# Stock Pile Sampling

Analytical Report H201734	Sample Date	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
SP1 1	7/26/2012	2'	ND	ND	49.5	49.5	-
SP1 2	7/26/2012	2'	ND	ND	11.4	11.4	-
SP2 1	7/26/2012	2'	.401	14.8	320	334.8	-
SP2 2	7/26/2012	2'	ND	ND	143	143	-
SP3 1	7/26/2012	2'	ND	ND	ND	ND	-
SP4 1	7/26/2012	2'	ND	ND	46.8	46.8	-
SP5 1	7/26/2012	2'	ND	ND	29.7	29.7	-
SP6 1	7/26/2012	2'	2.518	48.3	664	712.3	-

Site Ranking is Ten (10). Depth to Ground Water <100' (approx. 95', per NMOSE).

All results are ppm.Chlorides for documentation.

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Released: 53 B/O; Recovered: 0 B/O. Release Date: 5/29/2012



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

August 02, 2012	i
August 02, 2012	
JEREMY HAASS	I
Yates Energy Petroleum Corp	
105 S 4th Street	1
Artesia, NM 88210	1
	!
RE: BOYD X	•

Enclosed are the results of analyses for samples received by the laboratory on 07/26/12 15:00.

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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> 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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



Yates Energy Petroleum Corp JEREMY HAASS 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	07/26/2012
Reported:	08/02/2012
Project Name:	BOYD X
Project Number:	NONE GIVEN
Project Location:	NOT GIVEN

Sampling Date:	07/26/2012
Sampling Type:	Soil
Sampling Condition:	Cool & Intact
Sample Received By:	Jodi Henson

# Sample ID: SP1 - 1 (H201734-01)

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	08/01/2012	ND	1.78	89.2	2.00	6.39	
Toluene*	<0.050	0.050	08/01/2012	ND	1.85	92.7	2.00	5.31	
Ethylbenzene*	<0.050	0.050	08/01/2012	ND	1.87	93.6	2.00	5.09	
Total Xylenes*	<0.150	0.150	08/01/2012	ND	5.64	94.0	6.00	4.41	
Surrogate: 4-Bromofluorobenzene (PIL	98.4	% 89.4-126							
TPH 8015M	mg/	/kg	Analyzed By: MS						
Δηρίντο	Result	Reporting Limit	Analyzed	Method Blank	RS	% Recovery	True Value OC	RPD	Qualifier

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/27/2012	ND	188	93.8	200	6.58	
DRO >C10-C28	49.5	10.0	07/27/2012	ND	204	102	200	8.91	

Surrogate: 1-Chlorooctane 94.3 %

Surrogate: 1-Chlorooctadecane

94.3 % 65.2-140 108 % 63.6-154

#### Cardinal Laboratories

#### \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Yates Energy Petroleum Corp JEREMY HAASS 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	07/26/2012
Reported:	08/02/2012
Project Name:	BOYD X
Project Number:	NONE GIVEN
Project Location:	NOT GIVEN

Sampling Date:	07/26/2012
Sampling Type:	Soil
Sampling Condition:	Cool & Intact
Sample Received By:	Jodi Henson

#### Sample ID: SP1 - 2 (H201734-02)

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	08/01/2012	ND	1.78	89.2	2.00	6.39	
Toluene*	< 0.050	0.050	08/01/2012	ND	1.85	92.7	2.00	5.31	
Ethylbenzene*	<0.050	0.050	08/01/2012	ND	1.87	93.6	2.00	5.09	
Total Xylenes*	<0,150	0.150	08/01/2012	ND	5.64	94.0	6.00	4.41	
Surrogate: 4-Bromofluorobenzene (PIL	100	% 89.4-12	6						
трн 8015м	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	07/27/2012	ND	188	93.8	200	6.58	
DRO >C10-C28	11.4	10.0	07/27/2012	ND	204	102	200	8.91	
Surrogate: 1-Chlorooctane	93.6	% 65.2-14	0				- 0		
Surrogate: 1-Chlorooctadecane	104	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



Yates Energy Petroleum Corp JEREMY HAASS 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	07/26/2012		Sampling Date:	07/26/2012
Reported:	08/02/2012	I	Sampling Type:	Soil
Project Name:	BOYD X		Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	I	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN			

# Sample ID: SP2 - 1 (H201734-03)

BTEX 8021B	mg/l	٨g	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2012	ND	1.78	89.2	2.00	6.39	
Toluene*	0.094	0.050	08/01/2012	ND	1.85	92.7	2.00	5.31	
Ethylbenzene*	0.107	0.050	08/01/2012	ND	1.87	93.6	2.00	5.09	
Total Xylenes*	0.200	0.150	08/01/2012	ND	5.64	94.0	6.00	4.41	
Surrogate: 4-Bromofluorobenzene (PIL	117 %	5 89.4-12	6						
TPH 8015M	mg/l	<g< td=""><td>Analyze</td><td>d By: MS</td><td></td><td>;</td><td></td><td></td><td></td></g<>	Analyze	d By: MS		;			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	14.8	10.0	07/27/2012	ND	188	93.8	200	6.58	
DRO >C10-C28	320	10.0	07/27/2012	ND	204	102	200	8.91	
Surrogate: 1-Chlorooctane	99.3 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	115 %	63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



Yates Energy Petroleum Corp JEREMY HAASS 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	07/26/2012
Reported:	08/02/2012
Project Name:	BOYD X
Project Number:	NONE GIVEN
Project Location:	NOT GIVEN

# Sampling Date:07/26/2012Sampling Type:SoilSampling Condition:Cool & IntactSample Received By:Jodi Henson

# Sample ID: SP2 - 2 (H201734-04)

BTEX 8021B	mg/kg		Analyzed By: AP				<u>.</u> .		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2012	ND	1.78	89.2	2.00	6.39	
Toluene*	<0.050	0.050	08/01/2012	ND	1.85	92.7	2.00	5.31	
Ethylbenzene*	<0.050	0.050	08/01/2012	ND	1.87	93.6	2.00	5.09	
Total Xylenes*	<0.150	0.150	08/01/2012	ND	5.64	94.0	6.00	4.41	
Surrogate: 4-Bromofluorobenzene (PIL	103 9	% 89.4-12	6						
ТРН 8015М	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	07/27/2012	ND	188	93.8	200	6.58	
DRO >C10-C28	143	10.0	07/27/2012	ND	204	102	200	8.91	
Surrogate: 1-Chlorooctane	94.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	107 9	63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager



Yates Energy Petroleum Corp JEREMY HAASS 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	07/26/2012
Reported:	08/02/2012
Project Name:	BOYD X
Project Number:	NONE GIVEN
Project Location:	NOT GIVEN

Sampling Date: 07/26/2012 Sampling Type: Soil Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

# Sample ID: SP3 - 1 (H201734-05)

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	08/01/2012	ND	1.78	89.2	2.00	6.39	
Toluene*	<0.050	0.050	08/01/2012	ND	1.85	92.7	2.00	5.31	
Ethylbenzene*	<0.050	0.050	08/01/2012	ND	1.87	93.6	2.00	5.09	
Total Xylenes*	<0.150	0.150	08/01/2012	ND	5.64	94.0	6.00	4.41	
Surrogate: 4-Bromofluorobenzene (PIL	99.5	% 89.4-12	6						
ТРН 8015М	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	07/27/2012	ND	188	93.8	200	6.58	

ND

204

102

200

8.91

07/27/2012

65.2-140 Surrogate: 1-Chlorooctane 88.8 %

<10.0

99.8 %

63.6-154

10.0

Cardinal Laboratories

DRO >C10-C28

Surrogate: 1-Chlorooctadecane

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Celey D. Keene, Lab Director/Quality Manager



Yates Energy Petroleum Corp JEREMY HAASS 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	07/26/2012	Sampling Date:	07/26/2012
Reported:	08/02/2012	Sampling Type:	Soil
Project Name:	BOYD X	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: SP4 - 1 (H201734-06)

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	08/01/2012	ND	1.78	89.2	2.00	6.39	
Toluene*	<0.050	0.050	08/01/2012	ND	1,85	92.7	2.00	5.31	
Ethylbenzene*	<0.050	0.050	08/01/2012	ND	1.87	93.6	2.00	5.09	
Total Xylenes*	<0.150	0.150	08/01/2012	ND	5.64	94.0	6.00	4.41	
Surrogate: 4-Bromofluorobenzene (PIL	98.9	% 89.4-12	6						
ТРН 8015М	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	07/30/2012	ND	183	91.6	200	0.268	
DRO >C10-C28	46.8	10.0	07/30/2012	ND	208	104	200	7.17	
Surrogate: 1-Chlorooctane	90.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	101	63.6-15	4						
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#### \*=Accredited Analyte

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Celey Di Keine

Celey D. Keene, Lab Director/Quality Manager



Yates Energy Petroleum Corp JEREMY HAASS 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	07/26/2012
Reported:	08/02/2012
Project Name:	BOYD X
Project Number:	NONE GIVEN
Project Location:	NOT GIVEN

Sampling Date:	07/26/2012
Sampling Type:	Soil
Sampling Condition:	Cool & Intact
Sample Received By:	Jodi Henson

# Sample ID: SP5 - 1 (H201734-07)

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	08/01/2012	ND	1.78	89.2	2.00	6.39	
Toluene*	<0.050	0.050	08/01/2012	ND	1.85	92.7	2,00	5.31	
Ethylbenzene*	<0.050	0.050	08/01/2012	ND	1.87	93.6	2.00	5.09	
Total Xylenes*	<0.150	0.150	08/01/2012	ND	5.64	94.0	6.00	4.41	
Surrogate: 4-Bromofluorobenzene (PIL	98.8 9	89.4-12	б						
ТРН 8015М	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	07/30/2012	ND	183	91.6	200	0.268	
DRO >C10-C28	29.7	10.0	07/30/2012	ND	208	104	200	7.17	
Surrogate: 1-Chlorooctane	94.1 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	108 9	63.6-15	4						
		1							

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Celey Di Keine

Celey D. Keene, Lab Director/Quality Manager



Yates Energy Petroleum Corp JEREMY HAASS 105 S 4th Street Artesia NM, 88210 Fax To: (505) 748-4635

Received:	07/26/2012	Sampling Date:	07/26/2012
Reported:	08/02/2012	Sampling Type:	Soil
Project Name:	BOYD X	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

#### Sample ID: SP6 - 1 (H201734-08)

BTEX 8021B	mg/kg		Analyzed By: AP					S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/01/2012	ND	1.78	89.2	2.00	6.39		
Toluene*	0.199	0.050	08/01/2012	ND	1.85	92.7	2.00	5.31		
Ethylbenzene*	0.199	0.050	08/01/2012	ND	1.87	93.6	2.00	5.09		
Total Xylenes*	2.12	0.150	08/01/2012	ND	5.64	94.0	6.00	4.41		
Surrogate: 4-Bromofluorobenzene (PIL	131									
ТРН 8015М	mg	/kg	Analyze	d By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	48.3	10.0	07/30/2012	ND	183	91.6	200	0.268		
DRO >C10-C28	664	10.0	07/30/2012	ND	208	104	200	7.17		
Surrogate: 1-Chlorooctane	99.6	% 65.2-14	10							
Surrogate: 1-Chlorooctadecane	111	63.6-1	54							
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Celez Di Keine

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
	:

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Celey Di Kune

Celey D. Keene, Lab Director/Quality Manager



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

#### 101 East Marland, Hobbs, NM 88240

	(575) 393-2326 FAX (575) 393-24																							
Company Name: 445 Petroleum Corporation							BILL TO					ANALYSIS REQUEST												
Project Manager: Terenny 116:055								P.O. #:									<u> </u>	[						
Address: $105^{\circ}$ Sature $47^{\circ}$ Sr.								Company: KArs																ĺ
City: Artogen State: MM Zip: 53210								Attn:																
Phone #: 575-748-1471 Fax #:								Address:																
Project #: Project Owner:							Cíty:																	
Project Namo: Boyd X							State: Zip:						Ś	<b>1</b>										
Project Location	n						Ph	one #	<b>#</b> :															
								Fax#:						1494						_				L
FOR LAB USE ONLY		TT			MATI	RIX		PRES	SERV.	SAM	PLIN	IG	R	Ū,	3					-				
Lab I.D. <u>H7D1734</u> 1	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER	SOIL	OIL. SLUDGE	OTHER :	ACID/BASE:	NUE / UUUL OTHER :	DAT	E	TIME	Hold -	A. J. L.S.										
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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

