

Analytical Report- 412343	12000 A. M. Profragge Machany	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL
Comp-00.5 A	North 1/2	4/11/2011	Comp/Shovel	6"	0.1730	22.5	147	169.5
Comp=00.5B	South 1/2	4/11/2011	Comp/Shovel	6"	1.8700	147	1600	1747
Analytical Reports 426016	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL
Comp-00.5 A	North 1/2	8/15/2011	Comp/Shovel	6"	0.0285	ND	984	984
Camp-00.5B	South 1/2	8/15/2011	Comp/Shovel	6"	0.0223	ND	1290	1290
Analytical Report- 431394	Sample/Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL
Comp-00.5 A	North 1/2	11/10/2011	Comp/Shovel	6"	0.2500	ND	598	598
Comp=00.5B	South 1/2	11/10/2011	Comp/Shovel	6"	0.0405	ND	402	402

Site Ranking is Ten (10). Depth to Ground Water >100' (approx. 480', per NMOSE).

Distance to Surface Water Body. 200-1000' horizontal feet. All results are ppm.



Mimosa Federal SWD #3-Y

30-015-29123

Section 4, T20S-R24E

Eddy County, NM

SAMPLE DIAGRAM(Not to Scale)

Xenco Laboratories# 412343 Report Date: 8/23/2011

Prepared by Robert Asher Environmental Regulatory Agent

Analytical Report 431394

for Yates Petroleum Corporation

Project Manager: Robert Asher
Mimosa Federal SWD # 3 Y
30-015-29123
21-NOV-11

Collected By: Client



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12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

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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)





21-NOV-11

Project Manager: Robert Asher Yates Petroleum Corporation 105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: 431394

Mimosa Federal SWD # 3 Y Project Address: Eddy County

Robert Asher:

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 431394. 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. 431394 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 431394



Yates Petroleum Corporation, Artesia, NM

Mimosa Federal SWD # 3 Y

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-00.5 A	S	11-10-11 10:30	6 - 6 In	431394-001
Comp-00.5 B	S	11-10-11 10:48	6 - 6 In	431394-002

CASE NARRATIVE



Client Name: Yates Petroleum Corporation Project Name: Mimosa Federal SWD # 3 Y



Project ID:

30-015-29123

Work Order Number: 431394

Report Date: 21-NOV-11 Date Received: 11/11/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-875130 BTEX by EPA 8021B

SW8021BM

Batch 875130, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is

suspected; data confirmed by re-analysis

Samples affected are: 431394-001,431394-002.

4-Bromofluorobenzene recovered below QC limits . Matrix interferences is suspected; data

confirmed by re-analysis

Samples affected are: 431394-002.

4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data

confirmed by re-analysis

Samples affected are: 431394-001.



Certificate of Analysis Summary 431394

Yates Petroleum Corporation, Artesia, NM

Project Name: Mimosa Federal SWD #3 Y



Project Id: 30-015-29123
Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Fri Nov-11-11 02:25 pm

Report Date: 21-NOV-11
Project Manager: Brent Barron II

				Trojectiv	Manager: Dient Barron	11
	Lab Id:	431394-001	431394-002			
Analysis Requested	Field Id:	Comp-00 5 A	Comp-00.5 B		•	
Anulysis Requesieu	Depth:	6-6 In	6-6 In			
	Matrix:	SOIL	SOIL			
	Sampled:	Nov-10-11 10:30	Nov-10-11 10:48			
BTEX by EPA 8021B	Extracted:	Nov-17-11 09·31	Nov-17-11 09:31			
	Analyzed:	Nov-17-11 17:51	Nov-17-11 18 14			
	Units/RL:	mg/kg RL	mg/kg RL			
Benzene		0 00822 0 00517	0 00927 0.00530			
Toluene		0 0192 0 0103	0.0110 0.0106			
Ethylbenzene		0.0178 0.00517	- ND 0 00530			
m_p-Xylenes		0 163 0.0103	0 0202 0 0106			
o-Xylene		0 0416 0 00517	ND 0.00530			
Total Xylenes		0 205 0 00517	0 0202 0 00530			
Total BTEX		0 250 0 00517	0 0405 0 00530			
Percent Moisture	Extracted:					
	Analyzed:	Nov-14-11 12:10	Nov-14-11 12.10			
	Units/RL:	% RL	% RL			
Percent Moisture		3 83 1 00	6.33 1.00			
TPH By SW8015B Mod	Extracted:	Nov-18-11 16:15	Nov-18-11 16:15			
	Analyzed:	Nov-19-11 14.22	Nov-19-11 14:53			
	Units/RL:	mg/kg RL	mg/kg RL			
C6-C10 Gasoline Range Hydrocarbons		ND 15.5	ND 15.9			
C10-C28 Diesel Range Hydrocarbons		598 15.5	402 15 9			
Total TPH		598 15.5	402 15.9			

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 hability is limited to the amount invoiced 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 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 quantiation 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.
- * Surrogate recovered outside laboratory control limit.
- 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. ^ NELAC or State program does not offer Accreditation at this time.

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5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
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3725 E. Atlanta Ave, Phoenix, AZ 85040	(602) 437-0330	

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Page 13 of 14

XENCO-Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East Odessa, Texas 79765

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

	Project Manager:	Robert Asher		·												Pr	ojec	t Nar	me:	Mir	mo	sa F	-ed	iera	ıl S	<u>WD</u>	<u> #</u> ?	3 Y		
	Company Name	Yates Petroleum Corpo	oration														Pı	rojec	:t #:	30-1	015	-2912	23_							
	Company Address:	105 South 4th Street													_	ſ	Proje	ect L	oc:	Edd	у Сог	unty								
	City/State/Zip:	Artesia, NM 88210													_			PC) #.	1056	632									
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AB # (lab use only)	FIE	LD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	fotal # of Containers	Ice	HNO ₃	HCI H2SO4	NaOH	Na ₂ S ₂ O ₃	None Other (Specify)	Outer (specify) DW≈Drinking Water SL=Sludge	GW = Groundwater S=Soii/Solid NP=Non-Potable Specify Other	TPH 4181 8015M 801	TX 1005	ΰl	Anions (Cl, SO4, Alkalinity)	/ CEC	Metals. As Ag Ba Cd Cr Pb Hg S Volatiles	Semivolatiles	BTEX 80218/5030 or BTEX 8260		NORM	Chlorides		ra-Schadula)	
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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 Repor	rt - Sampl	e Log-In		
client: Yates Petroleum				
Date/Time: 11:11:11 14.25				
Lab ID#: 43i394				
Initials: AE				
Sample Receipt Check	klist			
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?	(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?	Yee	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)?	Yes	No		
15. All samples received within sufficient hold time?	(Yes)	No		
16. Subcontract of sample(s)?	Yes	No	CNIA	
17. VOC sample have zero head space?	Yes	No	N/A	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 N	0.	Cooler 5 No.	
ibs 3.0 °C ibs °C ibs °C	C lbs	0,	C lbs	°င
Nonconformance Docume	entation			
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

Analytical Report 426016

for Yates Petroleum Corporation

Project Manager: Robert Asher
Mimosa Federal SWD # 3 Y
30-015-29123
24-AUG-11

Collected By: Client



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Xenco-Houston (EPA Lab code: TX00122):

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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)





24-AUG-11

Project Manager: Robert Asher Yates Petroleum Corporation 105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: 426016

Mimosa Federal SWD # 3 Y
Project Address: Eddy County

Robert Asher:

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 426016. 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.

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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 426016



Yates Petroleum Corporation, Artesia, NM

Mimosa Federal SWD # 3 Y

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-00.5 A	S	08-15-11 11:44	6 - 6 In	426016-001
Comp-00.5 B	S	08-15-11 11:55	6 - 6 In	426016-002

CASE NARRATIVE



Client Name: Yates Petroleum Corporation Project Name: Mimosa Federal SWD # 3 Y



 Project ID:
 30-015-29123
 Report Date:
 24-AUG-11

 Work Order Number:
 426016
 Date Received:
 08/18/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Final 1.000



Certificate of Analysis Summary 426016

Yates Petroleum Corporation, Artesia, NM

Project Name: Mimosa Federal SWD # 3 Y



Project Id: 30-015-29123
Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Thu Aug-18-11 09:20 am

Report Date: 24-AUG-11
Project Manager: Brent Barron II

		-				 Project Manager:	Breilt Barron II	
	Lab Id:	426016-0	01	426016-0	002			
Analysis Requested	Field Id:	Comp-00	5 A	Comp-00	.5 B			
Analysis Requesieu	Depth:	6-6 In	1	6-6 In				
	Matrix:	SOIL		SOIL				
	Sampled:	Aug-15-11 1	1:44	Aug-15-11	11 55			
BTEX by EPA 8021B	Extracted:	Aug-23-11	11.00	Aug-23-11	11.00			
	Analyzed:	Aug-23-11	17.48	Aug-23-11	18.11			
	Units/RL:	mg/kg	RL	mg/kg	RL			
Benzene		0 00307	0.00105	0 00114	0 00106			
Toluene		ND	0 00211	0 00254	0 00212			
Ethylbenzene		0 00178	0.00105	0 00107	0 00106			
m_p-Xylenes		0 0199	0 00211	0 0147	0 00212			
o-Xylene		0.00376	0 00105	0 00283	0 00106			
Total Xylenes		0 0237	0.00105	0 0175	0 00106			
Total BTEX		0 0285	0.00105	0 0223	0.00106			
Percent Moisture	Extracted:							
	Analyzed:	Aug-18-11	12 55	Aug-18-11	12.55			
	Units/RL:	%	RL	%	RL			
Percent Moisture		4 59	1 00	6.15	1 00			
TPH By SW8015B Mod	Extracted:	Aug-23-11 (08.15	Aug-23-11	08 15			
	Analyzed:	Aug-23-11	13.25	Aug-23-11	13:54			
	Units/RL:	mg/kg	RL	mg/kg	RL			
C6-C10 Gasoline Range Hydrocarbons		ND	78 5	ND	79.8			
C10-C28 Diesel Range Hydrocarbons		984	78.5	1290	79.8			
Total TPH		984	78.5	1290	79.8			

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.

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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 quantiation 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 analytic. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
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- 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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3725 E. Atlanta Ave, Phoenix, AZ 85040	(602) 437-0330	

Page 13 of 14

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:	Robert Asher															_	Pr	ojec	t Nar	ne: _	Viin	nos	a F	ede	<u>:ral</u>	SW	<u>/D</u>	<u>#3Y</u>			_
	Company Name	Yates Petrole	um Corporat	lion													_		Pı	rojec	t#: _	30-0)15-2	2912	3							_
	Company Address:	105 South 4th	n Street														_	ı	Proje	ect L	oc: E	Eddy	Cou	nty								
	City/State/Zip:	Artesia, NM	88210														_			P() #: <u>1</u>	1056	32									
	Telephone No.	575-748-4217	7				Fax No:	:	575	5-748	8-46	62					-	Repor	t Fo				itand	ard			TRRP			NPD	ES	_
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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

Client: 19165	Petroleur	m				
Date/Time: 819	11 9.3	R ひ				
Lab ID#:	126016					
Initials:	<u>96</u>					
		Sample Receipt	t Checklist			
1. Samples on ice?			Blu	ie Water	No	
2. Shipping container in	good condition?		(Ýe	s) No	None	
3. Custody seals intact o	n shipping contain	er (cooler) and bottles?	Ye	s No	N/A	
4. Chain of Custody pres	ent?		Ye	S No		
5. Sample instructions co	omplete on chain o	of custody?	(Ye	No		
6. Any missing / extra sa	mples?		Ye	s (No)		
7. Chain of custody sign	ed when relinquish	ed / received?	(Ýe	S No		
8. Chain of custody agre	es with sample lab	el(s)?	Ϋ́e	No No		
9. Container labels legib	e and intact?		∠Ye	S No		
10. Sample matrix / prop	erties agree with c	hain of custody?	Ye	No No		
11. Samples in proper co	ontainer / bottle?		, Ϋ́e	No No		
12. Samples properly pre	eserved?		(Ye	es) No	N/A	
13. Sample container int	act?		Ye	No No		
14. Sufficient sample am	ount for indicated	test(s)?	Ý	No No		
15. All samples received	within sufficient h	old time?	(Ye	No_		
16. Subcontract of samp	le(s)?		Υe	es No	NIA	
17. VOC sample have ze	ro head space?		(Ye	No_	N/A	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Coole	er 4 No.	Cooler 5 No.	
lbs 2.6 °C	lbs	°C lbs	°c	lbs °	C lbs	°c
Contact:		Nonconformance [on Date/Time:		
Contact	Contac	ted by:		Date/ Illie.	·	
Regarding:						
Corrective Action Taken	ı:					
Check all that apply:		has begun shortly after cceptable by NELAC 5.		and out of temp	erature	

Final 1 000

□ Initial and Backup Temperature confirm out of temperature conditions

☐ Client understands and would like to proceed with analysis

Analytical Report 412343

Yates Petroleum Corporation

Project Manager: Robert Asher

Mimosa Federal SWD #3 Y

30-015-29123

12-APR-11



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Texas (T104704215-10-6-TX), Arizona (AZ0738), 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-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)

Xenco-Boca Raton (EPA Lab Code: FL01273):

Florida(E86240), South Carolina(96031001), Louisiana(04154), Georgia(917) North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901):

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





12-APR-11

Project Manager: Robert Asher Yates Petroleum Corporation 105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: 412343

Mimosa Federal SWD # 3 Y Project Address: Eddy County

Robert Asher:

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 412343. 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. 412343 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 412343



Yates Petroleum Corporation, Artesia, NM

Mimosa Federal SWD # 3 Y

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-00.5 A	S	Apr-05-11 09:09	6 - 6 In	412343-001
Comp-00.5 B	S	Apr-05-11 09:27	6 - 6 In	412343-002

CASE NARRATIVE



Client Name: Yates Petroleum Corporation Project Name: Mimosa Federal SWD # 3 Y



Project ID:

30-015-29123

Work Order Number: 412343

Report Date: 12-APR-11 Date Received: 04/07/2011

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-851512 BTEX by EPA 8021B

SW8021BM

Batch 851512, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is

suspected; data confirmed by re-analysis

Samples affected are: 412343-002,412343-001.



Certificate of Analysis Summary 412343

Yates Petroleum Corporation, Artesia, NM

Project Name: Mimosa Federal SWD # 3 Y



Project Id: 30-015-29123 **Contact:** Robert Asher

Project Location: Eddy County

Date Received in Lab: Thu Apr-07-11 09:45 am

Report Date: 12-APR-11
Project Manager: Brent Barron, II

						 Project Manager:	Dient Barron, II	
	Lab Id:	412343-	001	412343-0	02			
Analysis Requested	Field Id:	Comp-00	.5 A	Comp-00.	5 B			
Analysis Requesieu	Depth:	6-6 Ir	1	6-6 In				
	Matrix:	SOIL		SOIL				
	Sampled:	Apr-05-11	09 09	Apr-05-11 (9.27			
BTEX by EPA 8021B	Extracted:	Apr-11-11	08:47	Apr-11-11 (08:47			
	Analyzed:	Apr-11-11	14.13	Apr-11-11	14:36			
	Units/RL:	mg/kg	RL	mg/kg	RL			
Benzene		0 00400	0 0010	0 00749	0 0010			
Toluene		0 00803	0 0020	0 309	0 0020			
Ethylbenzene		0.0217	0.0010	0 181	0 0010			
m_p-Xylenes		0 101	0 0020	1.03	0.0020			
p-Xylene		0.0386	0 0010	0 339	0 0010			
Total Xylenes		0.140	0 0010	1 37	0 0010			
Total BTEX		0.173	0 0010	1.87	0 0010			
Percent Moisture	Extracted:							
	Analyzed:	Apr-07-11	17.00	Apr-07-11	7.00			
ļ	Units/RL:	%	RL	%	RL			
Percent Moisture		1.17	1 00	ND	1.00			
TPH By SW8015B Mod	Extracted:	Apr-07-11	10 30	Apr-07-11	0.30			
	Analyzed:	Apr-08-11	16:47	Apr-08-11 1	7 17			
	Units/RL:	mg/kg	RL	mg/kg	RL			
C6-C10 Gasoline Range Hydrocarbons		22.5	15.2	147	15 0			
C10-C28 Diesel Range Hydrocarbons		1000	15.2	1600	15.0			
Total TPH		1020	15.2	1750	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 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.

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Brent Barron, II Odessa Laboratory Manager



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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: 1	Robert Asher			_												Pro	oject	Naı	me:	IAHIU	105	a F	<u>ea</u> e	era!	<u> 5</u> v	עע	#3	<u>_</u>	
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	Company Address.	105 South 4th S	freet													_	F	roje	ct L	oc:_	Eddy	Cour	nly		_					
	City/State/Zip	Artesia, NM 88	210													_			PC) #: <u>_</u>	1058:	32								
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LAB # (lab use only)	FIELD	O CODE_		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Fig1d F tered	Total# of Containers	eol	HNO ₃	HCI NO	NaCH	Va2S_O,	Nora Other (Specify)	DW Dirking Warer Sc=Surge	GW = Gramowater S=SourSolid NP=Non-Porable Specify Other	418 1 8015M	TPH TX :005 TX 1356		Anions (Cl. SO4, Alkalinity) SAR / ESP / CEC	Meta's 4s 4g Ba Cd Cr Pb Hg So	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	- 16	NOR W	Caldinaes		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs Standard TAT
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02	Comp	-00.5 B	·	6"	6"	4/5/2011	9:27 AM	$oldsymbol{oldsymbol{oldsymbol{oldsymbol{eta}}}$	1	x	_	\perp	4				\$_	Х		_	\bot	\perp	igsqcut		Х	4	_	\perp		X
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Relinquisi	ned by		Date	Time Received by							Da	Date Time				VOCs Free of Headspace? Labels on container(s) Custody seals on container(s) N														
Robert A		PC	04/06/11		7 PM		<u>.</u>							_				a		Custo	ody s	eals (on co	ooler((s)	زذ	1) [N N
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XENCO Laboratories

Atfanta, 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

Hient: Jala				
ate/Time: 4/7/11 9:45				
ab 10#: , 412343				
itials: 7 T				
Sample Receipt Chec	cklist			
Samples on ice?	Blue	Water)	No	· · · · ·
Shipping container in good condition?	Yes	No	None	
. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	N/A	
. Chain of Custody present?	Yes	No		
Sample instructions complete on chain of custody?	Yes	No		
. Any missing / extra samples?	Yes	No		
. Chain of custody signed when relinquished / received?	(PSE)	No		
Chain of custody agrees with sample label(s)?	Yes	No		
. Container labels legible and intact?	Yes	No		
Sample matrix / properties agree with chain of custody?	Yes	No ·		
1. Samples in proper container / bottle?	Yes	No		
2. Samples properly preserved?	Yes	No	N/A	
3. Sample container intact?	Yes	No_		
4. Sufficient sample amount for indicated test(s)?	Yes	No		
5. All samples received within sufficient hold time?	Yes	No		
6. Subcontract of sample(s)?	Yes	No	(N/A)	
17. VOC sample have zero head space?	(Yes	No	N/A	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 No.		Cooler 5 No.	
ibs 4 °C ibs °C ibs	°C lbs	<u>°c</u>	ibs	
Nonconformance Docur	nentation	_		
Contact:Contacted by:		ate/Time:_		
Regarding:				
Corrective Action Taken:				
	 			
Check all that apply: Cooling process has begun shortly after sample	ling areat and a	e of tempo	estura.	
condition acceptable by NELAC 5.5.8.3.1.		n or write	idmic	-

Final 1 000

Cilent understands and would like to proceed with analysis