MARTIN YATES, III

FRANK W. YATES

S.P. YATES



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

JOHN D. PERINI

RECEIVED
APR 2 6 2011

NMOCD ARTESIA

February 24, 2010

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

RE:

State D SWD #1

30-015-21572

Section 16, T20S-R24E 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 July 15, 2009. Vertical and horizontal delineation samples were taken on August 11, 2009 and February 17, 2010 and sent to an NMOCD approved laboratory. Results (enclosed) of sample GS/Comp-002 (2/17/2010) show elevated Total TPH which probably indicates an isolated pocket of contamination within the composite grab sample. The Diesel Range Hydrocarbons are at 3290 ppm putting the Total THP at 5110 and slightly above the Total Ranking Score of 5000ppm and very likely historical, and low mobility with the depth to ground water at approximately 350'. Yates Petroleum Corporation requests these soils be left in place until the time the battery is no longer in service and be addressed at that future time. Yates Petroleum Corporation requests closure.

Thank you.

YATES PETROLEUM CORPORATION

Robert Asher

**Environmental Regulatory Agent** 

Enclosure(s)

/rca

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

\* Attach Additional Sheets If Necessary

# State of New Mexico Energy Minerals and Natural Resources

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

1	RECEIVED	Form C-141
	APR <b>26</b> 2011 District	vised October 10, 2003 Oppies to appropriate
	NMOCD ARTESIA	Office in accordance th Rule 116 on back side of form

## **Release Notification and Corrective Action**

				OI	PERA	TOR			Initial	Report		Final Report					
Name of Co	mpany			OGRID Nun	iber (	Contact											
Yates Petrol	eum Corp	oration		25575		Robert Ashe	<del></del>										
Address						Telephone N											
104 S. 4 <sup>TH</sup> S						575-748-14											
Facility Nar				API Number		Facility Typ	e										
State D SW	D #1			30-015-21572	2 ]	Battery											
Surface Ow	nor			Mineral C	lumor			- 1	Lease N	Īo							
State	1101			State	WIICI			,	V-2531	10.		•					
State					<del></del>				V-2331		.,						
		T				OF REI		<del></del>		<del></del>							
Unit Letter	Section   Township   Range   Feet from the   North/South Line   Feet from the   East/West Line   County																
N	10	203	24E	000		South	1980	wes	St	Eddy							
	<u> </u>		1	T (14 1 22)		T	101 50103	1		l							
				Latitude_32.	06807	Longitude	104.59483										
				NAT	URE	OF RELI	EASE .										
Type of Rele				· · · · · · · · · · · · · · · · · · ·		Volume of	Release	<b>I</b>		Recovered							
Produced Wa Source of Re					<u> </u>	110 B/PW	In a f O and a man		00 B/PW								
Pump contain		s1				7/15/2009,	Iour of Occurrenc		ate and /15/2009	Hour of Disco	overy						
Was Immedia				<del></del>		If YES, To		1 11	13/2003	/, Alvi							
i i i i i i i i i i i i i i i i i i i			Yes [	No Not Re	equired		her/NMOCD, A	rtesia									
By Whom?						Date and F		<del></del>									
	/Yates Petr	oleum Corpor	ation			7/15/2009,	•										
Was a Water				_		If YES, Vo	olume Impacting	the Waterco	ourse.			_					
			Yes 🗵		···	N/A											
If a Watercou	irse was Im	pacted, Descr	ibe Fully.	<del>*</del>													
	se of Probl	em and Reme	dial Actio	n Taken.*													
				sump pump burne	d out, ca	using contain	nment vessel to o	verflow. Is	olated li	ne, called vac	uum	truck.					
		and Cleanup A															
				ck recovered rema													
he submitted	to the OCE	BTEX (chloric ) requesting cl	des for do	cumentation). If i ill submit work pl	nınaran an if fur	aiyticai tesui ther remediai	ts for 1PH_&_BT	Exare.und Depth to G	er KKAI Found V	L:Sa:Finai K€ Water•>100°	eport, Lann	C-14.1 WIII					
Wellhead Pr	otection A	rea: No. Dist	ance to Si	irface Water Boo	un n tan Iv: >10€	00'. SITE RA	NKING IS 0. E	Based on en	iclosed :	analytical res	sults.	amount of					
produced wa	iter recove	red and dept	h to grou	nd water, Yates I	Petroleu	m Corporat	ion requests clos	ure.		•							
I hereby certi	fy that the	information g	iven above	e is true and comp	lete to th	ne best of my	knowledge and t	understand	that purs	suant to NMC	CD r	ules and					
regulations a	l operators	are required t	o report a	nd/or file certain r	elease n	otifications a	nd perform corre	ctive action	is for rel	eases which r	nay er	ndanger					
public health	or the envi	ronment. The	acceptan	ce of a C-141 repo	ort by the	e NMOCD m	arked as "Final R	leport" doe:	s not rel	ieve the opera	itor of	fliability					
or the environ	perations r	ddition NMC	adequatery	vinvestigate and rotance of a C-141	report d	e contaminati	on that pose a thi	reat to grou	ina watei	r, surface wat	er, nu	man nealth					
		ws and/or regi		otanice of a C-1+1	героп а	oes not renev	e the operator of	responsion	illy for C	omphance wi	tii aii	y other					
							OIL CON	SERVA	TION	DIVISIO	N						
	( ) .				İ		OIL COIV	DERVIL	11011	DIVIDIO	1.1	į					
Signature:	120	4/11															
Printed Name	e. Robert A	cher				Approved by	District Supervis	sor:				l.					
Timed Hall	. ROUGH A	anor															
Title: Enviro	nmental Re	gulatory Ager	nt			Approval Da	te:	Ex <sub>1</sub>	piration	Date:							
Г						C Inc											
E-mail Addre	ess: boba@	yatespetroleur	n.com			Conditions o	t Approval:			Attached							
Date: Wedne	sday, Febru	ary 24, 2010		Phone: 575-748-	1471	2RP-											

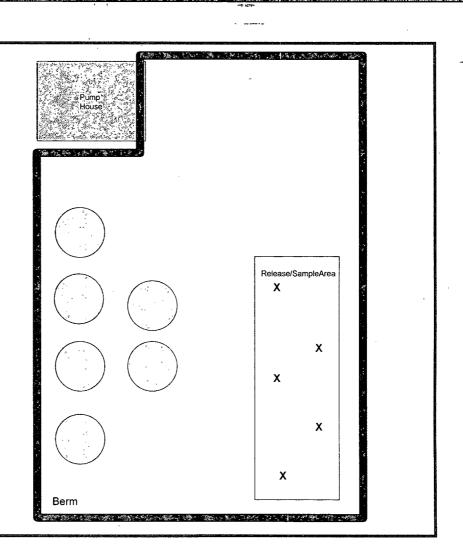
|District | 1625 N. French Dr., Hobbs, NM 88240 | District II | 1301 W. Grand Avenue, Artesia, NM 88210 | District III | 1600 Rio Brazos Road, Aztec, NM 87410 | District IV | 1220 S. St. Francis Dr., Santa Fe, NM 87505

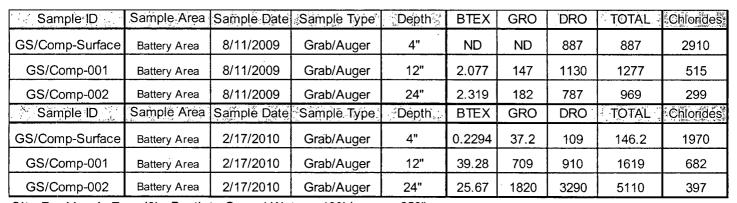
## State of New Mexico Energy Minerals and Natural Resources

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

	on and Corrective Action												
· / / / / / · · · · · · · · · · · · · ·	RATOR   Initial Report   Final Report												
Name of Company OGRID Number Yates Petroleum Componation 25575	Contact Robert Asher												
Yates Petroleum Corporation 25575  Address	Telephone No.												
104 S. 4 <sup>TH</sup> Street	505-748-1471												
Facility Name API Number	Facility Type												
State D SWD #1 30-015-21572	Battery												
Surface Owner Mineral Own	er I.ease No.												
State State	V-2531												
LOCATI	ON OF RELEASE												
	orth/South Line   Feet from the   East/West Line   County												
- N   16   205   24E   660	South 1980 West Eddy												
Lutituda 32 568	07_ Longitude 104,59483												
	RE OF RELEASE    Volume of Release   Volume Recovered												
Type of Release Produced Water	Volume of Release Volume Recovered 110 B/PW 100 B/PW												
Source of Release	Date and Hour of Occurrence Date and Hour of Discovery												
Pump containment vessel Was Immediate Notice Given?	7/15/2009, AM 7/15/2009, AM 1f YES, To Whom?												
✓ Yes ☐ No ☐ Not Requir													
By Whom?	Date and Hour												
Robert Asher/Yates Petroleum Corporation	7/15/2009. PM												
Was a Watercourse Reached?   Yes ⊠ 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.*													
	it, causing containment vessel to overflow. Isolated line, called vacuum truck.												
Describe Area Affected and Cleanup Action Taken.*													
	ig produced water. Vertical and horizontal defineation samples will be taken and all analytical results for TPH & BTEX are under RRAL's a Final Report, C-141 will												
be submitted to the OCD requesting closure. Will submit work plan is	f further remediation is required. Depth to Ground Water: >100' (approx. 350'),												
Wellhead Protection Area: No. Distance to Surface Water Body:	>1000', SITE RANKING IS 0. to the best of my knowledge and understand that pursuant to NMOCD rules and												
	se notifications and perform corrective actions for releases which may endanger												
	y the NMOCD marked as "Final Report" does not relieve the operator of liability												
	diate contamination that pose a threat to ground water, surface water, human health ort does not relieve the operator of responsibility for compliance with any other												
federal, state, or local laws and/or regulations.													
$\bigcirc$	OIL CONSERVATION DIVISION												
Signature: Signature:													
Printed Name: Robert Asher	Approved by District Byor MI/4 DESTRUCTE												
	4/2//												
Title: Environmental Regulatory Agent	Approval Date: 4/2//// Expiration Date:												
E-mail Address: boba@ypcnm.com	Conditions of Approval:												
Date: Wednesday, July 22, 2009 Phone: 505-748-1471	Remediation per OCD Rules &												
Attach Additional Sheets If Necessary	Guidelines. SUBMIT REMEDIATION												
	PROPOSAL NOT LATER THAN: 2 RP 755												
	5/21/11												





Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 350').

All results are ppm. Chloride results are for documentation. X - Sample Points



Lease Road

State D SWD #1

30-015-21572

Section 16 T20S-R24E

**Eddy County, NM** 

#### **SAMPLE DIAGRAM (Not to Scale)**

Xenco Laboratories: #340666 Report Date: 8/18/2009

Xenco Laboratories: #362835 & 362836

Report Date: 2/24/2010
Prepared by Robert Asher
Environmental Regulatory Agent

# Analytical Report 362836

for

# Yates Petroleum Corporation

Project Manager: Robert Asher

State D SWD # 1 30-015-21572

24-FEB-10





#### 12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-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)

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALII), 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: FL00449):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295)







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

Reference: XENCO Report No: 362836

State D SWD # 1

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 362836. 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.-362836-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

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

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America







# Yates Petroleum Corporation, Artesia, NM

State D SWD # 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GS/Comp-Surface	S	Feb-17-10 09:43	4 - 4 In	362836-001
GS/Comp-001	S	Feb-17-10 09:59	1 - 1 ft	362836-002
GS/Comp-002	S	Feb-17-10 10:18	2 - 2 ft ·	362836-003

### CASE NARRATIVE



Client Name: Yates Petroleum Corporation

Project Name: State D SWD # 1



Project ID:

30-015-21572

Work Order Number: 362836

Report Date: 24-FEB-10 Date Received: 02/19/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-794783 Percent Moisture

None

Batch: LBA-794973 Anions in Soil By EPA 300.0

None



## Certificate of Analysis Summary 362836

## Yates Petroleum Corporation, Artesia, NM

Project Name: State D SWD # 1



Project Id: 30-015-21572

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Fri Feb-19-10 09:35 am

Report Date: 24-FEB-10

Project Manager: Brent Barron, II

					Libject Wallager: Diene Betten, in
	Lah Id:	362836-001	362836-002	362836-003	
Analysis Requested	Field 1d:	GS/Comp-Surface	GS/Comp-001	GS/Comp-002	
Analysis Requesteu	Depth:	4-4 In	l-1 ft	2-2 ft	
	Matrix:	SOIL	SOIL	SOIL	
	Sampled:	Feb-17-10 09:43	Feb-17-10 09:59	Feb-17-10 10:18	
Anions in Soil By EPA 300.0	Extracted:				!
	Analyzed:	Feb-22-10 19:16	Feb-22-10 19:16	Feb-22-10 19:16	
	Units/RL:	mg/kg RL	nig/kg RL	mg/kg RL	
Chloride		1970 49.5	682 20.0	397 20.2	1
Percent Moisture	Extracted:				
	Analyzed:	Fcb-19-10 17:00	Feb-19-10 17:00	Feb-19-10 17:00	
	Units/RL:	% RL	% RL	% RL	
Percent Moisture		15.2 1.00	16.1 1.00	16.8 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

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	FHORE	гах
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

<sup>\*</sup> Outside XENCO's scope of NELAC Accreditation.

# Page 10.of 11

# **XENCO-Environmental Lab of Texas**

#### 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			<del></del>		Cooler	#										_	Proje	ect	Nar	ne:	Sta	te D	SV	VD #	/1							
	Company Name	Yates Petroleum	Corpora	tion '			·····											Project #: 30-015-21572																
	Company Address:	105 South 4th Str	reet							<u></u> ;								_	Project Loc: Eddy County															
	City/State/Zip:	Artesia, NM 882	10	1														_			PC	) #:_	1056	332										
	Telephone No:	505-748-4217					_ Fa	x No:		50	5-748	8-466	62					Re	port I	For	mat	: [	X (	Stan	dard			] TR	:RP			NPDI	ES	
	Sampler Signature:	Deur	<i>∕ ₀</i> (		`		_ e-	mail:		,	b	oba	@уа	tes	petr	oleu	m.c	om														_		
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ORDE	r#:362835	1362834	0	;		•	<del>,</del>		,	,	F	Preser	rvation	18#	of Co	ontaine	ers	Mat	ix	8015B	7		TOTA	1	e R	+	8250	-				:	48, 72 h	
LAB # (tab use onty)	FIEL	.D CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled		Field Filtered	Total #, of Containers	lce	HNO,	D C	H,50.	NeOH	None	Other (Specify)	DW≥ Orinking Water SL=Sludge GW ≥ Groundwater S=Soll/Solid	m-Potable Specify Other	418.1 8015M	ı	Cations (Ca, Mg, Na, K)	Anions (Ct, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg	Semivolatiles	75030 or BTEX		N.O.R.M.	Chlorides		PHOH TAT IN	KUSH IAI (Pre-Schedule) 24,	Standard TAT
01	GS/Co	mp-Surface		4"	4"	2/17/2010	9:43 /	ÅМ	_	1								s		X							Х			х	$\prod$	I	_	Х
20	<del>                                     </del>	Comp-001		1'	1'	2/17/2010	9:59 A		L	1	Н	$\dashv$	-	4		4	<u> </u>	s		X		_	4	$\downarrow$	_	_	X	+	Ш	X	$\dashv$	$\downarrow$	4	X
03	GS/C	Comp-002		2	2'	2/17/2010	10:18	AM_		1	Н	-	+	+	+	+	$\vdash$	S		X	-	$\dashv$	+	+	+	+	X	H		X	$\dashv$	+	-	X
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pecial I	nstructions:		В, ВТЕ	X 802	18 &	Chlorides. P	lease sh	iow re	su	its a	s m	g/kg	<u>.l.</u> j. Ti	han	ık yo	Ju.		L			ļ	samı	ole C	onta	iner	nent s inte	act?				<u></u> _	й. М	_1	Ģ
Relinquist Robert As Relinquist	her PCA (4)	PC 02/	Oate /18/10 Oale		PM ne	Received by: Received by:				-							Da Da	ite	Tir	me		abe Custo Custo Samp b	ody sole l- y Sa y Co	conseals leak land mple uner	taine s on s on Deli r/Clie	er(s), conta cools vere- ent Ro UP	ainer( er(s) d ep. 7	(s) DHL			A CASCASS	N N N N N one S	· 	•
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Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

•	•		
			:
		* *	
Checklist			
			lient Initials
	No	4.6 °C	
Yes	No		
(Yes)	No	Not Present	
<b>(P)</b>	No	Not Present	
Yes	No		
	No		
		<del></del>	
		Not Applicable	
	No		<u> </u>
	No		
	No	See Below	
Yes	No	See Below	,
Yes	No		
Yes	No		
Tes-	No		7
Yes	No	See Below	
Yes	No	See Below	
Yes	No	Not Applicable	
(Yes)	No		
mentation	<u>.</u>	Date/ Time:	
	<del></del>		
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ıld like to pro	ceed witti	r analysis	<u>}</u>
	Checklist  (199) (	Checklist  ( es	Company No

# **Analytical Report 362835**

for

## **Yates Petroleum Corporation**

Project Manager: Robert Asher

State D SWD # 1 30-015-21572

24-FEB-10





#### 12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-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)

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: FL00449):
Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295)





24-FEB-10

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

Reference: XENCO Report No: 362835

State D SWD # 1

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 362835. 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. 362835 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 362835**



# Yates Petroleum Corporation, Artesia, NM

State D SWD # 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GS/Comp-Surface	S	Feb-17-10 09:43	4 - 4 In	362835-001
GS/Comp-001	S	Feb-17-10 09:59	l - 1 ft	362835-002
GS/Comp-002	S	Feb-17-10 10:18	2 - 2 ft	362835-003

Page 3 of 16 Final Ver. 1.000



#### CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: State D SWD # 1



Project ID:

30-015-21572

Work Order Number: 362835

Report Date: 24-FEB-10

Date Received: 02/19/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-794718 TPH by SW 8015B

SW8015B\_NM

Batch 794718, C10-C28 Diesel Range Hydrocarbons recovered below QC limits in the Matrix

Spike and Matrix Spike Duplicate.

Samples affected are: 362835-002, -001, -003.

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

Control Limits

Batch: LBA-794778 Percent Moisture

None



## CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: State D SWD # 1



Project ID:

30-015-21572

Work Order Number: 362835

Report Date: 24-FEB-10

Date Received: 02/19/2010

Batch: LBA-795184 BTEX by EPA 8021

SW8021BM

Batch 795184, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 362835-002,362835-003,362835-001.

4-Bromofluorobenzene recovered below QC limits . Matrix interferences is suspected; data

confirmed by re-analysis

Samples affected are: 363035-011 S,363035-011 SD.

#### SW8021BM

Batch 795184, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 362835-002, -001, -003.

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

#### SW8021BM

Batch 795184, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene RPD was outside QC limits.

Samples affected are: 362835-002, -001, -003



## Certificate of Analysis Summary 362835

## Yates Petroleum Corporation, Artesia, NM

Project Name: State D SWD # 1



Project Id: 30-015-21572

Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Fri Feb-19-10 09:35 am

Report Date: 24-FEB-10 Project Manager: Brent Barron, II

					, — — — · · · · · · · · · · · · · · · ·	
Lab Id:	362835-001	362835-002	362835-003			
. Field Id:	GS/Comp-Surface	GS/Comp-001	GS/Comp-002			
Depth:	4-4 In	1-1 ft	2-2 ft			
Matrix:	SOIL	SOIL	SOIL			
Sampled:	Feb-17-10 09:43	Feb-17-10 09:59	Feb-17-10 10:18	1		
Extracted:	Feb-23-10 08:45	Feb-23-10 08:45	Feb-23-10 08:45	!		
Analyzed:	Feb-23-10 16:53	Feb-23-10 18:26	Feb-24-10 01:03	:		
Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	1		
	ND 0.0012	ND 0.0591	ND 0.0599	!		
	0.0049 0.0023	0.5123 0.1[182	3.593 0.1199			
	0.0249 0.0012	3.696 0.0591	1.888 0.0599			
	0.1063 0.0023	18.46 0.1 182	11.86 0.1199			
	0.0933 0.0012	16.61 0.0591	8.327 0.0599			
	0.1996 0.0012	35.07 0.0591	20.19 0.0599			
	0.2294 0.0012	39.28 0.0591	25.67 0.0599			,
Extracted:						
Analyzed:	Feb-19-10 17:00	Feb-19-10 17:00	Feb-19-10 17:00			
Units/RL:	% RL	% RL	% RL			
	15.2 1.00	16.1 [.00	16.7 1.00	i i		
Extracted:	Feb-19-10 11:45	Feb-19-10 11:45	Feb-19-10 11:45			
Analyzed:	Feb-20-10 04:46	Feb-20-10 05:14	Feb-20-10 05:41			
Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	1		
	37.2 17.7	709 179	1820. 180			
	109 17.7	910  179	3290 180			
	146 17.7	1619 179	5110 180			
	Field Id: Depth: Matrix: Sampled: Extracted: Analyzed: Units/RL:  Extracted: Analyzed: Units/RL:  Extracted: Analyzed: Analyzed:	Field Id: GS/Comp-Surface  Depth: 4-4 In  Matrix: SOIL  Sampled: Fcb-17-10 09:43  Extracted: Fcb-23-10 08:45  Analyzed: Fcb-23-10 16:53  Units/RL: mg/kg RL  ND 0.0012  0.0049 0.0023  0.0249 0.0012  0.1063 0.0023  0.0933 0.0012  0.1996 0.0012  0.1996 0.0012  Extracted: Analyzed: Fcb-19-10 17:00  Units/RL: % RL  15.2 1.00  Extracted: Fcb-19-10 11:45  Analyzed: Fcb-20-10 04:46  Units/RL: mg/kg RL  37.2 17.7  109 17.7	Field Id:         GS/Comp-Surface         GS/Comp-001           Depth:         4-4 In         1-1 ft           Matrix:         SOIL         SOIL           Sampled:         Fcb-17-10 09:43         Fcb-17-10 09:59           Extracted:         Fcb-23-10 08:45         Fcb-23-10 08:45           Analyzed:         Feb-23-10 16:53         Feb-23-10 18:26           Units/RL:         mg/kg         RL         mg/kg         RL           ND 0.0049         0.0012         ND 0.0591         ND 0.0591           0.0049         0.0023         0.5123         0.1 82           0.0249         0.0012         3.696         0.0591           0.1063         0.0023         18.46         0.1 82           0.0933         0.0012         35.07         0.0591           0.1996         0.0012         35.07         0.0591           Extracted:         Analyzed:         Feb-19-10 17:00         Feb-19-10 17:00           Units/RL:         %         RL         %         RL           Analyzed:         Feb-19-10 11:45         Feb-19-10 11:45         Feb-19-10 11:45           Analyzed:         Fcb-20-10 04:46         Fcb-20-10 05:14         mg/kg         RL           Units/RL:	Field Id:         GS/Comp-Surface         GS/Comp-001         GS/Comp-002           Depth:         4-4 In         1-1 ft         2-2 ft           Matrix:         SOIL         SOIL         SOIL           Sampled:         Fcb-17-10 09:43         Fcb-17-10 09:59         Feb-17-10 10:18           Extracted:         Fcb-23-10 08:45         Fcb-24-10 01:03         mg/kg         RL         Mg/kg         RL <th< td=""><td>  Lab Id:   362835-001   362835-002   362835-003   GS/Comp-002     Field Id:   GS/Comp-Surface   GS/Comp-001   GS/Comp-002     Depth:   4-4 ln</td><td>  Field Id:   GS/Comp-Surface   GS/Comp-00    GS/Comp-002     Depth:   4-4   In</td></th<>	Lab Id:   362835-001   362835-002   362835-003   GS/Comp-002     Field Id:   GS/Comp-Surface   GS/Comp-001   GS/Comp-002     Depth:   4-4 ln	Field Id:   GS/Comp-Surface   GS/Comp-00    GS/Comp-002     Depth:   4-4   In

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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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 Cantivell Lane Corpus Christi TX 78408	(361) 884-0371	(361) 884-9116

# Page 15 of 16

# **XENCO-Environmental Lab of Texas**

#### 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 Ashe	r	i			Cooler #											_	F	roje	ct N	lame	e: <u>S</u>	tate	D S	WE	) #1							
	Company Name Yates Petrole	eum Corpora	tion			,			:										ı	Proje	ect #	#: <u>30</u>	0-01	5-2°	157	2						;	
	Company Address: 105 South 4	th Street	:														_		Pro	ject	Loc	:: <u>E</u> c	idy C	oun	ty								
	City/State/Zip: Artesia, NM	88210								_										ı	PO #	#: 10	5632	2									
	Telephone No: 505-748-421	7	ı			Fax	No:		505	5-74	8-46	62					_	Rep	ort F	orm	at:	×	Sta	nda	rd		$\overline{\Box}$	TRR	—— }P		7 NI	PDES	
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(lab use	only)					_											-		F				TCLP:	Ar	nalyz	ze Fo	or:	_	<del>_</del>	<del></del>	<del></del>	T	1
	R#: 362835/3628	36							1		Prese	ovatio	0.8	# 05 0	ontai	2000	<del></del>	Matrix					OTAL:				$\exists$			}		27 Ed 52	
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LAB # (tab use only)	FIELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled		ield Filtered	otal #. of Containers	lce	HNO,	HCI	H <sub>2</sub> SO.	NeOH	Na,S,O,	None Other (Sperify)	DW≃Drinking Water SL=Studge	ter S=Sol	TPH: 418 1 BOLEN	1X 1005	is (Ca. Mg. Na. K)	Anions (Cl. SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg	Volatiles	Semivotatiles	BTEX 8021B/5030 or BTEX	Ž.	N.O.R.M.	Chlorides		RUSH TAT (Pre-Schedule) 24, 46, 72 hrs	Standard TAT
01	GS/Comp-Surface		4".	4"	2/17/2010	9:43 AI	М		1						$\top$			S	,	<del></del>	Ť	1				$\rightarrow$	x	7	_	x	+		x
20	GS/Comp-001		1'	1'	2/17/2010	9:59 AI	М		1									S	X							$\prod$	х		$oldsymbol{\mathbb{I}}$	х			X
03	GS/Comp-002		2' :	2'	2/17/2010	10:18 A	М	-	1			_	-	$\dashv$		+	╀	s	×	-	┼	╁			_	$\dashv$	X	$\dashv$	$\downarrow$	x _	-		×
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Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

				11
ate/Time: 2.19.10 9'.35				
ab ID#: 362835/362836				
nitials: AL				
Sample Receip	t Checklist			,  }
			,	Client Initials
1 Temperature of container/ cooler?	(Yes)	No	4.6°C	
2 Shipping container in good condition?	Yes	<u>No</u>		
3 Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	<del></del>
4 Custody Seals intact on sample bottles/ container?	<b>(68</b>	No	Not Present	
5 Chain of Custody present?	Yes	No		
6 Sample instructions complete of Chain of Custody?	Yes	No	<u> </u>	<del> </del>
7 Chain of Custody signed when relinquished/ received?	N/es	No		
Chain of Custody agrees with sample label(s)?	Yes	No	iD written on Cont./ Lic	1
#9 Container label(s) legible and intact?	Yes	No	Not Applicable	-}}-
#10 Sample matrix/ properties agree with Chain of Custody?	(Yes	No		
#11 Containers supplied by ELOT?	Yes	No		(
#12 Samples in proper container/ bottle?	Yes	No	See Below	
#13 Samples property preserved?	Yes	No	See Below	
#14 Sample bottles intact?	Yes	No		
#15 Preservations documented on Chain of Custody?	Yes	No		
#16—Containers documented on Chain of Custody?	Tes	No		1
#17 Sufficient sample amount for indicated test(s)?	Yes	No	See Below	1
#18 All samples received within sufficient hold time?	Yes	No	See Below	
#19 Subcontract of sample(s)?	Yes	No	Not Applicable	
#20 VOC samples have zero headspace?	(Yes)	No	Not Applicable	
Contact Contacted by:			Date/Time:	
Regarding:	· · · · · · · · · · · · · · · · · · ·			
				<u> </u>
Corrective Action Taken:		•		!
			·	
			·	
Check all that Apply:  See attached e-mail/ fax  Client understands and wo	nuld Mea to an			

# **Analytical Report 340666**

for

## Yates Petroleum Corporation

Project Manager: Robert Asher

State D SWD # 1 30-015-21572

18-AUG-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 (AALII), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

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

Xenco-Miramar (EPA Lab code: FL01246): Florida (E86349)

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)

Houston - Dallas - San Antonio - Tampa - Miami - Midland - Corpus Christi - Atlanta - Latin America



18-AUG-09



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

Reference: XENCO Report No: 340666

State D SWD #1

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 340666. 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. 340666 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 340666



# Yates Petroleum Corporation, Artesia, NM

State D SWD # 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample 1d
G\$/Comp-Surface	S	Aug-11-09 11:29	4 - 4 In	340666-001
GS/Comp-001	S	Aug-11-09 11:44	1 - 1 ft	340666-002
GS/Comp-002	S	Aug-11-09 11:59	2 - 2 ft	340666-003

#### CASE NARRATIVE



Client Name: Yates Petroleum Corporation

Project Name: State D SWD # 1

Project ID:

30-015-21572

Work Order Number: 340666

Report Date: 18-AUG-09

Date Received: 08/12/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-768358 Percent Moisture

AD2216A %Moisture

Batch 768358, Percent Moisture RPD recovered outside QC limits. This is most likely due to

sample non-homogeneity.

Samples affected are: 340658-001 D.

Batch: LBA-768362 Inorganic Anions by EPA 300

None

Batch: LBA-768535 BTEX-MTBE EPA 8021B

SW8021BM

Batch 768535, 1,4-Difluorobenzene recovered below QC limits. Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 340666-003.

4-Bromofluorobenzene recovered below QC limits Data not confirmed by re-analysis. Samples affected are: 535392-1-BLK.

4-Bromofluorobenzene recovered above QC limits Data not confirmed by re-analysis. Samples affected are: 535392-1-BKS and 535392-1-BSD

4-Bromofluorobenzene recovered above QC limits Sample Data confirmed by re-analysis.

Samples affected are: 340666-003

Batch 768535, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 340666-003.

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

Batch: LBA-768651 TPH by SW 8015B

None

#### CASE NARRATIVE



Client Name: Yates Petroleum Corporation

Project Name: State D SWD # 1

Project ID:

30-015-21572

Work Order Number: 340666

Report Date: 18-AUG-09

Date Received: 08/12/2009

Batch: LBA-768717 BTEX-MTBE EPA 8021B

SW8021BM

Batch 768717, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is

suspected; data confirmed by re-analysis

Samples affected are: 340666-002.

4-Bromofluorobenzene recovered below QC limits sample Data confirmed by re-analysis.

Samples affected are: 535470-1-BLK,340666-001.

QC data was not reanalyzed for confirmation.

4-Bromofluorobenzene recovered above QC limits Data confirmed by re-analysis. Samples

affected are: 340666-002, 340908-001 D



## Certificate of Analysis Summary 340666

## Yates Petroleum Corporation, Artesia, NM

Project Name: State D SWD # 1



Project Id: 30-015-21572 Contact: Robert Asher

Project Location: Eddy County

Date Received in Lab: Wed Aug-12-09 09:27 am

Report Date: 18-AUG-09

Project Manager: Brent Barron, II

,					Project Manager:	Dichi Darron, II	p
	Lab İd:	340666-001	340666-002	340666-003			
Analysis Requested	Field Id:	GS/Comp-Surface	GS/Comp-001	GS/Comp-002			
Analysis Requesica	Depth:	4-4 In	1-1 ft	2-2 ft			
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	Aug-11-09 11:29	Aug-11-09 11:44	Aug-11-09 11:59			
Anions by EPA 300	Extracted:						
	Analyzed:	Aug-12-09 15:37	Aug-12-09 15:37	Aug-12-09 15:37			·
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		2910 53.5	515 11.5	299 11.8			
BTEX by EPA 8021B	Extracted:	Aug-14-09 13:00	Aug-14-09 13:00	Aug-13-09 17:00			
	Analyzed:	Aug-15-09 16:55	Aug-15-09 17:13	Aug-13-09 20:51	•		
·	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene	1	ND 0.0054	ND 0.0058	ND 0.0235			
Toluene	t.	ND 0.0107	0.0530 0.0115	ND 0.0470			
Ethylbenzene		ND 0.0054	0.2101 0.0058	0.1816 0.0235			
ın,p-Xylenes		ND 0.0107	1.058 0.0115	1.350 0.0470			
o-Xylene		ND 0.0054	0.7559 0.0058	0.7872 0.0235			
Total Xylenes		ND 0.0054	1.814 0.0058	2.137 0.0235			
Total BTEX		ND 0.0054	2.077 0.0058	2.319 0.0235			
Percent Moisture	Extracted:			•			
	Analyzed:	Aug-12-09 16:00	Aug-12-09 16:00	Aug-12-09 16:00			
	Units/RL:	% RL	% RL	% RL			
Percent Moisture		6.58 1.00	13.15 1.00	14,96 1.00			
TPH By SW8015B Mod	Extracted:	Aug-13-09 10:52	Aug-13-09 10:52	Aug-13-09 10:52			
	Analyzed:	Aug-13-09 14:39	Aug-13-09 15:04	Aug-13-09 15:29			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
C6-C10 Gasoline Range Hydrocarbons	i	ND 16.0	147 86.3	182 88.1			
C10-C28 Diesel Range Hydrocarbons		887 16.0	1130 86.3	787 88.1			
Total TPH		887 16.0	1277 86.3	969 88.1			

This analytical report, and the entire data package it represents, has been made for your exchisive 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	(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 1-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116

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#### Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-in

whats: G1				
Sample Receipt	t Checklist	*	(	Client Initials
1 Temperature of container/ cooler?	(Yes)	No	5.6°C	
2 Shipping container in good condition?	Yes	No		
3 Custody Seals intact on shipping container/ cooler?	(Yes)	No	Not Present	
Custody Seals intaction sample bottles/ container?	Yes	No	Not Present	
5 Chain of Custody present?	(Yes:	No		
6 Sample instructions complete of Chain of Custody?.	Y69	No		
7 Chain of Custody signed when relinquished/, received?	(Yes)	No	[	
Chain of Custody agrees with sample label(s)?	(tes)	No	ID written on Cont./ Lid	
9 Container label(s) legible and intact?	(Yes).	No	Not Applicable	
10 Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
1.1: Containers supplied by ELOT?	(Yés)	No		
12: Samples in:proper container/ bottle?	(Yés)	No	See Below	
13 Samples properly preserved?	/Yes) 4	No	See Below	
14 Sample hottles intact?	(Yes	No		
#15 Preservations documented on Chain of Custody?	(CYes)	No		
#16" Containers documented on Chain of Custody?	(Yes)	' No		1 1 42
17. Súlficient sample amount for indicated test(s)?		∛₁Ño	See Balow	Sec. 15.
18 All samples received within sufficient hold time?	(Syces)		See Below	da .
19" Subconfract of sample(s)?	: Yes/	`´No	Kol Applicable	
#20 VOC samples have zero headspace?	Yes	No	Not Applicable	لــــا
Name of the second				
Variance Docu	imentation			
Contact: Contacted by:			Date/ Time:	
Contacted by.			Date/ Title.	
Regarding:				
Corrective Action Taken:				
	-			
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Check all that Apply: See attached e-mail/ fax Client understands and wo	uld like to ore	سنان اممم	s analysis	
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