District	
1625 N. French Dr., Hobbs, NM 88240	
District II	
1301 W. Grand Avenue, Artesia, NM 88210	
District III	
1000 Rio Brazos Road, Aztec, NM 87410	
District IV	
1220 S. St. Francis Dr., Santa Fe, NM 87505	

State of New Mexico Energy Minerals and Natural Resources

> Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

### **Release Notification and Corrective Action**

	OPER	ATOR	Initial Report	🛛 Final Report
Name of Company	OGRID Number	Contact		
Yates Petroleum Corporation	25575	Jeremy Haass		
Address		Telephone No.		
104 S. 4 <sup>TH</sup> Street		575-748-1471		
Facility Name	API Number	Facility Type		
Lotus 'ALT' State #3	30-025-36005	Pumping Unit		
Surface Owner	Mineral Owner	r	Lease No.	
State	State		V-2443	

### LOCATION OF RELEASE

Unit Letter S	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
С	32	22S	32E	660	North	1980	West	Lea

Latitude 32.35323 Longitude 103.69841

NATURE	OF RELEASE				
Type of Release	Volume of Release	Volume Red	covered		
Crude Oil, Produced Water	7 B/O, 53 B/PW	0 B/O, 0 B/	PW		
Source of Release	Date and Hour of Occurrence		our of Discovery		
Poly Line	8/17/2011 AM	8/17/2011 A	AM		
Was Immediate Notice Given?	If YES, To Whom?				
🛛 Yes 🗌 No 🗌 Not Required	Maxey G. Brown, NMOCD I	/ H	1 2 2011		
By Whom?	Date and Hour	/	- SOCD		
Jeremy Haass, Yates Petroleum Corporation	8/18/2011 AM (email)	007	/		
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	tercourse.	12 2010		
🗌 Yes 🖾 No	N/A		2011		
If a Watercourse was Impacted, Describe Fully.*		REC REC	EIVED		
Describe Cause of Problem and Remedial Action Taken.*			-IVED		
$\wedge$ weak spot on the poly flow line from the well to the battery popped. L	eak was isolated and crew was called	out to fix line.	Called backhoe and dump		
truck in to pick up affected soil.					
Describe Area Affected and Cleanup Action Taken.*					
An approximate area of 25' X 80', all on well pad. Impacted soils were cleaned up and taken to an NMOCD approved facility. Vertical and horizontal					
delineation samples were taken and analysis ran for TPH & BTEX. Third party analytical results for TPH & BTEX showed the site is well under RRAL's.					
Depth to Ground Water: >100' (approximately 325', Section 32-T225	S-R32E, per Trend Map), Wellhead	Protection A	rea: No, Distance to Surface		
Water Body: >1000', SITE RANKING IS 0. Based on spill occurring	and staying on location plus depth	to ground wa	ter being 325', impacted		
soils excavated/hauled and enclosed analytical results, Yates Petroleu	m Corporation requests closure.				
I hereby certify that the information given above is true and complete to t	he best of my knowledge and underst	and that pursu	ant to NMOCD rules and		
regulations all operators are required to report and/or file certain release r	notifications and perform corrective ac	ctions for relea	ses which may endanger		
public health or the environment. The acceptance of a C-141 report by the	e NMOCD marked as "Final Report"	does not relie	ve the operator of liability		
should their operations have failed to adequately investigate and remedia	te contamination that pose a threat to	ground water,	surface water, human health		
or the environment. In addition, NMOCD acceptance of a C-141 report of	loes not relieve the operator of respon	sibility for con	npliance with any other		
federal, state, or local laws and/or regulations.					
	OIL CONSER	<u>VATION I</u>	DIVISION		
Signature:					
) Printed Name: Jeremy Haass	Approved by District Supervisor:				
Title: Environmental Regulatory Agent	Approval Date:	Expiration D	ate:		
E-mail Address: jhaass@yatespetroleum.com	Conditions of Approval:		Attached		
Date: Tuesday, October 11, 2011 Phone: 575-748-1471	2RP-				

Date: Tuesday, October 11, 2011Phone: 575-748-1471\* Attach Additional Sheets If Necessary





Analytical Report- 426704 & 426705 & 427797	Sample Date	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Sample #1	8/22/2011	1'	ND	ND	ND	ND	16700
Sample #2	8/22/2011	1'	.0226	ND	ND	ND	111
Sample #3	8/22/2011	1'	ND	ND	ND	ND	17900
Sample #4	8/22/2011	1'	ND	ND	ND	ND	5520
Sample #5	8/22/2011	1'	.0461	27.7	502	530	407
Sample #1	9/14/2011	3'	-	-	-	-	2590
Sample #3	9/14/2011	3'		-	-	-	3810
Sample #4	9/14/2011	3'	-	-	-	<b>=</b> 3	2880

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 325', per Trend Map).

All results are ppm.Chlorides for documentation. S - Sample Points

Released: 53 B/PW & 7 B/O; Recovered: 0 B/PW & 0 B/O. Release Date: 8/17/2011

### Analytical Report 427797

for Yates Petroleum Corporation

**Project Manager: Jeremy Haass** 

Lotus 'ALT' State # 3

30-025-36005

29-SEP-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 (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: AZ00989): Arizona (AZ0758)



29-SEP-11



Project Manager: Jeremy Haass Yates Petroleum Corporation 105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: 427797 Lotus 'ALT' State # 3 Project Address: Lea County

### Jeremy Haass:

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 427797. 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. 427797 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 427797

### Yates Petroleum Corporation, Artesia, NM

Lotus 'ALT' State # 3

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Sample # 1	S	09-14-11 09:45	3 - 3 ft	427797-001
Sample # 3	S	09-14-11 10:00	3 - 3 ft	427797-002
Sample # 4	S	09-14-11 10:15	3 - 3 ft	427797-003



### CASE NARRATIVE

Client Name: Yates Petroleum Corporation Project Name: Lotus 'ALT' State # 3



 Project ID:
 30-025-36005

 Work Order Number:
 427797

Report Date: 29-SEP-11 Date Received: 09/16/2011

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None



Certificate of Analysis Summary 427797 Yates Petroleum Corporation, Artesia, NM Project Name: Lotus 'ALT' State #3



Project Id: 30-025-36005 Contact: Jeremy Haass Project Location: Lea County

t 3 Date Received in Lab: Fri Sep-16-11 12:00 pm Report Date: 29-SEP-11

roject moration. For course					Project Manager: Brent Barron II	Srent Barron II	
	Lab Id:	427797-001	427797-002	427797-003			
-	Field Id:	Sample # 1	Sample # 3	Sample # 4			
Analysis kequested	Depth:	3-3 ft	3-3 ft	3-3 ft			
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	Sep-14-11 09:45	Sep-14-11 10:00	Sep-14-11 10:15			
Anions by E300	Extracted:				Ĩ		
	Analyzed:	Sep-21-11 18:27	Sep-21-11 18:27	Sep-21-11 18:27			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride	14 14	2590 21.5	3810 43.4	2880 42.6			
Percent Moisture	Extracted:	3					
	Analyzed:	Sep-19-11 10:30	Sep-19-11 10:30	Sep-19-11 10:30			
	Units/RL:	% RL	% RL	% RL			
Percent Moisture		2.30 1.00	3.17 1.00	1.41 1.00			

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 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 amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Odessa Laboratory Manager Brent Barron II

Page 5 of 11

Final 1.001



## **BS / BSD Recoveries**



# Project Name: Lotus 'ALT' State # 3

Project ID: 30-025-36005Date Prepared: 09/21/2011Batch #: 1Matrix: Solid	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	kSpikeBlankBlankBlankBluk SpikeControlControltesultAddedSpikeSpikeDup.RPDLimitsLimitsResult%R%R%R%R%RPDNo[B][C][D][E]Result [F][G]%R	
Work Order #: 427797 Analyst: BRB Lab Batch ID: 870534 Sample: 870534-1-BKS	Units: mg/kg	Anions by E300 Blank Sample Result [A] Analytes	•

20

75-125

111

22.1

20.0

109

21.8

20.0

<0.840

Chloride

Relative Percent Difference RPD = 200\*((C-F)/(C+F) Blank Spike Recovery [D] = 100\*(C)/[B] Blank Spike Duplicate Recovery [G] = 100\*(F)/[E] All results are based on MDL and Validated for QC Purposes Final 1.001



### **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 NELAC Accreditation.

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Project Name: Lotus 'ALT' State # 3

Work Order #: 427797						
Lab Batch #: 870534			Pr	oject ID:	30-025-360	005
Date Analyzed: 09/21/2011	Date Prepared: 09/2	1/2011	A	alyst: B	RB	
QC- Sample ID: 427797-001 S	Batch #: 1		]	Matrix: S	oil	
Reporting Units: mg/kg	MATE	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes	[A]	[B]				
Chloride	2590	512	3000	80	75-125	

Matrix Spike Percent Recovery  $[D] = 100^{\circ}(C-A)/B$ Relative Percent Difference  $[E] = 200^{\circ}(C-A)/(C+B)$ All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Work Order #: 427797



### Project Name: Lotus 'ALT' State # 3

Lab Batch #: 870534 Date Analyzed: 09/21/2011 18:27 Date I QC- Sample ID: 427797-001 D	Prepared: 09/21/2011 Batch #: 1		Project I lyst:BRB trix: Soil	<b>D:</b> 30-025-3	6005
Reporting Units: mg/kg	SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
Anions by E300	Parent Sample Result [A]	Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Chloride	2590	2590	0	20	
Lab Batch #: 870381 Date Analyzed: 09/19/2011 10:30 Date 1	Prepared: 09/19/2011	l Ana	lyst:BRB		
QC- Sample ID: 427800-001 D	Batch #: 1	Ma	trix: Soil		
Reporting Units: %	SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	6.75	6.84	1	20	

Spike Relative Difference RPD 200 \* | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

	ō	of Texas	as	<i>'</i>		20	2600 dess	CHAIN OF 12600 West I-20 East Odessa, Texas 79765	CHA t1-20 txas	VIN ( Eas 7976	0F C	LSN	CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST tI-20 East Phone: 432-563-1800 xas 79765 Fax: 432-563-1713 xas 79765 A. T. State #3	REC	ORL	ANE		ALYS Phone: Fax:	IS R 432- 432- T' S		ST 300			
Project Manager: Jeremy Haass												1		rojec	t Nan	ات چ	otus	¥	0	ate	£			
Yates Petroleum Corporation	orporation											1		<u>a</u>	roject	#: 30	Project #: 30-025-36005	3600	Q					
Company Address: 105 South 4th Street	+													Proj	ect L	c: Le	Project Loc: Lea County	īţ						
Artesia, NM 88210												- [			РО	#: 10	PO #: 103-2636							
575-748-4311				Fax No:	1								Rep	Report Format:	ormat		X Standard	dard		TRRP	٩۶			ŝ
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- -	 					L	Prese	Preservation & # of Containers	5 # 8 u	of Con	tainer		Matrix	158			TCLP: TOTAL:			09				SJU 7/ '99
FIEL D CODE	ៅវqəପ ពួកកែកខ្មែងទី	ding Depth	beiqma2 etsO	bəlqms2 əmiT	Field Filtered	Total #. of Containers	<sup>\$</sup> ONH	нсі	POS <sup>2</sup> H	<sup>c</sup> O <sup>z</sup> S <sup>ze</sup> N HO <sup>e</sup> N	элоИ	Other ( Specify)	D=W=Drinking Water SL=Sludge biloSlioS=2 astembruot2 ≖ WD	NP=Non-Potable Specify Other TPH: 418.1 8015M 80	9001 XT 2001 XT HAT	Cetions (Cs, Mg, Va, K) Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Volatiles	səlitslovime2	RTEX 8021B/5030 or BTEX 82	N.O.R.M. Сhlorides		VERTER STORE TO I HOUR	RUSH TAT (Pre-Schedule) 24 TAT dard TAT
Sample #1	3ft		9/14/2011	9:45am		×							S								×		+	×
Sample #2	3ft	3ft	9/14/2011	10:00am		×							S			-					×		+	×
Sample #3	3ft	3ft	9/14/2011	10:15am		×			-	_			S	-		+		_			×		+	×
					+	+-			+-	+		$\top$					$\Box$	+		-	-			
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PLEASE PUT CHLORIDES	_																	-		-	+		+	+
UN SEPAKAIE KEPUKI TPH: 8015B, BTEX: 8021B	B, BTEX: 8	021B	& Chlorides.	Please show BTEX results as mg/kg.	BTE	-X <sub>re</sub>	sults	s as r	ng/k		han	Thank you		4		abora Sample	Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace?	comm ainers Head	ents: Intaci Ispaci	0.0		60	ZZ	
	Date T	7ime 2:32 PM	Received by:									Date		Time	Т	Custod	Labels on container(s) Custody seals on container(s)	a on c	r(s) ontain	er(s)		z z (2 ) (*)	za	~
		Time	Received by:									Date		Time	T	by by	Sample Hand Delivered by Sampler/Client Rep. ? by Courier? UPS	Deliv	ered nt Rep UPS	DHL	(F	A ()	Lone Sta	Star
	Date	Time	Received by ELC	Ten E	20	NV					9.16.11	Date	-	J.	30	empe	rature	Upon	Femperature Upon Receipt:	pt:	-	$\frac{1}{2}$	° C	0



. 1

### **XENCO** Laboratories

Atlanta, Boca Raton, Corpus Christi, Dallas

Houston, Miami, Odessa, Philadelphia

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

### Phoenix, San Antonio, Tampa

### Prelogin / Nonconformance Report - Sample Log-In

Client:	Yates Petroleum
Date/Time:	9.16.11 12:00
Lab ID # :	427797
Initials:	GIE

### Sample Receipt Checklist

1. Samples on ice?		Blue	Waters	No	
2. Shipping container in good condition?		Yes	No	None	
3. Custody seals intact on shipping container (cooler) and bottles2>		Yes	No	N/A	
4. Chain of Custody present?		Yes	No		
5. Sample instructions complete on chain of custody?		Yes	No		
6. Any missing / extra samples?		Yes	No		
7. Chain of custody signed when relinquished / received?		Yes	No		
8. Chain of custody agrees with sample label(s)?		Yes	No		
9. Container labels legible and intact?		Yes	No		
10. Sample matrix / properties agree with chain of custody?		(Yes)	No ·		
11. Samples in proper container / bottle?		Yes	No		
12. Samples properly preserved?		Yes	No	N/A	
13. Sample container intact?		(Tes)	No		
14. Sufficient sample amount for indicated test(s)?		Tes	No		
15. All samples received within sufficient hold time?		(Yes)	No		
16. Subcontract of sample(s)?		Yes	No	(NA)	
17. VOC sample have zero head space?		Yes	No	N/A >	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	c	Cooler 4 No.	•	Cooler 5 No.	
Ibs //O°C Ibs °C Ibs	°C	lbs	°C	lbs	°C

### Nonconformance Documentation

### Analytical Report 426704

for Yates Petroleum Corporation

**Project Manager: Jeremy Haass** 

Lotus 'ALT' State # 3

30-025-36005

08-SEP-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)

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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: AZ00989): Arizona (AZ0758)



08-SEP-11

Project Manager: Jeremy Haass Yates Petroleum Corporation 105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: 426704 Lotus 'ALT' State # 3 Project Address: Lea

### Jeremy Haass:

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 426704. 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. 426704 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 426704



### Yates Petroleum Corporation, Artesia, NM

Lotus 'ALT' State # 3

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Sample # 1	S	08-22-11 10:30	1 - 1 ft	426704-001
Sample # 2	S	08-22-11 10:45	1 - 1 ft	426704-002
Sample # 3	S	08-22-11 11:00	1 - 1 ft	426704-003
Sample # 4	S	08-22-11 11:20	1 - 1 ft	426704-004
Sample # 5	S	08-22-11 11:30	1 - 1 ft	426704-005



### CASE NARRATIVE

Client Name: Yates Petroleum Corporation Project Name: Lotus 'ALT' State # 3



 Project ID:
 30-025-36005

 Work Order Number:
 426704

Report Date: 08-SEP-11 Date Received: 08/30/2011

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-869198 BTEX by EPA 8021B SW8021BM

Batch 869198, 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data not confirmed by re-analysis Samples affected are: 426704-005.

Batch: LBA-869326 TPH By SW8015B Mod SW8015B\_NM

Batch 869326, C6-C10 Gasoline Range Hydrocarbons recovered below QC limits in the Blank Spike Duplicate however was within limits for the Blank Spike, therefore data is reported as is. Samples affected are: 426704-005, -003, -001, -002, -004.







Date Received in Lab: Tue Aug-30-11 09:45 am

Contact: Jeremy Haass

**Project Id: 30-025-36005** 

Report Date: 08-SEP-11

					ILL ITTC-00	1 1 - TTC-00	
Froject Location: Lea					Project Manager: 1	Brent Barron II	
	Lab Id:	426704-001	426704-002	426704-003	426704-004	426704-005	
£	Field Id:	Sample # 1	Sample # 2	Sample # 3	Sample # 4	Sample # 5	
Analysis Kequested	Depth:	1-1 ft	1-1 ft	1-1 ft	1-1 Ĥ	1-1 ft	
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sampled:	Aug-22-11 10:30	Aug-22-11 10:45	Aug-22-11 11:00	Aug-22-11 11:20	Aug-22-11 11:30	
BTEX by EPA 8021B	Extracted:	Sep-02-11 11:00	Sep-02-11 11:00	Sep-02-11 11:00	Sep-02-11 11:00	Sep-02-11 11:00	
	Analyzed:	Sep-02-11 13:07	Sep-03-11 03:10	Sep-03-11 03:33	Sep-03-11 03:56	Sep-03-11 04:19	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Benzene		ND 0.00108	ND 0.00101	ND 0.00107	ND 0.00112	ND 0.00102	
Toluene		ND 0.00216	ND 0.00203	ND 0.00214	ND 0.00223		
Ethylbenzene		ND 0.00108	0.00349 0.00101	ND 0.00107	ND 0.00112		
m p-Xylenes		ND 0.00216	0.0123 0.00203	ND 0.00214	ND 0.00223		
o-Xylene		ND 0.00108	0.00680 0.00101	ND 0.00107	ND 0.00112		
Total Xylcnes		ND 0.00108	0.0191 0.00101	ND 0.00107	ND 0.00112	0.0351 0.00102	
Total BTEX		ND 0.00108	0.0226 0.00101	ND 0.00107	ND 0.00112	0.0461 0.00102	
Percent Moisture	Extracted:						
	Analyzed:	Aug-30-11 11:45	Aug-30-11 11:45	Aug-30-11 11:45	Aug-30-11 11:45	Aug-30-11 11:45	
	Units/RL:	% RL	% RL	% RL	% RL	% RL	
Percent Moisture	A SA	7.57 1.00	1.49 1.00	7.13 1.00	10.7 1.00	3.37 1.00	
TPH By SW8015B Mod	Extracted:	Sep-01-11 13:40	Sep-01-11 13:40	Sep-01-11 13:40	Sep-01-11 13:40	Sep-01-11 13:40	
	Analyzed:	Sep-03-11 02:36	Sep-03-11 03:09	Sep-03-11 03:38	Sep-03-11 04:11	Sep-03-11 04:41	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
C6-C10 Gasoline Range Hydrocarbons		ND 16.2	ND 15.2	ND 16.1	ND 16.8	27.7 15.5	
C10-C28 Diesel Range Hydrocarbons		ND 16.2	ND 15.2	ND 16.1	ND 16.8		
Total TPH		ND 16.2	ND 15.2	ND 16.1	ND 16.8	530 15.5	

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 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 amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Odessa Laboratory Manager Brent Barron II

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Final 1.000



### **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
terretering the second state state and		

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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### Project Name: Lotus 'ALT' State # 3

Vork Orders: 426704				: 30-025-360	005	
Lab Batch #: 869198	Sample: 426704-001 / SMP	Batch				
Units: mg/kg	Date Analyzed: 09/02/11 13:07	SUI	RROGATE RE	COVERY S	STUDY	
BTEX	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0300	0.0300	100	80-120	
4-Bromofluorobenzene		0.0292	0.0300	97	80-120	
Lab Batch #: 869326	Sample: 426704-001 / SMP	Batch	n: 1 Matrix:	Soil		
Units: mg/kg	Date Analyzed: 09/03/11 02:36	SU	RROGATE RE	COVERY S	STUDY	
ТРН В	y SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	Analytes	80.7	99.7	81	70-135	entre service and service a
o-Terphenyl		41.9	49.9	84	70-135	
Lab Batch #: 869326	Sample: 426704-002 / SMP	Bate				
Units: mg/kg	Date Analyzed: 09/03/11 03:09		RROGATE RE		STUDY	
ТРН В	Sy SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes	Image: Image in the i			[D]	
1-Chlorooctane						
o-Terphenyl		41.7	50.0	83	70-135	
Lab Batch #: 869198	Sample: 426704-002 / SMP	Bate	h: <sup>1</sup> Matrix:	: Soil		
Units: mg/kg	Date Analyzed: 09/03/11 03:10	SU	RROGATE RI	ECOVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0300	0.0300	100	80-120	
4-Bromofluorobenzene		0.0301	0.0300	100	80-120	
Lab Batch #: 869198	Sample: 426704-003 / SMP	Batc	h: 1 Matrix	Soil		
Units: mg/kg	Date Analyzed: 09/03/11 03:33		RROGATE RI		STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0287	0.0300	96	80-120	
4-Bromofluorobenzene		0.0286	0.0300	95	80-120	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / BAll results are based on MDL and validated for QC purposes.



### Project Name: Lotus 'ALT' State # 3

ork Orders : 426704		Married and a star		<b>:</b> 30-025-36	005	
Lab Batch #: 869326	Sample: 426704-003 / SMP	Batch	n: 1 Matrix: RROGATE RE		TUDY	
Units: mg/kg	Date Analyzed: 09/03/11 03:38		RRUGATE RE	COVERYS		
ТРН Е	By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes		2851 29-	[D]		
1-Chlorooctane		86.2	99.5	87	70-135	
o-Terphenyl		43.9	49.8	88	70-135	
Lab Batch #: 869198	Sample: 426704-004 / SMP	Batcl	h: 1 Matrix:	Soil		
Units: mg/kg	Date Analyzed: 09/03/11 03:56	SU	RROGATE RE	<b>COVERY</b>	STUDY	
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene 4-Bromofluorobenzene		0.0258	0.0300	86	80-120	
		0.0251	0.0300	84	80-120	
Lab Batch #: 869326	Sample: 426704-004 / SMP	Bate				
Units: mg/kg	Date Analyzed: 09/03/11 04:11	SU	RROGATE RI	ECOVERY	STUDY	1
ТРН І	3y SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes	Image: Non-State         [D]           87.4         100         87         70-135           44.3         50.1         88         70-135				
1-Chlorooctane						
o-Terphenyl			70-135			
Lab Batch #: 869198	Sample: 426704-005 / SMP	Bate	h: 1 Matrix	:Soil		
Units: mg/kg	Date Analyzed: 09/03/11 04:19	SU	RROGATE R	ECOVERY	STUDY	
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0286	0.0300	95	80-120	
4-Bromofluorobenzene		0.0466	0.0300	155	80-120	*
Lab Batch #: 869326	Sample: 426704-005 / SMP	Batc				
Units: mg/kg	Date Analyzed: 09/03/11 04:41	SU	RROGATE R	ECOVERY	STUDY	
TPH	By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag
1-Chlorooctane		114	99.9	114	70-135	
o-Terphenyl		55.4	50.0	111	70-135	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / BAll results are based on MDL and validated for QC purposes.



### Project Name: Lotus 'ALT' State # 3

<b>ork Orders :</b> 426704,	EX. Service state and service active active	TK D		D: 30-025-360	005	
Lab Batch #: 869198 Units: mg/kg	Sample: 610915-1-BLK / B Date Analyzed: 09/02/11 12:45		h: 1 Matrix: RROGATE RE		STUDY	
	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1.1.0:01	Analytes					
1,4-Difluorobenzene 4-Bromofluorobenzene		0.0291	0.0300	97	80-120	
		0.0288	0.0300	96	80-120	
Lab Batch #: 869326	Sample: 610994-1-BLK / B	1				
Units: mg/kg	Date Analyzed: 09/03/11 02:06	SU	RROGATE RE	ECOVERY	STUDY	
ТРН В	By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		86.1	100	86	70-135	
o-Terphenyl		44.4	50.0	89	70-135	
Lab Batch #: 869198	Sample: 610915-1-BKS / B	KS Batel	h: 1 Matrix:	: Solid	ll	
Units: mg/kg	Date Analyzed: 09/02/11 11:13	Provide the second state of the	RROGATE RI		STUDY	
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0295	0.0300	98	80-120	
4-Bromofluorobenzene		0.0260	0.0300	87	80-120	
Lab Batch #: 869326	Sample: 610994-1-BKS / B		h: 1 Matrix			
Units: mg/kg	Date Analyzed: 09/03/11 01:03	SU	RROGATE RI	ECOVERY	STUDY	
ТРН В	By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		101	100	101	70-135	
o-Terphenyl		42.9	50.1	86	70-135	
Lab Batch #: 869198	Sample: 610915-1-BSD / B	BSD Bate	h: 1 Matrix	: Solid	denovementade provid	
Units: mg/kg	Date Analyzed: 09/02/11 11:36		RROGATE R		STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0308	0.0300	103	80-120	
4-Bromofluorobenzene		0.0288	0.0300	96	80-120	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / B

All results are based on MDL and validated for QC purposes.



### Project Name: Lotus 'ALT' State # 3

<b>Vork Orders :</b> 426704				<b>30-025-36</b>	005	
Lab Batch #: 869326	Sample: 610994-1-BSD / B		n: 1 Matrix: RROGATE RE		STUDY	
Units: mg/kg	Date Analyzed: 09/03/11 01:34 By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
l-Chlorooctane		96.2	99.9	96	70-135	
o-Terphenyl		40.5	50.0	81	70-135	
Lab Batch #: 869198	Sample: 426704-001 S / MS	S Batel	h: 1 Matrix:	:Soil		
Units: mg/kg	Date Analyzed: 09/02/11 14:16	SU	RROGATE RI	ECOVERY	STUDY	
BTE	X by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	Analytes	0.0308	0.0300	103	80-120	
4-Bromofluorobenzene		0.0306	0.0300	103	80-120	
Lab Batch #: 869326	Sample: 426704-001 S / M			L		
Units: mg/kg	Date Analyzed: 09/03/11 10:32	and the second se	RROGATE RI	-	STUDY	
	By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes		(-)	[D]		
1-Chlorooctane						
o-Terphenyl						
Lab Batch #: 869198	Sample: 426704-001 SD / 1	MSD Bate	h: 1 Matrix	:Soil		
Units: mg/kg	Date Analyzed: 09/02/11 14:39	SU	RROGATE RI	ECOVERY	STUDY	
BTE	X by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene		0.0305	0.0300	102	80-120	
4-Bromofluorobenzene		0.0322	0.0300	102	80-120	
Lab Batch #: 869326	Sample: 426704-001 SD / 1	MSD Batc	h: <sup>1</sup> Matrix	:Soil	1	
Units: mg/kg	Date Analyzed: 09/03/11 11:03		RROGATE R		STUDY	7.90 - Constant and a second
	By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	Contractor • 1 (2009)	102	99.5	103	70-135	
o-Terphenyl		40.8	49.8	82	70-135	

\* Surrogate outside of Laboratory QC limits

\*\* Surrogates outside limits; data and surrogates confirmed by reanalysis

\*\*\* Poor recoveries due to dilution

Surrogate Recovery [D] = 100 \* A / BAll results are based on MDL and validated for QC purposes.



## **BS / BSD Recoveries**



# Project Name: Lotus 'ALT' State # 3

Work Order #: 426704 Lab Batch ID: 869198 Units: mg/kg Analyst: ASA

Sample: 610915-1-BKS

Date Prepared: 09/02/2011 Batch #: 1

Project ID: 30-025-36005 Date Analyzed: 09/02/2011 Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

011113. 0 0											
BTEX by EPA 8021B	Blank Sample Result	Spike Added	Blank Spike Beent	Blank Spike %R	Spike Added	Blank Spike Dunlicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	K	[B]	lcl		[E]	Result [F]	[G]				
Benzene	<0.00100	0.100	0.115	115	0.100	0.118	118	3	70-130	35	
Toluene	<0.00200	0.100	0.101	101	0.100	0.105	105	4	70-130	35	
Ethylbenzene	<0.00100	0.100	0.110	110	0.100	0.115	115	4	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.222	III	0.200	0.231	116	4	70-135	35	
o-Xylene	<0.00100	0.100	0.100	100	0.100	0.106	106	6	71-133	35	
Analyst: BBH	Da	te Prepare	Date Prepared: 09/01/2011	_			Date A	Date Analyzed: 09/03/2011	9/03/2011		
Lab Batch ID: 869326 Sample: 610994-1-BKS	3KS	Batch #: 1	1 :#: 1					Matrix: Solid	olid		
Units: mg/kg		BLANI	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	PIKE / B	LANK S	PIKE DUPI	ICATE ]	RECOVE	RY STUD	Y	
TPH By SW8015B Mod	Blank Sample Result	Spike Added	Blank Spike	Blank Spike	Spike Added	Blank Spike	Blk. Spk Dup.	RPD	Control Limits	Control Limits	Flag
Апајутес	[¥]	[B]	Result [C]	%R [D]	[E]	Duplicate Result [F]	%R [G]	%	%R	%RPD	

Ч

35 35

70-135 70-135

4 4

68 78

678 784

71 81

706 814

1000 1000

C6-C10 Gasoline Range Hydrocarbons C10-C28 Diesel Range Hydrocarbons

Analytes

<15.0 <15.0

Added Ξ 666 666

Blank Spike Recovery [D] = 100\*(C)/[B] Blank Spike Duplicate Recovery [G] = 100\*(F)/[E] All results are based on MDL and Validated for QC Purposes Relative Percent Difference RPD = 200\* (C-F)/(C+F)

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# Form 3 - MS / MSD Recoveries





#: 426704	Lab Batch ID: 869198	Date Analyzed: 09/02/2011	ite. ma/ka
Work Order #: 426704	Lab Batch l	Date Analyz	Peparting Units: mg/kg

Project ID: 30-025-36005

QC- Sample ID: 426704-001 S Date Prepared: 09/02/2011

Matrix: Soil 1 ASA Batch #: Analyst:

Reporting Units: mg/kg		M	ATRIX SPIK	E / MATI	RIX SPII	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	TE RECO	<b>DVERY S</b>	TUDY		
BTEX by EPA 8021B	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes	[ <b>Y</b> ]	[B]		[0]			[6]				
Benzene	<0.00108	0.108	0.0882	82	0.108	0.0986	91	11	70-130	35	
Toluene	<0.00216	0.108	0.0792	73	0.108	0.0886	82	Π	70-130	35	
Ethylbenzene	<0.00108	0.108	0.0877	18	0.108	0.0977	90	11	71-129	35	
m_p-Xylenes	<0.00216	0.216	0.173	80	0.216	0.194	90	11	70-135	35	
o-Xylene	<0.00108	0.108	0.0794	74	0.108	0.0889	82	11	71-133	35	
Lab Batch ID: 869326 Date Analyzed: 09/03/2011	QC- Sample ID: 426704-001 S Date Prepared: 09/01/2011	426704-09/01/20	001 S 111	Bai An:	Batch #: Analyst: ]	l Matrix: Soil BBH	c: Soil				

									T A LAN A LAND		Γ
Reporting Units: mg/kg		A	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY	E / MATI	RIX SPII	KE DUPLICA	re reco	OVERY S	TUDY		
TPH Bv SW8015B Mod	Parent	1	Spiked Sample	Spiked	Cuilto	Duplicate Suited Semula	Spiked	uda	Control Limite	Control Limits	Flao
	Result	Added		%R	Added	Result [F]	%R	%	%R	%RPD	۵ ا
Analytes	[ <b>A</b> ]			ē	E		[G]				
C6-C10 Gasoline Range Hydrocarbons	<16.3	1090	810	74	1080	762	-71	6	70-135	35	
C10-C28 Diesel Range Hydrocarbons	<16.3	1090	988	91	1080	895	83	10	70-135	35	

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B Relative Percent Difference RPD = 200\*((C-F)/(C+F))

Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

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### Project Name: Lotus 'ALT' State # 3

### Work Order #: 426704

Lab Batch #: 868800				Project I	<b>D:</b> 30-025-3	6005
Date Analyzed: 08/30/2011 11:45	Date Prepar	ed: 08/30/2011	Anal	lyst:BRB		
QC- Sample ID: 426704-001 D	Batch	ı#: 1	Mat	rix: Soil		
Reporting Units: %		SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture		Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte			[B]			
Percent Moisture		7 57	7 12	6	20	

Spike Relative Difference RPD 200 \* | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST ti-20 East tax: 432-563-1800 Fax: 432-563-1713	Ъ		1.000		Report Format:	jhaass@yatespetroleum.com		Matrix	W= Groundwater S=Soil/Solid		S	S	S	S												
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XEN							(lab use only)	ORDER	(vino ezu dai) # 8	<b>∀</b> 7 \	56	20	12	27	6							Special Instructions:		Relinquished by	Relinquished by:	Relinquished by:



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### 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

 $\mathbf{a}$ 

client: Yates	Petroleum
Date/Time: 8.30	0.11 9:45
Lab ID #: 426704	1 / 426705
Initials:	0.8

### Sample Receipt Checklist

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

### Nonconformance Documentation

Contacted by: Contact: Date/Time:

Regarding:

Corrective Action Taken:

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 ÷.,

### Analytical Report 426705

for Yates Petroleum Corporation

**Project Manager: Jeremy Haass** 

Lotus 'ALT' State # 3

30-025-36005

08-SEP-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 (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 Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)



08-SEP-11

Project Manager: Jeremy Haass Yates Petroleum Corporation 105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: 426705 Lotus 'ALT' State # 3 Project Address: Lea

### Jeremy Haass:

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 426705. 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. 426705 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 426705



### Yates Petroleum Corporation, Artesia, NM

Lotus 'ALT' State # 3

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Sample # 1	S	08-22-11 10:30	1 - 1 ft	426705-001
Sample # 2	S	08-22-11 10:45	1 - 1 ft	426705-002
Sample # 3	S	08-22-11 11:00	1 - 1 ft	426705-003
Sample # 4	S	08-22-11 11:20	1 - 1 ft	426705-004
Sample # 5	S	08-22-11 11:30	1 - 1 ft	426705-005



Client Name: Yates Petroleum Corporation Project Name: Lotus 'ALT' State # 3



 Project ID:
 30-025-36005

 Work Order Number:
 426705

Report Date: 08-SEP-11 Date Received: 08/30/2011

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None



Project Id: 30-025-36005 Contact: Jeremy Haass

Certificate of Analysis Summary 426705 Yates Petroleum Corporation, Artesia, NM Project Name: Lotus 'ALT' State #3



: Tue Aug-30-11 09:45 am	. 00 SED 11
Date Received in Lab:	Danaut Data:

								Report I	Date: 0	Report Date: 08-SEP-11		
rroject Location: Lea								Project Man	ager: B	Project Manager: Brent Barron II		
	Lab Id:	426705-001	7	426705-002		426705-003	03	426705-004	)4	426705-005		
	Field Id:	Sample # 1		Sample # 2		Sample # 3	3	Sample # 4	4	Sample # 5		
Analysis Kequesiea	Depth:	1-1 Ĥ		1-1 A		1-1 Ĥ		1-1 Ĥ		1-1 Ĥ		
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		
	Sampled:	Aug-22-11 10:30		Aug-22-11 10:45		Aug-22-11 11:00	1:00	Aug-22-11 11:20	1:20	Aug-22-11 11:30	30	
Anions by E300	Extracted:											
8	Analyzed:	Sep-01-11 08:19		Sep-01-11 08:19	1000 A 110	Aug-31-11 18:04	8:04	Aug-31-11 18:04	8:04	Aug-31-11 18:04	:04	
	Units/RL:	mg/kg I	RL n	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		16700	182	111	8.53	17900	452	5520	94.1	407	8.69	
Percent Moisture	Extracted:											
	Analyzed:	Aug-30-11 11:45		Aug-30-11 11:45		Aug-30-11 11:45	1:45	Aug-30-11 11:45	1:45	Aug-30-11 11:45	:45	
	Units/RL:	I %	RL	%	RL	%	RL	%	RL	%	RL	
Percent Moisture		7.57 1	1.00	1.49	1.00	7.13	1.00	10.7	1.00	3.37	1.00	

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 unalytical report represent the best judgment of XENCO Laboratorics. XENCO Laboratorics assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Odessa Laboratory Manager Brent Barron II

Page 5 of 11

Final 1.000



### **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 NELAC Accreditation.

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(770) 449-8800	(770) 449-5477
(602) 437-0330	

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## **BS / BSD Recoveries**



# Project Name: Lotus 'ALT' State # 3

Sample: 868916-1-BKS Work Order #: 426705 Lab Batch ID: 868916 Units. mg/kg Analyst: BRB

Date Prepared: 08/31/2011

Batch #: 1

**Project ID:** 30-025-36005 Date Analyzed: 08/31/2011 Matrix: Solid

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	A
	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STU

Units: mg/kg											
Anions by E300	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[0]	[E]	Result [F]	[0]				
Chloride	<0.840	20.0	21.8	109	20.0	21.8	109	0	75-125	20	
Analyst: BRB	Da	te Prepare	Date Prepared: 09/01/2011	1			Date An	nalyzed: (	Date Analyzed: 09/01/2011		
Lab Batch ID: 869030 Sample: 869030-1-BKS	SKS	Batch #:	1 #: 1					Matrix: Solid	solid		
Units: mg/kg		BLAN	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY	PIKE / B	LANK S	PIKE DUPL	ICATE I	RECOVE	ERY STUD	Y	
Anions by E300	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Bik. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[0]	[E]	Result [F]	<u>[</u> ]				
Chloride	<0.840	20.0	22.6	113	20.0	22.4	112	-	75-125	20	

Relative Percent Difference RPD = 200\*((C-F)/(C+F) Blank Spike Recovery [D] = 100\*(C)/[B] Blank Spike Duplicate Recovery [G] = 100\*(F)/[E] All results are based on MDL and Validated for QC Purposes

Final 1.000





Project Name: Lotus 'ALT' State # 3

Work Order #: 426705								
Lab Batch #: 868916				Pro	oject ID:	30-025-360	05	
Date Analyzed: 08/31/2011	Date P	repared: 08/3	1/2011	А	nalyst: B	RB		
QC- Sample ID: 426772-001 S		Batch #: 1		I	Matrix: S	oil		
Reporting Units: mg/kg		MATR	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY	
Inorganic Anions by EPA 300		Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag	
Analytes		[A]	[B]	1.21				
Chloride		618	201	811	96	75-125		
Lab Batch #: 869030								
Date Analyzed: 09/01/2011	Date P	repared: 09/0	1/2011	А	analyst: B	RB		
QC- Sample ID: 426798-001 S		Batch #: 1 Matrix: Soil						
Reporting Units: mg/kg		MATE	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY	
Inorganic Anions by EPA 300 Analytes		Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag	
Chloride		382	215	647	123	75-125		

Matrix Spike Percent Recovery  $[D] = 100^{\circ}(C-A)/B$ Relative Percent Difference  $[E] = 200^{\circ}(C-A)/(C+B)$ All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit





### Project Name: Lotus 'ALT' State # 3

Work Order #: 426705					
Lab Batch #: 868916			Project I	<b>D</b> : <sup>30-025-3</sup>	6005
	epared: 08/31/2	011 Ana	alyst:BRB		
	Batch #: 1	Ma	trix: Soil		
Reporting Units: mg/kg	SAMPI	LE / SAMPLE	DUPLIC	ATE REC	OVERY
Anions by E300	Parent Sam Result [A]	ple Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Chloride	618	619	0	20	
Lab Batch #: 869030					
Date Analyzed: 09/01/2011 08:19 Date Pro	epared: 09/01/2	.011 <b>An</b> :	alyst:BRB		
QC- Sample ID: 426798-001 D	Batch #: 1	Ma	atrix: Soil		
Reporting Units: mg/kg	SAMPI	LE / SAMPLE	DUPLIC	ATE REC	OVERY
Anions by E300	Parent Sam Result [A]	Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Chloride	382	387	1	20	
Lab Batch #: 868800			114-14-14-14-14-14-14-14-14-14-14-14-14-		
Date Analyzed: 08/30/2011 11:45 Date Pre-	epared: 08/30/2	2011 An:	alyst:BRB		
QC- Sample ID: 426704-001 D E	Batch #: 1	Ma	atrix: Soil		
Reporting Units: %	SAMPI	LE / SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture Analyte	Parent Sam Result [A]	nple Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	7.57	7.12	6	20	

Spike Relative Difference RPD 200 \* | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

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Ŋ		Ē	30-(	Lea	103-	X Standard		TCLP:	TOTAL:	Anions (Cl, SO4, Alkalinity)												Laboratory Comments: Sample Containers Intact?	VOUS Free of headspace? Labels on container(s) Custody seals on container(s)	Sample Hand Delivered by Sampler/Client Rep.	Temperature Upon Receipt:
DAI		Project Name: Lotus 'ALT' State #3	Project #: 30-025-36005	Project Loc: Lea	PO #: 103-2636					Cations (Ca, Mg, Va, K)									_			San	S de s	San	
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<b>XENCO-Environmental Lab</b>		.: Jeremy Haass		SS:	Atocio NM 88210	FTE 740 4314			SOLUCIU/ 1		FIELD CODE Somulo #1	Campio #0	Sample #3	Sample #4	Sample #5						PLEASE PUT CHLORIDES	ON SEPARATE REPORT			
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### 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

2

Client: Ya	tes Ret	roleum
Date/Time:	8.30.11	9:45
Lab ID # : 42	26704 1	426705
Initials:	- Q	Ê

### Sample Receipt Checklist

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

### Nonconformance Documentation

\_\_\_\_\_

Contacted by:\_\_\_\_\_ Contact:

Date/Time:\_\_\_\_\_

Regarding:

Corrective Action Taken:

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 • .