



January 8, 2015

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

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

Subject: **Soil Assessment and Remediation Work Plan**
Oxy Permian LTD
McKittrick Hills Central Tank Battery

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

Dear Mr. Bratcher,

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

Oxy Permian LTD has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the referenced McKittrick Hills Central Tank Battery release. The results of our soil assessment and proposed remediation activities consist of the following:

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

Incident Date

October 31, 2014

Background Information

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

The McKittrick Hills Central Tank Battery is located approximately thirty-six (36) miles southwest of Artesia, New Mexico. The legal location for the site is Section 14, Township 22 South and Range 24 East in Eddy County, New Mexico. More specifically, the latitude and longitude for the release are 32.397740 North and - 104.4611 West.

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

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Ector extremely rocky loam with a 9 to 25 percent slopes. The local surface and shallow geology, Paleozoic Age sedimentary deposits, is comprised of the Guadeloupien Artesia Group, Tansil and Yates formations, which are made up of residuum weathered limestone underlain by very cobbly loam and hard caliches. The New Mexico State Engineer web site indicates the nearest ground water data to be in S12-T22S-R24E. The ground water in Section 12 is reported to be a depth of 400' below ground surface (bgs). The referenced groundwater data is presented in [Appendix I](#).

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

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

Incident Description

A dump valve on a heater treater failed due to an obstruction in the air supply lines. Each time the recirculation pump started oil was dumped out of the vent on the back of the heater treater. This caused oil to flow off of the northwest of the location and into the pasture. The oil also flowed down gradient and into the draw to the north of the location. The oil then continued to flow east down the draw for approximately 350-feet. Talon mobilized personnel to conduct soil sampling within the impacted area.

Due to the rockiness of the area further vertical delineation activities are impossible. As done in previous releases at this location, with approval from the NMOCD and BLM, samples were taken to refusal (depths between 0.5 to 2-feet bgs). Refusal in these areas correspond with the total depth of the soil profile at these locations.

Laboratory Results

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

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0	96.1	80	3640	29800
S-1	1	130	ND	3150	20300
S-1	2	130	32	4210	24700
S-2	0	111	ND	4230	42600
S-2	0.5	112	ND	2940	26500
S-3	0	155	192	5180	36300
S-3	4	95	176	3280	26600
S-4	0	138	ND	5650	34000
S-4	1	154	ND	3500	22700
S-4	1.5	104	80	2120	14000
S-5	0	304	96	9030	52600
S-5	0.5	159	128	6620	49500

(--) Analyte Not Tested

(ND) Analyte Not Detected

Based upon the site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, and 5,000 mg/kg for TPH.

Proposed Remedial Actions


- All of the soil within the impacted area will be removed to expose the underlying rock.
- The impacted soil will be hauled to an NMOCD approved solid waste disposal facility.
- The impacted area will be treated with Micro-Blaze, a bioremediation agent.
- 60 to 90 days after the Micro-Blaze application confirmation soil samples will be taken within the impacted area (to the best extent possible, due to site conditions) and analyzed for TPH and BTEX content.
- The BLM and OCD will be presented the lab data. The excavated area will be backfilled upon regulatory approval.
- The backfilled area will be seeded with the BLM recommended seed mixture for this area.

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

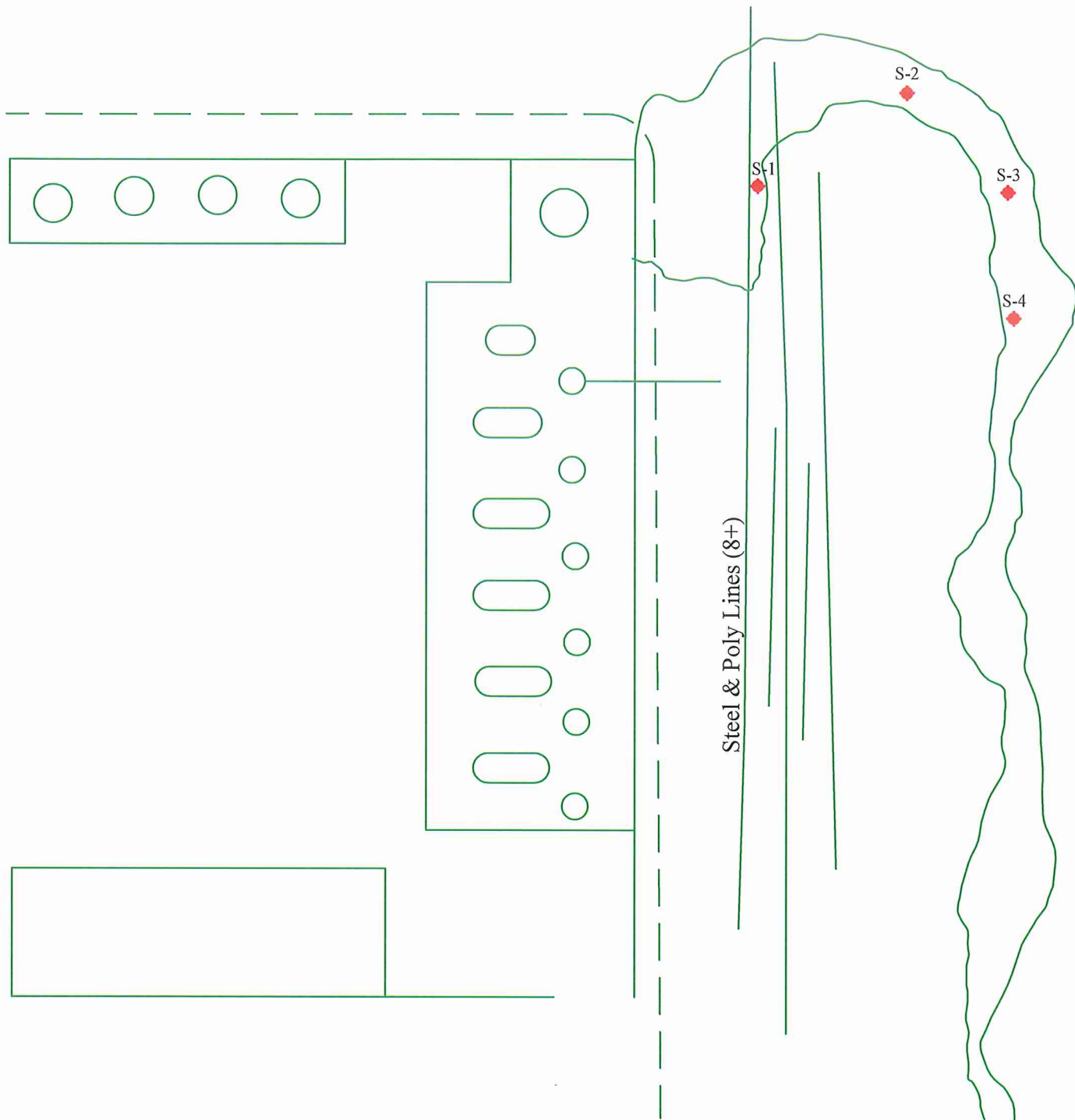
Respectfully submitted,

TALON/LPE


Sheldon L. Hitchcock
Project Manager


David J. Adkins
District Manager

SITE PLAN



NTS



Scale in Feet

Legend

◆ - Sample Location



Date: 11/24/2014

Scale: NTS

Drawn By: TJS

McKittrick CTB
Oxy - NM - North
Eddy County, New Mexico
Figure 1 - Site Plan

GROUNDWATER DATA
INITIAL C-141



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the
POD suffix indicates the
POD has been replaced
& no longer serves a
water right file.)

(R=POD has
been replaced,
O=orphaned,
C=the file is
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub- Code	basin	County	Q Q Q				Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
				64	16	4	4									
C 02428			ED	4	2	1	12	22S	24E		551426	3586017*	1624	450	400	50
C 02351			ED	3	2	2	15	22S	24E		548817	3584393*	1821	120	100	20
C 02384			ED	3	2	2	15	22S	24E		548817	3584393*	1821	120	100	20
C 01403	C		ED	3	2	1	24	22S	24E		551238	3582798*	1905	238	213	25

Average Depth to Water: **203 feet**

Minimum Depth: **100 feet**

Maximum Depth: **400 feet**

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 550626

Northing (Y): 3584603

Radius: 2000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company : Oxy Permian LTD (192463)	Contact : Chris Jones	
Address : 1502 W. Commerce, Carlsbad, NM 88220	Telephone No. : 575-628-4121	
Facility Name : McKittrick Hills Central Tank Battery	Facility Type: Central Tank Battery	
Surface Owner : Federal	Mineral Owner	API#:

LOCATION OF RELEASE

Unit Letter A	Section 14	Township 22S	Range 24E	Feet from the	North/South Line	Feet from the	East/West Line	County: Eddy
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Latitude **32.397740** Longitude **-104.4611**

NATURE OF RELEASE

Type of Release : Oil	Volume of Release : 280 bbls	Volume Recovered: 80 bbls
Source of Release : Dump valve at Heater Treat failed	Date and Hour of Occurrence: 10/31/2014	Date and Hour of Discovery: 10/31/2014
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? OCD/Mike Bratcher voicemail & BLM/Jim Amos	
By Whom: Kimberly Wilson	Date and Hour : 11/6/2014 @11:29 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.* Produced fluids exited location and flowed into Little Water Draw, an ephemeral water course that runs only during precipitous events.

Describe Cause of Problem and Remedial Action Taken.* **A dump valve for the heater treater failed to dump due to trash in the air supply lines, and every time the recirculation pump came on it dumped oil out of the heater treater vent on the back side north west of the location into the pasture down the draw and followed the draw in an easterly direction causing a release of 280 barrels of oil. A vac truck was call to the location and recovered 80 barrels. Talon/LPE was contacted to complete the site assessment and collect soil samples to generate a work plan.**

Describe Area Affected and Cleanup Action Taken.* **The area impacted area was off the northwest side of location. It then followed the draw in an easterly direction measuring approximately 350-feet long by 50-feet wide.**

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

Signature: Chris Jones	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Chris Jones	Approved by District Supervisor:		
Title: HES Specialist	Approval Date:	Expiration Date:	
E-mail Address: Christopher Jones@oxy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 11/6/2014 Phone: 575-628-4121			

* Attach Additional Sheets If Necessary

LABORATORY RESULTS



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

December 10, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MCKITTRICK CTB

Enclosed are the results of analyses for samples received by the laboratory on 12/04/14 10:50.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/04/2014
Reported: 12/10/2014
Project Name: MCKITTRICK CTB
Project Number: 70060833802
Project Location: EDDY COUNTY, NM

Sampling Date: 12/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-1 0' (H403706-01)

BTX 8021B		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.50	2.50	12/08/2014	ND	1.91	95.3	2.00	1.78	
Toluene*	26.1	2.50	12/08/2014	ND	1.88	93.8	2.00	1.90	
Ethylbenzene*	4.26	2.50	12/08/2014	ND	1.76	87.8	2.00	3.30	
Total Xylenes*	65.8	7.50	12/08/2014	ND	5.35	89.2	6.00	3.55	
Total BTX	96.1	15.0	12/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 61-154

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/05/2014	ND	432	108	400	3.77	

TPH 8015M		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	3640	100	12/05/2014	ND	195	97.3	200	0.648	
DRO >C10-C28	29800	100	12/05/2014	ND	199	99.5	200	0.371	

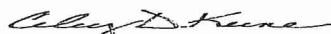
Surrogate: 1-Chlorooctane 317 % 47.2-157

Surrogate: 1-Chlorooctadecane 857 % 52.1-176

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: 12/04/2014
Reported: 12/10/2014
Project Name: MCKITTRICK CTB
Project Number: 70060833802
Project Location: EDDY COUNTY, NM

Sampling Date: 12/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-1 1' (H403706-02)

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.50	2.50	12/08/2014	ND	1.91	95.3	2.00	1.78	
Toluene*	33.0	2.50	12/08/2014	ND	1.88	93.8	2.00	1.90	
Ethylbenzene*	5.94	2.50	12/08/2014	ND	1.76	87.8	2.00	3.30	
Total Xylenes*	91.0	7.50	12/08/2014	ND	5.35	89.2	6.00	3.55	
Total BTEx	130	15.0	12/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 61-154

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	12/05/2014	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: CK				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	3150	100	12/05/2014	ND	195	97.3	200	0.648	
DRO >C10-C28	20300	100	12/05/2014	ND	199	99.5	200	0.371	

Surrogate: 1-Chlorooctane 282 % 47.2-157

Surrogate: 1-Chlorooctadecane 576 % 52.1-176

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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: 12/04/2014
Reported: 12/10/2014
Project Name: MCKITTRICK CTB
Project Number: 70060833802
Project Location: EDDY COUNTY, NM

Sampling Date: 12/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-1 2' (H403706-03)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.50	2.50	12/08/2014	ND	1.91	95.3	2.00	1.78	
Toluene*	40.5	2.50	12/08/2014	ND	1.88	93.8	2.00	1.90	
Ethylbenzene*	4.63	2.50	12/08/2014	ND	1.76	87.8	2.00	3.30	
Total Xylenes*	85.2	7.50	12/08/2014	ND	5.35	89.2	6.00	3.55	
Total BTX	130	15.0	12/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/05/2014	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	4210	100	12/05/2014	ND	195	97.3	200	0.648		
DRO >C10-C28	24700	100	12/05/2014	ND	199	99.5	200	0.371		


Surrogate: 1-Chlorooctane 297 % 47.2-157

Surrogate: 1-Chlorooctadecane 668 % 52.1-176

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*=Accredited Analyte

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Fax To: (575) 745-8905

Received: 12/04/2014
Reported: 12/10/2014
Project Name: MCKITTRICK CTB
Project Number: 70060833802
Project Location: EDDY COUNTY, NM

Sampling Date: 12/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-2 0' (H403706-04)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.50	2.50	12/08/2014	ND	1.91	95.3	2.00	1.78	
Toluene*	21.7	2.50	12/08/2014	ND	1.88	93.8	2.00	1.90	
Ethylbenzene*	4.18	2.50	12/08/2014	ND	1.76	87.8	2.00	3.30	
Total Xylenes*	84.8	7.50	12/08/2014	ND	5.35	89.2	6.00	3.55	
Total BTX	111	15.0	12/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 61-154

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	12/05/2014	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	4230	100	12/05/2014	ND	195	97.3	200	0.648		
DRO >C10-C28	42600	100	12/05/2014	ND	199	99.5	200	0.371		

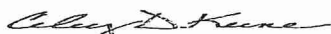
Surrogate: 1-Chlorooctane 360 % 47.2-157

Surrogate: 1-Chlorooctadecane 1190 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 12/04/2014
Reported: 12/10/2014
Project Name: MCKITTRICK CTB
Project Number: 70060833802
Project Location: EDDY COUNTY, NM

Sampling Date: 12/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-2 .5' (H403706-05)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.50	2.50	12/08/2014	ND	1.91	95.3	2.00	1.78	
Toluene*	22.8	2.50	12/08/2014	ND	1.88	93.8	2.00	1.90	
Ethylbenzene*	4.83	2.50	12/08/2014	ND	1.76	87.8	2.00	3.30	
Total Xylenes*	84.8	7.50	12/08/2014	ND	5.35	89.2	6.00	3.55	
Total BTX	112	15.0	12/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 61-154

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	12/05/2014	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	2940	50.0	12/05/2014	ND	195	97.3	200	0.648		
DRO >C10-C28	26500	50.0	12/05/2014	ND	199	99.5	200	0.371		


Surrogate: 1-Chlorooctane 281 % 47.2-157

Surrogate: 1-Chlorooctadecane 806 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 12/04/2014
Reported: 12/10/2014
Project Name: MCKITTRICK CTB
Project Number: 70060833802
Project Location: EDDY COUNTY, NM

Sampling Date: 12/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-3 0' (H403706-06)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<5.00	5.00	12/08/2014	ND	1.91	95.3	2.00	1.78	
Toluene*	44.9	5.00	12/08/2014	ND	1.88	93.8	2.00	1.90	
Ethylbenzene*	6.50	5.00	12/08/2014	ND	1.76	87.8	2.00	3.30	
Total Xylenes*	103	15.0	12/08/2014	ND	5.35	89.2	6.00	3.55	
Total BTX	155	30.0	12/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/05/2014	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	5180	50.0	12/05/2014	ND	195	97.3	200	0.648		
DRO >C10-C28	36300	50.0	12/05/2014	ND	199	99.5	200	0.371		


Surrogate: 1-Chlorooctane 329 % 47.2-157

Surrogate: 1-Chlorooctadecane 1040 % 52.1-176

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/04/2014
Reported: 12/10/2014
Project Name: MCKITTRICK CTB
Project Number: 70060833802
Project Location: EDDY COUNTY, NM

Sampling Date: 12/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-3 4" (H403706-07)

BTEx 8021B		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.50	2.50	12/08/2014	ND	1.91	95.3	2.00	1.78	
Toluene*	23.2	2.50	12/08/2014	ND	1.88	93.8	2.00	1.90	
Ethylbenzene*	4.51	2.50	12/08/2014	ND	1.76	87.8	2.00	3.30	
Total Xylenes*	67.2	7.50	12/08/2014	ND	5.35	89.2	6.00	3.55	
Total BTEX	95.0	15.0	12/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 61-154

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	12/05/2014	ND	432	108	400	3.77	

TPH 8015M		mg/kg	Analyzed By: CK							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	3280	50.0	12/05/2014	ND	195	97.6	200	0.501		
DRO >C10-C28	26600	50.0	12/05/2014	ND	202	101	200	1.55		


Surrogate: 1-Chlorooctane 295 % 47.2-157

Surrogate: 1-Chlorooctadecane 755 % 52.1-176

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Fax To: (575) 745-8905

Received: 12/04/2014
Reported: 12/10/2014
Project Name: MCKITTRICK CTB
Project Number: 70060833802
Project Location: EDDY COUNTY, NM

Sampling Date: 12/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-4 0' (H403706-08)

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<5.00	5.00	12/08/2014	ND	1.91	95.3	2.00	1.78	
Toluene*	42.2	5.00	12/08/2014	ND	1.88	93.8	2.00	1.90	
Ethylbenzene*	<5.00	5.00	12/08/2014	ND	1.76	87.8	2.00	3.30	
Total Xylenes*	94.0	15.0	12/08/2014	ND	5.35	89.2	6.00	3.55	
Total BTEx	138	30.0	12/08/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 61-154

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	12/05/2014	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	5650	100	12/05/2014	ND	195	97.6	200	0.501		
DRO >C10-C28	34000	100	12/05/2014	ND	202	101	200	1.55		

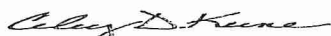
Surrogate: 1-Chlorooctane 342 % 47.2-157

Surrogate: 1-Chlorooctadecane 941 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 12/04/2014
 Reported: 12/10/2014
 Project Name: MCKITTRICK CTB
 Project Number: 70060833802
 Project Location: EDDY COUNTY, NM

 Sampling Date: 12/03/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-4 1' (H403706-09)

BTEx 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.50	2.50	12/09/2014	ND	1.87	93.7	2.00	3.16	
Toluene*	36.3	2.50	12/09/2014	ND	1.72	86.2	2.00	3.97	
Ethylbenzene*	8.08	2.50	12/09/2014	ND	1.63	81.5	2.00	1.82	
Total Xylenes*	109	7.50	12/09/2014	ND	4.90	81.6	6.00	2.34	
Total BTEX	154	15.0	12/09/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 61-154

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	12/05/2014	ND	432	108	400	3.77	

TPH 8015M		mg/kg	Analyzed By: CK							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	3500	50.0	12/05/2014	ND	195	97.6	200	0.501		
DRO >C10-C28	22700	50.0	12/05/2014	ND	202	101	200	1.55		

Surrogate: 1-Chlorooctane 271 % 47.2-157

Surrogate: 1-Chlorooctadecane 699 % 52.1-176

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

Received: 12/04/2014
Reported: 12/10/2014
Project Name: MCKITTRICK CTB
Project Number: 70060833802
Project Location: EDDY COUNTY, NM

Sampling Date: 12/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-4 1.5' (H403706-10)

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	12/09/2014	ND	1.87	93.7	2.00	3.16	
Toluene*	19.2	2.00	12/09/2014	ND	1.72	86.2	2.00	3.97	
Ethylbenzene*	7.06	2.00	12/09/2014	ND	1.63	81.5	2.00	1.82	
Total Xylenes*	77.4	6.00	12/09/2014	ND	4.90	81.6	6.00	2.34	
Total BTEX	104	12.0	12/09/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 120 % 61-154

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/05/2014	ND	432	108	400	3.77	

TPH 8015M		mg/kg	Analyzed By: CK							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	2120	50.0	12/05/2014	ND	195	97.6	200	0.501		
DRO >C10-C28	14000	50.0	12/05/2014	ND	202	101	200	1.55		

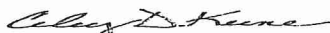
Surrogate: 1-Chlorooctane 302 % 47.2-157

Surrogate: 1-Chlorooctadecane 372 % 52.1-176

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DAVID ADKINS
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Fax To: (575) 745-8905

Received: 12/04/2014
Reported: 12/10/2014
Project Name: MCKITTRICK CTB
Project Number: 70060833802
Project Location: EDDY COUNTY, NM

Sampling Date: 12/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-5 0' (H403706-11)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	5.51	5.00	12/09/2014	ND	1.87	93.7	2.00	3.16	
Toluene*	86.1	5.00	12/09/2014	ND	1.72	86.2	2.00	3.97	
Ethylbenzene*	8.55	5.00	12/09/2014	ND	1.63	81.5	2.00	1.82	
Total Xylenes*	203	15.0	12/09/2014	ND	4.90	81.6	6.00	2.34	
Total BTEx	304	30.0	12/09/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/05/2014	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	9030	100	12/06/2014	ND	195	97.6	200	0.501	
DRO >C10-C28	52600	100	12/06/2014	ND	202	101	200	1.55	

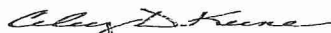
Surrogate: 1-Chlorooctane 435 % 47.2-157

Surrogate: 1-Chlorooctadecane 1470 % 52.1-176

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 Reported: 12/10/2014
 Project Name: MCKITTRICK CTB
 Project Number: 70060833802
 Project Location: EDDY COUNTY, NM

 Sampling Date: 12/03/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-5 .5' (H403706-12)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<5.00	5.00	12/09/2014	ND	1.87	93.7	2.00	3.16	
Toluene*	32.5	5.00	12/09/2014	ND	1.72	86.2	2.00	3.97	
Ethylbenzene*	5.31	5.00	12/09/2014	ND	1.63	81.5	2.00	1.82	
Total Xylenes*	122	15.0	12/09/2014	ND	4.90	81.6	6.00	2.34	
Total BTEX	159	30.0	12/09/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 61-154

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	12/05/2014	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	6620	100	12/06/2014	ND	195	97.6	200	0.501		
DRO >C10-C28	49500	100	12/06/2014	ND	202	101	200	1.55		

Surrogate: 1-Chlorooctane 411 % 47.2-157

Surrogate: 1-Chlorooctadecane 1410 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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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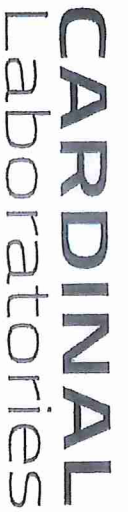
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

1 of 2

Company Name: Talon/PE		P.O. #: 0056113341																	
Project Manager: J.D. Perkins		Company: CRJ																	
Address: 408 W. Texas Ave.		Attn: Chris Jones																	
City: Artesia		State: NM Zip: 88210																	
Phone #: 575-746-8768		Fax #: 575-746-8905																	
Project #: 70060833802		Project Owner: CRJ																	
Project Name: 115-K-14-11-1 CTR		City: Zip:																	
Project Location: 30614		Phone #: Fax #:																	
Sample Name: 3130202		PRESERV: SAMPLING																	
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	PH	BTE2	Total Chlorides		
H403706	5-10'												12-14-05	10:15					
	5-11'												10:15	10:28					
	5-12'												10:28	10:48					
	5-20'												10:48	10:55					
	5-2.5'												10:55	11:35					
	5-3.0'												11:35	11:44					
	5-3.4'												11:44	12:00					
	5-4.0'												12:00	12:10					
	5-4.1'												12:10	12:20					
	5-4.15'												12:20						
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and damage exclusive remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the analysis. 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 analysis. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of data, 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 remedies or otherwise.</p>																			
Relinquished By: [Signature]		Date: 12-14-05		Time: 10:50		Received By: [Signature]		Date: 12-14-05		Time: 10:50		Phone Result: [] Yes [] No		Fax Result: [] Yes [] No		Add'l Phone #: 1126388		Add'l Fax #: 6161030105	
Delivered By: (Circle One)		Sample Condition		Cool		Intact		Checked By: [Signature]		Initials		Project Number		Tag Number		6161030105			
Sampler - UPS - Bus - Other:		5-20'		[] Yes [] No		[] Yes [] No		10											

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 16 of 16