

October 7, 2013

Mr. Jim Amos **BUREAU of LAND MANAGEMENT**

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

620 E Green St. Carlsbad, NM 88220

Subject:

Remedial Activities and Closure Report Oxy Permian, LTD McKittrick 11 #5 SWD

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

Dear Mr. Amos,

Oxy Permian (Oxy) has contracted Talon/LPE (Talon) to perform initial spill response, soil assessment and remediation services at the above referenced location. HOBBS The incident description, soil sampling results, remediation activities and closure 318 East Taylor Street Hobbs, New Mexico 88240 request are submitted herein. Phone 575.393.4261

Incident Date

MIDLAND 290I State Hwy 349 Midland, Texas 79706 Phone 432.522.2133 Fax 432.522.2180

Fax 575.393.4658

The release was discovered by Oxy Personnel on February 20, 2013

Background Information

7700 North Hudson Avenue Oklahoma City, Oklahoma 73116 Fax 806.467.0622

> SAN ANTONIO II Commercial Place Schertz, Texas 78154 Phone 210.265.8025

The McKittrick 11 #5 SWD is located approximately twenty-two (22) miles nborthwest of Carlsbad, New Mexico. The legal location for the site is Unit Letter L. Section 11, Township 22 South, Range 24 East in Eddy County, New Mexico, More specifically the latitude and longitude for the release are 32.40989 North -104.47355 West.

According to the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is comprised of the Queen and Grayburg Formation (Guadalupian) consisting of gypsum, anhydrite, salt, dolomite, and siltstone. Drainage courses in this area are normally dry. Ground water in the project vicinity is approximately 100-feet below ground surface (bgs), according to the New Mexico Office of the State Engineer. The referenced groundwater data is presented in Appendix II.

ollowing: Sife Ranking 0, Should be 20 Distant to Surfue Water Bidy = 2000 = 20 ph The ranking for this site is 0 based on the 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 Toll Free: 866.742.0742 www.talonlpe.com

OKLAHOMA CITY Suite IO Phone 405.486.7030

Fax 210,568,2191

Incident Description

An 8-inch flowline ruptured causing a release of approximately 3500bbls of produced fluids. The fluids ran from the release point and down a draw for approximately 0.7 miles. Emergency response activities included an immediate shut-in of the flowline and the mobilization of vacuum truck to recover standing fluids within the draw. A total 500bbls were recovered.

Remedial Actions

February 20, 2013

- Vacuum trucks were mobilized to recover standing fluids within the draw (a total of 500bbls were recovered).
- Talon personnel were mobilized to perform an initial site assessment and collect soil and water samples. (See Appendix I for site map of sample locations.)*
- The soil and water samples were sent to Cardinal Laboratories in Hobbs, New Mexico for analysis. A data table summarizing the results is attached. (See Appendix III for complete laboratory results.)

May 2, 2013

• Two micro-blaze applications were used to correct TPH levels at sample locations S-9, S-10 and S-11, per recommendation from Jim Amos of the Bureau of Land Management (BLM).

July 4, 2013

- After a 60 day interval (as requested by Jim Amos) sample locations S-9, S-10 and S-11 were resampled and analyzed for TPH. (See Appendix III for complete laboratory results.)
- The resulting laboratory analysis has indicated the samples to be below the Recommended Remedial Action Levels (RRAL's) for Total Petroleum Hydrocarbons (TPH)

*All soil samples were collected by Talon personnel wearing clean nitrile gloves. The soil samples were placed in laboratory provided sample containers and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for a combination TPH (Total Petroleum Hydrocarbons) using EPA Method 8015M, volatile organics (BTEX) using EPA Method 8021B, and total Chloride concentration using Method SM4500CL-B. The complete laboratory reports are attached.

Sample ID	Depth	BTEX	Chlorides	TPH (mg/kg)	TPH (mg/kg)
	(feet)	(mg/kg)	(mg/kg)	GRO	DRO
BG-1	0	ND	ND	ND	· ND
S-1	0	ND	480	ND	ND
S-2	0	ND	80	ND	ND
S-3	0	ND	608	ND	ND
S-4	0	ND	1310	ND	ND
S-5	0	ND	2760	ND	ND
S-6	0	ND	576	ND	ND
S-7	0	ND	288	ND	ND
S-8	0	ND	288	ND ·	ND
S-9	0	21.7	80	339	3230
S-10	0	ND	240	ND	ND
S-11	0	2.69	128	52.8	1110
S-12	0	ND	272	ND	ND
S-13	0	ND	256	ND	ND
S-14	0	ND	288	ND	ND
W/BG-1	0		20		
W-1	0		1260		
W-2	0		1360		
W-3	0		1260		
W-4	0		1220		
W-5	0		1130		
W-6	0		1230		~~
W-7	0		1120		
W-8	0		1360		
W-9	0		1180		

Analytical Results from sampling activities on February 20, 2013 are summarized below:

(--) Analyte Not Tested

(ND) Analyte Not Detected

Analytical Results from sampling activities on July 4, 2013 are summarized below:

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-9	0			ND	2990
S-10	0			ND	189
S-11	0			ND	34.1

(--) 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, 5,000 mg/kg for TPH.

Summary and Conclusions

- Ground water in the project vicinity is approximately 100-feet bgs.
- The produced fluids released were relatively low in chlorides and should cause no impact on vegetation in the area.
- TPH in the micro-blazed area decreased within the 60 day interval and is now below NMOCD Recommended Remedial Action Levels (RRAL's).

Closure

On behalf of Oxy Permian we respectfully request that no further actions be required and that closure with regard to this release be granted.

If we can provide additional information or be of further assistance, please contact our office at (575)-746-8768.

Respectfully submitted,

TALON/LPE

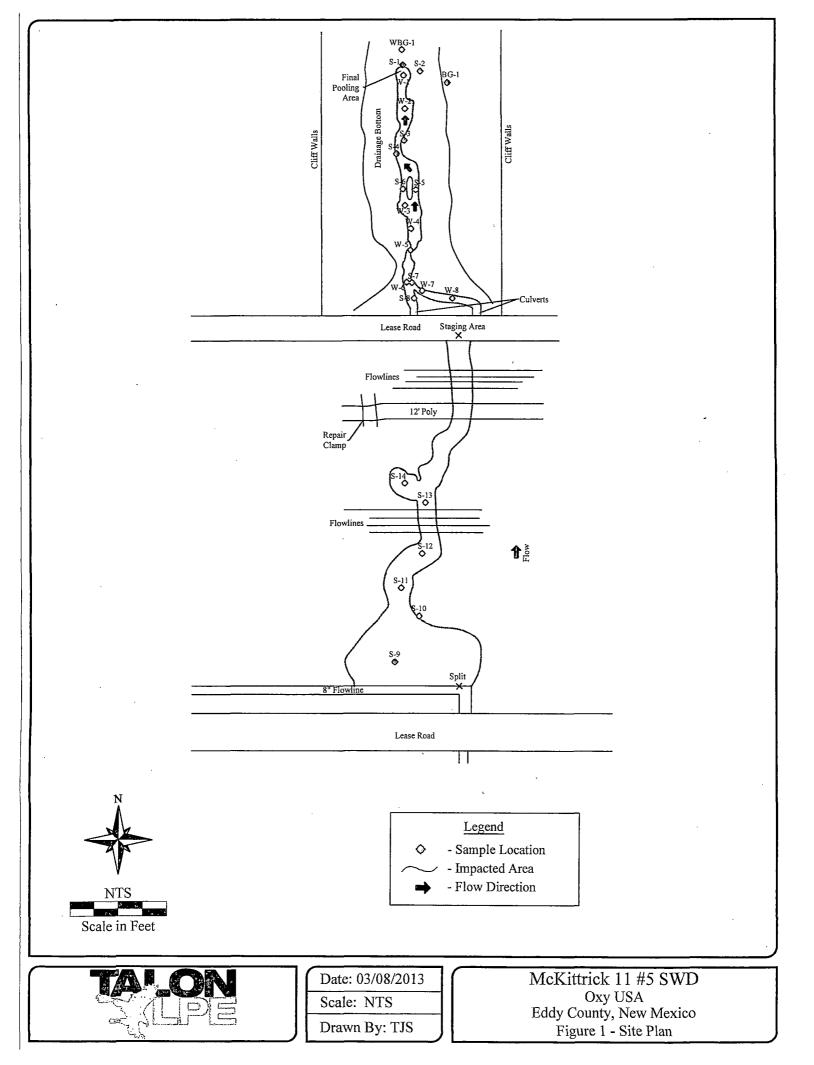
Stellan jun

Sheldon Hitchcock Environmental Scientist

David J. Adkins District Manager

SITE PLAN

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GROUNDWATER DATA

	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)	•••					2=NE 3 st to larg	=SW 4=SE gest) (NA) AD83 UTM in me	ters)	(1	In feet)	
POD Number	POD Sub- Code basin Coun	Q ty 64	Q 16	Q 4	Sec	Tws	Rnĝ	×	Ŷ	Distance	1.2.2	Depth Water	Water Column
C 02351	ED	3	2	2	15	22S	24E	548817	3584393* 🌍	1035	120	100	20
<u>C 02384</u>	ED	3	2	2	15	22S	24E	548817	3584393* 🚱	1035	120	100	20
<u>C 02428</u>	ED	4	2	1	12	22S	24E	551426	3586017* 🌍	2227	450	400	50
									Avera	ge Depth to	Water:	200	feet
										Minimum	Depth:	100 1	feet
										Maximum	Depth:	400 t	feet
Record Count: 3	907 9749 3744 7747 2448 4848 3978 8448 8448 8448 8448 8458 847		~ ~~			. 19-1 - 194							nan want kinu; nikas kin

Basin/County Search:

County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 549317

Northing (Y): 3585300

Radius: 3000

*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.

LABORATORY RESULTS

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February 27, 2013

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

RE: MC KITTRICK 11 #5 SWD

Enclosed are the results of analyses for samples received by the laboratory on 02/21/13 12:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited 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.

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,

Celez D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	02/21/2013	Sampling Date:	02/20/2013
Reported:	02/27/2013	Sampling Type:	Soil
Project Name:	MC KITTRICK 11 #5 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: BG - 1 (H300477-01)

BTEX 8021B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2013	ND	2.25	113	2.00	3.27	
Toluene*	<0.050	0.050	02/25/2013	ND	2.29	115	2.00	0.454	
Ethylbenzene*	<0.050	0.050	02/25/2013	ND	2.26	113	2.00	1.32	
Total Xylenes*	< 0.150	0.150	02/25/2013	ND	7.03	117	6.00	3.37	
Total BTEX	<0.300	0.300	02/25/2013	ND					

Chloride, SM4500CI-B	mg.	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/25/2013	ND	416	104	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	02/26/2013	ND	184	91.9	200	12.5	
DRO >C10-C28	<10.0	10.0	02/26/2013	ND	178	88.8	200	14.1	

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/21/2013	Sampling Date:	02/20/2013
Reported:	02/27/2013	Sampling Type:	Soil
Project Name:	MC KITTRICK 11 #5 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S - 1 (H300477-02)

BTEX 8021B		/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2013	ND	2.25	113	2.00	3.27	
Toluene*	<0.050	0.050	02/25/2013	ND	2.29	115	2.00	0.454	
Ethylbenzene*	<0.050	0.050	02/25/2013	ND	2.26	113	2.00	1.32	
Total Xylenes*	<0.150	0.150	02/25/2013	ND	7,03	117	6.00	3.37	
Total BTEX	<0.300	0.300	02/25/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 111 % 89.4-126

Chloride, SM4500Ci-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	02/25/2013	ND	416	104	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	02/26/2013	ND	184	91.9	200	12.5	
DRO >C10-C28	<10.0	10.0	02/26/2013	ND	178	88.8	200	14.1	

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received:	02/21/2013	Sampling Date:	02/20/2013
Reported:	02/27/2013	Sampling Type:	Soil
Project Name:	MC KITTRICK 11 #5 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S - 2 (H300477-03)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					,
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2013	ND	2.25	113	2.00	3.27	
Toluene*	<0.050	0.050	02/25/2013	ND	2.29	115	2.00	0.454	
Ethylbenzene*	<0.050	0.050	02/25/2013	ND	2.26	113	2.00	1.32	
Total Xylenes*	<0.150	0.150	02/25/2013	ND	7.03	117	6.00	3.37	
Total BTEX	<0.300	0.300	02/25/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE 110 % 89.4-126

Chloride, SM4500CI-B	mg	/kg	Алајуze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/25/2013	ND	416	104	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	02/26/2013	ND	184	91.9	200	12.5	
DRO >C10-C28	<10.0	10.0	02/26/2013	ND	178	88.8	200	14.1	
Surrogate: 1-Chlorooctane	85.0	% 65.2-14	0						

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/21/2013	Sampling Date:	02/20/2013
Reported:	02/27/2013	Sampling Type:	Soil
Project Name:	MC KITTRICK 11 #5 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S - 3 (H300477-04)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2013	ND	2.25	113	2.00	3.27	
Toluene*	<0.050	0.050	02/25/2013	ND	2.29	115	2.00	0.454	
Ethylbenzene*	<0.050	0.050	02/25/2013	ND	2.26	113	2.00	1.32	
Total Xylenes*	<0.150	0.150	02/25/2013	ND	7.03	117	6.00	3.37	
Total BTEX	<0.300	0.300	02/25/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 110 % 89.4-126

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	02/25/2013	ND .	416	104	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	02/26/2013	ND	184	91,9	200	12.5	
DRO >C10-C28	<10.0	10.0	02/26/2013	ND	178	88.8	200	14.1	
Surrogate: 1-Chlorooctane	93.6	% 65.2-14	0						<u> </u>
Surrogate: 1-Chlorooctadecane	109	% 63.6-15	4						

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Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/21/2013	Sampling Date:	02/20/2013
Reported:	02/27/2013	Sampling Type:	Soil
Project Name:	MC KITTRICK 11 #5 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S - 4 (H300477-05)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2013	ND	2.25	113	2.00	3.27	
Toluene*	<0.050	0.050	02/25/2013	ND	2.29	115	2.00	0.454	
Ethylbenzene*	<0.050	0.050	02/25/2013	ND	2.26	113	2.00	1,32	
Total Xylenes*	<0.150	0.150	02/25/2013	ND	7.03	117	6.00	3.37	
Total BTEX	<0.300	0.300	02/25/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 110 % 89.4-126

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1310	16.0	02/25/2013	ND	416	104	400	3.77	
ТРН 8015М	mg	mg/kg		Analyzed 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	02/26/2013	ND	184	91.9	200	12.5	
	<10.0	10.0	02/26/2013	ND	178	88.8	200	14.1	

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

3 Sampling	ate: 02/20/2013
3 Sampling	ype: Soil
ICK 11 #5 SWD Sampling	ondition: Cool & Intact
EN Sample R	eived By: Jodi Henson
N	
	3 Sampling T CK 11 #5 SWD Sampling C EN Sample Rec

Sample ID: S - 5 (H300477-06)

mg,	kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	02/25/2013	ND	2.25	113	2.00	3.27	
<0.050	0.050	02/25/2013	ND	2.29	115	2.00	0.454	
<0.050	0.050	02/25/2013	ND	2.26	113	2.00	1.32	
<0.150	0.150	02/25/2013	ND	7.03	117	6.00	3.37	
<0.300	0.300	02/25/2013	ND					
	Result <0.050 <0.050 <0.050 <0.150	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

Surrogate: 4-Bromofluorobenzene (PIL 111 % 89.4-126

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	02/25/2013	ND	416	104	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	02/26/2013	ND	184	91.9	200	12.5	
DRO >C10-C28	<10.0	10.0	02/26/2013	ND	178	88.8	200	14.1	
Surrogate: 1-Chlorooctane	90.4	% 65.2-14							

Surrogate: I-Chlorooctadecane 109 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/21/2013	Sampling Date:	02/20/2013
Reported:	02/27/2013	Sampling Type:	Soil
Project Name:	MC KITTRICK 11 #5 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S - 6 (H300477-07)

BTEX 8021B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2013	ND	2.25	113	2.00	3.27	
Toluene*	<0.050	0.050	02/25/2013	ND	2.29	115	2.00	0.454	
Ethylbenzene*	<0.050	0.050	02/25/2013	ND	2,26	113	2.00	1.32	
Total Xylenes*	<0.150	0.150	02/25/2013	ND	7.03	117	6.00	3.37	
Total BTEX	<0.300	0.300	02/25/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 110 % 89.4-126

Chloride, SM4500Cl-B	mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	02/25/2013	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Anaiyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/26/2013	ND	184	91.9	200	12.5	
DRO >C10-C28	<10.0	10.0	02/26/2013	ND	178	88.8	200	14.1	

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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Received:	02/21/2013	Sampling Date:	02/20/2013
Reported:	02/27/2013	Sampling Type:	Soil
Project Name:	MC KITTRICK 11 #5 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S - 7 (H300477-08)

BTEX 8021B	mg,	/kg	Analyze	Analyzed By: AP					·
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2013	ND	2.25	113	2.00	3.27	
Toluene*	<0.050	0.050	02/25/2013	ND	2.29	115	2.00	0.454	
Ethylbenzene*	<0.050	0.050	02/25/2013	ND	2.26	113	2.00	1.32	
Total Xylenes*	<0.150	0.150	02/25/2013	ND	7.03	117	6.00	3.37	
Total BTEX	<0.300	0.300	02/25/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 109 % 89.4-126

Chloride, SM4500Cl-B	mg/	mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	02/25/2013	ND	416	104	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	02/26/2013	ND	184	91.9	200	12.5	
DRO >C10-C28	<10.0	10.0	02/26/2013	ND	178	88.8	200	14.1	
Surrogate: 1-Chlorooctane	88.9	% 65.2-14	0						= .
Surrogate: 1-Chlorooctadecane	103 :	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	02/21/2013	Sampling Date:	02/20/2013
Reported:	02/27/2013	Sampling Type:	Soil
Project Name:	MC KITTRICK 11 #5 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S - 8 (H300477-09)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2013	ND	2.25	113	2,00	3.27	
Toluene*	<0.050	0.050	02/25/2013	ND	2.29	115	2.00	0.454	
Ethylbenzene*	<0.050	0.050	02/25/2013	ND	2.26	113	2.00	1.32	
Total Xylenes*	<0.150	0.150	02/25/2013	ND	7.03	117	6.00	3.37	
Total BTEX	<0.300	0.300	02/25/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109 9		6		-				
Chloride, SM4500CI-B	mg/	kg ,	Analyze	d By: DW	•				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	02/25/2013	ND	416	104	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	02/26/2013	ND	184	91.9	200	12.5	
DRO >C10-C28	<10.0	10.0	02/26/2013	ND	178	88.8	200	14.1	
Surrogate: 1-Chlorooctane	84.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	100	63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	02/21/2013	Sampling Date:	02/20/2013
Reported:	02/27/2013	Sampling Type:	Soil
Project Name:	MC KITTRICK 11 #5 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S - 9 (H300477-10)

BTEX 8021B	mg/kg		Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.418	0.050	02/25/2013	ND	2.25	113	2.00	3,27	
Toluene*	4.16	0.050	02/25/2013	ND	2.29	115	2.00	0.454	
Ethylbenzene*	1.27	0.050	02/25/2013	ND	2.26	113	2.00	1,32	
Total Xylenes*	15.9	0.150	02/25/2013	ND	7.03	117	6.00	3.37	
Total BTEX	21.7	0.300	02/25/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 208 % 89.4-126

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/25/2013	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS			<u> </u>			S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	339	10.0	02/26/2013	ND	184	91.9	200	12.5	
DR0 >C10-C28	3230	10.0	02/26/2013	ND	178	88.8	200	14.1	
Surrogate: 1-Chlorooctane		-	· ·	· · · · · · · · · · · · · · · · · · ·					

Surrogate: 1-Chlorooctadecane 169 % 63.6-154

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Received:	02/21/2013	Sampling Date:	02/20/2013
Reported:	02/27/2013	Sampling Type:	Soil
Project Name:	MC KITTRICK 11 #5 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		•

Sample ID: S - 10 (H300477-11)

BTEX 8021B	mg/kg		Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2013	ND	2.25	113	2.00	3.27	
Toluene*	<0.050	0.050	02/25/2013	ND	2.29	115	2,00	0.454	
Ethylbenzene*	<0.050	0.050	02/25/2013	ND	2.26	113	2.00	1.32	
Total Xylenes*	<0.150	0.150	02/25/2013	ND	7.03	117	6.00	3.37	
Total BTEX	<0.300	0.300	02/25/2013	ND					

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

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/25/2013	ND	416	104	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	02/26/2013	ND	177	88.3	200	12.4	
DRO >C10-C28	<10.0	10.0	02/26/2013	ND	161	80.7	200	15.8	
Surrogate: 1-Chlorooctane	83.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	101	% 63.6-15	4						

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Received:	02/21/2013	Sampling Date:	02/20/2013
Reported:	02/27/2013	Sampling Type:	Soil
Project Name:	MC KITTRICK 11 #5 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S - 11 (H300477-12)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.067	0.050	02/27/2013	ND	2.25	113	2.00	3.27	
Toluene*	0.682	0,050	02/27/2013	ND	2.29	115	2.00	0.454	
Ethylbenzene*	0.125	0.050	02/27/2013	ND	2.26	113	2.00	1.32	
Total Xylenes*	1,82	0.150	02/27/2013	ND	7.03	117	6.00	3.37	
Total BTEX	2.69	0.300	02/27/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 125 % 89.4-126

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/25/2013	ND	416	104	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	52.8	10.0	02/26/2013	ND	177	88,3	200	12.4	
DRO >C10-C28	1110	10.0	02/26/2013	ND	161	80.7	200	15.8	
Surrogate: 1-Chlorooctane	77.3	% 65.2-14	0			<u></u>			
Surrogate: 1-Chlorooctadecane	117	% 63.6-15	4						

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Received:	02/21/2013	Sampling Date:	02/20/2013
Reported:	02/27/2013	Sampling Type:	Soil
Project Name:	MC KITTRICK 11 #5 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S - 12 (H300477-13)

BTEX 8021B	mg/l	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2013	ND	2.25	113	2.00	3.27	
Toluene*	<0.050	0.050	02/26/2013	ND	2.29	115	2.00	0.454	
Ethylbenzene*	<0.050	0.050	02/26/2013	ND	2.26	113	2.00	1.32	
Total Xylenes*	<0.150	0.150	02/26/2013	ND	7.03	117	6.00	3.37	
Total BTEX	<0,300	0.300	02/26/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	114 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/25/2013	ND	416	104	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	02/26/2013	ND	177	88.3	200	12.4	
DRO >C10-C28	<10.0	10.0	02/26/2013	ND	161	80.7	200	15.8	
Surrogate: 1-Chlorooctane	77.9 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	94.0 %	63.6-15	4						

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Received:	02/21/2013	Sampling Date:	02/20/2013
Reported:	02/27/2013	Sampling Type:	Soil
Project Name:	MC KITTRICK 11 #5 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S - 13 (H300477-14)

BTEX 8021B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/27/2013	ND	2.25	113	2.00	3.27	
Toluene*	<0.050	0.050	02/27/2013	ND	2.29	115	2.00	0.454	
Ethylbenzene*	<0.050	0.050	02/27/2013	ND	2.26	113	2.00	1.32	
Total Xylenes*	<0.150	0.150	02/27/2013	ND	7.03	117	6.00	3.37	
Total BTEX	<0.300	0.300	02/27/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 112 % 89.4-126

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	02/25/2013	ND	416	104	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	02/26/2013	ND	177	88.3	200	12.4	
DRO >C10-C28	<10.0	10.0	02/26/2013	ND	161	80.7	200	15.8	
Surrogate: 1-Chlorooctane	66.2	% 65.2-14	0						<u>.</u>
Surrogate: 1-Chlorooctadecane	78.0	% 63.6-15	4						

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Received:	02/21/2013	Sampling Date:	02/20/2013
Reported:	02/27/2013	Sampling Type:	Soil
Project Name:	MC KITTRICK 11 #5 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S - 14 (H300477-15)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2013	ND	2.25	113	2,00	3.27	
Toluene*	<0.050	0.050	02/26/2013	ND	2.29	115	2,00	0.454	
Ethylbenzene*	<0.050	0.050	02/26/2013	ND	2.26	113	2.00	1.32	
Total Xylenes*	<0.150	0.150	02/26/2013	ND	7.03	117	6.00	3.37	
Total BTEX	<0.300	0.300	02/26/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	113 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	02/25/2013	ND	416	104	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

ND

ND

215

212

108

106

200

200

1.75

1.51

02/27/2013

02/27/2013

Cardinal Laboratories

GRO C6-C10

DRO >C10-C28

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

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Celeg D. Keine

<10.0

<10.0

89.5 %

100 %

10.0

10.0

65.2-140

63.6-154

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celeg Di Keine

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

Company Namo: Talon/LPE						BILL TO				ANALYSIS REQUEST																
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FOR LAB USE ONLY	aler an	Τ	T			VIATI	राष्ट्र		9	RESER	V	SAMPL	NG	_			2						ľ			
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PLEASE NOTE: Ltability and Danages. Cardinal's liability and client's exclusive remedy for any claim anting whisther based in control of client, shall be limited to the amount poild by the client for the analyses. All claims including those for negligence and any other reases that be used without which and received by Continue which a D days after completion of the services. In event shall Contain be indiced in a consequent domages, including without limitation: usings interruptions, loss of use, of asso a profus bound by client, its used interruptions, loss of use, of asso a profus bound by client. Its used interruptions, loss of use, of asso a profus bound by client, its used interruptions, loss of use, of asso a profus bound by client. Its used interruptions, loss of use, of asso a profus bound by client. Its used interruptions, loss of use, of asso a profus bound by client. Its used interruptions, loss of use, of asso a profus bound by client. Its used interruptions, loss of use, of asso a profus by client. Its used interruptions, loss of asso associated by client. Its used interruptions, loss of associate and any associate associate and associate associated by client. Its used interruptions, loss of associate associate associate associated by client. Its used interruptions, loss of associate associated by client. Its used interruptions, loss of associate associated by client. Its used interruptions, loss of associate associate associated assoc

alliates or encoursons arising out of or related to five performance of envices hereunder by Cerufinal, reperform of whother such sterior is based upon any of the above stated research or otherwise, Add'l Phone #: Add'l Fax #: Relinquished By: Received By: Phone Result: 🗆 Yes Date: D Yes 2 Fax Result: REMARKS: Picase 1496 Time: messiell Relinquished By: Auore D Received Ev: mile 15 Lolli Delivered By: [Circle One) Sample Condition CHEC Cool Intact Dros Z Yes 5,5% Sampler - UPS - Bus - Other:

† Cardinal cannot accept verbal changes. Please fax written changes to 595-393-2476

Page 18 of 19



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	101 East Marland, Hobbs, NM 882	240																			
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FOR LAB USE ONLY				MATRI	X		PRESERV	SAMPLING		ŀ,	1					1					.'
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service. In no event shell Cardinal be flable for incidental or consequental damages, including without limitation: curiness interruptions, loss of une, or loss of profits incurred by chent, its subcidiaries;

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		2-2/-13	Fax Result: 🛛 Yes 🖸 No Add'I Fax #:	
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-	Relinquished By:	Dater -1/13 Redeived By:	_	
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	Sampler - UPS - Bus - Other:	5,5° Cool filect Dyes Dyes Dyes		
	† Cardinal cannot accent verbal c	hanges. Please fax written changes to 505-393-2476		
		#26		Page



February 25, 2013

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

RE: MC KITTRICK 11 #5 SWD

Enclosed are the results of analyses for samples received by the laboratory on 02/21/13 12:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at **www.tceq.texas.gov/field/qa/lab_accred_certif.html**.

Cardinal Laboratories is 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.

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,

Celez D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	02/21/2013	Sampling Date:	02/20/2013	
Reported:	02/25/2013	Sampling Type:	Water	
Project Name:	MC KITTRICK 11 #5 SWD	Sampling Condition:	Cool & Intact	
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson	
Project Location:	NOT GIVEN			

Sample ID: W/BG - 1 (H300478-01)

Chloride, SM4500CI-B	mg,	/L	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	20.0	4.00	02/25/2013	ND	432	108	400	0.00	

Sample ID: W - 1 (H300478-02)

Chloride, SM4500Cl-B	mg,	/L	Analyze	d By: DW			· · · · · · · · · · · · · · · · · · ·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1260	4.00	02/25/2013	ND	108	108	100	0.00	

Sample ID: W - 2 (H300478-03)

Chloride, SM4500Cl-B	loride, SM4500Cl-B mg/L		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1360	4.00	02/25/2013	ND	108	108	100	0.00	

Sample ID: W - 3 (H300478-04)

Chloride, SM4500Cl-B mg/L		/L	Analyze	/zed By: DW							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride*	1260	4.00	02/25/2013	ND	108	108	100	0.00			

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/21/2013	Sampling Date:	02/20/2013	
Reported:	02/25/2013	Sampling Type:	Water	
Project Name:	MC KITTRICK 11 #5 SWD	Sampling Condition:	Cool & Intact	
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson	
Project Location:	NOT GIVEN			

Sample ID: W - 4 (H300478-05)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1220	4.00	02/25/2013	ND	108	108	100	0.00	

Sample ID: W - 5 (H300478-06)

Chloride, SM4500CI-B	mg	/Լ	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1130	4.00	02/25/2013	ND	108	108	100	0.00	

Sample ID: W - 6 (H300478-07)

Chloride, SM4500Cl-B	mg/L		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1230	4.00	02/25/2013	ND	108	108	100	0.00	

Sample ID: W - 7 (H300478-08)

Chloride, SM4500Cl-B	mg/L		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1120	4.00	02/25/2013	ND	108	108	100	0.00	

Sample ID: W - 8 (H300478-09)

Chloride, SM4500CI-B	B mg/L		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1200	4.00	02/25/2013	ND	108	108	100	0.00	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	02/21/2013	Sampling Date:	02/20/2013
Reported:	02/25/2013	Sampling Type:	Water
Project Name:	MC KITTRICK 11 #5 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: W - 9 (H300478-10)

Chloride, SM4500Cl-B mg/L		Analyze	Analyzed By: DW				<u> </u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1180	4.00	02/25/2013	ND	108	108	100	0.00	

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Celeg D. Kene

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 6



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 SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-247	6		
Company Name: Talon/LPE		BILL TO	ANALYSIS REQUEST
Project Manager: D. ANILINS		P.O. #:	
Address: 409 V. TEXAS AVE		Company: JUGA	
City: Art=5id State: N.M.	Zip: \$6210	Attn:	
Phone #: 575-746-8768 Fax #: 1		Address:	
Project #: Project Owne		City:	
Project Name: Maker Hr Kon 11 7 5 5 6 400		State: Zip:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Project Location:		Phone #	
Sampler Name: Sheldon it it hun colli		Fax #:	
FOR LAS USE ONLY	MATRIX	PRESERV SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNUWATER GROUNUWATER WASTEWATER SOIL OII. SLUDGE	OTHER: AGIDIBASE CELCOOL CELCOOL AGIDIBASE	
1 W/B61	511	1/ 2-20-13 2:30,	
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PLEASE NOTE: Labelity and Domagos. Cardinate litibility and dilents exclusive remedy for any claim arbitrative cased in contractor lon, shall be limited to the amount paid by the client for the analyses. All cleans including investor negligence and any other cause whatbaever shall be deemed valved unless made in within states within 33 days after completion of the applicable service. In no event shall Cardinal be liable for inditinial or consequential damages, including Without limitedon, business Miteruplices, loss of Jac, or Lass of profile incurred by effort, its availation iss.

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	2-2-)	Fax Result: D Yes D No (Add') Fax #:
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	19115 Jacob Weiss March	
mike Shalle hield	12:45 Well Allow	
Delivered By: (Circle One)	Sample Condition , CHECKED BY:	
Sampler - UPS - Bus - Other:	56° Cool Intect (Intelsis)	
Sampler - 01-5 - Bus - Other.	5.5° Fres Mo	

* Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2475



July 11, 2013

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MC KITTRICK 11 #5 SWD

Enclosed are the results of analyses for samples received by the laboratory on 07/05/13 8:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	07/05/2013	Sampling Date:	07/04/2013
Reported:	07/11/2013	Sampling Type:	Soil
Project Name:	MC KITTRICK 11 #5 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Daniel Wade
Project Location:	NOT GIVEN		

Sample ID: S-9 (H301582-01)

TPH 8015M	mg,	/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	07/10/2013	ND	205	103	200	4.96	
DRO >C10-C28	2990	50.0	07/10/2013	ND	214	107	200	6.93	
Surrogate: 1-Chlorooctane	86.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	175	% 63.6-15	4						

Sample ID: S-10 (H301582-02)

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	07/10/2013	NÐ	205	103	200	4.96	
DRO >C10-C28		189	10.0	07/10/2013	ND	214	107	200	6.93	
Surrogate: 1-Chlorooctane		84.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane		91,1	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celing D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/05/2013	Sampling Date:	07/04/2013
Reported:	07/11/2013	Sampling Type:	Soil
Project Name:	MC KITTRICK 11 #5 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Daniel Wade
Project Location:	NOT GIVEN		

Sample ID: S-11 (H301582-03)

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	07/10/2013	ND	205	103	200	4.96	
DRO >C10-C28	34.1	10.0	07/10/2013	ND	214	107	200	6.93	
Surrogate: 1-Chlorooctane	88.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	90.4	% 63.6-15	4						

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*=Accredited Analyte

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 client for analyses. All claims, including those for negligence and any other cause whatboever shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be limited to i be performance of the services the services the services the services of the services are under by Clardinal be limited to the services are under by Clardinal be limited to the services of the services of the services of the services the services.

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

Notes and Definitions

5-06	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 SM4500CI-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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Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 5

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Release Notificat	tion and	l Corre	ctive A	ction		**************************************					
Name of Company : Oxy Permian LTD (192463)		OPERATOR Initial Report Final Report									
Address : 1502 W. Commerce, Carlsbad, NM 88220 Facility Name : McKittrick 11-5 SWD Facility		one No. : 5 y Type: SV									
Surface Owner : Mineral Own		y Type. 5			e No	NM 53219					
				1		5-33611					
Unit LetterSectionTownshipRangeFeet from theNL1122S24E11	lorth/South	Line Feet	from the	East/West Lir	ie Cou	mty Eddy					
Latitude <u>32.40989</u>		itude_ <u>104</u>									
Type of Release : Produced Water		RELEAS		bls Volum	ne Recov	rered: 500					
Source of Release : 8" Poly line split	Date	and Hour o 2013			Date and Hour of Discovery: 2/20/2013						
Was Immediate Notice Given?	If Y	If YES, To Whom?									
By Whom? CJ Summers (Oxy) Was a Watercourse Reached?		and Hour :		the Watercourse							
Yes No If a Watercourse was Impacted, Describe Fully.* Produced fluids exionly during precipitous events.	ted location	and flowed	into Little	Water Draw, an	cphemc	ral water course that runs					
Describe Cause of Problem and Remedial Action Taken.* An 8" pipeline spilt at the 45 degree joint causing a release of approx in of the pipeline to stop leak and vac trucks on site to pick up all sta				ids. Emergency	response	: included immediate shut-					
Describe Area Affected and Cleanup Action Taken.* The area impu- wide in others. Talon/LPE was contacted to complete the site assess A site map and water data from the State Engineers office are also at archeological site any further remediation will disturb the area. The actions should be required.	nent. Talon tached. All analytical d	collected so standing wat ata came bac	il and wate er down th k under th	er samples and the draw was pick e Recommend R	ne labora ed up. D emedial	tory results are attached. ue to the draw being in an Actions Levels. No further					
I hereby certify that the information given above is true and complet regulations all operators are required to report and/or file certain rele public health or the environment. The accentance of a C-141 report should their operations have failed to accentance of a C-141 rep or the environment. In addition, MCCD acceptance of a C-141 rep federal, state, or local laws and or regulations	ase notificat by the NMC ediate conta	ions and per CD marked mination the	form corre as "Final I at pose a th	ective actions for Report" does not areat to ground w	releases relieve t ater, sur	which may endanger the operator of liability face water, human health					
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E-mail Address: Christopher Jones@ocy.com		ions of App	roval:			ttached					
Date: 3/5/2013 Phone: 575-628-4121 * Attach Additional Sheets If Necessary											