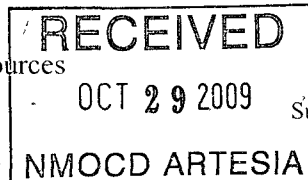


District I
1625 N French Dr, Hobbs, NM 88240
District II
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S St Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505



Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

nmlb 0931055985

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Yates Petroleum Corporation	OGRID Number 25575	Contact Robert Asher
Address 104 S. 4 TH Street		Telephone No. 575-748-1471
Facility Name Rumble AXM State #2	API Number 30-015-31702	Facility Type Battery

Surface Owner Fee	Mineral Owner State	Lease No. V-4801
----------------------	------------------------	---------------------

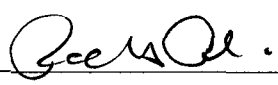
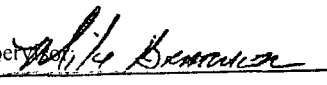
LOCATION OF RELEASE

Unit Letter C	Section 28	Township 18S	Range 25E	Feet from the 1980	North/South Line South	Feet from the 1980	East/West Line East	County Eddy
------------------	---------------	-----------------	--------------	-----------------------	---------------------------	-----------------------	------------------------	----------------

Latitude 32.65161 Longitude 104.62956

NATURE OF RELEASE

Type of Release Condensate & Produced Water	Volume of Release 73 B/C & 35 B/PW	Volume Recovered 0 B/C & 0 B/PW
Source of Release Production tank	Date and Hour of Occurrence 9/10/2009, AM	Date and Hour of Discovery 9/10/2009, AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher/NMOCD Artesia	
By Whom? Robert Asher/YPC Environmental	Date and Hour 9/10/2009, PM (voicemail); 9/11/2009, PM (e-mail)	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* Hole in bottom of production tank. Crew called and replaced fitting.		
Describe Area Affected and Cleanup Action Taken.* An approximate area of 40' X 15'. No condensate or produced water to recover. Impacted soils excavated and hauled to an OCD approved facility. Will conduct vertical & horizontal delineation to determine extent of contamination. Samples obtained 10/8/2009, sent to an NMOCD approved laboratory. Per NMOCD request, the south half of the battery area was flipped/aerated with a backhoe, Samples obtained 10/27/2009, sent to an NMOCD approved laboratory. Depth to Ground Water: >100' (approx. 300', Section 32, T18S-R25E, per New Mexico Office of the State Engineer), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 0. Based on enclosed analytical results, requested remediation work/sampling, depth to ground water and 20 mil. liner installation, Yates Petroleum Corporation requests closure.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Robert Asher	Approved by District Supervisor Signed By 	
Title: Environmental Regulatory Agent	Approval Date NOV 06 2009	Expiration Date: N/A
E-mail Address: boba@yatespetroleum.com	Conditions of Approval: N/A	Attached <input type="checkbox"/>
Date: Thursday, October 29, 2009	Phone: 575-748-4217	2RP- <i>364</i>

* Attach Additional Sheets If Necessary

MARTIN YATES, III
1912-1985

FRANK W. YATES
1936-1986

S.P. YATES
1914-2008



105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118
TELEPHONE (575) 748-1471

JOHN A. YATES
CHAIRMAN OF THE BOARD
PRESIDENT

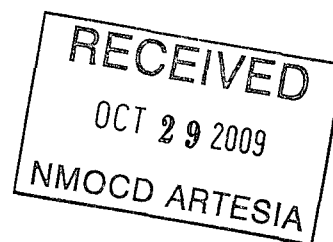
JOHN A. YATES JR.
ASSISTANT TO THE PRESIDENT

JAMES S. BROWN
CHIEF OPERATING OFFICER

JOHN D. PERINI
CHIEF FINANCIAL OFFICER

October 29, 2009

Mr. Mike Bratcher
NMOCD District II
1301 West Grand
Artesia, NM 88210



Re: Rumble AXM State #2
30-015-31702
Section 28, T18S-R25E
Eddy County, New Mexico

Dear Mr. Bratcher,

Enclosed please find a Form C-141, Final Report for the above captioned site regarding the release on September 10, 2009 (73 bbls of condensate and 35 bbls of produced water with no condensate or produced water being recovered). The release was from a hole in the production tank. Impacted soils were excavated to a depth of two (2) feet and taken to an NMOCD approved facility. Samples (e-mailed notification of sampling on 10/7/2009), were taken on 10/8/2009 and sent to an OCD approved laboratory for analysis. Per the request from NMOCD, the south half of the battery area was flipped and aerated with a backhoe to approximate seven (7) feet deep to flash off BTEX contamination. Samples were taken on 10/27/2009 and sent to an OCD approved laboratory for analysis (enclosed sample diagram). Petroleum Corporation requests closure. Upon closure approval Yates will install a 20 mil. liner within the entire battery area before setting production tank(s).

If you have any questions, please call me at 575-748-4217.

Thank you.

YATES PETROLEUM CORPORATION

Robert Asher
Environmental Regulatory Agent

/rca
Enclosure(s)

Analytical Report 350002

for

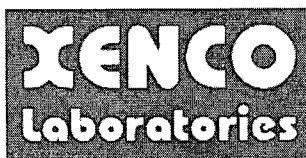
Yates Petroleum Corporation

Project Manager: Robert Asher

Rumble AXM State # 2

30-015-31702

29-OCT-09



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87428), 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)

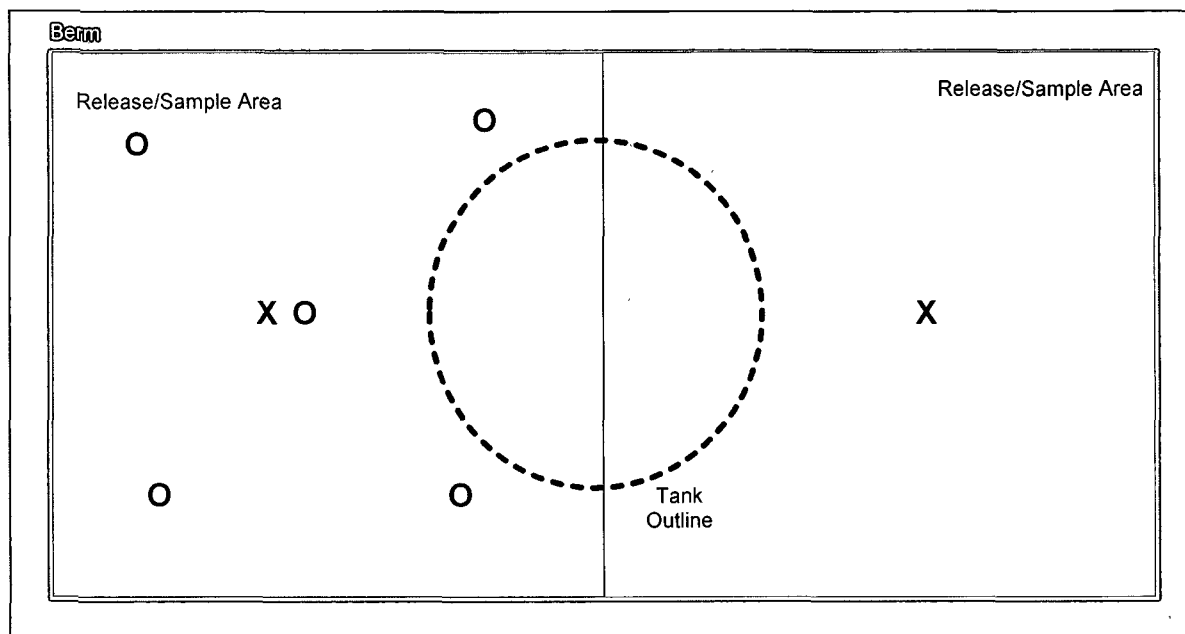
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-08-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)

Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),

South Carolina(96031001), Louisiana(04154), Georgia(917)



Sample ID	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
GS/Comp-001	South 1/2	10/8/2009	Grab/Backhoe	1' (3' BSL)	42.390	1340	4710	6050	21.2
GS/Comp-002	South 1/2	10/8/2009	Grab/Backhoe	3' (5' BSL)	60.750	1450	4140	5590	78.4
GS/Comp-003	South 1/2	10/8/2009	Grab/Backhoe	5' (7' BSL)	0.116	51	550	601	282
GS/Comp-001	South 1/2	10/27/2009	Grab/Shovel	3'-7' BSL	27.200				
GS/Comp-004	North 1/2	10/8/2009	Grab/Backhoe	1' (3' BSL)	13.938	642	1460	2102	91.8
GS/Comp-005	North 1/2	10/8/2009	Grab/Backhoe	3' (5' BSL)	0.203	33.5	134	167.5	181
GS/Comp-006	North 1/2	10/8/2009	Grab/Backhoe	5' (7' BSL)	3.749	208	2030	2238	408

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 300, per New Mexico State Engineer Office).

All results are ppm. Chloride results are for documentation. BSL - Below Subsurface Level.

X - Sample Points (10/8/2009); O - Sample Points (10/27/2009)



Rumble AXM State #2
Section 28, T18S-R25E
Eddy County, NM

SAMPLE DIAGRAM (Not to Scale)
Xenco Laboratories: #347819 & 347820
Report Date: 10/14/2009
Xenco Laboratories: #350002
Report Date: 10/29/2009
Prepared by Robert Asher
Environmental Regulatory Agent



29-OCT-09

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

Reference: XENCO Report No: **350002**
Rumble AXM State # 2
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 350002. 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. 350002 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 350002



Yates Petroleum Corporation, Artesia, NM

Rumble AXM State # 2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GS/Comp-001	S	Oct-27-09 10:00	3 - 7 ft	350002-001



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Rumble AXM State # 2

Project ID: 30-015-31702

Work Order Number: 350002

Report Date: 29-OCT-09

Date Received: 10/28/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-779311 Percent Moisture

None

Batch: LBA-779343 BTEX by EPA 8021

SW8021BM

Batch 779343, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 350002-001.

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

Samples affected are: 350002-001.

SW8021BM

Batch 779343, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 350002-001.

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



Certificate of Analysis Summary 350002

Yates Petroleum Corporation, Artesia, NM

Project Name: Rumble AXM State # 2



Project Id: 30-015-31702

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Wed Oct-28-09 09:35 am


Report Date: 29-OCT-09

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	350002-001					
	Field Id:	GS/Comp-001					
	Depth:	3-7 ft					
	Matrix:	SOIL					
	Sampled:	Oct-27-09 10:00					
BTEX by EPA 8021	Extracted:	Oct-28-09 17:00					
	Analyzed:	Oct-29-09 03:53					
	Units/RL:	mg/kg RL					
Benzene		BRL 0.0559					
Toluene		1.136 0.1118					
Ethylbenzene		1.610 0.0559					
m,p-Xylenes		17.18 0.1118					
o-Xylene		7.274 0.0559					
Xylenes, Total		24.45 0.0559					
Total BTEX		27.20 0.0559					
Percent Moisture	Extracted:						
	Analyzed:	Oct-28-09 17:00					
	Units/RL:	% RL					
Percent Moisture		11.3 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.

Since 1990 Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America - Atlanta - 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 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
- * Outside XENCO's scope of NELAC Accreditation.

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	Phone	Fax
4143 Greenbriar Dr, Stafford, Tx 77477	(281) 240-4200	(281) 240-4280
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

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 **Cooler #** YPC-004

Project Name: Rumble AXM State #2

Company Name Yates Petroleum Corporation

Project #: 30-015-31702

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: e-mail: boba@yatespetroleum.com

e-mail, boba@yatespetroleum.com

[illegible]

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Yates Petroleum
 Date/ Time: 10.28.09 9:35
 Lab ID #: 350002 349 AL
 Initials: AL

Sample Receipt Checklist

Client Initials

#1	Temperature of container/ cooler?	<u>Yes</u>	No	<u>3.6 °C</u>	
#2	Shipping container in good condition?	<u>Yes</u>	No		
#3	Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	Not Present	
#5	Chain of Custody present?	<u>Yes</u>	No		
#6	Sample instructions complete of Chain of Custody?	<u>Yes</u>	No		
#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	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
#11	Containers supplied by ELOT?	<u>Yes</u>	No		
#12	Samples in proper container/ bottle?	<u>Yes</u>	No	See Below	
#13	Samples properly preserved?	<u>Yes</u>	No	See Below	
#14	Sample bottles intact?	<u>Yes</u>	No		
#15	Preservations documented on Chain of Custody?	<u>Yes</u>	No		
#16	Containers documented on Chain of Custody?	<u>Yes</u>	No		
#17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below	
#18	All samples received within sufficient hold time?	<u>Yes</u>	No	See Below	
#19	Subcontract of sample(s)?	<u>Yes</u>	No	<u>Not Applicable</u>	
#20	VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken:

Check all that Apply:

☐
☐
☐

See attached e-mail/ fax
 Client understands and would like to proceed with analysis
 Cooling process had begun shortly after sampling event

Analytical Report 347819

for

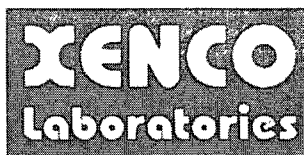
Yates Petroleum Corporation

Project Manager: Robert Asher

Rumble AXM State # 2

30-015-31702

15-OCT-09



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87428), 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 (T104704400-08-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)

Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),

South Carolina(96031001), Louisiana(04154), Georgia(917)



15-OCT-09

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

Reference: XENCO Report No: **347819**
Rumble AXM State # 2
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 347819. 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. 347819 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 347819



Yates Petroleum Corporation, Artesia, NM

Rumble AXM State # 2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GS/Comp-001	S	Oct-08-09 09:11	1 - 1 ft	347819-001
GS/Comp-002	S	Oct-08-09 09:15	3 - 3 ft	347819-002
GS/Comp-003	S	Oct-08-09 09:19	5 - 5 ft	347819-003
GS/Comp-004	S	Oct-08-09 09:44	1 - 1 ft	347819-004
GS/Comp-005	S	Oct-08-09 09:49	3 - 3 ft	347819-005
GS/Comp-006	S	Oct-08-09 09:55	5 - 5 ft	347819-006



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Rumble AXM State # 2

Project ID: 30-015-31702

Work Order Number: 347819

Report Date: 15-OCT-09

Date Received: 10/09/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-776553 BTEX-MTBE EPA 8021B

SW8021BM

Batch 776553, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 347819-005, -003.

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

SW8021BM

Batch 776553, 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected; data not confirmed by re-analysis

Samples affected are: 347819-005, 347819-003.

Batch: LBA-776646 Percent Moisture

AD2216A

Batch 776646, Percent Moisture RPD is outside the QC limit. This is most likely due to sample non-homogeneity.

Samples affected are: 347819-006, -001, -004, -005, -002, -003.

Batch: LBA-777087 TPH by SW 8015B

SW8015B_NM

Batch 777087, o-Terphenyl recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 347819-002.

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

Samples affected are: 347819-001, 347819-003, 347819-006.

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

Samples affected are: 347819-003.



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Rumble AXM State # 2

Project ID: 30-015-31702

Work Order Number: 347819

Report Date: 15-OCT-09

Date Received: 10/09/2009

*Batch: LBA-777230 BTEX-MTBE EPA 8021B
SW8021BM*

Batch 777230, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 347819-006.

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

Samples affected are: 347819-001,347819-002,347819-006,347819-004.

SW8021BM

Batch 777230, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 347819-006, -001, -004, -002.

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



Certificate of Analysis Summary 347819

Yates Petroleum Corporation, Artesia, NM

Project Name: Rumble AXM State # 2



Project Id: 30-015-31702

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Fri Oct-09-09 11:05 am

Report Date: 15-OCT-09

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	347819-001	347819-002	347819-003	347819-004	347819-005	347819-006
	Field Id:	GS/Comp-001	GS/Comp-002	GS/Comp-003	GS/Comp-004	GS/Comp-005	GS/Comp-006
	Depth:	1-1 ft	3-3 ft	5-5 ft	1-1 ft	3-3 ft	5-5 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Oct-08-09 09 11	Oct-08-09 09 15	Oct-08-09 09 19	Oct-08-09 09 44	Oct-08-09 09 49	Oct-08-09 09 55
BTEX by EPA 8021B	Extracted:	Oct-14-09 08 00	Oct-14-09 08 00	Oct-09-09 13 00	Oct-14-09 08 00	Oct-09-09 13 00	Oct-14-09 08 00
	Analyzed:	Oct-14-09 12 51	Oct-14-09 13 12	Oct-09-09 21 08	Oct-14-09 13 34	Oct-09-09 21 51	Oct-14-09 13 55
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		ND 0 1061	ND 0 2694	ND 0 0011	ND 0 0540	ND 0 0011	ND 0 0054
Toluene		2 141 0 2121	2 667 0 5388	0 0099 0 0022	0 4192 0 1079	0 0096 0 0022	0 0894 0 0109
Ethylbenzene		2 614 0 1061	4 229 0 2694	0 0094 0 0011	0 8060 0 0540	0 0158 0 0011	0 2178 0 0054
m,p-Xylenes		25 53 0 2121	38 48 0 5388	0 0765 0 0022	9 007 0 1079	0 1074 0 0022	2 348 0 0109
o-Xylene		12 10 0 1061	15 37 0 2694	0 0197 0 0011	3 706 0 0540	0 0701 0 0011	1 094 0 0054
Total Xylenes		37 63 0 1061	53 85 0 2694	0 0962 0 0011	12 713 0 0540	0 1775 0 0011	3 442 0 0054
Total BTEX		42 39 0 1061	60 75 0 2694	0 1155 0 0011	13 938 0 0540	0 2029 0 0011	3 749 0 0054
Percent Moisture	Extracted:	Oct-12-09 14 17	Oct-12-09 14 17	Oct-12-09 14 17	Oct-12-09 14 17	Oct-12-09 14 17	Oct-12-09 14 17
	Analyzed:	Oct-12-09 14 17	Oct-12-09 14 17	Oct-12-09 14 17	Oct-12-09 14 17	Oct-12-09 14 17	Oct-12-09 14 17
	Units/RL:	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		6 10 1 00	7 38 1 00	9 70 1 00	7 50 1 00	9 11 1 00	7 98 1 00
TPH By SW8015B Mod	Extracted:	Oct-09-09 15 18	Oct-09-09 15 18	Oct-09-09 15 18	Oct-09-09 15 18	Oct-09-09 15 18	Oct-09-09 15 18
	Analyzed:	Oct-13-09 19 53	Oct-13-09 20 18	Oct-13-09 20 43	Oct-13-09 21 09	Oct-13-09 21 33	Oct-13-09 22 24
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
C6-C10 Gasoline Range Hydrocarbons		1340 15 9	1450 16 1	51 0 16 6	642 16 2	33 5 16 5	208 16 3
C10-C28 Diesel Range Hydrocarbons		4710 15 9	4140 16 1	550 16 6	1460 16 2	134 16 5	2030 16 3
Total TPH		6050 15 9	5590 16 1	601 16 6	2102 16 2	168 16 5	2238 16 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

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	Cooler #	YPC-284
Company Name	Yates Petroleum Corporation		
Company Address	185 South 4th Street		
City/State/Zip	Alameda, NM 88210		
Telephone No.	575-748-4217	Fax No	575-748-4592
Sampler Signature	<i>Robert Asher</i>	e-mail	boba@yatespetroleum.com

Project Name: Rumble AXM State #2
Project #: 20-015-31702
Project Loc: Eddy County
PO #: 105832
Report Format: ☒ Standard ☐ TRRP ☐ APOES

boha@vatespetroleum.com

(lab use only)

ORDER #: 347819 / 347824

[illegible]

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

Laboratory Comments

Relinquished by:	Date	Time	Received by:	Date	Time
Robert Asher	10-08-09	2:32 PM			
Relinquished by:	Date	Time	Received by:	Date	Time
FedEx			Martin Pann	10-09-09	11:05

Environmental Lab of Texas
Variance/ Corrective Action Report Sample Log-in

Client Yates Petroleum
Date/Time 10-9-09 11:05
Job ID # 347319 / 347820
Initials GL

Sample Receipt Checklist

			Client Initials
#1 Temperature of container/ cooler?	<input checked="" type="checkbox"/> Yes	No	00 °C
#2 Shipping container in good condition?	<input checked="" type="checkbox"/> Yes	No	
#3 Custody Seals intact on shipping container/ cooler?	<input checked="" type="checkbox"/> Yes	No	Not Present
#4 Custody Seals intact on sample bottles/ container?	<input checked="" type="checkbox"/> Yes	No	Not Present
#5 Chain of Custody present?	<input checked="" type="checkbox"/> Yes	No	
#6 Sample instructions complete of Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
#7 Chain of Custody signed when relinquished/ received?	<input checked="" type="checkbox"/> Yes	No	
#8 Chain of Custody agrees with sample label(s)?	<input checked="" type="checkbox"/> Yes	No	ID written on Cont / Lid
#9 Container label(s) legible and intact?	<input checked="" type="checkbox"/> Yes	No	Not Applicable
#10 Sample matrix/ properties agree with Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
#11 Containers supplied by ELOTT?	<input checked="" type="checkbox"/> Yes	No	
#12 Samples in proper container/ bottle?	<input checked="" type="checkbox"/> Yes	No	See Below
#13 Samples properly preserved?	<input checked="" type="checkbox"/> Yes	No	See Below
#14 Sample bottles intact?	<input checked="" type="checkbox"/> Yes	No	
#15 Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
#16 Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
#17 Sufficient sample amount for indicated test(s)?	<input checked="" type="checkbox"/> Yes	No	See Below
#18 All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	No	See Below
#19 Subcontract of sample(s)?	<input checked="" type="checkbox"/> Yes	No	Not Applicable
#20 VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	No	Not Applicable

Variance Documentation

Contact _____ Contacted by _____ Date/ Time _____

Regarding _____

Corrective Action Taken _____

- Check all that Apply.
- ☐ See attached e-mail/ fax
 - ☐ Client understands and would like to proceed with analysis
 - ☐ Cooling process had begun shortly after sampling event

Analytical Report 347820

for

Yates Petroleum Corporation

Project Manager: Robert Asher

Rumble AXM State # 2

30-015-31702

14-OCT-09



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-08-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)
Rhode Island (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87428), 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 (T104704400-08-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)

Xenco-Boca Raton (EPA Lab Code: FL00449): Florida (E86240),

South Carolina (96031001), Louisiana (04154), Georgia (917)



14-OCT-09

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

Reference: XENCO Report No: **347820**
Rumble AXM State # 2
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 347820. 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. 347820 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 347820



Yates Petroleum Corporation, Artesia, NM

Rumble AXM State # 2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GS/Comp-001	S	Oct-08-09 09:11	1 - 1 ft	347820-001
GS/Comp-002	S	Oct-08-09 09:15	3 - 3 ft	347820-002
GS/Comp-003	S	Oct-08-09 09:19	5 - 5 ft	347820-003
GS/Comp-004	S	Oct-08-09 09:44	1 - 1 ft	347820-004
GS/Comp-005	S	Oct-08-09 09:49	3 - 3 ft	347820-005
GS/Comp-006	S	Oct-08-09 09:54	5 - 5 ft	347820-006



CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Rumble AXM State # 2

Project ID: 30-015-31702

Work Order Number: 347820

Report Date: 14-OCT-09

Date Received: 10/09/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-776636 Percent Moisture

None

Batch: LBA-776646 Percent Moisture

AD2216A

Batch 776646, Percent Moisture RPD is outside the QC limit. This is most likely due to sample non-homogeneity.

Samples affected are: 347820-005, -006, -003, -004.

Batch: LBA-776729 Inorganic Anions by EPA 300

None



Certificate of Analysis Summary 347820

Yates Petroleum Corporation, Artesia, NM

Project Name: Rumble AXM State # 2



Project Id: 30-015-31702

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Fri Oct-09-09 11:05 am


Report Date: 14-OCT-09

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	347820-001	347820-002	347820-003	347820-004	347820-005	347820-006
	<i>Field Id:</i>	GS/Comp-001	GS/Comp-002	GS/Comp-003	GS/Comp-004	GS/Comp-005	GS/Comp-006
	<i>Depth:</i>	1-1 ft	3-3 ft	5-5 ft	1-1 ft	3-3 ft	5-5 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Oct-08-09 09 11	Oct-08-09 09 15	Oct-08-09 09 19	Oct-08-09 09 44	Oct-08-09 09 49	Oct-08-09 09 54
Anions by E300	<i>Extracted:</i>						
	<i>Analyzed:</i>	Oct-12-09 09 32	Oct-12-09 09 32	Oct-12-09 09 32	Oct-12-09 09 32	Oct-12-09 09 32	Oct-12-09 09 32
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		21 2 4 47	78 4 9 07	282 18 6	91 8 9 08	181 9 24	408 18 3
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Oct-12-09 13 39	Oct-12-09 13 39	Oct-12-09 14 17	Oct-12-09 14 17	Oct-12-09 14 17	Oct-12-09 14 17
	<i>Units/RL:</i>	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		6 10 1 00	7 38 1 00	9 70 1 00	7 50 1 00	9 11 1 00	7 98 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 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
- * Outside XENCO's scope of NELAC Accreditation.

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5332 Blackberry Drive, San Antonio TX 78238
2505 North Falkenburg Rd, Tampa, FL 33619
5757 NW 158th St, Miami Lakes, FL 33014
12600 West I-20 East, Odessa, TX 79765
842 Cantwell Lane, Corpus Christi, TX 78408

Phone	Fax
(281) 240-4200	(281) 240-4280
(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
(361) 884-0371	(361) 884-9116

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East Phone: 432-563-1800
Odessa, Texas 79765 Fax: 432-563-1713

Project Manager: Robert Kiser Cooler # YPC-004
Company Name Yates Petroleum Corporation
Company Address: 105 South 4th Street
City/State/Zip: Artesia, NM 85210
Telephone No: 575-748-4217 Fax No: 575-748-4662
Sampler Signature: [Signature] e-mail: bobba@yatespetroleum.com

Project Name: Rumble AXM State #2
Project #: 30-015-31702
Project Loc. Eddy County
PO #: 105832
Report Format ☒ Standard ☐ INTRP ☐ M'DES

[illegible]

Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client: Yates Petroleum
Date/ Time: 10-9-09 11:05
Lab ID #: 347819 / 347820
Initials: GL

Sample Receipt Checklist

				Client Initials	
#1	Temperature of container/ cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	10 °C	
#2	Shipping container in good condition?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#3	Custody Seals intact on shipping container/ cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Present	
#5	Chain of Custody present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#6	Sample instructions complete of Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#7	Chain of Custody signed when relinquished/ received?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#8	Chain of Custody agrees with sample label(s)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	if written on Cont / Lid	
#9	Container label(s) legible and intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#11	Containers supplied by ELOT?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#12	Samples in proper container/ bottle?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	See Below	
#13	Samples properly preserved?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	See Below	
#14	Sample bottles intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#15	Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#16	Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
#17	Sufficient sample amount for indicated test(s)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	See Below	
#18	All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	See Below	
#19	Subcontract of sample(s)?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Applicable	
#20	VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

- Check all that Apply.
- ☐ See attached e-mail/ fax
 - ☐ Client understands and would like to proceed with analysis
 - ☐ Cooling process had begun shortly after sampling event