

Bratcher, Mike, EMNRD

From: Bratcher, Mike, EMNRD
Sent: Thursday, September 22, 2011 1:17 PM
To: 'Amber Cannon'
Cc: Bob Asher
Subject: RE: Graham AKB State #8

Reference: Yates Petroleum * Graham AKB St 8 * 30-015-31913 * E-2-22s-31e * Eddy County, New Mexico
DOR: 8/7/11 * 2RP-875

Amber,

My thanks to you and Bob for meeting with me this morning to discuss the Loving AIB site, and the above referenced Graham site. In regard to the Graham site, as discussed, OCD would prefer to have the soils in the area identified in yellow on your chart, excavated and hauled to disposal, through the 3' interval. Your alternative proposal to remove a portion of the impacted soils (2' across the impacted area) and then blend remaining impacted material with clean soil would be approved with the condition that the blended material provide 4' of soil with chloride levels that would be conducive to re-vegetation of native plants in the area.

If you have any questions or concerns, please contact me.

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

From: Amber Cannon [<mailto:ACannon@yatespetroleum.com>]
Sent: Wednesday, September 21, 2011 9:41 AM
To: Bratcher, Mike, EMNRD
Cc: Bob Asher
Subject: Graham AKB State #8

Mike,

The following analytical results are for your review. Yates originally sampled the release area on 8/12/2011. At this time, the release area was split into sections "A" and "B". The BTEX/TPH results came back within limits for section "A", but the Chlorides were still high. I returned to the site 9/13/2011 and sampled section "A" for Chloride delineation. Section "B" TPH/BTEX/Chlorides were at acceptable levels after the first sampling date and further sampling was not conducted on second visit. If these results are acceptable, Yates would like to then request closure.

Please call me if you have any questions.

Graham AKB State #8

Analytical Report- 425794 & 425795	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Comp-01 0A	Release Area	8/12/2011	Comp/Auger	1'	3.29	203	1020	1220	4,470
Comp-02.0A	Release Area	8/12/2011	Comp/Auger	2'	0.204	64.2	632	696	5,360
Comp-03.0A	Release Area	8/12/2011	Comp/Auger	3'	ND	ND	106	106	5,560
Comp-01 0B	Release Area	8/12/2011	Comp/Auger	1'	ND	ND	296	296	942
Comp-02.0B	Release Area	8/12/2011	Comp/Auger	2'	ND	ND	55.1	55.1	218
Analytical Report- 427563	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Grab-04.0	Release Area	9/13/2011	Grab/Backhoe	4'	ANALYSIS NOT CONDUCTED AS YATES WAS IN LIMITS FROM FIRST SAMPLES TAKEN 8/12/2011				1,780
Grab-05.0	Release Area	9/13/2011	Grab/Backhoe	5'					39.9
Grab-06.0	Release Area	9/13/2011	Grab/Backhoe	6'					7.7

Site Ranking is ZERO (0). Depth to Ground Water >100' (approx. 124').

All results are ppm. Chlorides for documentation. **X - Sample**

Points

Released: 0 B/PW, 6 B/O; Recovered: 0 B/PW, 0 B/O. Release Date:
8/7/2011

Thank you.

Amber Cannon
Environmental Regulatory Agent
Yates Petroleum Corporation
Office: (575) 748-4111
Cell: (575) 513-8799
acannon@yatespetroleum.com

Bratcher, Mike, EMNRD

From: Amber Cannon [ACannon@yatespetroleum.com]
Sent: Wednesday, September 21, 2011 9:41 AM
To: Bratcher, Mike, EMNRD
Cc: Bob Asher
Subject: Graham AKB State #8
Attachments: GrahamAKBState8_SampleResults.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Mike,

The following analytical results are for your review. Yates originally sampled the release area on 8/12/2011. At this time, the release area was split into sections "A" and "B". The BTEX/TPH results came back within limits for section "A", but the Chlorides were still high. I returned to the site 9/13/2011 and sampled section "A" for Chloride delineation. Section "B" TPH/BTEX/Chlorides were at acceptable levels after the first sampling date and further sampling was not conducted on second visit. If these results are acceptable, Yates would like to then request closure.

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Graham AKB State #8

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Grab-06.0	Release Area	9/13/2011	Grab/Backhoe	6'					7.7

Site Ranking is ZERO (0). Depth to Ground Water >100' (approx. 124').

All results are ppm. Chlorides for documentation. **X - Sample**

Points

Released: 42 B/PW, 6 B/O; Recovered: 0 B/PW, 0 B/O. Release Date:
8/7/2011

Thank you.

Amber Cannon
Environmental Regulatory Agent

Yates Petroleum Corporation
Office: (575) 748-4111
Cell: (575) 513-8799
acannon@yatespetroleum.com

Analytical Report 425794

for
Yates Petroleum Corporation

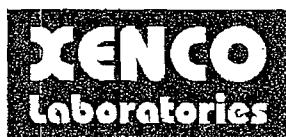
Project Manager: Amber Cannon

Graham AKB State # 8

30-015-31913

24-AUG-11

Collected By: Client



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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 (LAC00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

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Louisiana (04176), USDA (P330-07-00105)

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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)



24-AUG-11

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

Reference: XENCO Report No: 425794
Graham AKB State # 8
Project Address: Eddy County

Amber Cannon:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 425794. 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. 425794 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 425794



Yates Petroleum Corporation, Artesia, NM

Graham AKB State # 8

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-01.0 A	S	08-12-11 11:27	1 - 1 ft	425794-001
Comp-02.0 A	S	08-12-11 11:54	2 - 2 ft	425794-002
Comp-03.0 A	S	08-12-11 12:33	3 - 3 ft	425794-003
Comp-01.0 B	S	08-12-11 13:17	1 - 1 ft	425794-004
Comp-02.0 B	S	08-12-11 13:37	2 - 2 ft	425794-005



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Graham AKB State # 8



Project ID: 30-015-31913

Work Order Number: 425794

Report Date: 24-AUG-11

Date Received: 08/16/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-867727 TPH By SW8015B Mod
SW8015B_NM

Batch 867727, 1-Chlorooctane recovered above QC limits Data not confirmed by re-analysis.
Samples affected are: 610130-1-BKS, 610130-1-BLK, 610130-1-BSD, 425870-001 SD.

SW8015B_NM

Batch 867727, C10-C28 Diesel Range Hydrocarbons recovered below QC limits in the Matrix
Spike.

Samples affected are: 425794-003, -004, -002, -001, -005.

The Laboratory Control Sample for C10-C28 Diesel Range Hydrocarbons is within laboratory
Control Limits

Batch: LBA-867872 BTEX by EPA 8021B
SW8021BM

Batch 867872, 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is
suspected; data not confirmed by re-analysis

Samples affected are: 425689-001 S, 425689-001 SD.

SW8021BM

Batch 867872, Benzene, Ethylbenzene, Toluene, m_p-Xylenes, o-Xylene recovered below QC
limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 425794-004, -005.

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



CASE NARRATIVE

Client Name: Yates Petroleum Corporation
Project Name: Graham AKB State # 8



Project ID: 30-015-31913
Work Order Number: 425794

Report Date: 24-AUG-11
Date Received: 08/16/2011

Batch: LBA-868086 BTEX by EPA 8021B
SW8021BM

Batch 868086, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 425794-001.

4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 425794-002,425794-001.



Certificate of Analysis Summary 425794

Yates Petroleum Corporation, Artesia, NM

Project Name: Graham AKB State # 8



Project Id: 30-015-31913

Contact: Amber Cannon

Project Location: Eddy County

Date Received in Lab: Tue Aug-16-11 09:50 am


Report Date: 24-AUG-11

Project Manager: Brent Barron II

Analysis Requested	Lab Id:	425794-001	425794-002	425794-003	425794-004	425794-005	
	Field Id:	Comp-01.0 A	Comp-02.0 A	Comp-03.0 A	Comp-01.0 B	Comp-02.0 B	
	Depth:	1-1 ft	2-2 ft	3-3 ft	1-1 ft	2-2 ft	
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sampled:	Aug-12-11 11:27	Aug-12-11 11:54	Aug-12-11 12:33	Aug-12-11 13:17	Aug-12-11 13:37	
BTEx by EPA 8021B	Extracted:	Aug-23-11 11:00	Aug-23-11 11:00	Aug-23-11 11:00	Aug-19-11 16:00	Aug-19-11 16:00	
	Analyzed:	Aug-23-11 19:20	Aug-23-11 15:54	Aug-23-11 16:17	Aug-20-11 05:25	Aug-20-11 05:48	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
		0.0223 0.0205	ND 0.00106	ND 0.00103	ND 0.00103	ND 0.00102	
Benzene		0.0223 0.0205	ND 0.00106	ND 0.00103	ND 0.00103	ND 0.00102	
Toluene		0.0497 0.0409	ND 0.00212	ND 0.00207	ND 0.00206	ND 0.00205	
Ethylbenzene		0.642 0.0205	0.0326 0.00106	ND 0.00103	ND 0.00103	ND 0.00102	
m,p-Xylenes		2.02 0.0409	0.111 0.00212	ND 0.00207	ND 0.00206	ND 0.00205	
o-Xylene		0.559 0.0205	0.0602 0.00106	ND 0.00103	ND 0.00103	ND 0.00102	
Total Xylenes		2.58 0.0205	0.171 0.00106	ND 0.00103	ND 0.00103	ND 0.00102	
Total BTEx		3.29 0.0205	0.204 0.00106	ND 0.00103	ND 0.00103	ND 0.00102	
Percent Moisture	Extracted:	Aug-16-11 11:15	Aug-16-11 11:15	Aug-16-11 11:15	Aug-16-11 11:15	Aug-16-11 11:15	
	Analyzed:	Aug-16-11 11:15	Aug-16-11 11:15	Aug-16-11 11:15	Aug-16-11 11:15	Aug-16-11 11:15	
	Units/RL:	% RL	% RL	% RL	% RL	% RL	
		3.03 1.00	5.26 1.00	3.02 1.00	3.20 1.00	1.88 1.00	
Percent Moisture		3.03 1.00	5.26 1.00	3.02 1.00	3.20 1.00	1.88 1.00	
TPH By SW8015B Mod	Extracted:	Aug-17-11 16:00	Aug-17-11 16:00	Aug-17-11 16:00	Aug-17-11 16:00	Aug-17-11 16:00	
	Analyzed:	Aug-18-11 12:34	Aug-18-11 13:02	Aug-18-11 13:30	Aug-18-11 13:59	Aug-18-11 14:27	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
		203 15.5	64.2 15.8	ND 15.5	ND 15.5	ND 15.3	
C6-C10 Gasoline Range Hydrocarbons		203 15.5	64.2 15.8	ND 15.5	ND 15.5	ND 15.3	
C10-C28 Diesel Range Hydrocarbons		1020 15.5	632 15.8	106 15.5	296 15.5	55.1 15.3	
Total TPH		1220 15.5	696 15.8	106 15.5	296 15.5	55.1 15.3	

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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5757 NW 158th St, Miami Lakes, FL 33014
12600 West I-20 East, Odessa, TX 79765
6017 Financial Drive, Norcross, GA 30071
3725 E. Atlanta Ave, Phoenix, AZ 85040

Phone	Fax
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(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

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

Project Manager: Amber Cannon

Project Name: **Graham AKB State #8**

Company Name Yates Petroleum Corporation

Project #: 30-015-31913

Company Address: 105 South 4th Street

Project Loc: Eddy County

City/State/Zip: Artesia, NM 88210

PO #: 1032020

Telephone No: 575-748-4111

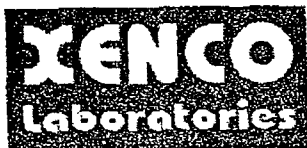
Fax No: 575-748-4585

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Imber Cannon

e-mail: acannon@yatespetroleum.com

(lab use only)																									
ORDER #: 425794 / 425795																									
LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Preservation & # of Containers						Matrix												
							Total # of Containers	H ₂ O	HNO ₃	HCl	H ₂ SO ₄	NaOH	NaHSO ₄	None	Other (Specify)	DW-Drinking Water	SL-Sludge	GW - Groundwater	S-SemiSolid	NP=Non-Petroleum	Specify Other				
							TPH: 41B 1	B015M	B015B	TPH: TX 1005	TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR : ESP / CEC	Metals As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/8030 or BTEX 8200	PCI	NORM	Chlorides	RUSH TAT (Per Schedule) 24, 48, 72 hrs	Standard TAT		
01	Comp-01.0 A	1'	1'	8/12/2011	11:27 AM	1	X								S	X			X		X			X	
02	Comp-02.0 A	2'	2'	8/12/2011	11:54 AM	1	X								S	X			X		X			X	
03	Comp-03.0 A	3'	3'	8/12/2011	12:33 PM	1	X								S	X			X		X			X	
04	Comp-01.0 B	1'	1'	8/12/2011	1:17 PM	1	X								S	X			X		X			X	
05	Comp-02.0 B	2'	2'	8/12/2011	1:37 PM	1	X								S	X			X		X			X	
PLEASE PUT CHLORIDES ON SEPARATE REPORT																									
Special Instructions: TPH: 8015B, BTEX: 8021B & Chlorides. Please show BTEX results as mg/kg. Thank you.																									
Relinquished by: <i>Amber Cannon</i>		Date 08/15/11	Time 10:25 AM	Received by:		Date	Time	Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace? Labels on container(s) Custody seals on container(s) Custody seals on cooler(s) Sample Hand Delivered by Sampler/Client Rep ? by Courier? UPS DHL FedEx Lone Star Temperature Upon Receipt: 6.0 °C																	
Relinquished by: <i>FedEx</i>		Date	Time	Received by: <i>Audrey Elam</i>		Date 8/16/11	Time 9:50																		



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: 8:16:11 9:50
Lab ID #: 420794 / 425795
Initials: AE

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	No	<u>N/A</u>	
17. VOC sample have zero head space?	<u>Yes</u>	No	N/A	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs <u>6.0</u> °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

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

Regarding: _____

Corrective Action Taken: _____

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

Analytical Report 425795

for Yates Petroleum Corporation

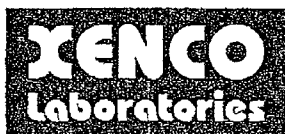
Project Manager: Amber Cannon

Graham AKB State # 8

30-015-31913

24-AUG-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

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

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (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)



24-AUG-11

Project Manager: **Amber Cannon**

Yates Petroleum Corporation

105 South Fourth St.

Artesia, NM 88210

Reference: XENCO Report No: **425795**

Graham AKB State # 8

Project Address: Eddy County

Amber Cannon:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 425795. 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. 425795 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 425795



Yates Petroleum Corporation, Artesia, NM

Graham AKB State # 8

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-01.0 A	S	08-12-11 11:27	1 - 1 ft	425795-001
Comp-02.0 A	S	08-12-11 11:54	2 - 2 ft	425795-002
Comp-03.0 A	S	08-12-11 12:33	3 - 3 ft	425795-003
Comp-01.0 B	S	08-12-11 13:17	1 - 1 ft	425795-004
Comp-02.0 B	S	08-12-11 13:37	2 - 2 ft	425795-005



CASE NARRATIVE

Client Name: Yates Petroleum Corporation
Project Name: Graham AKB State # 8



Project ID: 30-015-31913
Work Order Number: 425795

Report Date: 24-AUG-11
Date Received: 08/16/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-867919 Anions by E300
E300MI

Batch 867919, Chloride recovered above QC limits in the Matrix Spike.

Samples affected are: 425795-003, -001, -002, -005, -004.

The Laboratory Control Sample for Chloride is within laboratory Control Limits



Certificate of Analysis Summary 425795

Yates Petroleum Corporation, Artesia, NM



Project Id: 30-015-31913

Contact: Amber Cannon

Project Location: Eddy County

Project Name: Graham AKB State # 8

Date Received in Lab: Tue Aug-16-11 09:50 am

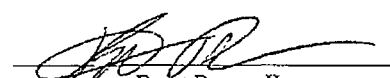
Report Date: 24-AUG-11

Project Manager: Brent Barron II

Analysis Requested	Lab Id:	425795-001	425795-002	425795-003	425795-004	425795-005	
	Field Id:	Comp-01.0 A	Comp-02.0 A	Comp-03.0 A	Comp-01.0 B	Comp-02.0 B	
	Depth:	1-1 ft	2-2 ft	3-3 ft	1-1 ft	2-2 ft	
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sampled:	Aug-12-11 11:27	Aug-12-11 11:54	Aug-12-11 12:33	Aug-12-11 13:17	Aug-12-11 13:37	
Anions by E300	Extracted:						
	Analyzed:	Aug-20-11 11:00	Aug-20-11 11:00	Aug-20-11 11:00	Aug-20-11 11:00	Aug-20-11 11:00	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		4470 86.6	5360 88.7	5560 86.6	942 21.7	218 21.4	
Percent Moisture	Extracted:						
	Analyzed:	Aug-16-11 11:15	Aug-16-11 11:15	Aug-16-11 11:15	Aug-16-11 11:15	Aug-16-11 11:15	
	Units/RL:	% RL	% RL	% RL	% RL	% RL	
Percent Moisture		3.03 1.00	5.26 1.00	3.02 1.00	3.20 1.00	1.88 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.

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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 **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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5757 NW 158th St, Miami Lakes, FL 33014
12600 West I-20 East, Odessa, TX 79765
6017 Financial Drive, Norcross, GA 30071
3725 E Atlanta Ave, Phoenix, AZ 85040

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(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

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

Project Manager: Amber Cannon

Project Name: **Graham AKB State #8**

Company Name Yates Petroleum Corporation

Project #: 30-015-31913

Company Address: 105 South 4th Street

Project Loc: Eddy County

City/State/Zip: Artesia, NM 88210

PO #: 1032020

Telephone No: 575-748-4111

Fax No: 575-748-4585

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Amber Cannon

e-mail: acannon@yatespetroleum.com

[illegible]



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: 8:16:11 / 9:50
Lab ID #: 420794 / 425795
Initials: AE

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	No	<u>N/A</u>	
17. VOC sample have zero head space?	<u>Yes</u>	No	N/A	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs <u>6.0</u> °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

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

Regarding: _____

Corrective Action Taken: _____

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

Analytical Report 427563

for
Yates Petroleum Corporation

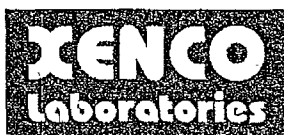
Project Manager: Amber Cannon

Graham AKB State # 8

30-015-31913

21-SEP-11

Collected By: Client



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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 (AAL11), 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-SEP-11

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

Reference: XENCO Report No: **427563**
Graham AKB State # 8
Project Address: Eddy County

Amber Cannon:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 427563. 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. 427563 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 427563



Yates Petroleum Corporation, Artesia, NM

Graham AKB State # 8

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Grab 04.0	S	09-13-11 09:05	4 - 4 ft	427563-001
Grab 05.0	S	09-13-11 09:10	5 - 5 ft	427563-002
Grab 06.0	S	09-13-11 09:15	6 - 6 ft	427563-003



CASE NARRATIVE

Client Name: Yates Petroleum Corporation
Project Name: Graham AKB State # 8



Project ID: 30-015-31913
Work Order Number: 427563

Report Date: 21-SEP-11
Date Received: 09/14/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analysis Summary 427563

Yates Petroleum Corporation, Artesia, NM

Project Name: Graham AKB State # 8



Project Id: 30-015-31913

Contact: Amber Cannon

Project Location: Eddy County

Date Received in Lab: Wed Sep-14-11 09:30 am

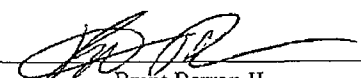
Report Date: 21-SEP-11

Project Manager: Brent Barron II

Analysis Requested	Lab Id:	427563-001	427563-002	427563-003			
	Field Id:	Grab 04.0	Grab 05.0	Grab 06.0			
	Depth:	4-4 ft	5-5 ft	6-6 ft			
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	Sep-13-11 09:05	Sep-13-11 09:10	Sep-13-11 09:15			
Anions by E300	Extracted:						
	Analyzed:	Sep-15-11 18:54	Sep-15-11 18:54	Sep-15-11 18:54			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		1780 18.1	39.9 4.38	7.70 4.32			
Percent Moisture	Extracted:						
	Analyzed:	Sep-14-11 13:15	Sep-14-11 13:15	Sep-14-11 13:15			
	Units/RL:	% RL	% RL	% RL			
Percent Moisture		7.00 1.00	4.03 1.00	2.75 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


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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5757 NW 158th St, Miami Lakes, FL 33014
12600 West I-20 East, Odessa, TX 79765
6017 Financial Drive, Norcross, GA 30071
3725 E Atlanta Ave, Phoenix, AZ 85040

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(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

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

Project Manager: Amber Cannon

Project Name: **Graham AKB State #8**

Company Name Yates Petroleum Corporation

Project #: 3D-015-31913

Company Address: 105 South 4th Street

Project Loc: Eddy County

City/State/Zip: Artesia, NM 88210

PO #: 1032020

Telephone No: 575-748-4111

Fax No: 575-748-4585

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Amber Cannon

e-mail: acannon@vatespetroleum.com

[illegible]



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: 9.14.11 9:30
Lab ID #: 427563
Initials: QZ

Sample Receipt Checklist

1. Samples on ice?	Blue	Water	<u>No</u>	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	<u>Yes</u>	No	N/A	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	Yes	No	<u>N/A</u>	
17. VOC sample have zero head space?	Yes	No	<u>N/A</u>	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs <u>21.5</u> °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

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

Regarding: _____

Corrective Action Taken: _____

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