

**Bratcher, Mike, EMNRD**

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**From:** Bratcher, Mike, EMNRD  
**Sent:** Tuesday, August 30, 2011 3:20 PM  
**To:** 'Bob Asher'  
**Cc:** Jerry Fanning  
**Subject:** RE: Mimosa Federal SWD #3-Y

Bob,

We probably need to discuss this one. The sample data from 4/11 compared to sample data from 8/15 shows sample point A has higher TPH values. It went from 169.5 mg/kg to 984 mg/kg. Sample point B has gone down some, but is still above RRAL closure limits for a 10 point site ranking.

***Mike Bratcher***

NMOCD District 2  
811 S. First Street  
Artesia, NM 88210  
575-748-1283 Ext. 108  
575-626-0857  
[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)

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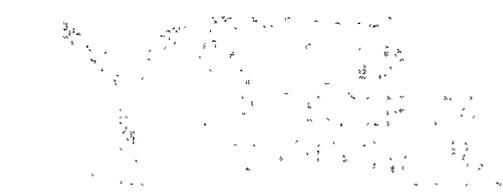
**From:** Bob Asher [<mailto:BobA@yatespetroleum.com>]  
**Sent:** Monday, August 29, 2011 1:19 PM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** Jerry Fanning  
**Subject:** Mimosa Federal SWD #3-Y

Mike,

Attached are sampling results at the captioned location. Per the 4/15/2011 work plan, alternating application of Micro Blaze solution and nitrogen fertilizer with water has been applied; last application was of Micro Blaze and an application of fertilizer with water on August 9, 2011. I would like to request these results be accepted for closure.

If you have any questions, please call me.

Thank you.



**Robert Asher**  
**Senior Environmental Regulatory Agent**

**Yates Petroleum Corporation**

**575-748-4217 (Direct)**

**575-365-4021 (Cell)**

**[boba@yatespetroleum.com](mailto:boba@yatespetroleum.com)**

**Bratcher, Mike, EMNRD**

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**From:** Bob Asher [BobA@yatespetroleum.com]  
**Sent:** Monday, August 29, 2011 1:19 PM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** Jerry Fanning  
**Subject:** Mimosa Federal SWD #3-Y  
**Attachments:** Mimosa Federal SWD #3-Y.pdf

Mike,

Attached are sampling results at the captioned location. Per the 4/15/2011 work plan, alternating application of Micro Blaze solution and nitrogen fertilizer with water has been applied; last application was of Micro Blaze and an application of fertilizer with water on August 9, 2011. I would like to request these results be accepted for closure.

If you have any questions, please call me.

Thank you.



**Robert Asher**

**Senior Environmental Regulatory Agent**  
**Yates Petroleum Corporation**  
575-748-4217 (Direct)  
575-365-4021 (Cell)  
[boba@yatespetroleum.com](mailto:boba@yatespetroleum.com)

# 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):

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)

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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

<b>Sample Id</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Sample Depth</b>	<b>Lab Sample Id</b>
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*

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**Sample receipt non conformances and comments:**  
*None*

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**Sample receipt non conformances and comments per sample:**  
*None*



# Certificate of Analysis Summary 426016

Yates Petroleum Corporation, Artesia, NM



Project Id: 30-015-29123

Contact: Robert Asher

Project Location: Eddy County

Project Name: Mimosa Federal SWD # 3 Y

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

Report Date: 24-AUG-11

Project Manager: Brent Barron II

<i>Analysis Requested</i>	<i>Lab Id:</i>	426016-001	426016-002				
	<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>	Aug-15-11 11:44	Aug-15-11 11:55				
<b>BTEX by EPA 8021B</b>	<i>Extracted:</i>	Aug-23-11 11:00	Aug-23-11 11:00				
	<i>Analyzed:</i>	Aug-23-11 17:48	Aug-23-11 18:11				
	<i>Units/RL:</i>	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-Xylenes		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				
<b>Percent Moisture</b>	<i>Extracted:</i>						
	<i>Analyzed:</i>	Aug-18-11 12:55	Aug-18-11 12:55				
	<i>Units/RL:</i>	%    RL	%    RL				
Percent Moisture		4.59    1.00	6.15    1.00				
<b>TPH By SW8015B Mod</b>	<i>Extracted:</i>	Aug-23-11 08:15	Aug-23-11 08:15				
	<i>Analyzed:</i>	Aug-23-11 13:25	Aug-23-11 13:54				
	<i>Units/RL:</i>	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.

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

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      **SQL** 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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# 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

Project Name: Mimosa Federal SWD #3Y

Company Name: Yates Petroleum Corporation

Project #: 30-015-29123

Company Address: 105 South 4th Street

Project Loc: Eddy County

City/State/Zip: Artesia, NM 88210

PO #: 105632

Telephone No: 575-748-4217

Fax No: 575-748-4662

Report Format:  Standard  TRRP  NPDES

Sampler Signature: *Robert Asher*

e-mail: boba@yatespetroleum.com

LAB # (lab use only)		FIELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers							Matrix	Analyze For:																			
										Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> SO <sub>3</sub>	None	Other (Specify)	DW-Drinking Water SL- Sludge	GW - Groundwater S-Sol/Solid	NP-Non-Petroleum Specify Other	TPH: 4181 8015M 8015B	TPH TX 1005 TX 1006	Cellulose (Ca, Mg, Na, K)	Anions (Cl, SO <sub>4</sub> , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 826D	FCI	N O I R M	Chlorides	RUSH TAT (Per-Schedule) 24, 48, 72 hrs	Standard TAT			
01		Comp-00.5 A		6"	6"	8/15/2011	11:44 AM	1	X									S			X																X
02		Comp-00.5 B		6"	6"	8/15/2011	11:55 AM	1	X									S			X																X

Special Instructions: **TPH: 8015B & BTEX: 8021B. Please show BTEX results as mg/kg. Thank you.**

Relinquished by:	Date	Time	Received by:	Date	Time
Robert Asher <i>RF A/WPC</i>	08/17/11	2:12 PM			
Relinquished by:	Date	Time	Received by:	Date	Time
FedEx			Michael Elam	8-18-11	9:20

Laboratory Comments:  
 Sample Containers Intact?  N  
 VOCs Free of Headspace?  N  
 Labels on container(s)  N  
 Custody seals on container(s)  N  
 Custody seals on cooler(s)  N  
 Sample Hand Delivered by Sampler/Client Rep. ?  N  
 by Carrier?  UPS  DHL  FedEx  Lone Star  
 Temperature upon Receipt: 40z glass 26 °C



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

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

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

Client: Yates Petroleum  
 Date/Time: 8.19.11 9.20  
 Lab ID #: 426016  
 Initials: QE

**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 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