Creek AL Federal #12

Analytical Report-	Sample Date	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
P-16'	10/16/2012	16'	585	11200	24000	35200	2240
P-18'	10/16/2012	18'	821	14400	19600	34000	2960
P-20'	10/16/2012	20'	237	3470	5020	8490	2240
P-22'	10/16/2012	22'	0.5	ND	ND	ND	4560
P-24'	10/16/2012	24'	.7	ND	24.9	24.9	7600

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 184', per trend map).

All results are ppm.Chlorides for documentation.

Release Date: 10/10/2012



YATES PETROLEUM CORPORATION

Wednesday, October 17., 2012 Creek AL Federal #12 Spill 1 & 2 Spill 1 Spill 2 ~23' depth 14' depth Lease Road SE SW



October 17, 2012

LUPE CARRASCO
Yates Energy Petroleum Corp
105 S 4th Street
Artesia, NM 88210

RE: CREEK AL FEDERAL #12

Enclosed are the results of analyses for samples received by the laboratory on 10/16/12 13:30.

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 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.

Celeg 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



Yates Energy Petroleum Corp **LUPE CARRASCO** 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

10/16/2012

Sampling Date:

10/16/2012

Reported:

10/17/2012

Sampling Type:

Soil

Project Name:

CREEK AL FEDERAL #12

Sampling Condition:

Cool & Intact

Project Number:

SPILL 2

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: P-16' (H202526-01)

BTEX 8021B	mg/kg		Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	25.4	5.00	10/17/2012	ND	2.09	105	2.00	6.28	
Toluene*	139	5.00	10/17/2012	ND	1.90	95.0	2.00	6.87	
Ethylbenzene*	258	5.00	10/17/2012	ND	1.88	93.9	2.00	7.09	
Total Xylenes*	163	15.0	10/17/2012	ND	5.49	91.4	6.00	7.03	
Surrogate: 4-Bromofluorobenzene (PIL	118	% 89 4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AP				.,,		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	10/17/2012	ND	400	100	400	0.00	
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	11200	200	10/16/2012	ND	190	95.2	200	0.948	
DRO >C10-C28	24000	200	10/16/2012	ND	190	95.1	200	9.90	
Surrogate: 1-Chlorooctane	362	% 65 2-14	o						
Surrogate. 1-Chlorooctadecane	260	% 63 6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



Yates Energy Petroleum Corp LUPE CARRASCO 105 S 4th Street Artesia NM, 88210

Fax To: (505) 748-4635

Received: Reported: 10/16/2012 10/17/2012

10

Project Name: Project Number: CREEK AL FEDERAL #12

SPILL 2

Project Location:

NOT GIVEN

Sampling Date:

10/16/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: P-18' (H202526-02)

BTEX 8021B	mg/kg		Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	91.9	5.00	10/17/2012	ND	2.09	105	2.00	6.28	
Toluene*	236	5.00	10/17/2012	ND	1.90	95.0	2.00	6.87	
Ethylbenzene*	309	5.00	10/17/2012	ND	1.88	93.9	2.00	7.09	
Total Xylenes*	184	15.0	10/17/2012	ND	5.49	91.4	6.00	7.03	
Surrogate: 4-Bromofluorobenzene (PIL	113	% 89 4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	10/17/2012	ND	400	100	400	0.00	
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	14400	200	10/16/2012	ND	190	95.2	200	0.948	
DRO >C10-C28	19600	200	10/16/2012	ND	190	95.1	200	9.90	
Surrogate. 1-Chlorooctane	318	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	230	% 63 6-15	4						

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Celey D. Keine



Yates Energy Petroleum Corp LUPE CARRASCO 105 S 4th Street Artesia NM, 88210

(505) 748-4635 Fax To:

Received:

10/16/2012

Sampling Date:

10/16/2012

Reported:

Soil

10/17/2012

Sampling Type:

Project Name:

CREEK AL FEDERAL #12

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number: Project Location:

SPILL 2 NOT GIVEN

Sample ID: P-20' (H202526-03)

BTEX 8021B	mg/kg		Analyze	d By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	22.2	1.00	10/17/2012	ND	2.09	105	2.00	6.28	
Toluene*	67.2	1.00	10/17/2012	ND	1.90	95.0	2.00	6.87	
Ethylbenzene*	91.0	1.00	10/17/2012	ND	1.88	93.9	2.00	7.09	
Total Xylenes*	56.9	3.00	10/17/2012	ND	5.49	91.4	6.00	7.03	
Surrogate. 4-Bromofluorobenzene (PIE	128	% 89.4-12	6						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	10/17/2012	ND	400	100	400	0.00	
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	3470	50.0	10/16/2012	ND	190	95.2	200	0.948	
DRO >C10-C28	5020	50.0	10/16/2012	ND	190	95.1	200	9.90	
Surrogate: I-Chlorooctane	214 9	65.2-14	0						
Surrogate 1-Chlorooctadecane	146	% 63.6-15	4						

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Celey & Keine



Yates Energy Petroleum Corp **LUPE CARRASCO** 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

10/16/2012

Sampling Date:

10/16/2012

Reported:

10/17/2012

Sampling Type:

Soil

Project Name:

CREEK AL FEDERAL #12

Sampling Condition: Sample Received By:

Cool & Intact Jodi Henson

Project Number:

SPILL 2

Project Location: NOT GIVEN

Sample ID: P-22' (H202526-04)

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	10/17/2012	ND	2.09	105	2.00	6.28	
Toluene*	0.137	0.050	10/17/2012	ND	1.90	95.0	2.00	6.87	
Ethylbenzene*	0.168	0.050	10/17/2012	ND	1.88	93.9	2.00	7.09	
Total Xylenes*	0.164	0.150	10/17/2012	ND	5.49	91.4	6.00	7.03	
Surrogate: 4-Bromofluorobenzene (PIL	104 9	% 89.4-12	6				, , , , , , , , , , , , , , , , , , , ,		
Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	10/17/2012	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	10/17/2012	ND	190	95.2	200	0.948	
DRO >C10-C28	<10.0	10.0	10/17/2012	ND	190	95.1	200	9.90	•
Surrogate 1-Chlorooctane	89 1	% 65.2-14	0						
Surrogate 1-Chlorooctadecane	863	% 63.6-15	4						

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Celeg D. Keine



Yates Energy Petroleum Corp LUPE CARRASCO 105 S 4th Street Artesia NM, 88210

Fax To: (505) 748-4635

Received:

10/16/2012

10/17/2012

Reported: Project Name:

CREEK AL FEDERAL #12

Project Number:

SPILL 2

Project Location:

NOT GIVEN

Sampling Date:

Date:

10/16/2012 Soil

Sampling Type: Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: P-24' (H202526-05)

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	10/17/2012	ND	2.09	105	2.00	6.28	
Toluene*	0.115	0.050	10/17/2012	ND	1.90	95.0	2.00	6.87	
Ethylbenzene*	0.304	0.050	10/17/2012	ND	1.88	93.9	2.00	7.09	
Total Xylenes*	0.254	0.150	10/17/2012	ND	5.49	91.4	6.00	7.03	
Surrogate: 4-Bromofluorobenzene (PIL	109 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	10/17/2012	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/17/2012	ND	190	95.2	200	0.948	
DRO >C10-C28	24.9	10.0	10/17/2012	ND	190	95.1	200	9.90	
Surrogate 1-Chlorooctane	88 6 9	% 65 2-14	0						
Surrogate. 1-Chlorooctadecane	88.9	% 63 6-15	4						

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Celey D. Keene



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.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keine



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

(505) 393-2326 FAX (505) 393-2476

Sampler Signature: e-mail: lcarrasco@yatespetroleum.com Analyze For: TCLP TOTAL TOTAL	711
City/State/Zip: Artesla, NM 88210 P0 #: 103-163	
Telephone No: 575-748-4350 Sampler Signature: e-mail: lcarrasco@yatespetroleum.com Analyze For: TCLP TOTAL Preservation & # of Containers Matrix Preservation & # of Containers Matrix	
Sampler Signature: e-mail: lcarrasco@yatespetroleum.com Analyze For: TCLP TOTAL TOTAL Preservation & # of Containers Matrix Preservation & # of Containers Matrix	
Analyze For: TCLP TOTAL TOTAL Preservation & # of Containers Matrix Preservation & # of Containers Matrix	NPDES
ab use only) DRDER #: H202526 Preservation & # of Containers Matrix	
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	I TAT pre-Schedule) 24, ard TAT
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4 2 22 20 20 10/10/11 2	à
5 P-34 25 25 25 25 25 2 2 2 2 2 2 2 2 2 2 2 2	
	
	
Special Instructions: Laboratory Comments:	
Sample Containers Intact? VOCs Free of Headspace?	DE N
Retinquished by: Date Time Received by: Date Time Labels on container(s) Custody seals on container(s) Custody seals on cooler(s) Custody seal	2222
Relinquished by: Date Time Received by ELOT: Date Time	Ex Lone Star