

Analytical Report 412343	Sample Area	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-00.5 B	South 1/2	4/11/2011	Comp/Shovel	6"	1.8700	147	1600	1747
Analytical Report 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
Comp-00.5 B	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-00.5 B	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

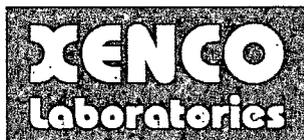
Project Manager: Robert Asher

Mimosa Federal SWD # 3 Y

30-015-29123

21-NOV-11

Collected By: Client



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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

<i>Analysis Requested</i>	<i>Lab Id:</i>	431394-001	431394-002				
	<i>Field Id:</i>	Comp-00 5 A	Comp-00.5 B				
	<i>Depth:</i>	6-6 In	6-6 In				
	<i>Matrix:</i>	SOIL	SOIL				
	<i>Sampled:</i>	Nov-10-11 10:30	Nov-10-11 10:48				
BTEX by EPA 8021B	<i>Extracted:</i>	Nov-17-11 09:31	Nov-17-11 09:31				
	<i>Analyzed:</i>	Nov-17-11 17:51	Nov-17-11 18 14				
	<i>Units/RL:</i>	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	<i>Extracted:</i>						
	<i>Analyzed:</i>	Nov-14-11 12:10	Nov-14-11 12.10				
	<i>Units/RL:</i>	% RL	% RL				
Percent Moisture		3.83 1.00	6.33 1.00				
TPH By SW8015B Mod	<i>Extracted:</i>	Nov-18-11 16:15	Nov-18-11 16:15				
	<i>Analyzed:</i>	Nov-19-11 14:22	Nov-19-11 14:53				
	<i>Units/RL:</i>	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 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 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.

* 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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	(602) 437-0330	



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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: 11.11.11 14.25
 Lab ID #: 431374
 Initials: AE

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?	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?	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	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.
lbs 3.0 °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

Analytical Report 426016

for Yates Petroleum Corporation

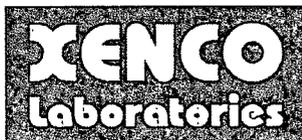
Project Manager: Robert Asher

Mimosa Federal SWD # 3 Y

30-015-29123

24-AUG-11

Collected By: Client



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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)
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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)

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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.

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. 426016 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 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

Work Order Number: 426016

Report Date: 24-AUG-11

Date Received: 08/18/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analysis Summary 426016

Yates Petroleum Corporation, Artesia, NM

Project Name: Mimososa 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

Analysis Requested	Lab Id:	426016-001	426016-002				
	Field Id:	Comp-00 5 A	Comp-00.5 B				
	Depth:	6-6 In	6-6 In				
	Matrix:	SOIL	SOIL				
	Sampled:	Aug-15-11 11:44	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 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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(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	



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 Houston, Miami, Odessa, Philadelphia
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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: 8.19.11 9.20
 Lab ID #: 426016
 Initials: AE

Sample Receipt Checklist

1. Samples on ice?	Blue	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)?	Yes	No	<input checked="" type="radio"/> N/A	
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 2.6 °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

Analytical Report 412343

for

Yates Petroleum Corporation

Project Manager: Robert Asher

Mimosa Federal SWD # 3 Y

30-015-29123

12-APR-11



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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):

Arizona(AZ0757), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816)

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

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

<i>Analysis Requested</i>	<i>Lab Id:</i>	412343-001	412343-002				
	<i>Field Id:</i>	Comp-00.5 A	Comp-00.5 B				
	<i>Depth:</i>	6-6 In	6-6 In				
	<i>Matrix:</i>	SOIL	SOIL				
	<i>Sampled:</i>	Apr-05-11 09 09	Apr-05-11 09.27				
BTEX by EPA 8021B	<i>Extracted:</i>	Apr-11-11 08:47	Apr-11-11 08:47				
	<i>Analyzed:</i>	Apr-11-11 14:13	Apr-11-11 14:36				
	<i>Units/RL:</i>	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				
o-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	<i>Extracted:</i>						
	<i>Analyzed:</i>	Apr-07-11 17:00	Apr-07-11 17:00				
	<i>Units/RL:</i>	% RL	% RL				
Percent Moisture		1.17 1.00	ND 1.00				
TPH By SW8015B Mod	<i>Extracted:</i>	Apr-07-11 10:30	Apr-07-11 10:30				
	<i>Analyzed:</i>	Apr-08-11 16:47	Apr-08-11 17:17				
	<i>Units/RL:</i>	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



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 effect the recovery of the spike concentration. This condition could also effect 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 MQL and above the SQL.
- 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
- PQL** Practical Quantitation Limit

* Outside XENCO's scope of NELAC Accreditation.

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9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
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
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116



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: 4/7/11 9:45
 Lab ID #: 412343
 Initials: ZH

Sample Receipt Checklist

	Blue	Water	No	
1. Samples on ice?	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	
2. Shipping container in good condition?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
3. Custody seals intact on shipping container (cooler) and bottles?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
4. Chain of Custody present?	<input checked="" type="radio"/>	<input type="radio"/>		
5. Sample instructions complete on chain of custody?	<input checked="" type="radio"/>	<input type="radio"/>		
6. Any missing / extra samples?	<input type="radio"/>	<input checked="" type="radio"/>		
7. Chain of custody signed when relinquished / received?	<input checked="" type="radio"/>	<input type="radio"/>		
8. Chain of custody agrees with sample label(s)?	<input checked="" type="radio"/>	<input type="radio"/>		
9. Container labels legible and intact?	<input checked="" type="radio"/>	<input type="radio"/>		
10. Sample matrix / properties agree with chain of custody?	<input checked="" type="radio"/>	<input type="radio"/>		
11. Samples in proper container / bottle?	<input checked="" type="radio"/>	<input type="radio"/>		
12. Samples properly preserved?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
13. Sample container intact?	<input checked="" type="radio"/>	<input type="radio"/>		
14. Sufficient sample amount for indicated test(s)?	<input checked="" type="radio"/>	<input type="radio"/>		
15. All samples received within sufficient hold time?	<input checked="" type="radio"/>	<input type="radio"/>		
16. Subcontract of sample(s)?	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	
17. VOC sample have zero head space?	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs 4 °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