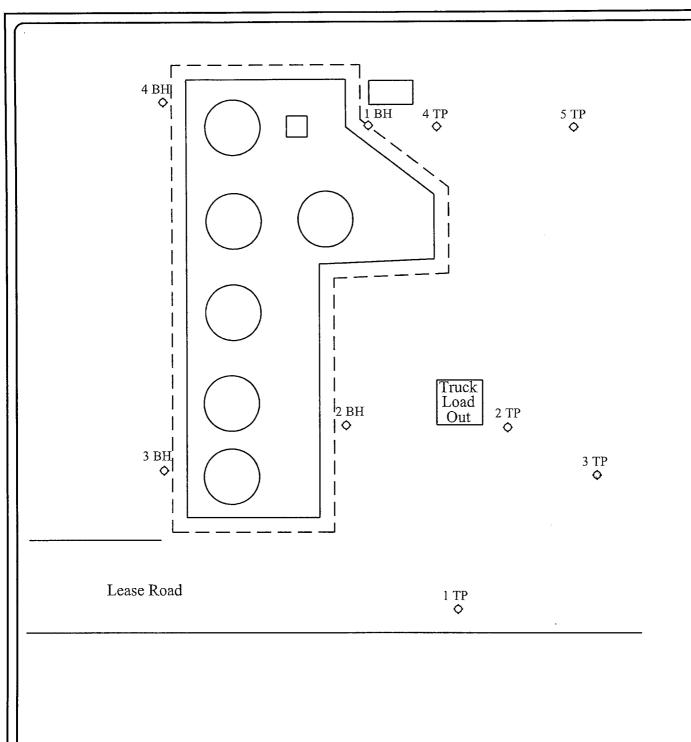
Kimberly M Wilson

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,

Car Market for Han marine or Sonx make offer Hear Court on the Market States The Bone Leichen 1-2% 8/2-1 Trebuch to had history thank took I de Maria de de Coludar Survey Stand Contament Staves former of staves of Datan

LABORATORY RESULTS



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 accreditated 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.

Celey D. Keine

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



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

Received: Reported: 01/15/2014

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	Analyze	d 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 %	6 89.4-120	s						
Chloride, SM4500Cl-B	mg/	mg/kg		d 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	Analyze	d 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 9	65.2-140)						
Surrogate: 1-Chlorooctadecane	66.69	63.6-15	4						

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. Keine



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: Project Location:

701484.005.01

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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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-2 5' (H400123-05)

BTEX 8021B	mg/kg		Analyze	d 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 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 65.2-14	0			······································			
Surrogate: 1-Chlorooctadecane	77.7	% 63.6-15	4						

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	

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*=Accredited Analyte

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Celeg D. Keine



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

Received: Reported: 01/15/2014

01/21/2014

OXY T-BONE FED #1 SWD

Project Name: 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

mg/kg

Analyzed By: AP

Analyte

Analyte

Analyte

Analyte

Result

1500

Reporting Limit 16.0

Analyzed 01/20/2014

Analyzed

Method Blank ND

BS 400

BS

4กก

% Recovery 100

True Value QC 400

RPD

0.00

Qualifier

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

Chloride, SM4500Cl-B

Reporting Limit

Analyzed By: AP

Method Blank

% Recovery

True Value QC

Qualifier

Chloride

Chloride

Result 1600

16.0 01/20/2014 ND

100

400

RPD 0.00

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

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyzed

Method Blank

BS

% Recovery

Chloride

Result 1400

True Value QC

Qualifier

Result

1380

Reporting Limit 16.0

Reporting Limit

16.0

400

400

Chloride

01/20/2014

ND

100

RPD 0.00

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

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyzed 01/20/2014

Method Blank ND

BS 400

% Recovery 100

True Value QC 400

RPD 0.00 Qualifier

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*=Accredited Analyte

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Celego Keine

Celey D. Keene, Lab Director/Quality Manager

Rage 5 of 26



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received: Reported: 01/15/2014

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: Sample Received By: Cool & Intact

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 %	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	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	Analyze	d 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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	63.7	% 63.6-15	4						

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

Chloride, SM4500CI-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	

Cardinal Laboratories

*=Accredited Analyte

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Celey & Keine



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

C-33-18-31

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Result

Reporting Limit

Analyzed

Method Blank

BS

% Recovery

True Value QC

RPD 0.00

RPD

0.00

Qualifier

Chloride

1310

16.0

Reporting Limit

01/20/2014

Analyzed

ND

400

100

400

Quu.

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

Chloride, SM4500Cl-B

Analyte

mg/kg

Analyzed By: AP

Analyzed By: A

True Value QC

0...-1

Chloride

Result

816

16.0 01/20/2014

Method Blank ND BS 400 % Recovery

400

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 7 of 26



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

Received:

01/15/2014

01/21/2014

Sampling Date:

01/09/2014

Reported:

Sampling Type:

Soil

Project Name:

OXY T-BONE FED #1 SWD

Sampling Condition:

Cool & Intact

701484.005.01

Sample Received By:

Celey D. Keene

Project Number: Project Location:

C-33-18-31

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

BTEX 8021B	mg/	kg	Analyze	d 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 %	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	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	Analyze	d 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	% 65.2-14	0	1 7/44					
Surrogate: 1-Chlorooctadecane									

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

Chloride, SM4500CI-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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408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:

01/15/2014

Reported:

01/21/2014

Project Name: Project Number: OXY T-BONE FED #1 SWD

701484.005.01

Project Location:

Analyte

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, SM4500CI-B

Chloride

Chloride

mg/kg

Analyzed By: AP

Result R

336

Result

288

Reporting Limit

16.0

Analyzed 01/20/2014

Method Blank ND BS 432 % Recovery

True Value QC 400 RPD

3.77

Qualifier

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

Chloride, SM4500Cl-B

Analyte

Reporting Limit

16.0

Analyzed By: AP

Analyzed

01/20/2014

Method Blank ND BS 432 % Recovery 108 True Value QC

RPD Qualifier

3.77

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Celey & Keine

Celey D. Keene, Lab Director/Quality Manager

"Rage 9 of 26"



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

Received: Reported: 01/15/2014

01/21/2014

Project Name:

OXY T-BONE FED #1 SWD

Project Number: Project Location: 701484.005.01 C-33-18-31

Sampling Date:

01/14/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Celey D. Keene

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

BTEX 8021B	mg/	kg	Analyze	d 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 5	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg.	Analyze	d 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	Analyze	d 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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	77.5	% 63.6-15	4						

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

Chloride, SM4500Cl-B mg/kg		/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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DAVID ADKINS
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ARTESIA NM, 88210
Fax To: (575) 745-8905

01/15/2014

Reported: 01/21/2014

Project Name: OXY T-BONE FED #1 SWD

416

16.0

Project Number: 701484.005.01

Project Location: C-33-18-31

Sampling Date:

432

01/14/2014

400

Sampling Type: Soil

Sampling Condition: Cool & Intact

108

Sample Received By:

Celey D. Keene

3.77

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

Received:

Chloride

Analyte Result Reporting Limit Analyzed By: AP

Analyte BS % Recovery True Value QC RPD Qualifier

MD

01/20/2014

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

Chloride, SM4500Cl-B	mg	/kg	[*] Analyze	d 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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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:

Project Location:

C-33-18-31

Celey D. Keene

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

BTEX 8021B	mg/	kg	Analyze	d 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 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C1.0	<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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	67.3	% 63.6-15	4						

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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

Cool & Intact

Sampling Condition: Sample Received By:

Celey D. Keene

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

Received:

BTEX 8021B	mg/	kg	Analyze	d 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	% 89.4-12	6		•				
Chloride, SM4500CI-B	mg,	'kg	Analyze	d 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	Analyze	d By: ms				<u>.</u>	
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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	82.2	% 63.6-15	4						

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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 4' (H400123-25)

BTEX 8021B	mg/	kg	Analyze	d By: MS		<u> </u>			
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 9	6 89.4-12	6	,					
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	76.7	% 63.6-15	4						

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Received:

01/15/2014

Reported:

01/21/2014

Project Name:

OXY T-BONE FED #1 SWD

Project Number: Project Location:

701484.005.01 C-33-18-31

Sampling Date:

01/14/2014

Sampling Type:

Sampling Condition:

Soil

Sample Received By:

Cool & Intact

Celey D. Keene

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	% 89.4-12	6			,			
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	74.8	% 63.6-15	4						

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

hloride, 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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Received:

01/15/2014

Reported:

01/21/2014

Project Name:

OXY T-BONE FED #1 SWD

Project Number: Project Location: 701484.005.01

C-33-18-31

Sampling Date: Sampling Type: 01/14/2014

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

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

Chloride, SM4500Cl-B

Chloride

mg/kg

Analyzed By: AP

Analyte

Result 176

Reporting Limit 16.0

Analyzed 01/20/2014 Method Blank ND

BS 432 % Recovery 108

True Value QC 400

RPD Qualifier

3.77

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

BTEX 8021B	mg/	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-Bromof	luorobenzene	(PID)
------------	----------	--------------	-------

Surrogate: 4-Bromofluorobenzene (PID Chloride, SM4500Cl-B	105 mg			d 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	Analyze	d By: ms					·····
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
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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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

Soil

Sampling Type:

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Result

Reporting Limit

Analyzed

Method Blank

BS

% Recovery

True Value QC

RPD

RPD

3.77

Qualifier

Chloride

432

16.0

Reporting Limit

Reporting Limit

16.0

01/20/2014

Analyzed

ND

432

108

400

3.77

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

Chloride, SM4500CI-B

Analyte

Analyte

mg/kg

Analyzed By: AP

BS

% Recovery

True Value QC

Qualifier

Chloride

Chloride

192

Result

16.0 01/20/2014 Method Blank ND

432

BS

432

108

108

400

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

Chloride, SM4500Cl-B

mg/kg

Result

416

Analyzed By: AP

Analyzed 01/20/2014 Method Blank ND

% Recovery

True Value QC

400

RPD 3.77

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene Celey D. Keene, Lab Director/Quality Manager

* Page 17 of 26



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:

Sample Received By:

Project Location:

701484.005.01 C-33-18-31

Celey D. Keene

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

BTEX 8021B	mg/	kg	Analyze	d 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 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 65.2-14	0						1.1
Surrogate: 1-Chlorooctadecane	77.9	% 63.6-15	4						

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

Chloride, SM4500Cl-B	mg/kg			d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	01/20/2014	NĐ	432	108	400	3.77	

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Celey D. Keine



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 OXY T-BONE FED #1 SWD

Project Name: Project Number:

701484.005.01

Project Location:

Analýte

C-33-18-31

Sampling Date:

01/14/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celev D. Keene

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Method Blank

% Recovery

True Value QC

Qualifier

Chloride

Result 1730

16.0

Reporting Limit

16.0

Analyzed 01/20/2014

ND

432

108

400

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

Chloride, SM4500Cl-B Analyte

Analyzed By: AP

Analyzed

Method Blank

BS 416 % Recovery True Value QC

RPD 3.92

RPD

3.77

Qualifier

Chloride

Result Reporting Limit

2680

mg/kg

01/16/2014

ND

104

400

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Celey D. Keene, Lab Director/Quality Manager

Page 19 of 26



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-5 0' (H400123-37)

BTEX 8021B	mg/	kg	Analyze	d 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 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	74.4	% 63.6-15	4						

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

Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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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Celeg D. Keene



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

1 0

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:

re: 01/14/2014

Sampling Type: Sampling Condition:

Soil Cool & Intact

Sample Received By:

Celey D. Keene

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

Chloride, SM4500CI-B	mg	/kg	Analyze	d 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' (H4	00123-40)							`	
Chloride, SM4500CI-B	mg	/kg	Analyze	d 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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Celeg D. Kuns



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

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Celey D. Keine





CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Jalon/LPE								LLTO		<u>.</u>				ANA	LYSI	s RE	QUE	ST			
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city: Perte	via State: Nin	/ Zip	: 8	8210	A	ttn:													i .	l	
Phone #: 575	5-746-8768 Fax#:575	-7	46	-8905	A	ddress	s:										, ,		, 1		
Project#: 70	1484 005:01 Project Owns	ra L	ud	sh Oil	С	City:							ĺ								
Project Name:	DXV J-Bono Jed #1 SU	20		***	S	State: Zip:										ļ					
Project Location: (2-33-18-31							Phone #:												. 1		
Sampler Name:	Cabe Beaza					ax#:			·	1. 7									.]		
FOR LAB USE ONLY				MATRI	(PRES	ERV.	SAMPL	ING	14											
-		(C)OMP.	_	pr						2	1	<u>کړ</u>]		
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4	BH-1 20'	6		1/				19/14	11:49	/			·								••
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8	BH-220°	G		. /				42/14	10:22	/								_			
O.	BH-2 30	Co						1/9/04	10:57												
10	BU -2 75	G							10144												
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(0/0) 090-2020 FAA (0/0) 090-2410								ANALYSIS REQUES										_								
Company Name: Jalon/LPF.							BILL TO						æ.					ANA	LYSI	SRE	QUE	ST				
Project Manage	DAVIA	Adkins						P.O. #:												Ţ		1				
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city: lete	rear	State: N/2/	Zip	: 8	821	<u> </u>	·	At	tn:				·		,					'			1			
Phone #: 572	5-746-87	168 Fax#: 575	-2	46	-8	105	5	Address:						•			ŀ									
Project#: 70	1484.00	5.0/Project Owne	1	rda	h	riel	, 	Cit	ty:								İ				1.			f-		'
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Project Location	: C. 33-	18-31							one	#:					S. J.		İ			1						
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FOR LAB USE ONLY		0		П		MAT	RIX		PRE	SERV	5	SAMPL	NG		lige				1			1			1	
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PLEASE NOTE: Liability an analyses. All claims including	nd Damages, Gerdinafs lis ng insua for negligence an	ability and client's exclusive remady for a ad any other cause whatsonver shall be	queme suà ejai	nielm m d walve	ដ មស្សីលន ដ មស្សីលន	ni sbam ni sbam	in contro writing at	et or los ad spece	ived by	se limited Cerdinal	l fa the e within 31	affount pa O daya afti	d by the clie reempletter	nt for (a of the	hia applicab	ia.		•					•			
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



Page 30f4

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	Lalar	TLPE				İ		BI	IET O		.				ANA	LYSI	S RE	QUE	ST			***************************************
Project Manage	DAVID A	Adkins				1	P.O. #.		•		T	T		1.	1		1					
Address: 40)	8 W. Je	daw					Compa	Talo						1								
City: Perte	rea	State: N/7/	Zip:	8	8210		Affn:				'	}	1			1	1					
Phone #: 57	5-746-870	8 Fax#: 575	-7	46	-8905	- /	Addre	ss:				İ]			· ·			1			
Project#: 70	1484.005	0/ Project Owns	TIL.	idi	als Di	(City:				7											
Project Name:	DXII T. BO	one Jed #	15	W	$\overline{\mathcal{D}}$		State:		Zip:		1	3										
Project Location	6	18-31			:	1	hone	#:			10	H	l		İ	Ì	-				1	
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[†] Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (675) 393-2476

Company Name	(878) 893-2926 FAX (878) 893-24.		BILLTO				ΛΜΛ	Vele	PEO	UEST			
Project Manage	- Date Style L.		P.O. #:		T	Т	ANA	-1010	17110	<u> </u>	<u> </u>	1	
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Project Location			Phone #:	70	E. E.		-			•			
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service. In no eventahall Co amiliates or appressore attain	g those for negligence and any other course whatsonyer shall be without be flable for incidental or consequental damages, including up out of or related to the gerformatics of services hereunder by C	y without limitation, business interruptions, it cardinal, remardieds of whather such claim is	loss of use, or loss of profile incurred by clie is based upon any of the above stated reason	int, ils subsidiaries, ons or otherwise.	Hotore	•							
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† Cardinal	cannot accept verbal changes. Please	fax written changes/th	595-393-2476									-	
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