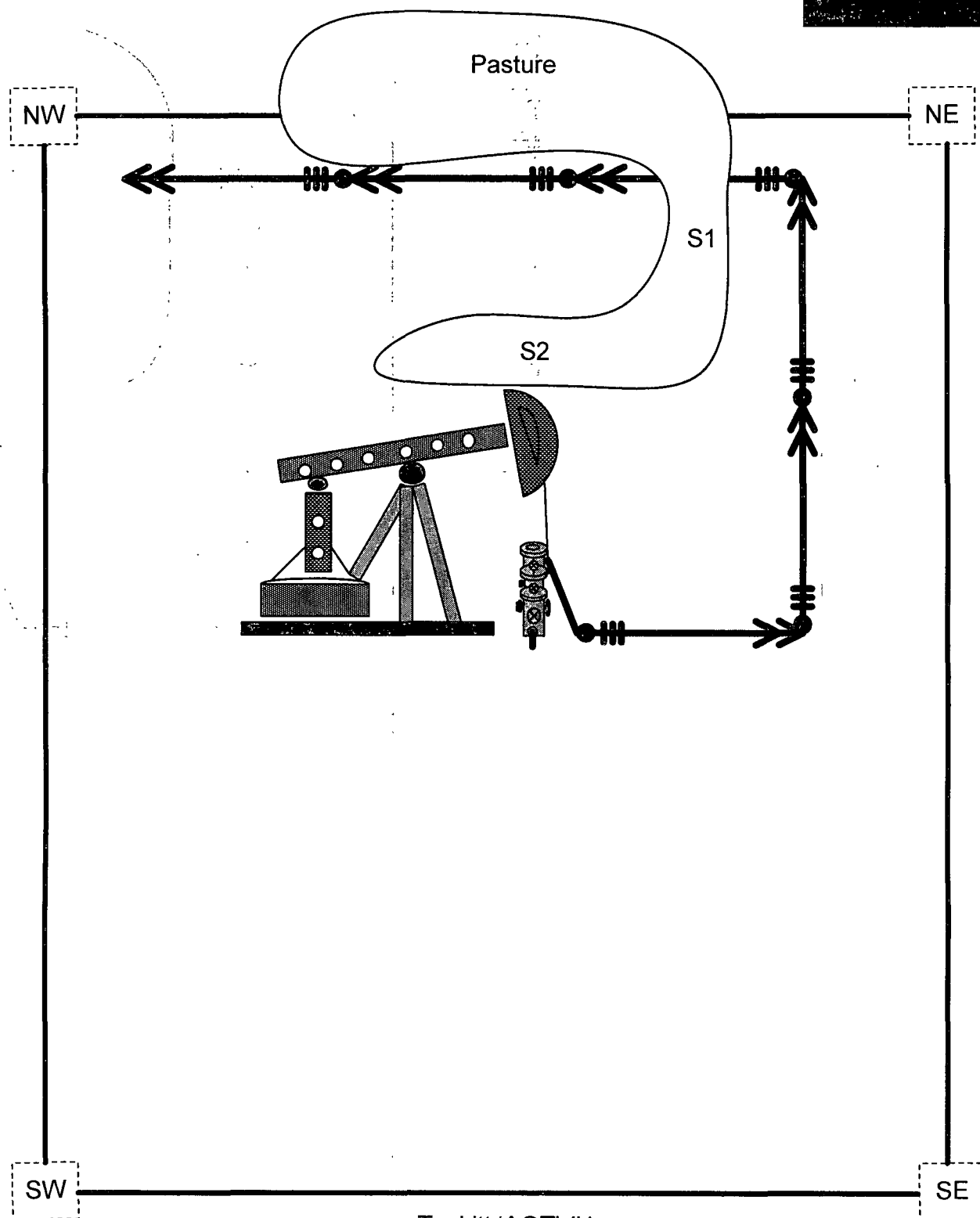


# YATES PETROLEUM CORPORATION

Tuesday, May 15, 2012



Tackitt 'AOT' #1  
API # 30-015-28150  
Eddy, NM

Analytical Report H201014	Sample Date	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
S1 2'	5/2/2012	2'	ND	ND	ND	ND	544
S1 4'	5/2/2012	4'	ND	ND	ND	ND	384
S2 2'	5/2/2012	2'	ND	ND	ND	ND	80
S2 4'	5/2/2012	4'	ND	ND	13.7	13.7	208
PASTURE 2'	5/2/2012	2'	ND	ND	ND	ND	352
PASTURE 4'	5/2/2012	4'	ND	ND	ND	ND	688

**Site Ranking is Zero (0).** Depth to Ground Water >100' (approx. 125', per Trend Map).

All results are ppm.Chlorides for documentation.

Released: 3 B/PW & 7 B/O; Recovered: 2 B/PW & 3 B/O. Release Date: 4/17/2012

May 10, 2012

JEREMY HAASS

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: TACKITT 'AOT' #1

Enclosed are the results of analyses for samples received by the laboratory on 05/03/12 11:20.

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](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

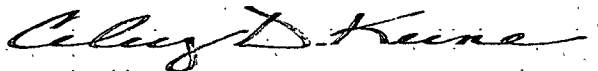
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

 Received: 05/03/2012  
 Reported: 05/10/2012  
 Project Name: TACKITT 'AOT' #1  
 Project Number: 30-015-28150  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/02/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S 1 2' (H201014-01)**

BTX 8260B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2012	ND	2.24	112	2.00	3.94	
Toluene*	<0.050	0.050	05/09/2012	ND	2.09	104	2.00	5.50	
Ethylbenzene*	<0.050	0.050	05/09/2012	ND	1.96	97.8	2.00	5.95	
Total Xylenes*	<0.150	0.150	05/09/2012	ND	6.29	105	6.00	5.94	

Surrogate Dibromofluoromethane 88.3 % 61.3-142

Surrogate Toluene-d8 95.8 % 71.3-129

Surrogate: 4-Bromofluorobenzene 86.1 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	05/07/2012	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	05/09/2012	ND	183	91.3	200	5.05	
DRO >C10-C28	<10.0	10.0	05/09/2012	ND	173	86.7	200	3.21	

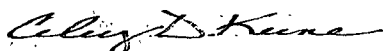
Surrogate 1-Chlorooctane 86.1 % 55.5-154

Surrogate 1-Chlorooctadecane 90.9 % 57.6-158

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 05/03/2012  
 Reported: 05/10/2012  
 Project Name: TACKITT 'AOT' #1  
 Project Number: 30-015-28150  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/02/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S 1 4' (H201014-02)**
**BTX 8260B**

mg/kg

Analyzed By: CMS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2012	ND	2.24	112	2.00	3.94	
Toluene*	<0.050	0.050	05/09/2012	ND	2.09	104	2.00	5.50	
Ethylbenzene*	<0.050	0.050	05/09/2012	ND	1.96	97.8	2.00	5.95	
Total Xylenes*	<0.150	0.150	05/09/2012	ND	6.29	105	6.00	5.94	

Surrogate Dibromofluoromethane 87.1 % 61.3-142

Surrogate Toluene-d8 94.5 % 71.3-129

Surrogate 4-Bromofluorobenzene 86.4 % 65.7-141

**Chloride, SM4500Cl-B**

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>384</b>	16.0	05/07/2012	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	05/09/2012	ND	183	91.3	200	5.05	
DRO >C10-C28	<10.0	10.0	05/09/2012	ND	173	86.7	200	3.21	

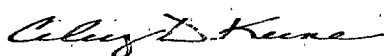
Surrogate 1-Chlorooctane 91.4 % 55.5-154

Surrogate 1-Chlorooctadecane 109 % 57.6-158

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 05/03/2012  
Reported: 05/10/2012  
Project Name: TACKITT 'AOT' #1  
Project Number: 30-015-28150  
Project Location: EDDY COUNTY, NM

Sampling Date: 05/02/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S 2 2' (H201014-03)**

BTEX 8260B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2012	ND	2.24	112	2.00	3.94	
Toluene*	<0.050	0.050	05/09/2012	ND	2.09	104	2.00	5.50	
Ethylbenzene*	<0.050	0.050	05/09/2012	ND	1.96	97.8	2.00	5.95	
Total Xylenes*	<0.150	0.150	05/09/2012	ND	6.29	105	6.00	5.94	

Surrogate: Dibromofluoromethane 87.6 % 61.3-142

Surrogate: Toluene-d8 96.2 % 71.3-129

Surrogate: 4-Bromofluorobenzene 87.6 % 65.7-141

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	05/07/2012	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	05/09/2012	ND	183	91.3	200	5.05	
DRO >C10-C28	<10.0	10.0	05/09/2012	ND	173	86.7	200	3.21	

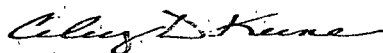
Surrogate: 1-Chlorooctane 89.3 % 55.5-154

Surrogate: 1-Chlorooctadecane 88.2 % 57.6-158

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 05/03/2012  
Reported: 05/10/2012  
Project Name: TACKITT 'AOT' #1  
Project Number: 30-015-28150  
Project Location: EDDY COUNTY, NM

Sampling Date: 05/02/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S 2 4' (H201014-04)**

BTX 8260B			mg/kg		Analyzed By: CMS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2012	ND	2.24	112	2.00	3.94	
Toluene*	<0.050	0.050	05/09/2012	ND	2.09	104	2.00	5.50	
Ethylbenzene*	<0.050	0.050	05/09/2012	ND	1.96	97.8	2.00	5.95	
Total Xylenes*	<0.150	0.150	05/09/2012	ND	6.29	105	6.00	5.94	

Surrogate: Dibromofluoromethane 86.9 % 61.3-142

Surrogate: Toluene-d8 96.1 % 71.3-129

Surrogate: 4-Bromofluorobenzene 86.1 % 65.7-141

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/07/2012	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	05/09/2012	ND	183	91.3	200	5.05	
DRO >C10-C28	13.7	10.0	05/09/2012	ND	173	86.7	200	3.21	

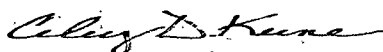
Surrogate: 1-Chlorooctane 93.8 % 55.5-154

Surrogate: 1-Chlorooctadecane 104 % 57.6-158

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 05/03/2012  
 Reported: 05/10/2012  
 Project Name: TACKITT 'AOT' #1  
 Project Number: 30-015-28150  
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/02/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: PASTURE 2' (H201014-05)**

BTX 8260B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2012	ND	2.24	112	2.00	3.94	
Toluene*	<0.050	0.050	05/09/2012	ND	2.09	104	2.00	5.50	
Ethylbenzene*	<0.050	0.050	05/09/2012	ND	1.96	97.8	2.00	5.95	
Total Xylenes*	<0.150	0.150	05/09/2012	ND	6.29	105	6.00	5.94	

Surrogate Dibromofluoromethane 86.5 % 61.3-142

Surrogate Toluene-d8 99.1 % 71.3-129

Surrogate 4-Bromofluorobenzene 87.6 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	05/07/2012	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	05/09/2012	ND	183	91.3	200	5.05	
DRO >C10-C28	<10.0	10.0	05/09/2012	ND	173	86.7	200	3.21	


Surrogate 1-Chlorooctane 100 % 55.5-154

Surrogate 1-Chlorooctadecane 116 % 57.6-158

**Cardinal Laboratories**

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received: 05/03/2012  
Reported: 05/10/2012  
Project Name: TACKITT 'AOT' #1  
Project Number: 30-015-28150  
Project Location: EDDY COUNTY, NM

Sampling Date: 05/02/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: PASTURE 4' (H201014-06)**

BTEx 8260B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2012	ND	2.24	112	2.00	3.94	
Toluene*	<0.050	0.050	05/09/2012	ND	2.09	104	2.00	5.50	
Ethylbenzene*	<0.050	0.050	05/09/2012	ND	1.96	97.8	2.00	5.95	
Total Xylenes*	<0.150	0.150	05/09/2012	ND	6.29	105	6.00	5.94	

Surrogate Dibromofluoromethane 85.3 % 61.3-142

Surrogate: Toluene-d8 95.4 % 71.3-129

Surrogate 4-Bromofluorobenzene 84.4 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	05/07/2012	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	05/09/2012	ND	183	91.3	200	5.05	
DRO >C10-C28	<10.0	10.0	05/09/2012	ND	173	86.7	200	3.21	

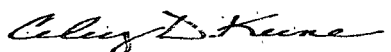
Surrogate: 1-Chlorooctane 101 % 55.5-154

Surrogate 1-Chlorooctadecane 96.7 % 57.6-158

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

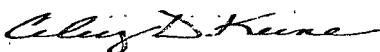
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

---

**Cardinal Laboratories**

\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

**ARDINAL LABORATORIES**  
101 East Marland, Hobbs, NM 88240

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

Project Manager: Jeremy Haass

Project Name: Tackitt 'AOT' #1

Comp: (505) 393-2326 Yates Petroleum Corporation

Project #: 30-015-28150

Company Address: 105 South 4th Street

Project Loc: Eddy

City/State/Zip: Artesia, NM 88210

PO #: 103-2636

Telephone No: 575-748-4311

Fax No: \_\_\_\_\_

Report Format: ☒ Standard

☐ TRRP

☐ NPDES

Sampler Signature: \_\_\_\_\_

e-mail: jhaass@yatespetroleum.com

(lab use only)

ORDER #: H201014

LAB # (lab use only)		FIELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers								Matrix			Analyze For:															RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT		
										Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	TPH: 418.1 8015M	TPH: TX 1005	TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO <sub>4</sub> , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	PCB: 209.1 / 5030 or BTEX 8260	RCI	N.O.R.M	Chlorides	SAR					
1	S1.2'					5/2/2012			1	X									S		X									X									X
2	S1.4'					5/2/2012			1	X									S		X									X									X
3	S2.2'					5/2/2012			1	X									S		X									X									X
4	S2.4'					5/2/2012			1	X									S		X									X									X
5	Pasture 2'					5/2/2012			1	X									S		X									X									X
6	Pasture 4'					5/2/2012			1	X									S		X									X									X

Special Instructions:

Relinquished by: <u>[Signature]</u>	Date: <u>05/02/12</u>	Time: <u>3:12 PM</u>	Received by: <u>[Signature]</u>	Date: <u>05/03/12</u>	Time: <u>11:00 AM</u>
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____

Laboratory Comments:

Sample Containers Intact? Y N  
 VOCs Free of Headspace? Y N  
 Labels on container(s) Y N  
 Custody seals on container(s) Y N  
 Custody seals on cooler(s) Y N  
 Sample Hand Delivered Y N  
 by Sampler/Client Rep.? Y N  
 by Courier? UPS DHL FedEx Lone Star  
 Temperature Upon Receipt: 11.0 °C