



 Release Area
  S1 Sample Location

Analytical Report- H400297 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
S1-1'	Release Area	3/4/2014	Hand Auger	1'	<0.3	<10.0	<10.0	N/A
S1-2'	Release Area	3/4/2014	Hand Auger	2'	<0.3	<10.0	<10.0	N/A
S1-3'	Release Area	3/4/2014	Hand Auger	3'	<0.3	<10.0	<10.0	N/A

Site Ranking is Zero (0). DTGW >100' (approx 175', Section 13, T18S-R29E, Trend Map)

All results are ppm, Chlorides for documentation.

Released: 15 B/O Recovered: 10 B/O Release Date: 2/19/2014

March 13, 2014

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: GRATEFUL BOD FEDERAL COM. #1-H

Enclosed are the results of analyses for samples received by the laboratory on 03/05/14 14:05.

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:

 YATES PETROLEUM CORPORATION
 CHASE SETTLE
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

Received:	03/05/2014	Sampling Date:	03/04/2014
Reported:	03/13/2014	Sampling Type:	Soil
Project Name:	GRATEFUL BOD FEDERAL COM. #1-H	Sampling Condition:	Cool & Intact
Project Number:	205750	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S1-1' (H400679-01)

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2014	ND	0.428	107	0.400	3.69	
Toluene*	<0.050	0.050	03/12/2014	ND	0.419	105	0.400	1.43	
Ethylbenzene*	<0.050	0.050	03/12/2014	ND	0.430	108	0.400	5.19	
Total Xylenes*	<0.150	0.150	03/12/2014	ND	1.25	104	1.20	1.84	
Total BTX	<0.300	0.300	03/12/2014	ND					

Surrogate: Dibromofluoromethane 96.2 % 61.3-142

Surrogate: Toluene-d8 103 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

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	03/10/2014	ND	197	98.5	200	3.69		
DRO >C10-C28	<10.0	10.0	03/10/2014	ND	190	95.1	200	5.51		

Surrogate: 1-Chlorooctane 86.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 85.6 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 YATES PETROLEUM CORPORATION
 CHASE SETTLE
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

Received:	03/05/2014	Sampling Date:	03/04/2014
Reported:	03/13/2014	Sampling Type:	Soil
Project Name:	GRATEFUL BOD FEDERAL COM. #1-H	Sampling Condition:	Cool & Intact
Project Number:	205750	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S1-2' (H400679-02)

BTX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/12/2014	ND	0.428	107	0.400	3.69	
Toluene*	<0.050	0.050	03/12/2014	ND	0.419	105	0.400	1.43	
Ethylbenzene*	<0.050	0.050	03/12/2014	ND	0.430	108	0.400	5.19	
Total Xylenes*	<0.150	0.150	03/12/2014	ND	1.25	104	1.20	1.84	
Total BTEX	<0.300	0.300	03/12/2014	ND					

Surrogate: Dibromofluoromethane 98.0 % 61.3-142

Surrogate: Toluene-d8 104 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

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	03/10/2014	ND	197	98.5	200	3.69		
DRO >C10-C28	<10.0	10.0	03/10/2014	ND	190	95.1	200	5.51		

Surrogate: 1-Chlorooctane 88.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.4 % 63.6-154

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Received:	03/05/2014	Sampling Date:	03/04/2014
Reported:	03/13/2014	Sampling Type:	Soil
Project Name:	GRATEFUL BOD FEDERAL COM. #1-H	Sampling Condition:	Cool & Intact
Project Number:	205750	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S1-3' (H400679-03)

BTX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/12/2014	ND	0.428	107	0.400	3.69		
Toluene*	<0.050	0.050	03/12/2014	ND	0.419	105	0.400	1.43		
Ethylbenzene*	<0.050	0.050	03/12/2014	ND	0.430	108	0.400	5.19		
Total Xylenes*	<0.150	0.150	03/12/2014	ND	1.25	104	1.20	1.84		
Total BTX	<0.300	0.300	03/12/2014	ND						

Surrogate: Dibromofluoromethane	94.2 %	61.3-142
Surrogate: Toluene-d8	105 %	71.3-129
Surrogate: 4-Bromofluorobenzene	105 %	65.7-141

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	03/10/2014	ND	207	103	200	1.16	
DRO >C10-C28	<10.0	10.0	03/10/2014	ND	198	98.9	200	2.67	
Surrogate: 1-Chlorooctane	90.5 %	65.2-140							
Surrogate: 1-Chlorooctadecane	93.0 %	63.6-154							

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Chase Settle

Project Name: Grateful BOD Federal Com #1

Company (505) 393-2326 Yates Petroleum Corporation

Project Loc: Grateful BOD Federal Com #1-H

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

PO #: 205750

Telephone No: 575-748-4171

Fax No: 575-748-4131

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature:

e-mail: csettle@yatespetroleum.com

(lab use only)

ORDER #: H4000679

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	S1-1'			3/4/2014	4:15 PM		1	X								S	X														X
2	S1-2'			3/4/2014	4:15 PM		1	X								S	X														X
3	S1-3'			3/4/2014	4:15 PM		1	X								S	X														X

Special Instructions:

Relinquished by:

Date

Time

Received by:

Received by ELDT:

Date

Time

Laboratory Comments:

Temperature Upon Receipt: 4.2 °C

Relinquished by:

Date

Time

Received by:

Received by ELDT:

Date

Time

Laboratory Comments:

Temperature Upon Receipt: 4.2 °C

Relinquished by:

Date

Time

Received by:

Received by ELDT:

Date

Time

Laboratory Comments:

Temperature Upon Receipt: 4.2 °C