

Bratcher, Mike, EMNRD

From: Amber Cannon [ACannon@yatespetroleum.com]
Sent: Thursday, October 20, 2011 1:56 PM
To: Bratcher, Mike, EMNRD
Cc: Bob Asher
Subject: Loving AIB State #1
Attachments: LovingAIBState1_Final_07-17-11.pdf

Mike,

Yates Petroleum Corporation is requesting closure for the Loving AIB State #1; please find attached the Final C-141, site diagrams, and analytical results.

Thanks,

Amber Cannon

Environmental Regulatory Agent

Yates Petroleum Corporation

Office: (575) 748-4111

Cell: (575) 513-8799

Email: acannon@yatespetroleum.com

MARTIN YATES, III
1924-1985

FRANK W. YATES
1936-1986

S.P. YATES
1914-2005



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118
TELEPHONE (575) 748-1171

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CHIEF FINANCIAL OFFICER

October 20, 2011

Mr. Mike Bratcher
NMOCD District II
811 S. First Street
Artesia, NM 88210

Re: Loving AIB State #1
30-015-22889
Section 16, T23S-R28E
Eddy County, New Mexico

Dear Mr. Bratcher,

Enclosed please find a Form C-141, Final Report for the above captioned site regarding the release on July 17, 2011 (50 B/PW released with 0 B/PW recovered). The C-141 Initial Report was submitted to your office on July 22, 2011. Impacted soils in a field to the west of to the above mentioned site were excavated and hauled to an NMOCD approved facility. Vertical and horizontal delineation samples were taken on 8/4/2011 and 8/29/2011 and sent to an NMOCD approved laboratory. Enclosed are the analytical reports, results show TPH and BTEX, to be below RRAL's, based on a site ranking of twenty (depth to ground water recorded at 55' per NMOSE, Section 16, T23S-R28E), Yates Petroleum Corporation requests closure based on impacted soils excavated/hauled and analytical results.

If you have any questions, please call me at 575-748-4111.

Thank you

YATES PETROLEUM CORPORATION

Amber Cannon
Environmental Regulatory Agent

/anc
Enclosure(s)

LOVING AIB STATE #1

Analytical Report 425337& 425338	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Comp-00.5	Release Area	8/4/2011	Comp/Auger	6"	ND	ND	ND	ND	73,900
Comp-01.0	Release Area	8/4/2011	Comp/Auger	1'	0.00121	ND	ND	ND	74,200
Comp-02.0	Release Area	8/4/2011	Comp/Auger	2'	ND	ND	ND	ND	81,600
Analytical Report 426916	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Grab-03.0	Release Area	8/29/2011	Grab/Backhoe	3'					13,600
Grab-05.0	Release Area	8/29/2011	Grab/Backhoe	5'					2,110
Grab-06.0	Release Area	8/29/2011	Grab/Backhoe	6'					12,300
Grab-07.0	Release Area	8/29/2011	Grab/Backhoe	7'					523
Grab-08.0	Release Area	8/29/2011	Grab/Backhoe	8'					3,130
Grab-09.0	Release Area	8/29/2011	Grab/Backhoe	9'					1,040
Grab-10.0	Release Area	8/29/2011	Grab/Backhoe	10'					2,160
Grab-11.0	Release Area	8/29/2011	Grab/Backhoe	11'					921
Grab-12.0	Release Area	8/29/2011	Grab/Backhoe	12'					931

Site Ranking is TWENTY (20). Depth to Ground Water <50' (approx. 55', Section 16-23S-28E, per NMOSE).

All results are ppm.Chlorides for documentation.

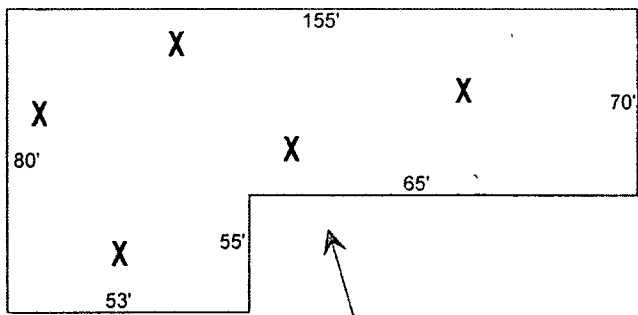
Released: 50 B/PW; Recovered: 0 B/PW. Release Date: 7/17/2011



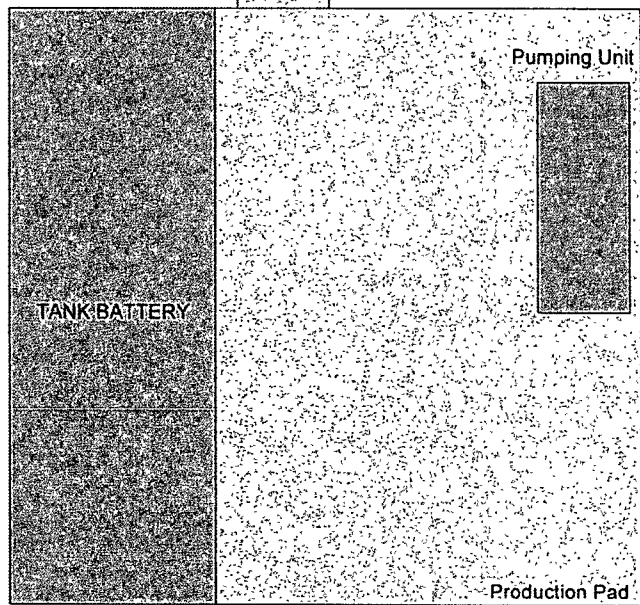
TIN HORN



LEASE ROAD



Release/Excavation Area
(contaminated soils excavated 4')



Loving AIB State #1
30-015-22889
Section 16, T23S-R28E
Eddy County, NM

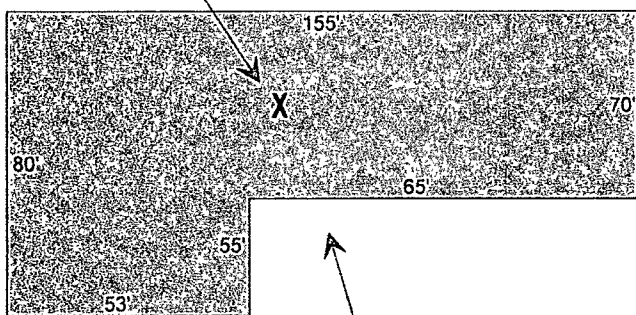
SAMPLE DIAGRAM(Not to Scale)
Xenco Laboratories# 425337 & 425338
Report Date: 8/18/2011
Prepared by Amber Cannon
Environmental Regulatory Agent



TIN HORN

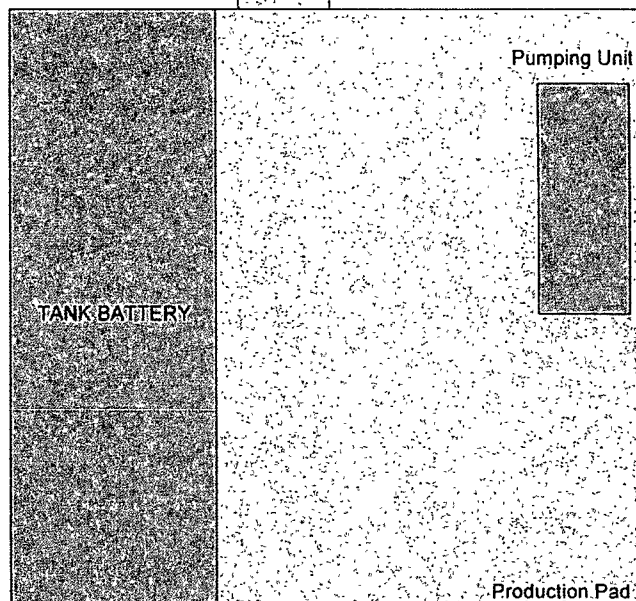


Grab Sample taken 8/29/2011.
Samples taken at 3'-12'



Release/Excavation Area
(contaminated soils excavated 4')

LEASE ROAD



Loving AIB State #1

30-015-22889

Section 16, T23S-R28E

Eddy County, NM

SAMPLE DIAGRAM(Not to Scale)

Xenco Laboratories# 426916

Report Date: 9/8/2011

Prepared by Amber Cannon
Environmental Regulatory Agent

Analytical Report 425337

for

Yates Petroleum Corporation

Project Manager: Amber Cannon

Loving AFB State # 1

30-015-22889

18-AUG-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00153): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code: AZ00989): Arizona (AZ0758)



18-AUG-11

Project Manager: Amber Cannon
Yates Petroleum Corporation
105 South Fourth St.
Artesia, NM 88210

Reference: XENCO Report No: 425337
Loving AIB State # 1
Project Address: Eddy County

Amber Cannon:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 425337. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 425337 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron II

Odessa Laboratory Manager

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Sample Cross Reference 425337



Yates Petroleum Corporation, Artesia, NM
Loving AllB State # 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-00.5	S	08-04-11 10:13	6 - 6 ft	425337-001
Comp-01.0	S	08-04-11 10:26	1 - 1 ft	425337-002
Comp-02.0	S	08-04-11 10:42	2 - 2 ft	425337-003



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Loving AIB State # 1



Project ID: 30-015-22889
Work Order Number: 425337

Report Date: 18-AUG-11
Date Received: 08/09/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-866807 TPH By SW8015B Mod
SW8015B_NM

Batch 866807, 1-Chlorooctane, o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data not confirmed by re-analysis
Samples affected are: 425337-003.

Batch: LBA-867107 BTEX by EPA 8021B
SW8021BM

Batch 867107, c-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Benzene, Ethylbenzene, Toluene, m_p-Xylenes recovered below QC limits in the Matrix Spike Duplicate.

Samples affected are: 425337-001.

The Laboratory Control Sample for Toluene, Benzene, o-Xylene, Ethylbenzene, m_p-Xylenes is within laboratory Control Limits



Certificate of Analysis Summary 425337

Yates Petroleum Corporation, Artesia, NM

Project Name: Loving AIB State # 1



Project Id: 30-015-22889

Contact: Amber Cannon

Project Location: Eddy County

Date Received in Lab: Tue Aug-09-11 10:15 am

Report Date: 18-AUG-11

Project Manager: Brent Barron II

Analysis Requested	Lab Id:	425337-001	425337-002	425337-003		
	Field Id:	Comp-00.5	Comp-01.0	Comp-02.0		
	Depth:	6-6 In	1-1 ft	2-2 ft		
	Matrix:	SOIL	SOIL	SOIL		
	Sampled:	Aug-04-11 10:13	Aug-04-11 10:25	Aug-04-11 10:42		
BTEX by EPA 8021B	Extracted:	Aug-11-11 10:43	Aug-11-11 10:47	Aug-11-11 10:47		
	Analyzed:	Aug-12-11 11:45	Aug-11-11 17:13	Aug-11-11 17:36		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		ND 0.00107	ND 0.00108	ND 0.00109		
Toluene		ND 0.00213	ND 0.00215	ND 0.00218		
Ethylbenzene		ND 0.00107	0.00121 0.00108	ND 0.00109		
m-p-Xylenes		ND 0.00213	ND 0.00215	ND 0.00218		
o-Xylene		ND 0.00107	ND 0.00108	ND 0.00109		
Total Xylenes		ND 0.00107	ND 0.00108	ND 0.00109		
Total BTEX		ND 0.00107	0.00121 0.00108	ND 0.00109		
Percent Moisture	Extracted:					
	Analyzed:	Aug-09-11 15:35	Aug-09-11 15:35	Aug-09-11 15:35		
	Units/RL:	% RL	% RL	% RL		
Percent Moisture		7.02 1.00	7.90 1.00	8.92 1.00		
TPH By SW801SB Mod	Extracted:	Aug-09-11 14:45	Aug-09-11 14:45	Aug-09-11 14:45		
	Analyzed:	Aug-09-11 21:06	Aug-09-11 21:33	Aug-09-11 22:00		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL		
C6-C10 Gasoline Range Hydrocarbons		ND 14.9	ND 15.1	ND 15.0		
C10-C28 Diesel Range Hydrocarbons		ND 14.9	ND 15.1	ND 15.0		
Total TPH		ND 14.9	ND 15.1	ND 15.0		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XFNCO Laboratories. XFNCO L. Laboratories assumes no responsibility and makes no warranty of the end use of the data hereby presented. Our liability is limited to the amount invested for this work unless otherwise agreed to in writing.

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 Brent Barron II
 Odessa Laboratory Manager



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

✦ Outside XENCO's scope of NEIAC Accreditation.

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 2505 North Fairchild Rd, Tampa, FL 33619
 5757 NW 158th St, Miami Lakes, FL 33014
 12603 West I-20 East, Odessa, TX 79765
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(813) 620-2000	(813) 620-2033
(305) 823-3500	(305) 823-8553
(414) 561-1800	(413) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0310	

XENCO-Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Amber Cannon

Project Name: Loving AIB State #1

Company Name: Yates Petroleum Corporation

Project #: 30-015-22889

Company Address: 10: South 4th Street

Project Loc: Eddy County

City/State/Zip: Artesia, NM 88210

PO #: 1032020

Telephone No: 575-748-4111

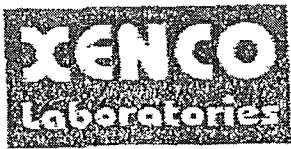
Fax No: 575-748-4585

Report Format: Standard TRRP NPDES

Sampler Signature: Amber Cannon

e-mail: acannon@yatespetroleum.com

(lab use only)							Analyze For:																													
ORDER #: <u>425337 / 425338</u>							Preservation & # of Containers						Matrix				TOTAL						RUSH TAT (in-schedule) 24-72 hrs													
LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Frame	Total # of Containers	Ice	H ₂ O ₂	HCl	H ₂ SO ₄	H ₂ O ₂	H ₂ O ₂	None	Other (Specify)	DR - Drinking Water: Bv-Su/Sy	GR - Groundwater: Bv-Su/Sy	SP - Surface Water: Bv-Su/Sy	TPH: 418.1 20-5M	EC15B	TPH: TX 1605 TX 1606	Calcium (Ca, Mg, Na, K)	Ammonia (C, SO ₄ , Al ₂ O ₃ , Fe)	SAR / ESP / CEC	Metals: As, Ag, Ba, Cd, Cr, Pb, Hg, Se	Volatile	Semivolatile	BTEX 8021B, 8021C or BTEX 8280	OCI	NORM	Chlorides	RUSH TAT	Standard TAT			
01	Comp-00.5	0'	0'	8/4/2011	10:13 AM	1	X									S	X																		X	X
02	Comp-01.0	1'	1'	8/4/2011	10:26 AM	1	X									S	X																		X	X
03	Comp-02.0	2'	2'	8/4/2011	10:42 AM	1	X									S	X																		X	X
PLEASE PUT CHLORIDES ON SEPARATE REPORT																																				
Special Instructions: <u>TPH: 8015B, BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Thank you.</u>																			Laboratory Comments: Sample Containers intact? <u>Y</u> N VOCs Free of Headspace? <u>Y</u> N Labels on container(s) <u>Y</u> N Custody seals on container(s) <u>Y</u> N Custody seals on cooler(s) <u>Y</u> N Sample Hand Delivered by Sampler/Client Rep.? by Courier? <u>Y</u> N Temperature Upon Receipt: <u>40.24 KISS</u> <u>DHL</u> <u>FedEx</u> <u>Zona Star</u> <u>2.1</u> °C																	
Relinquished by	Date	Time	Received by		Date	Time																														
Amber Cannon	08/08/11	11:32 AM																																		
Relinquished by	Date	Time	Received by		Date	Time																														
<u>Fedex</u>			<u>Andrea Elam</u>		<u>8/9/11</u>	<u>10:15</u>																														



XENCO Laboratories
 Atlanta, Boca Raton, Corpus Christi, Dallas
 Houston, Miami, Odessa, Philadelphia
 Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist
 Document No.: SYS-SRC
 Revision/Date: No. 01, 5/27/2010
 Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Yates Petroleum
 Date/Time: 8.9.11 / 10.15
 Lab ID #: 425337 / 425338
 Initials: AE

Sample Receipt Checklist

1. Samples on ice?	Slue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and <u>bottles</u> ?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	<u>Yes</u>	No	N/A	<u>Xerox files 207</u>
17. VCC sample have zero head space?	<u>Yes</u>	No	N/A	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs: <u>2.1</u> °C	lbs: °C	lbs: °C	lbs: °C	lbs: °C

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/Time: _____
 Regarding: _____
 Corrective Action Taken: _____

- Check all that apply: Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.3.8.3.1.a.1.
 Initial and Backup Temperature confirm out of temperature conditions
 Client understands and would like to proceed with analysis

Analytical Report 425338

for

Yates Petroleum Corporation

Project Manager: Amber Cannon

Loving AIB State # 1

30-015-22889

18-AUG-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215 10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (F-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAC00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code: AZ00989): Arizona (AZ0758)



18-AUG-11

Project Manager: Amber Cannon
Yates Petroleum Corporation
105 South Fourth St.
Artesia, NM 88210

Reference: XENCO Report No: 425338
Loving AIB State # 1
Project Address: Eddy County

Amber Cannon:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 425338. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 425338 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron II

Odessa Laboratory Manager

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Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America



Sample Cross Reference 425338



Yates Petroleum Corporation, Artesia, NM
Loving AIB State # 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-00.5	S	08-04-11 10:13	6 - 6 In	425338-001
Comp-01.0	S	08-04-11 10:26	1 - 1 ft	425338-002
Comp-02.0	S	08-04-11 10:42	2 - 2 ft	425338-003



CASE NARRATIVE

Client Name: Yates Petroleum Corporation
Project Name: Loving AIB State # 1



Project ID: 30-015-22889
Work Order Number: 425338

Report Date: 18-AUG-11
Date Received: 08/09/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-867226 Inorganic Anions by EPA 300/300.1
E300

Batch 867226, Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 425338-001, -003, -002.

The Laboratory Control Sample for Chloride is within laboratory Control Limits



Certificate of Analysis Summary 425338

Yates Petroleum Corporation, Artesia, NM

Project Name: Loving AIB State # 1



Project Id: 30 015-22389

Contact: Amber Cannon

Project Location: Eddy County

Date Received in Lab: Tue Aug-09-11 10:15 am


Report Date: 18-AUG-11

Project Manager: Brent Barron II

Analysis Requested	Lab Id:	425338-001	425338-002	425338-003		
	Field Id:	Comp-00.5	Comp-01.0	Comp 02.0		
	Depth:	6-6 in	1-1 ft	2-2 ft		
	Matrix:	SOIL	SOIL	SOIL		
	Sampled:	Aug-04-11 10:13	Aug-04-11 10:26	Aug-04-11 10:42		
Inorganic Anions by EPA 300/300.1 SUB: E871002	Extracted:	Aug-14-11 12:04	Aug-14-11 12:22	Aug-14-11 12:40		
	Analyzed:	Aug-14-11 12:04	Aug-14-11 12:22	Aug-14-11 12:40		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		73900 D 538	74200 D 543	81600 D 549		
Percent Moisture	Extracted:					
	Analyzed:	Aug-09-11 15:35	Aug-09-11 15:35	Aug-09-11 15:35		
	Units/RL:	% RL	% RL	% RL		
Percent Moisture		7.02 1.00	7.93 1.00	8.92 1.00		

This analysis, report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretation and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the area of service for this work order unless otherwise agreed to in writing.

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 Brent Barron II
 Odessa Laboratory Manager



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent differences in the MS/MSD
- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit:

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit:

NC Non-Calculable

± Outside XENCO's scope of NELAC Accreditation.

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 12600 West I-20 East, Odessa, TX 79765
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(214) 962-0300	(214) 351-9159
(210) 509-3334	(210) 209-3335
(813) 820-2000	(813) 620-2033
(305) 823-8500	(305) 823-8255
(432) 563-1800	(432) 563-1713
(770) 419-8800	(770) 419-5177
(602) 421-0340	

XENCO-Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Amber Cannon

Project Name: Loving AIB State #1

Company Name: Yates Petroleum Corporation

Project #: 30-015-22889

Company Address: 105 South 4th Street

Project Loc: Eddy County

City/State/Zip: Ariesa, NM 88210

PO #: 1032020

Telephone No: 575-748-4111

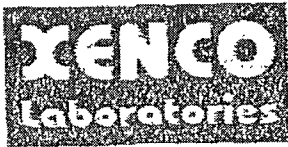
Fax No: 575-748-4585

Report Format: Standard IRRP NPDES

Sampler Signature: Amber Cannon

e-mail: acannon@yatespetroleum.com

(lab use only)																Analyze For:												
ORDER #: <u>425337 / 425338</u>																TOTAL												
LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers						Matrix		TPH 4181 8015B 8015B TPH TX 1005 TX-1005	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Al ₂ SO ₄)	SAR / ESP / CEC	Metals (As, Ag, Ba, Cd, Cr, Pb, Hg, Se)	Volatiles	Semi-Volatiles	BTEX 8021B/8020 or BTEX 8060	RCI	NOR-M	Chlorides	RUSH TAT (Per Sample) (s. 44, 72 hrs)	Standard TAT
								Ice	NH ₃	HCl	H ₂ SO ₄	NaOH	H ₂ O ₂	None	Other (Specify)													
01	Comp-00 b	6"	6"	8/4/2011	10:13 AM	1	X								S	X						X			X			X
02	Comp-01.0	1'	1'	8/4/2011	10:26 AM	1	X								S	X						X			X			X
03	Comp-02.0	2'	2'	8/4/2011	10:42 AM	1	X								S	X						X			X			X
PLEASE PUT CHLORIDES ON SEPARATE REPORT																												
Special Instructions: <u>TPH: 8015B, BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg Thank you</u>																		Laboratory Comments: Sample Containers Intact? N VOCs Free of Headspace? N Labels on container(s) N Custody seals on container(s) N Custody seals on cooler(s) N Sample Hand Delivered by Sampler/Client Rep.? N by Courier? <u>UPS</u> DHL N Temperature Upon Receipt: <u>40.24</u> FedEx Zone Sta 2.1 °C										
Relinquished by:	Date:	Time:	Received by:	Date:	Time:																							
Amber Cannon	08/02/11	11:32 AM																										
Relinquished by:	Date:	Time:	Received by:	Date:	Time:																							
<u>Fedex</u>			<u>Andrea Elam</u>	8/9/11	10:15																							



XENCO Laboratories
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 Houston, Miami, Odessa, Philadelphia
 Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist
 Document No.: SYS-SRC
 Revision/Date: No. 01, 5/27/2010
 Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Yates Petroleum
 Date/Time: 8.9.11 / 10.15
 Lab ID #: 425337 / 425338
 Initials: AE

Sample Receipt Checklist

1. Samples on ice?	Blue	<input checked="" type="radio"/> Water	No	
2. Shipping container in good condition?	<input checked="" type="radio"/> Yes	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<input checked="" type="radio"/> Yes	No	N/A	
4. Chain of Custody present?	<input checked="" type="radio"/> Yes	No		
5. Sample instructions complete on chain of custody?	<input checked="" type="radio"/> Yes	No		
6. Any missing / extra samples?	Yes	<input checked="" type="radio"/> No		
7. Chain of custody signed when relinquished / received?	<input checked="" type="radio"/> Yes	No		
8. Chain of custody agrees with sample label(s)?	<input checked="" type="radio"/> Yes	No		
9. Container labels legible and intact?	<input checked="" type="radio"/> Yes	No		
10. Sample matrix / properties agree with chain of custody?	<input checked="" type="radio"/> Yes	No		
11. Samples in proper container / bottle?	<input checked="" type="radio"/> Yes	No		
12. Samples properly preserved?	<input checked="" type="radio"/> Yes	No	N/A	
13. Sample container intact?	<input checked="" type="radio"/> Yes	No		
14. Sufficient sample amount for indicated test(s)?	<input checked="" type="radio"/> Yes	No		
15. All samples received within sufficient hold time?	<input checked="" type="radio"/> Yes	No		
16. Subcontract of sample(s)?	<input checked="" type="radio"/> Yes	No	N/A	Xenoc: Hox 12/11
17. VOC sample have zero head space?	<input checked="" type="radio"/> Yes	No	N/A	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs 2.1 °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that apply:
- Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAP 5.8.8.3.1.a.1.
 - Initial and Backup Temperature confirm out of temperature conditions
 - Client understands and would like to proceed with analysis

Analytical Report 426916

for

Yates Petroleum Corporation

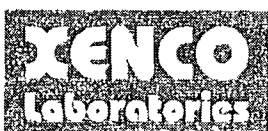
Project Manager: Amber Cannon

Loving AIB State #1

30-015-22889

08-SEP-11

Collected By: Client



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Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6 TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PII-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400 TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)



08-SEP-11

Project Manager: Amber Cannon
Yates Petroleum Corporation
105 South Fourth St.
Artesia, NM 88210

Reference: XENCO Report No: 426916
Loving AIB State #1
Project Address: Eddy County

Amber Cannon:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 426916. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 426916 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so-necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron II

Odessa Laboratory Manager

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Sample Cross Reference 426916



Yates Petroleum Corporation, Artesia, NM

Loving AIB State #1

Sample Id	Matrix	Date Collected	Sample Depth	Lah Sample Id
Grab 03.0	S	08-29-11 09:10	3 - 3 ft	426916-001
Grab 05.0	S	08-29-11 09:15	5 - 5 ft	426916-002
Grab 06.0	S	08-29-11 09:20	6 - 6 ft	426916-003
Grab 07.0	S	08-29-11 09:25	7 - 7 ft	426916-004
Grab 08.0	S	08-29-11 09:30	8 - 8 ft	426916-005
Grab 09.0	S	08-29-11 09:35	9 - 9 ft	426916-006
Grab 10.0	S	08-29-11 09:40	10 - 10 ft	426916-007
Grab 11.0	S	08-29-11 09:45	11 - 11 ft	426916-008
Grab 12.0	S	08-29-11 09:50	12 - 12 ft	426916-009



CASE NARRATIVE

Client Name: Yates Petroleum Corporation
Project Name: Loving AIB State #1



Project ID: 30-015-22889
Work Order Number: 426916

Report Date: 08-SEP-11
Date Received: 09/01/2011

Sample receipt non conformances and comments:
None

Sample receipt non conformances and comments per sample:
None



Certificate of Analysis Summary 426916

Yates Petroleum Corporation, Artesia, NM



Project Id: 30-015-22889

Contact: Amber Cannon

Project Location: Eddy County

Project Name: Loving AIB State #1

Date Received in Lab: Thu Sep-01-11 11:55 am

Report Date: 08-SEP-11

Project Manager: Brent Baron II

Analysis Requested	Lab Id:	426916-001	426916-002	426916-003	426916-004	426916-005	426916-006
	Field Id:	Grab 03.0	Grab 05.0	Grab 06.0	Grab 07.0	Grab 08.0	Grab 09.0
	Depth:	3-3 ft	5-5 ft	6-6 ft	7-7 ft	8-8 ft	9-9 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Aug-29-11 09:10	Aug-29-11 09:15	Aug-29-11 09:20	Aug-29-11 09:25	Aug-29-11 09:30	Aug-29-11 09:35
Anions by E300	Extracted:	Sep-02-11 11:00		Sep-02-11 11:00		Sep-02-11 11:00	
	Analyzed:	Sep-02-11 11:00		Sep-02-11 11:00		Sep-02-11 11:00	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		13500	.83	2110	23.4	12200	179
						523	4.55
						3.36	44.9
							1040
							22.7
Percent Moisture	Extracted:	Sep-01-11 12:20		Sep-01-11 12:20		Sep-01-11 12:20	
	Analyzed:	Sep-01-11 12:20		Sep-01-11 12:20		Sep-01-11 12:20	
	Units/RL:	%	RL	%	RL	%	RL
Percent Moisture		8.04	1.00	10.3	1.00	6.08	1.00
						7.66	1.00
						6.50	1.00
							7.55
							1.00

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Brent Baron II
Odessa Laboratory Manager



Certificate of Analysis Summary 426916

Yates Petroleum Corporation, Artesia, NM

Project Name: Loving AIB State #1



Project Id: 30-015-22889

Contact: Amber Cannon

Project Location: Eddy County

Date Received in Lab: Thu Sep-01-11 11:55 am

Report Date: 08-SEP-11

Project Manager: Brent Barron II

Analysis Requested	Lab Id:	426916-007	426916-008	426916-009			
	Field Id:	Grab 10.0	Grab 11.0	Grab 12.0			
	Depth:	10-10 ft	11-11 ft	12-12 ft			
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	Aug-29-11 09:40	Aug-29-11 09:45	Aug-29-11 09:50			
Anions by E300	Extracted:						
	Analyzed:	Sep-02-11 11:00	Sep-02-11 11:00	Sep-02-11 11:00			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		2160 45.2	924 46.5	931 24.1			
Percent Moisture	Extracted:						
	Analyzed:	Sep-01-11 12:20	Sep-01-11 12:20	Sep-01-11 12:20			
	Units/RL:	% RL	% RL	% RL			
Percent Moisture		7.15 1.00	9.93 1.00	12.9 1.00			

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Brent Barron II
Odessa Laboratory Manager



Flagging Criteria

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PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DI Method Detection Limit

NC Non Calculable

+ Outside XENCO's scope of NELAC Accreditation.

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 5757 NW 148th St, Miami Lakes, FL 33014
 12600 West I-70 East, Odessa, TX 79765
 6017 Financial Drive, Norcross, GA 30071
 3725 E. Arrow Ave, Phoenix, AZ 85040

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(714) 902-0469	(214) 751-9129
(710) 509-3334	(710) 509-3335
(813) 670-7000	(813) 620-2033
(105) 823-8500	(305) 823-8555
(432) 563-1900	(432) 563-1713
(770) 449-8600	(770) 449-5477
(602) 477-0310	

XENCO-Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1743

Project Manager: Amber Cannon

Project Name: Loving AIB State #1

Company Name: Yates Petroleum Corporation

Project #: 30-015-22989

Company Address: 105 South 4th Street

Project Loc. Eddy County

City/State/Zip: Artesia, NM 88210

PO #: 1032020

Telephone No. 575-748-4111

Fax No: 575-748-4685

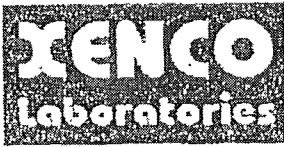
Report Format: Standard TRRP NPDES

Sampler Signature: Amber Cannon

e-mail: acannon@yatespetroleum.com

(lab use only)		Analyze For:																										
LAB # (lab use only)	ORDER #	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Size Filtered	# of Containers	Preservation & # of Containers	Matrix	TCLP	TOTAL:	TOC	THP	TX 1006	TX 1028	Chloride (Cl, Mg, Ni, K)	Form (C, S, O4, (NH4)2)	BAR / ESP / CEC	Alkalies Ar, Ag, Ba, Ca, Cr, Pb, Hg, Se	VOCs	Semi-volatiles	BTXK BTEX (Benzene, Toluene, Xylene, Ethyl Benzene)	PCB	ICP M	Chlorides	RUSH TAT (see 1.3 section, 24, 48, 72 hr)	Standard TAT
	4210916	Grab 03.0	3'	3'	8/29/2011	9:10 AM		1		S																X		X
		Grab 05.0	5'	5'	8/29/2011	9:15 AM		1		S																X		X
		Grab 06.0	6'	6'	8/29/2011	9:20 AM		1		S																X		X
		Grab 07.0	7'	7'	8/29/2011	9:25 AM		1		S																X		X
		Grab 08.0	8'	8'	8/29/2011	9:30 AM		1		S																X		X
		Grab 09.0	9'	9'	8/29/2011	9:35 AM		1		S																X		X
		Grab 10.0	10'	10'	8/29/2011	9:40 AM		1		S																X		X
		Grab 11.0	11'	11'	8/29/2011	9:45 AM		1		S																X		X
		Grab 12.0	12'	12'	8/29/2011	9:50 AM		1		S																X		X

Special Instructions:						Laboratory Comments:					
						Sample Containers Intact? <input type="checkbox"/> N					
						VOCs Free of Headspace? <input type="checkbox"/> N					
						Labels on container(s) <input type="checkbox"/> N					
						Custody seals on container(s) <input type="checkbox"/> N					
						Custody seals on cooler(s) <input type="checkbox"/> N					
						Sample Hand Delivered <input type="checkbox"/> N					
						by Sampler/Client Rep? <input type="checkbox"/> Y					
						by Courier? UPS <input checked="" type="checkbox"/> Lone Star					
						Temperature Upon Receipt: <u>4029 1655</u> <u>25.1 °C</u>					



XENCO Laboratories
 Atlanta, Boca Raton, Corpus Christi, Dallas
 Houston, Miami, Odessa, Philadelphia
 Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist
 Document No.: SYS-SRC
 Revision/Date: No. 01, 5/27/2010
 Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Yates
 Date/Time: 9-1-11 11:55
 Lab ID #: 426916
 Initials: AB

Sample Receipt Checklist

1. Samples on ice?	Blue	Water	<u>No</u>	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	<u>N/A</u>	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	No	<u>N/A</u>	
17. VOC sample have zero head space?	Yes	No	<u>N/A</u>	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs 2.5 °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

Contact: _____ Contacted by: _____ Date/Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that apply: Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.
 Initial and Backup Temperature confirm out of temperature conditions
 Client understands and would like to proceed with analysis