

Analytical Report: 438212	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL
Approximately 0.5 feet of impacted soils were excavated from the well pad and taken to an NMOCD approved facility.								
Comp-00.5	Release Area	3/1/2012	Comp/Auger	6" (12" BSL)	0.0272	ND	253	253
Comp-01.0	Release Area	3/1/2012	Comp/Auger	12" (18" BSL)	0.0151	ND	56.2	56.2
Comp-01.5	Release Area	3/1/2012	Comp/Auger	18" (24" BSL)	0.0158	ND	ND	ND
Analytical Report: 438212	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL
Approximately 1.0 feet of impacted soils were excavated east of the pad and taken to an NMOCD approved facility.								
Comp-00.5	Release Area	3/1/2012	Comp/Auger	6" (18" BSL)	0.0177	ND	ND	ND
Comp-01.0	Release Area	3/1/2012	Comp/Auger	12" (24" BSL)	0.0098	ND	ND	ND
Comp-01.5	Release Area	3/1/2012	Comp/Auger	18" (30" BSL)	ND	ND	ND	ND

Site Ranking is Ten (10). Depth to Ground Water 50-99' (approx. 70', per Trend Map).

All results are ppm. X - Sample Points

Released: 45 B/O ; Recovered: 40 B/O. Release Date: 1/28/2012



Cheroot BPF State Com. #1-H #1

30-015-37555

Section 3, T25S-R27E

Eddy County, NM

ENVIRONMENTAL SAMPLE DIAGRAM

(Not to Scale)

March 13, 2012

Prepared by
YPC Environmental Division

Analytical Report 438212

for

Yates Petroleum Corporation

Project Manager: Robert Asher

Cheroot BPF State Com. # 1-H

30-015-37555

12-MAR-12

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):

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



12-MAR-12

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

Reference: XENCO Report No: **438212**
Cheroot BPF State Com. # 1-H
Project Address: Eddy County, NM

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 438212. 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. 438212 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 438212

Yates Petroleum Corporation, Artesia, NM

Cheroot BPF State Com. # 1-H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-00.5 WP	S	03-01-12 10:37	6 - 6 In	438212-001
Comp-01.0 WP	S	03-01-12 10:51	12 - 12 In	438212-002
Comp-01.5 WP	S	03-01-12 11:06	18 - 18 In	438212-003
Comp-00.5 E	S	03-01-12 10:37	6 - 6 In	438212-004
Comp-01.0 E	S	03-01-12 10:51	12 - 12 In	438212-005
Comp-01.5 E	S	03-01-12 11:06	18 - 18 In	438212-006



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Cheroot BPF State Com. # 1-H



Project ID: 30-015-37555

Work Order Number: 438212

Report Date: 12-MAR-12

Date Received: 03/06/2012

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-883138 BTEX by EPA 8021B

SW8021BM

Batch 883138, Benzene, Ethylbenzene, Toluene, m_p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 438212-001, -002, -005, -003, -004, -006.

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

Certificate of Analysis Summary 438212

Yates Petroleum Corporation, Artesia, NM

Project Name: Cheroot BPF State Com. # 1-H



Project Id: 30-015-37555

Contact: Robert Asher

Project Location: Eddy County, NM

Date Received in Lab: Tue Mar-06-12 12:45 pm

Report Date: 12-MAR-12

Project Manager: Brent Barron II

<i>Analysis Requested</i>	<i>Lab Id:</i>	438212-001	438212-002	438212-003	438212-004	438212-005	438212-006
	<i>Field Id:</i>	Comp-00.5 WP	Comp-01.0 WP	Comp-01.5 WP	Comp-00.5 E	Comp-01.0 E	Comp-01.5 E
	<i>Depth:</i>	6-6 In	12-12 In	18-18 In	6-6 In	12-12 In	18-18 In
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Mar-01-12 10:37	Mar-01-12 10:51	Mar-01-12 11:06	Mar-01-12 10:37	Mar-01-12 10:51	Mar-01-12 11:06
BTEX by EPA 8021B	<i>Extracted:</i>	Mar-06-12 15:13	Mar-06-12 15:13	Mar-06-12 15:13	Mar-06-12 15:13	Mar-06-12 15:13	Mar-06-12 15:13
	<i>Analyzed:</i>	Mar-08-12 05:07	Mar-08-12 05:30	Mar-08-12 05:52	Mar-08-12 06:15	Mar-08-12 06:38	Mar-08-12 07:01
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		ND 0.00109	ND 0.00117	ND 0.00120	ND 0.00123	ND 0.00124	ND 0.00126
Toluene		0.00639 0.00217	0.00382 0.00234	0.00374 0.00240	0.00415 0.00246	ND 0.00248	ND 0.00251
Ethylbenzene		0.00464 0.00109	0.00251 0.00117	0.00252 0.00120	0.00239 0.00123	0.00150 0.00124	ND 0.00126
m_p-Xylenes		0.0116 0.00217	0.00640 0.00234	0.00730 0.00240	0.00838 0.00246	0.00635 0.00248	ND 0.00251
o-Xylene		0.00458 0.00109	0.00238 0.00117	0.00221 0.00120	0.00277 0.00123	0.00197 0.00124	ND 0.00126
Total Xylenes		0.0162 0.00109	0.00878 0.00117	0.00951 0.00120	0.0112 0.00123	0.00832 0.00124	ND 0.00126
Total BTEX		0.0272 0.00109	0.0151 0.00117	0.0158 0.00120	0.0177 0.00123	0.00982 0.00124	ND 0.00126
Percent Moisture	<i>Extracted:</i>	Mar-06-12 15:10	Mar-06-12 15:10	Mar-06-12 15:10	Mar-06-12 15:10	Mar-06-12 15:10	Mar-06-12 15:10
	<i>Analyzed:</i>	Mar-06-12 15:10	Mar-06-12 15:10	Mar-06-12 15:10	Mar-06-12 15:10	Mar-06-12 15:10	Mar-06-12 15:10
	<i>Units/RL:</i>	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		8.37 1.00	14.8 1.00	17.0 1.00	18.7 1.00	19.7 1.00	20.5 1.00
TPH By SW8015B Mod	<i>Extracted:</i>	Mar-08-12 14:00	Mar-08-12 14:00	Mar-08-12 14:00	Mar-08-12 14:00	Mar-08-12 14:00	Mar-08-12 14:00
	<i>Analyzed:</i>	Mar-10-12 00:20	Mar-10-12 00:52	Mar-10-12 01:24	Mar-10-12 01:56	Mar-10-12 02:28	Mar-10-12 03:00
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
C6-C10 Gasoline Range Hydrocarbons		ND 16.3	ND 17.5	ND 18.1	ND 18.4	ND 18.7	ND 18.8
C10-C28 Diesel Range Hydrocarbons		253 16.3	56.2 17.5	ND 18.1	ND 18.4	ND 18.7	ND 18.8
Total TPH		253 16.3	56.2 17.5	ND 18.1	ND 18.4	ND 18.7	ND 18.8

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.

* 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 **SQL** Method Quantitation Limit **LOQ** Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Project Name: Cheroot BPF State Com. #1-H

Project #: 30-015-37555

Project Loc: Eddy County

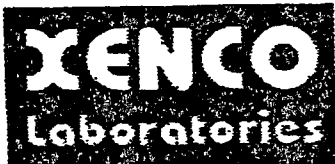
PO #: 105632

Fax No: 575-748-4662

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

e-mail: boba@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:

Date/Time:

Lab ID #:

Initials:

Yates Petroleum

3/6/12 12:45

438212

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 4.0 °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