

NW

NE

Sample Points



Sample Points



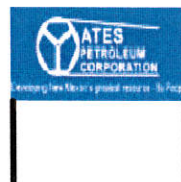
Sample Points



Release/Excavation Area

Yates Petroleum Corporation
Pathfinder AFT State #13; 30-005-62829;
Section 21, T10S-R27E; Chaves County, NM

NOT TO SCALE



SW

SE

Analytical Report-H403344 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
C01.0	Release Area	10/29/2014	Comp/Backhoe	1' (6' BSL)	<0.3	<10.0	<10.0	832
C02.0	Release Area	10/29/2014	Comp/Backhoe	2' (7' BSL)	<0.3	<10.0	<10.0	736
C03.0	Release Area	10/29/2014	Comp/Backhoe	3' (8' BSL)	<0.3	<10.0	<10.0	1580
Analytical Report-H403712 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
C04.0	Release Area	12/3/2014	Comp/Backhoe	4' (9' BSL)				1180
C05.0	Release Area	12/3/2014	Comp/Backhoe	5' (10' BSL)				1710
C06.0	Release Area	12/3/2014	Comp/Backhoe	6' (1' BSL)				1580
C07.0	Release Area	12/3/2014	Comp/Backhoe	7' (12' BSL)				1710
C08.0	Release Area	12/3/2014	Comp/Backhoe	8' (13' BSL)				1500
Analytical Report-H501502 (Cardinal)	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
C09.0	Background	6/4/2015	Comp/Backhoe	9' BSL				2320
C11.0	Background	6/4/2015	Comp/Backhoe	11' BSL				2600
C13.0	Background	6/4/2015	Comp/Backhoe	13' BSL				2520

Site Ranking is Ten (10). Depth to Ground Water 50-99' (approx. 75', per Trend Map).

All results are ppm.Chlorides for documentation.

Released: 285 B/PW; Recovered: 260 B/PW. Release Date: 7/29/2014



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

November 04, 2014

ROBERT ASHER

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: PATHFINDER AFT STATE #13

Enclosed are the results of analyses for samples received by the laboratory on 10/30/14 11:00.

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/qa/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
 ROBERT ASHER
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

 Received: 10/30/2014
 Reported: 11/04/2014
 Project Name: PATHFINDER AFT STATE #13
 Project Number: 30-005-62829
 Project Location: CHAVES COUNTY, NM

 Sampling Date: 10/29/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: CO1.0 (H403344-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	10/31/2014	ND	400	100	400	3.92	

Sample ID: CO2.0 (H403344-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	10/31/2014	ND	400	100	400	3.92	

Sample ID: CO3.0 (H403344-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	10/31/2014	ND	400	100	400	3.92	

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

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



November 04, 2014

ROBERT ASHER

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: PATHFINDER AFT STATE #13

Enclosed are the results of analyses for samples received by the laboratory on 10/30/14 11:00.

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/qa/lab_accred_certif.html.

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Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/30/2014	Sampling Date:	10/29/2014
Reported:	11/04/2014	Sampling Type:	Soil
Project Name:	PATHFINDER AFT STATE #13	Sampling Condition:	Cool & Intact
Project Number:	30-005-62829	Sample Received By:	Kathy Perez
Project Location:	CHAVES COUNTY, NM		

Sample ID: CO1.0 (H403344-01)

BTX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/31/2014	ND	2.02	101	2.00	12.4		
Toluene*	<0.050	0.050	10/31/2014	ND	1.92	96.2	2.00	12.9		
Ethylbenzene*	<0.050	0.050	10/31/2014	ND	1.81	90.7	2.00	12.2		
Total Xylenes*	<0.150	0.150	10/31/2014	ND	5.39	89.8	6.00	11.5		
Total BTX	<0.300	0.300	10/31/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 61-154

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	10/30/2014	ND	172	86.1	200	0.594		
DRO >C10-C28	<10.0	10.0	10/30/2014	ND	178	89.1	200	4.53		

Surrogate: 1-Chlorooctane 109 % 47.2-157

Surrogate: 1-Chlorooctadecane 154 % 52.1-176

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	10/30/2014	Sampling Date:	10/29/2014
Reported:	11/04/2014	Sampling Type:	Soil
Project Name:	PATHFINDER AFT STATE #13	Sampling Condition:	Cool & Intact
Project Number:	30-005-62829	Sample Received By:	Kathy Perez
Project Location:	CHAVES COUNTY, NM		

Sample ID: CO2.0 (H403344-02)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2014	ND	2.02	101	2.00	12.4	
Toluene*	<0.050	0.050	10/31/2014	ND	1.92	96.2	2.00	12.9	
Ethylbenzene*	<0.050	0.050	10/31/2014	ND	1.81	90.7	2.00	12.2	
Total Xylenes*	<0.150	0.150	10/31/2014	ND	5.39	89.8	6.00	11.5	
Total BTX	<0.300	0.300	10/31/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 61-154

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	10/30/2014	ND	172	86.1	200	0.594		
DRO >C10-C28	<10.0	10.0	10/30/2014	ND	178	89.1	200	4.53		

Surrogate: 1-Chlorooctane 109 % 47.2-157

Surrogate: 1-Chlorooctadecane 147 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 10/30/2014
Reported: 11/04/2014
Project Name: PATHFINDER AFT STATE #13
Project Number: 30-005-62829
Project Location: CHAVES COUNTY, NM

Sampling Date: 10/29/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: CO3.0 (H403344-03)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/31/2014	ND	2.02	101	2.00	12.4	
Toluene*	<0.050	0.050	10/31/2014	ND	1.92	96.2	2.00	12.9	
Ethylbenzene*	<0.050	0.050	10/31/2014	ND	1.81	90.7	2.00	12.2	
Total Xylenes*	<0.150	0.150	10/31/2014	ND	5.39	89.8	6.00	11.5	
Total BTEX	<0.300	0.300	10/31/2014	ND					

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Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/30/2014	ND	172	86.1	200	0.594	
DRO >C10-C28	<10.0	10.0	10/30/2014	ND	178	89.1	200	4.53	

Surrogate: 1-Chlorooctane 107 % 47.2-157

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Celey D. Keene, Lab Director/Quality Manager

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Celey D. Keene, Lab Director/Quality Manager

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Robert Asher

Name: (ENR) 202 2226 Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210Telephone No: 575-748-4217

Sampler Signature: 

Fax No.:

e-mail: boba@yatespetroleum.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

PO #: 205632

Project Loc: Chaves CountyProject #: 30-005-62829

Project Name: Pathfinder AFT State #13

[illegible]

December 08, 2014

ROBERT ASHER

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: PATHFINDER AFT STATE #13

Enclosed are the results of analyses for samples received by the laboratory on 12/05/14 11:08.

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.

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Method EPA 524.2	Total Trihalomethanes (TTHM)
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Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/05/2014
Reported: 12/08/2014
Project Name: PATHFINDER AFT STATE #13
Project Number: 30-005-62829
Project Location: CHAVES COUNTY, NM

Sampling Date: 12/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: CO4.0 (H403712-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	12/05/2014	ND	432	108	400	3.77	

Sample ID: CO5.0 (H403712-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1710	16.0	12/05/2014	ND	432	108	400	3.77	

Sample ID: CO6.0 (H403712-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	12/05/2014	ND	432	108	400	3.77	

Sample ID: CO7.0 (H403712-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1710	16.0	12/05/2014	ND	432	108	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 12/05/2014
Reported: 12/08/2014
Project Name: PATHFINDER AFT STATE #13
Project Number: 30-005-62829
Project Location: CHAVES COUNTY, NM

Sampling Date: 12/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: CO8.0 (H403712-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	12/05/2014	ND	432	108	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Celey D. Keene, Lab Director/Quality Manager



(lab use only)		ORDER #: 1403712	
LAB # (lab use only)		FIELD CODE	
C04.0		Beginning Depth	4'
C05.0		Ending Depth	4'
C06.0		Date Sampled	12/3/2014
C07.0		Time Sampled	10:30 AM
C08.0		Field Filtered	1
		Total # of Containers	1
		Ice	X
		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)	
		SAR / ESP / CEC	
		Metals: As Ag Ba Cd Cr Pb Hg Se	
		Volatiles	
		Semivolatiles	
		BTEX #021B/5030 or BTEX 8260	
		RCI	
		N O R M	
		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	
		Standard TAT	
Special Instructions: Chlorides only please. ALL results in mg/kg. Thank you.		Laboratory Comments:	
Reinquired by: 12/03/14 4:15 PM Received by: [Signature]		Sample Containers Intact? [X]	
Reinquired by: 12/03/14 4:15 PM Received by: [Signature]		VOCs Free of Headspace? [X]	
Reinquired by: 12/03/14 4:15 PM Received by: [Signature]		Labels on container(s) [X]	
Reinquired by: 12/03/14 4:15 PM Received by: [Signature]		Custody seals on container(s) [X]	
Reinquired by: 12/03/14 4:15 PM Received by: [Signature]		Custody seals on cooler(s) [X]	
Reinquired by: 12/03/14 4:15 PM Received by: [Signature]		Sample Hand Delivered [X]	
Reinquired by: 12/03/14 4:15 PM Received by: [Signature]		by Sampler/Client Rep. ? [X]	
Reinquired by: 12/03/14 4:15 PM Received by: [Signature]		UPS DHL FedEx Lone Star [X]	
Reinquired by: 12/03/14 4:15 PM Received by: [Signature]		Temperature Upon Receipt: 28 °C [X]	

June 15, 2015

ROBERT ASHER

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: PATHFINDER AFT STATE #13

Enclosed are the results of analyses for samples received by the laboratory on 06/10/15 14:35.

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/qa/lab_accred_certif.html.

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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
ROBERT ASHER
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received:	06/10/2015	Sampling Date:	06/04/2015
Reported:	06/15/2015	Sampling Type:	Soil
Project Name:	PATHFINDER AFT STATE #13	Sampling Condition:	Cool & Intact
Project Number:	30-005-62829	Sample Received By:	Jodi Henson
Project Location:	CHAVES COUNTY, NM		

Sample ID: C09.0 (H501502-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	06/12/2015	ND	432	108	400	3.77	

Sample ID: C11.0 (H501502-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	06/12/2015	ND	432	108	400	3.77	

Sample ID: C13.0 (H501502-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2520	16.0	06/12/2015	ND	432	108	400	3.77	

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Sample Information										Preservation & # of Containers										Matrix										Analyze For									
ORDER #: 4501502										TPH										TOTAL										RUSH TAT (Pre-Schedule) 24, 48, 72 hrs									
(lab use only)										TPH										TOTAL										Standard TAT									
LAB # (lab use only)										TPH										TOTAL										Standard TAT									
FIELD CODE										TPH										TOTAL										Standard TAT									
Beginning Depth										TPH										TOTAL										Standard TAT									
Ending Depth										TPH										TOTAL										Standard TAT									
Date Sampled										TPH										TOTAL										Standard TAT									
Time Sampled										TPH										TOTAL										Standard TAT									
Field Filtered										TPH										TOTAL										Standard TAT									
Total #. of Containers										TPH										TOTAL										Standard TAT									
Ice										TPH										TOTAL										Standard TAT									
HNO ₃										TPH										TOTAL										Standard TAT									
HCl										TPH										TOTAL										Standard TAT									
H ₂ SO ₄										TPH										TOTAL										Standard TAT									
NaOH										TPH										TOTAL										Standard TAT									
Na ₂ S ₂ O ₃										TPH										TOTAL										Standard TAT									
None										TPH										TOTAL										Standard TAT									
Other (Specify)										TPH										TOTAL										Standard TAT									
DW=Drinking Water SL=Sludge										TPH										TOTAL										Standard TAT									
GW = Groundwater S=Soil/Solid										TPH										TOTAL										Standard TAT									
NP=Non-Potable Specify Other										TPH										TOTAL										Standard TAT									
TPH 418.1 8015M 8015B										TPH										TOTAL										Standard TAT									
TPH TX 1005 TX 1006										TPH										TOTAL										Standard TAT									
Cations (Ca, Mg, Na, K)										TPH										TOTAL										Standard TAT									
Anions (Cl)										TPH										TOTAL										Standard TAT									
SAR / ESP / CEC										TPH										TOTAL										Standard TAT									
Metals: As Ag Ba Cd Cr Pb Hg Se										TPH										TOTAL										Standard TAT									
Volatiles										TPH										TOTAL										Standard TAT									
Semivolatiles										TPH										TOTAL										Standard TAT									
BTEx 8021B/5030 or BTEx 8260										TPH										TOTAL										Standard TAT									
RCI										TPH										TOTAL										Standard TAT									
N.O.R.M										TPH										TOTAL										Standard TAT									
RUSH TAT (Pre-Schedule) 24, 48, 72 hrs										TPH										TOTAL										Standard TAT									
Standard TAT										TPH										TOTAL										Standard TAT									

Special Instructions:										Laboratory Comments:									
Chlorides only please. ALL results in mg/kg. Thank you.										Sample Containers Intact?									
Relinquished by: [Signature]										VOCs Free of Headspace?									
Date: 06/04/15										Labels on container(s)?									
Time: 2:23 PM										Custody seals on container(s)?									
Received by: [Signature]										Sample Hand Delivered?									
Date: 6-10-15										by Sampler/Client Rep.?									
Time: 14:35										UPS									
Received by ELOT:										DHL									
Date:										FedEx									
Time:										Lone Star									
Temperature Upon Receipt:										2.6 °C									
[Signature]										454									