

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

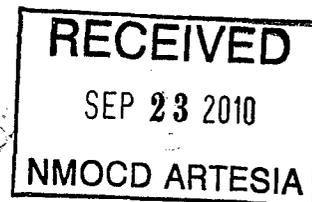
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VICE PRESIDENT

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CHIEF OPERATING OFFICER

JOHN D. PERINI  
CHIEF FINANCIAL OFFICER

September 22, 2010



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

Re: Creek AL Federal #19  
30-015-32896  
Section 25, T18S-R30E  
Eddy County, New Mexico

Dear Mr. Bratcher:

Yates Petroleum Corporation is submitting the enclosed work plan for the September 8, 2010 release. A C-141 Initial Report has been submitted with this work plan.

**If there are no objections with the scope of work described in the plan, Yates will begin work as soon a contractor can be scheduled.**

If you have any questions call me at (575) 748-4217

Thank you.

YATES PETROLEUM CORPROATION

Robert Asher  
Environmental Regulatory Agent

Enclosure(s)

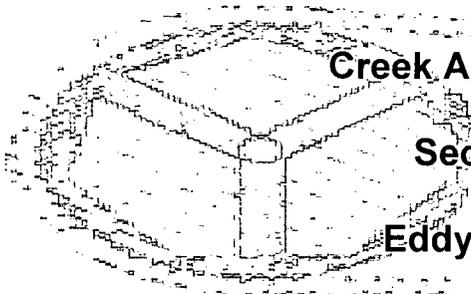
**Yates Petroleum Corporation**

**Creek AL Federal #19 Work Plan**

**Section 25, T18S-R30E**

**Eddy County, New Mexico**

**September 22, 2010**



**I. Location**

The well is located approximately 30 miles east of Artesia, NM and 1.0 miles north of Grubbs Road (CR 250), as represented by the attached Hackberry Lake, NM, USGS Quadrangle Map.

**II. Background**

On September 22, 2010, Yates submitted to the NMOCD District II office a Form C-141 for releases of 20 B/O & 10 B/PW with no oil or produced water recovered. The total affected area is approximately 30 feet by 45 feet (approximately 0.2 miles north of the Creek AL Federal #19 pumping unit and approximately 100' east of the lease road). Initial delineation samples were taken (9/13/2010) and sent to an NMOCD approved laboratory (results enclosed). This work plan will address the levels of BTEX within the impacted soils (>50 ppm), total TPH is below the 5000 ppm for the RRAL for the site ranking of (0) zero and chlorides are for documentation.

**III. Surface and Ground Water**

Area surface geology is Cenozoic. The nearest groundwater of record is listed on the ChevronTexaco trend map shows depth to groundwater approximately 184 feet making the site ranking for this site a zero (0). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

The ranking for this site is zero (0) based on the as following:

Depth to ground water	> 100'
Wellhead Protection Area	> 1000'
Distance to surface water body	> 1000'

**IV. Soils**

The area consists of soils that are sandy loam and interspersed with clay seams providing a low permeability barrier to retard vertical percolation of contaminants into the subsurface.

**V. Scope of Work**

Yates Petroleum Corporation will have a contractor excavate a total of two (2) foot of impacted soils; soils will be taken to an NMOCD approved facility. Delineation samples will be taken and sent to an OCD approved laboratory, if analytical results are within the RRAL's for BTEX (50 ppm) with the Total Ranking Score of zero (0), then no further actions will be taken. Based on the 9/13/2010 analytical results for TPH and chlorides, no further testing for TPH and chlorides will be done. If the RRAL's are above limits additional impacted soils will be excavated and taken to an NMOCD approved facility. Delineation samples will again be taken. When analytical results are below the RRAL's, Yates Petroleum Corporation will submit a C-141, Final Report, analytical results and a site sample diagram and request closure of the site.

# Analytical Report 389693

for  
Yates Petroleum Corporation

Project Manager: Robert Asher

Creek AL Federal # 19

30-015-32896

17-SEP-10



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12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-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 (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)  
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

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

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

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

Xenco-Boca Raton (EPA Lab Code: FL01273):

Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)  
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901):

Arizona(AZ0757), California(06244CA), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816)

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

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



17-SEP-10

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

Reference: XENCO Report No: **389693**  
**Creek AL Federal # 19**  
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 389693. 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. 389693 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 389693**



**Yates Petroleum Corporation, Artesia, NM**  
Creek AL Federal # 19

<b>Sample Id</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Sample Depth</b>	<b>Lab Sample Id</b>
Comp-00.5	S	Sep-13-10 10:57	6 - 6 In	389693-001
Comp-01.0	S	Sep-13-10 11:11	12 - 12 In	389693-002
Comp-01.5	S	Sep-13-10 11:27	18 - 18 In	389693-003



# CASE NARRATIVE

*Client Name: Yates Petroleum Corporation*

*Project Name: Creek AL Federal # 19*



*Project ID: 30-015-32896*  
*Work Order Number: 389693*

*Report Date: 17-SEP-10*  
*Date Received: 09/14/2010*

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**Sample receipt non conformances and Comments:**

None

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**Sample receipt Non Conformances and Comments per Sample:**

None

**Analytical Non Conformances and Comments:**

Batch: LBA-823016 Percent Moisture

None

Batch: LBA-823019 Anions in Soil By EPA 300.0

None



# Certificate of Analysis Summary 389693

## Yates Petroleum Corporation, Artesia, NM



Project Id: 30-015-32896  
 Contact: Robert Asher  
 Project Location: Eddy County

Project Name: Creek AL Federal # 19

Date Received in Lab: Tue Sep-14-10 10:10 am  
 Report Date: 17-SEP-10  
 Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	Field Id:	Depth:	Matrix:	Sampled:	389693-001	389693-002	389693-003
Anions in Soil By EPA 300.0	Extracted:	Comp-00.5	6-6 In	SOIL	Sep-13-10 10:57	Sep-14-10 17:30	Sep-14-10 17:51	Sep-14-10 18:12
	Analyzed:	Comp-01.0	12-12 In	SOIL	Sep-13-10 11:11	Sep-14-10 17:00	Sep-14-10 17:00	Sep-14-10 17:00
	Units/RL:					mg/kg RL	mg/kg RL	mg/kg RL
						514 8.67	396 8.70	556 8.77
Percent Moisture	Extracted:					% RL	% RL	% RL
	Analyzed:					3.15 1.00	3.42 1.00	4.22 1.00
	Units/RL:							
Percent Moisture								

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron, II  
 Odessa Laboratory Manager



# Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
  - B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
  - D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
  - E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
  - F** RPD exceeded lab control limits.
  - J** The target analyte was positively identified below the MQL and above the SQL.
  - U** Analyte was not detected.
  - L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
  - H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
  - K** Sample analyzed outside of recommended hold time.
  - JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- BRL** Below Reporting Limit.
- RL** Reporting Limit
- MDL** Method Detection Limit
- PQL** Practical Quantitation Limit
- \* Outside XENCO's scope of NELAC Accreditation.

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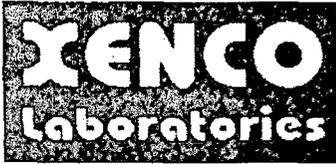
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9701 Harry Hines Blvd , Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116





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

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

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

Client: Yates Petroleum  
 Date/Time: 9.14.10 10:10  
 Lab ID #: 389690 / 389693  
 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>3.6</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 389690

for  
Yates Petroleum Corporation

Project Manager: Robert Asher

Creek AL Federal # 19

30-015-32896

17-SEP-10



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Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054)  
New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610)  
Rhode Island (LAO00312), USDA (S-44102)

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Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)  
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

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Xenco-Boca Raton (EPA Lab Code: FL01273):

Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)  
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901):

Arizona(AZ0757), California(06244CA), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816)

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

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



17-SEP-10

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

Reference: XENCO Report No: **389690**  
**Creek AL Federal # 19**  
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 389690. 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.

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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 389690**



**Yates Petroleum Corporation, Artesia, NM**

Creek AL Federal # 19

<b>Sample Id</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Sample Depth</b>	<b>Lab Sample Id</b>
Comp-00.5	S	Sep-13-10 10:57	6 - 6 In	389690-001
Comp-01.0	S	Sep-13-10 11:11	12 - 12 In	389690-002
Comp-01.5	S	Sep-13-10 11:27	18 - 18 In	389690-003



# CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Creek AL Federal # 19



Project ID: 30-015-32896

Work Order Number: 389690

Report Date: 17-SEP-10

Date Received: 09/14/2010

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**Sample receipt non conformances and Comments:**

None

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**Sample receipt Non Conformances and Comments per Sample:**

None

**Analytical Non Conformances and Comments:**

Batch: LBA-823016 Percent Moisture

None

Batch: LBA-823024 TPH by SW 8015B

None

Batch: LBA-823318 BTEX by EPA 8021

SW8021BM

Batch 823318, Benzene, Toluene recovered below QC limits in the Matrix Spike.

Samples affected are: 389690-001, -002.

The Laboratory Control Sample for Toluene, Benzene is within laboratory Control Limits

SW8021BM

Batch 823318, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 389690-002,389690-001.

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

Samples affected are: 389690-002.

Batch: LBA-823461 BTEX by EPA 8021

SW8021BM

Batch 823461, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 389690-003.



# Certificate of Analysis Summary 389690

Yates Petroleum Corporation, Artesia, NM

Project Name: Creek AL Federal # 19



Project Id: 30-015-32896

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Tue Sep-14-10 10:10 am

Report Date: 17-SEP-10

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	389690-001	389690-002	389690-003			
	<i>Field Id:</i>	Comp-00.5	Comp-01.0	Comp-01.5			
	<i>Depth:</i>	6-6 In	12-12 In	18-18 In			
	<i>Matrix:</i>	SOIL	SOIL	SOIL			
	<i>Sampled:</i>	Sep-13-10 10:57	Sep-13-10 11:11	Sep-13-10 11:27			
<b>BTEX by EPA 8021</b>	<i>Extracted:</i>	Sep-14-10 10:30	Sep-14-10 10:30	Sep-15-10 09:00			
	<i>Analyzed:</i>	Sep-15-10 20:42	Sep-15-10 15:40	Sep-15-10 22:51			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		0.1283 0.1026	0.2296 0.1025	0.2401 0.1044			
Toluene		7.709 0.2053	12.07 0.2050	18.54 0.2088			
Ethylbenzene		8.698 0.1026	8.696 0.1025	11.35 0.1044			
m,p-Xylenes		19.77 0.2053	22.68 0.2050	40.10 0.2088			
o-Xylene		11.16 0.1026	13.43 0.1025	16.26 0.1044			
Xylenes, Total		30.93 0.1026	36.11 0.1025	56.36 0.1044			
Total BTEX		47.47 0.1026	57.11 0.1025	86.49 0.1044			
<b>Percent Moisture</b>	<i>Extracted:</i>						
	<i>Analyzed:</i>	Sep-14-10 17:00	Sep-14-10 17:00	Sep-14-10 17:00			
	<i>Units/RL:</i>	% RL	% RL	% RL			
Percent Moisture		3.15 1.00	3.42 1.00	4.22 1.00			
<b>TPH by SW 8015B</b>	<i>Extracted:</i>	Sep-14-10 10:40	Sep-14-10 10:40	Sep-14-10 10:40			
	<i>Analyzed:</i>	Sep-14-10 14:55	Sep-14-10 15:27	Sep-14-10 15:58			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
C6-C10 Gasoline Range Hydrocarbons		357 15.4	715 15.5	765 15.7			
C10-C28 Diesel Range Hydrocarbons		1610 15.4	2250 15.5	1890 15.7			
Total TPH		1967 15.4	2965 15.5	2655 15.7			

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Brent Barron, II  
Odessa Laboratory Manager



# Flagging Criteria

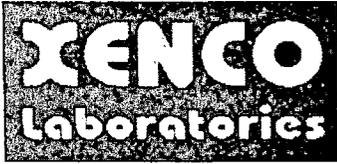
- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
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- BRL Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection Limit
- PQL Practical Quantitation Limit
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Document Title: Sample Receipt Checklist  
 Document No.: SYS-SRC  
 Revision/Date: No. 01, 5/27/2010  
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### Prelogin / Nonconformance Report - Sample Log-In

Client: Yates Petroleum  
 Date/Time: 9.14.10 10:10  
 Lab ID #: 389690 / 389693  
 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>3.6</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

