

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

Form C-141
Revised October 10, 2003

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company YATES PETROLEUM CORPORATION	OGRID Number 25575	Contact SHERRY BONHAM
Address 105 S 4 TH STREET		Telephone No. 505.748.1471
Facility Name RUBY ASV STATE #1	API Number 30 025 34498	Facility Type WELL
Surface Owner STATE	Mineral Owner STATE	Lease No. V-4415

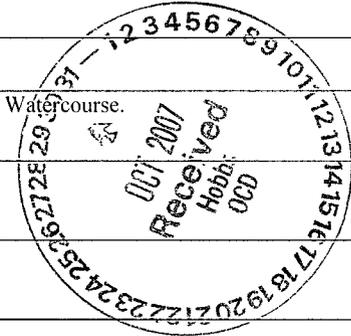
LOCATION OF RELEASE

Unit Letter H	Section 15	Township 16S	Range 32E	Feet from the 1650	North/South Line NORTH	Feet from the 700	East/West Line EAST	County LEA
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Latitude 32.92423 Longitude 103.74758

NATURE OF RELEASE

Type of Release CRUDE OIL	Volume of Release 20 B/O	Volume Recovered 15 B/O
Source of Release HEATER TREATER	Date and Hour of Occurrence 7/06/07 PM	Date and Hour of Discovery 7/6/07 PM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour N/A	
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 HEATER TREATER. HEATER TREATER REMOVED.		
Describe Area Affected and Cleanup Action Taken.* APPROXIMATE 30' X 100' X 2" AREA ON THE PAD WAS IMPACTED. VACUUMED ALL STANDING FLUID. EXCAVATED CONTAMINATED SOILS AND HAULED TO GANDY MARLEY DISPOSAL FACILITY. 8/7/07: PRELIMINARY SAMPLES OBTAINED AREA NEAR HEATER TREATER HAD TPH LEVELS ABOVE RRALS. (8/7/07 SAMPLE POINT DIAGRAM AND ANALYTICAL REPORT ATTACHED.) HEATER TREATER REMOVED AND FERTILIZER WAS RAKED INTO SOILS. 10/17/07: SOIL SAMPLES OBTAINED. SOIL SAMPLE ANALYSES BELOW RRALS. (10/17/07 SAMPLE POINT DIAGRAM AND ANALYTICAL REPORT ATTACHED) SOIL ANALYSES REPORTS DEMONSTRATE COMPLIANCE WITH RRALS REQUESTING CLOSURE TO INCIDENT. FINAL REPORT.		
Depth to Ground Water: <u>>100'</u> ; Wellhead protection? <u>NQ</u> ; Distance to surface water: <u>>1000'</u> . SITE RANKING: <u>0</u> .		

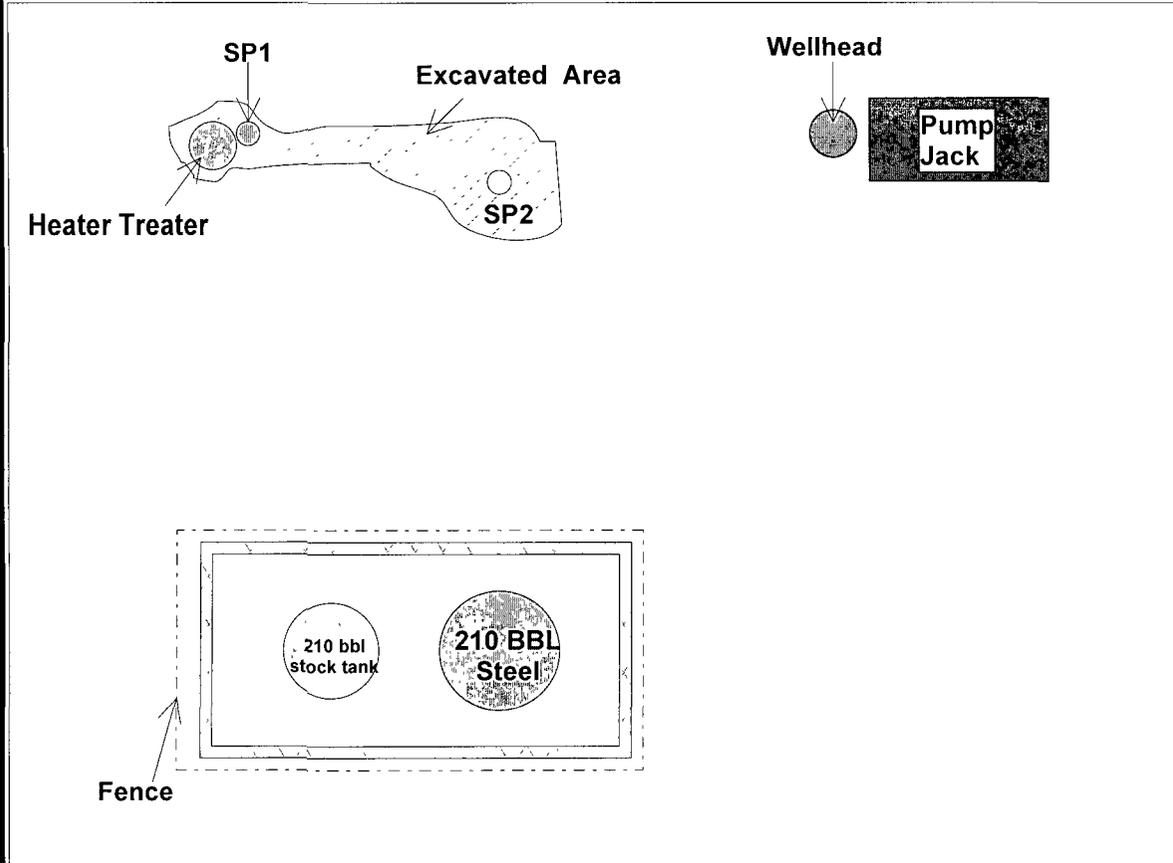


I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: Sherry Bonham		Approved by District Supervisor:	
Title: Environmental Regulatory Agent		Approval Date: <u>10/31/07</u>	Expiration Date:
E-mail Address: sherryb@ypcnm.com		Conditions of Approval:	
Date: October 23, 2007		Attached <input type="checkbox"/>	
Phone: 505.748.1471			

* Attach Additional Sheets If Necessary

RP#1651



Sample ID	Sample Date	Sample Type	Depth	BTEX	TPH (GRO)	TPH (DRO)	TPH (TOTAL)
SP1	8/7/2007	Grab	8"	0.0334	241	5900	6141
SP2	8/7/2007	Grab	8"	Non-Detect	30.5	3510	3540.5

Site Ranking is Zero (0). Depth to Ground Water > 100'

Analytical testing performed at Environmental Lab of Texas All results are ppm



RUBY ASV STATE 1

Sec. 15 T16S R32E

Lea County, NM

SAMPLE POINT DIAGRAM

Prepared by Sherry Bonham

Sample Date: August 7, 2007

(Not to Scale)

Analytical Report 287585

for

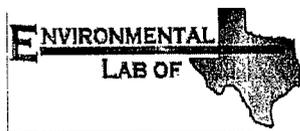
Yates Petroleum Corporation

Project Manager: Sherry Bonham

Ruby ASV State 1

3002534498

21-AUG-07



12600 West I-20 East Odessa, Texas 79765

A Xenco Laboratories Company

NELAC certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America



21-AUG-07

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

Reference: XENCO Report No: **287585**
Ruby ASV State 1
Project Address: 15-16S32E

Sherry Bonham:

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 287585. 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. 287585 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

Odessa Laboratory Director

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

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Certificate of Analysis Summary 287585

Yates Petroleum Corporation, Artesia, NM

Project Name: Ruby ASV State 1



Project Id: 3002534498

Contact: Sherry Bonham

Project Location: 15-16S32E

Date Received in Lab: Thu Aug-09-07 11:30 am

Report Date: 21-AUG-07

Project Manager: Brent Barron, II

<i>Analysis Requested</i>	<i>Lab Id:</i>	287585-001	287585-002				
	<i>Field Id:</i>	SP1	SP2				
	<i>Depth:</i>						
	<i>Matrix:</i>	SOIL	SOIL				
	<i>Sampled:</i>	Aug-07-07 12:45	Aug-07-07 13:00				
BTEX by EPA 8021B	<i>Extracted:</i>	Aug-16-07 12:11	Aug-16-07 12:11				
	<i>Analyzed:</i>	Aug-16-07 23:14	Aug-16-07 23:35				
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				
Benzene		ND 0.0023	ND 0.0022				
Toluene		ND 0.0023	ND 0.0022				
Ethylbenzene		0.0040 0.0023	ND 0.0022				
m,p-Xylene		0.0214 0.0045	ND 0.0044				
o-Xylene		0.0080 0.0023	ND 0.0022				
Total Xylenes		0.0294	ND				
Total BTEX		0.0334	ND				
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	Aug-13-07 11:15	Aug-13-07 11:20				
	<i>Units/RL:</i>	% RL	% RL				
Percent Moisture		11.8	9.83				
TPH by SW 8015B	<i>Extracted:</i>	Aug-13-07 09:33	Aug-13-07 09:33				
	<i>Analyzed:</i>	Aug-14-07 12:45	Aug-14-07 14:01				
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				
C6-C10 Gasoline Range Hydrocarbons		241 11.3	30.5 11.1				
C10-C28 Diesel Range Hydrocarbons		5900 11.3	3510 11.1				
Total TPH		6141	3540.5				

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


Brent Barron
Odessa Laboratory Director



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.

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 2505 N. Falkenburg Rd., Tampa, FL 33619
 5757 NW 158th St, Miami Lakes, FL 33014

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(214) 902 0300	(214) 351-9139
(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555



Form 2 - Surrogate Recoveries



Project Name: Ruby ASV State 1

Work Order #: 287585

Project ID: 3002534498

Lab Batch #: 702725

Sample: 287585-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.1182	0.1000	118	80-120	

Lab Batch #: 702725

Sample: 287585-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0989	0.1000	99	80-120	

Lab Batch #: 702725

Sample: 287856-004 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.1140	0.1000	114	80-120	

Lab Batch #: 702725

Sample: 287856-004 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.1175	0.1000	118	80-120	

Lab Batch #: 702725

Sample: 498325-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0801	0.1000	80	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries



Project Name: Ruby ASV State 1

Work Order #: 287585

Project ID: 3002534498

Lab Batch #: 702725

Sample: 498325-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
4-Bromofluorobenzene	0.0736	0.1000	74	80-120	*

Lab Batch #: 702247

Sample: 287445-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	62.1	50.0	124	70-135	
1-Chlorooctane	66.9	50.0	134	70-135	

Lab Batch #: 702247

Sample: 287445-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	53.5	50.0	107	70-135	
1-Chlorooctane	60.7	50.0	121	70-135	

Lab Batch #: 702247

Sample: 287585-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	50.3	50.0	101	70-135	
1-Chlorooctane	56.6	50.0	113	70-135	

Lab Batch #: 702247

Sample: 287585-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW 8015B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctadecane	50.9	50.0	102	70-135	
1-Chlorooctane	51.1	50.0	102	70-135	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries



Project Name: Ruby ASV State 1

Work Order #: 287585

Project ID: 3002534498

Lab Batch #: 702247

Sample: 498161-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctadecane	51.1	50.0	102	70-135	
1-Chlorooctane	54.8	50.0	110	70-135	

Lab Batch #: 702247

Sample: 498161-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY

TPH by SW 8015B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctadecane	46.1	50.0	92	70-135	
1-Chlorooctane	45.9	50.0	92	70-135	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery



Project Name: Ruby ASV State 1

Work Order #: 287585

Project ID:

3002534498

Lab Batch #: 702725

Sample: 498325-1-BKS

Matrix: Solid

Date Analyzed: 08/16/2007

Date Prepared: 08/16/2007

Analyst: SHE

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

BTEX by EPA 8021B	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
Benzene	ND	0.0500	0.0468	94	70-130	
Toluene	ND	0.0500	0.0486	97	70-130	
Ethylbenzene	ND	0.0500	0.0518	104	71-129	
m,p-Xylene	ND	0.1000	0.0909	91	70-135	
o-Xylene	ND	0.0500	0.0499	100	71-133	

Lab Batch #: 702247

Sample: 498161-1-BKS

Matrix: Solid

Date Analyzed: 08/14/2007

Date Prepared: 08/13/2007

Analyst: CELKEE

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

TPH by SW 8015B	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes						
C6-C10 Gasoline Range Hydrocarbons	ND	500	624	125	70-135	
C10-C28 Diesel Range Hydrocarbons	ND	500	600	120	70-135	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.



Form 3 - MS / MSD Recoveries



Project Name: Ruby ASV State 1

Work Order #: 287585

Project ID: 3002534498

Lab Batch ID: 702725

QC- Sample ID: 287856-004 S

Batch #: 1 Matrix: Soil

Date Analyzed: 08/17/2007

Date Prepared: 08/16/2007

Analyst: SHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Benzene	ND	0.1369	0.1228	90	0.1369	0.1197	87	3	70-130	35
Toluene	ND	0.1369	0.1207	88	0.1369	0.1172	86	2	70-130	35	
Ethylbenzene	ND	0.1369	0.1159	85	0.1369	0.1147	84	1	71-129	35	
m,p-Xylene	ND	0.2737	0.2055	75	0.2737	0.2057	75	0	70-135	35	
o-Xylene	ND	0.1369	0.1111	81	0.1369	0.1104	81	0	71-133	35	

Lab Batch ID: 702247

QC- Sample ID: 287445-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 08/14/2007

Date Prepared: 08/13/2007

Analyst: CELKEE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH by SW 8015B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	C6-C10 Gasoline Range Hydrocarbons	14.2	560	852	150	560	836	147	2	70-135	35
C10-C28 Diesel Range Hydrocarbons	1460	560	1400	0	560	1200	0	NC	70-135	35	X

Matrix Spike Percent Recovery $[D] = 100 \cdot (C-A)/B$
Relative Percent Difference $RPD = 200 \cdot (D-G)/(D+G)$

Matrix Spike Duplicate Percent Recovery $[G] = 100 \cdot (F-A)/E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit



Sample Duplicate Recovery



Project Name: Ruby ASV State 1

Work Order #: 287585

Lab Batch #: 702239

Project ID: 3002534498

Date Analyzed: 08/13/2007

Date Prepared: 08/13/2007

Analyst: JLG

QC- Sample ID: 287585-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	11.8	12.6	7	20	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$

All Results are based on MDL and validated for QC purposes.

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

Client Yates
 Date/ Time 8-9-07 11:30
 Lab ID # 287585
 Initials al

Sample Receipt Checklist

	Yes	No	Client Initials
#1 Temperature of container/ cooler?	<input checked="" type="checkbox"/>		2.5 °C
#2 Shipping container in good condition?	<input checked="" type="checkbox"/>		
#3 Custody Seals intact on shipping container/ cooler?	<input checked="" type="checkbox"/>		Not Present
#4 Custody Seals intact on sample bottles/ container?	<input checked="" type="checkbox"/>		Not Present
#5 Chain of Custody present?	<input checked="" type="checkbox"/>		
#6 Sample instructions complete of Chain of Custody?	<input checked="" type="checkbox"/>		
#7 Chain of Custody signed when relinquished/ received?	<input checked="" type="checkbox"/>		
#8 Chain of Custody agrees with sample label(s)?	<input checked="" type="checkbox"/>		ID written on Cont / Lid
#9 Container label(s) legible and intact?	<input checked="" type="checkbox"/>		Not Applicable
#10 Sample matrix/ properties agree with Chain of Custody?	<input checked="" type="checkbox"/>		
#11 Containers supplied by ELOT?	<input checked="" type="checkbox"/>		
#12 Samples in proper container/ bottle?	<input checked="" type="checkbox"/>		See Below
#13 Samples properly preserved?	<input checked="" type="checkbox"/>		See Below
#14 Sample bottles intact?	<input checked="" type="checkbox"/>		
#15 Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/>		
#16 Containers documented on Chain of Custody?	<input checked="" type="checkbox"/>		
#17 Sufficient sample amount for indicated test(s)?	<input checked="" type="checkbox"/>		See Below
#18 All samples received within sufficient hold time?	<input checked="" type="checkbox"/>		See Below
#19 Subcontract of sample(s)?	<input checked="" type="checkbox"/>		Not Applicable
#20 VOC samples have zero headspace?	<input checked="" type="checkbox"/>		Not Applicable

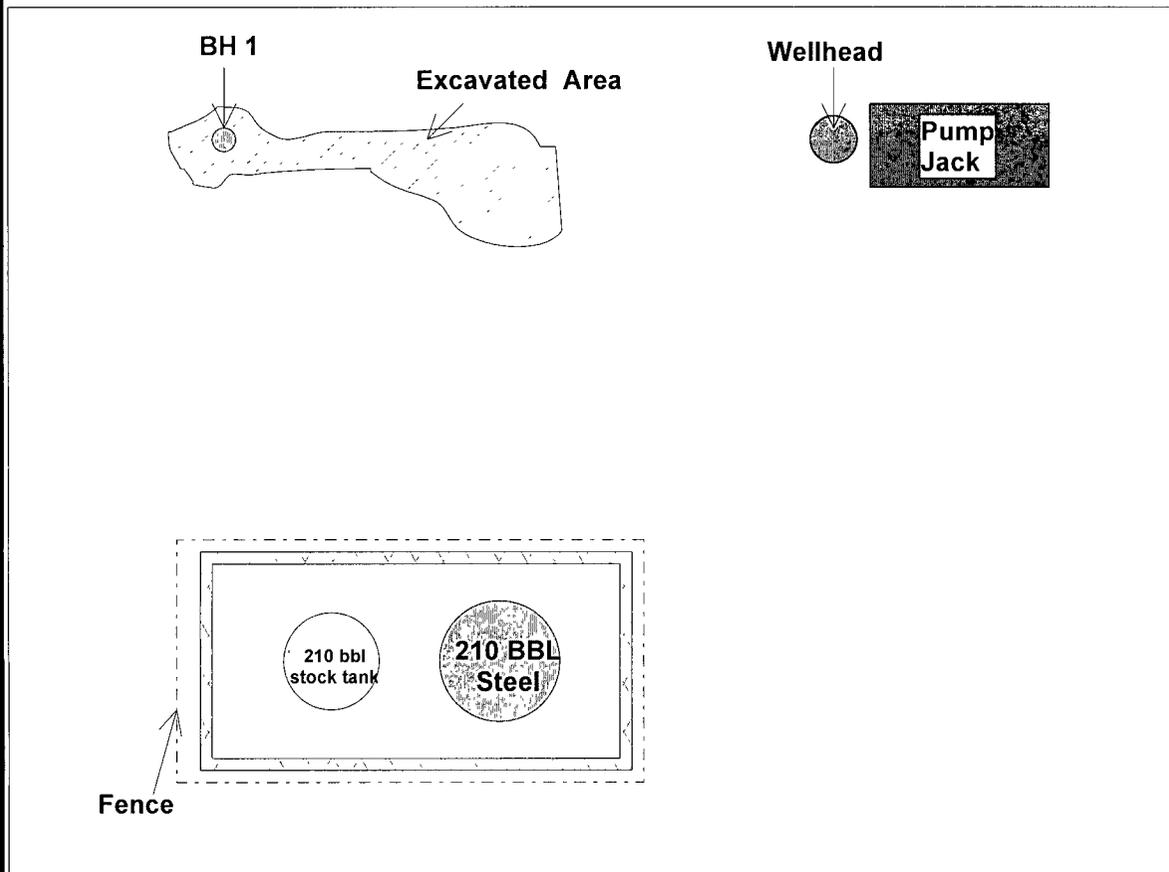
Variance Documentation

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



Sample ID	Sample Date	Sample Type	Depth	BTEX	TPH (GRO)	TPH (DRO)	TPH (TOTAL)
BH1	10/17/2007	Grab	8"	<0.02	2.4	2380	2382.4

Site Ranking is Zero (0). Depth to Ground Water > 100'

Analytical testing performed at Trace Analysis, Inc. All results are ppm



RUBY ASV STATE 1

Sec. 15 T16S R32E

Lea County, NM

SAMPLE POINT DIAGRAM

Prepared by Sherry Bonham

Sample Date: October 17, 2007

(Not to Scale)

TRACE ANALYSIS, INC.

0701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1296
200 East Sunset Hoag, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•281•5260
E-Mail tau@traceanalysis.com

Analytical and Quality Control Report

Sherry Bonham
Yates Petroleum Corp.
105 South 4th South
Artesia, NM, 88210

Report Date: October 24, 2007

Work Order: 7101817



Project Location: Lea County, NM
Project Name: Ruby AVS ST. COM. #1
Project Number: YATESPO50SPL

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
139522	BH-1	soil	2007-10-17	09:40	2007-10-18

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 8 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project Ruby AVS ST. COM. #1 were received by TraceAnalysis, Inc. on 2007-10-18 and assigned to work order 7101817. Samples for work order 7101817 were received intact at a temperature of 3.2 deg C.

Samples were analyzed for the following tests using their respective methods.

Test	Method
BTEX	S 8021B
TPH DRO	Mod. 8015B
TPH GRO	S 8015B

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 7101817 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 139522 - BH-1

Analysis: BTEX	Analytical Method: S 8021B	Prep Method: S 5035
QC Batch: 42242	Date Analyzed: 2007-10-19	Analyzed By: DC
Prep Batch: 36425	Sample Preparation: 2007-10-18	Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.0200	mg/Kg	2	0.0100
Toluene		<0.0200	mg/Kg	2	0.0100
Ethylbenzene		<0.0200	mg/Kg	2	0.0100
Xylene		<0.0200	mg/Kg	2	0.0100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.54	mg/Kg	2	2.00	77	39.6 - 116
4-Bromofluorobenzene (4-BFB)		1.32	mg/Kg	2	2.00	66	47.3 - 144.2

Sample: 139522 - BH-1

Analysis: TPH DRO	Analytical Method: Mod. 8015B	Prep Method: N/A
QC Batch: 42207	Date Analyzed: 2007-10-19	Analyzed By: LD
Prep Batch: 36449	Sample Preparation: 2007-10-19	Prepared By: LD

Parameter	Flag	RL Result	Units	Dilution	RL
DRO		2380	mg/Kg	1	50.0

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Triacontane	1	1340	mg/Kg	1	150	893	17.3 - 169.6

Sample: 139522 - BH-1

Analysis: TPH GRO	Analytical Method: S 8015B	Prep Method: S 5035
QC Batch: 42221	Date Analyzed: 2007-10-19	Analyzed By: DC
Prep Batch: 36425	Sample Preparation: 2007-10-18	Prepared By: DC

Parameter	Flag	RL Result	Units	Dilution	RL
GRO		2.40	mg/Kg	2	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.40	mg/Kg	2	2.00	70	50.2 - 89.3
4-Bromofluorobenzene (4-BFB)		1.50	mg/Kg	2	2.00	75	50.8 - 131.6

¹High surrogate recovery due to peak interference.

control spikes continued . . .

Param	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec.		RPD
	Result	Units					Limit	RPD	
Toluene	0.930	mg/Kg	1	1.00	<0.00150	93	76.3 - 116.5	4	20
Ethylbenzene	0.928	mg/Kg	1	1.00	<0.00160	93	77.6 - 114	5	20
Xylene	2.81	mg/Kg	1	3.00	<0.00410	94	78.8 - 113.9	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS	LCSD	Units	Dil.	Spike Amount	LCS	LCSD	Rec. Limit
	Result	Result				Rec.	Rec.	
Trifluorotoluene (TFT)	0.673	0.676	mg/Kg	1	1.00	67	68	56.1 - 107.8
4-Bromofluorobenzene (4-BFB)	0.636	0.631	mg/Kg	1	1.00	64	63	56.2 - 118.8

Matrix Spike (MS-1) Spiked Sample: 139522

QC Batch: 42207 Date Analyzed: 2007-10-19 Analyzed By: LD
 Prep Batch: 36449 QC Preparation: 2007-10-19 Prepared By: LD

Param	MS	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
	Result						
DRO	² 2970	mg/Kg	1	250	2380	236	30.2 - 201.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
	Result								
DRO	³ 3240	mg/Kg	1	250	2380	344	30.2 - 201.4	9	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS	MSD	Units	Dil.	Spike Amount	MS	MSD	Rec. Limit
	Result	Result				Rec.	Rec.	
n-Triacontane	^{4 5} 1810	2070	mg/Kg	1	150	1207	1380	10 - 194

Matrix Spike (MS-1) Spiked Sample:

QC Batch: 42221 Date Analyzed: 2007-10-19 Analyzed By: DC
 Prep Batch: 36425 QC Preparation: 2007-10-18 Prepared By: DC

Param	MS	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
	Result						
GRO	6.26	mg/Kg	1	10.0	1.7899	45	10 - 102.2

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
	Result								
GRO	6.10	mg/Kg	1	10.0	1.7899	43	10 - 102.2	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

²Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

³Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

⁴High surrogate recovery due to peak interference.

⁵High surrogate recovery due to peak interference.

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E-mail:
Project Name: YATES PET ROYUM SATELY BOVILLAM
Project #: YATESP4505PL
Project Location (including state): RUR4 'ANS' ST. COM #3
Sampler Signature: [Signature]

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE	8021B / 602 / 8260B / 624	<input checked="" type="checkbox"/>
BTEX (8021B)	602 / 8260B / 624	<input checked="" type="checkbox"/>
TPH 418.1 / TX1005 / TX1005 EX(C35)		<input checked="" type="checkbox"/>
TPH 8015 (GRO/ORG) / TVHC		<input checked="" type="checkbox"/>
PAH 8270C / 625		<input type="checkbox"/>
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7		<input type="checkbox"/>
TCLP Metals Ag As Ba Cd Cr Pb Se Hg		<input type="checkbox"/>
TCLP Semi Volatiles		<input type="checkbox"/>
TCLP Pesticides		<input type="checkbox"/>
RCI		<input type="checkbox"/>
GC/MS Vol. 8260B / 624		<input type="checkbox"/>
GC/MS Semi. Vol. 8270C / 625		<input type="checkbox"/>
PCBs 8082 / 608		<input type="checkbox"/>
Pesticides 8081A / 608		<input type="checkbox"/>
BOD, TSS, pH		<input type="checkbox"/>
Moisture Content		<input type="checkbox"/>
Turn Around Time if different from standard		<input type="checkbox"/>

LAB # LAB USE ONLY	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX			PRESERVATIVE METHOD					SAMPLING			
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME
139522	BH-1	1		X							X			11/17	7:40

Relinquished by: [Signature] Date: 12/18/07 Time: 9:30
 Received by: Michele Wehner Date: 12/19/07 Time: 9:30
 Relinquished by: [Signature] Date: 12/18/07 Time: 1315
 Received by: [Signature] Date: 12/18/07 Time: 1315

LAB USE ONLY
 Impact
 Headspace
 Temp
 Log in Review
 REMARKS: all tests - midland
 Dry Weight Basis Required
 TRRP Report Required
 Check If Special Reporting Limits Are Needed
 Carrier # Langdon