November 17, 2011

RECEIVED
NOV 17 2011
NMOCD ARTESIA

Mr. Mike Bratcher Oil Conservation Division Artesia, NM

Re: Rodke 'AOY' #1

30-015-28404

Section 21, T19S-R25E Eddy County, New Mexico

Dear Mr. Bratcher:

Yates Petroleum Corp. would like to submit for your consideration the enclosed work plan for the above captioned well. The plan is being submitted in response to the C-141 reports dated August 30, 2011; October 4, 2011; October 11, 2011.

If there are no objections with the scope of work described in the plan, Yates will have a contractor begin work on or after the week of November 28, 2011.

If you have any questions call me at 575-748-4311

Thank you.

Yates Petroleum Corporation

Jeremy Haass Environmental Regulatory Agent

Enclosure(s):

Map to location

Analytical Report 427255 Analytical Report 427256 Analytical Report H102403 Yates Petroleum Corporation
Rodke 'AOY' #1 Work Plan
Section 21, T19S-R25E
Eddy County, New Mexico
November 17, 2011

I. Location

Go south of Artesia on Hwy 285 for approx. 13 miles. Turn west on Rock-N-R Red Ranch Rd. for approx. 5.3 miles turn south on lease road for $\frac{1}{2}$ of a mile, then turn east for $\frac{1}{8}$ of a mile.

II. Background

There have been 3 separate releases from the same underground flow line coming from the Rodke 'AOY' #1. First release was on August 26, 2011 where 15 B/O were released of which 8 B/O were recovered. Second release was on September 29, 2011 where 8 B/O&PW were released of which 0 B/O&PW were recovered. Third release was on October 6, 2011 where 15 B/O&PW were released of which 5 B/O&PW were recovered. Yates submitted a C-141 on August 30, 2011; October 4, 2011; October 11, 2011 to the NMOCD District II office. Initial delineation samples were taken (9/7/11) & (11/4/11) and sent to an NMOCD approved laboratory (9/21/11 & 11/4/11 results enclosed).

III. Surface and Ground Water

Area surface geology is Cenozoic. The nearest Depth to Groundwater record listed on the New Mexico Office of the State Engineer (Section 22, T19S-R25E) shows depth of groundwater to be approximately 130 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:

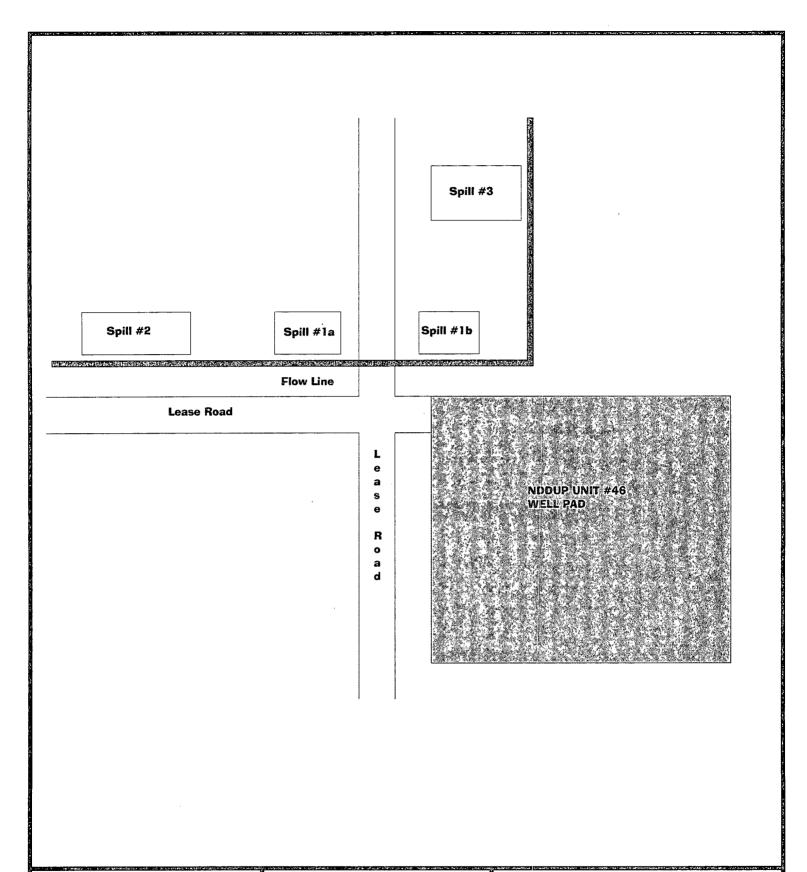
Depth to ground water > 100'
Wellhead Protection Area > 1000'
Distance to surface water body > 1000'

IV. Soils

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

V. Scope of Work

Upon approval of this work plan and based on the enclosed analytical results, Yates Petroleum Corp. will have a contractor retrieve further samples at one foot intervals at the bottom of Spill #1a and test for Chloride delineation at 7', 8', and 9'. After receiving the new test results a determination will be made on whether or not to dig deeper and how much further we may need to go, impacted soils will be taken to an NMOCD approved facility for disposal. After the bottom of Spill #1a is dealt with and since the analytical results are within RRAL's for BTEX (50 ppm) and TPH (5000 ppm) for the Total Ranking Score of zero (0) Yates Petroleum Corporation will submit a C-141 Final Report, analytical results and request closure of the site.





Rodke 'AOY' #1 (Overview)

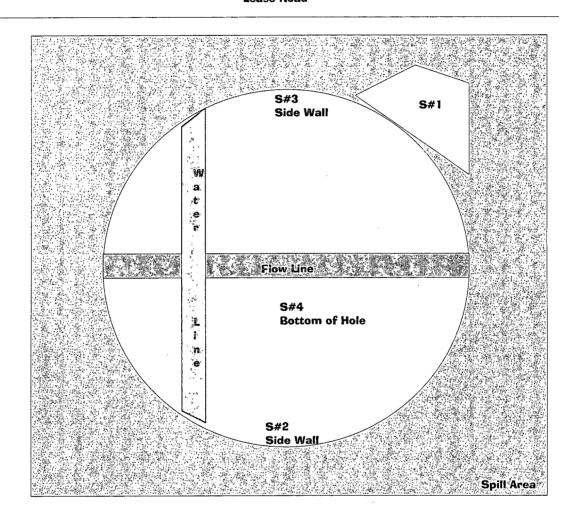
30-015-28404

Section 21, T19S-R25E

Eddy County, NM

SAMPLE DIAGRAM(Not to Scale)

Prepared by Jeremy Haass Environmental Regulatory Agent





Rodke 'AOY' #1 (Spill 1a)

30-015-28404

Section 21, T19S-R25E

Eddy County, NM

Xenco Laboratories #427255, 427256

Cardinal Laboratories #H102403

Prepared by Jeremy Haass Environmental Regulatory Agent

Spill 1a

First Sampling

Analytical Report- 3 427255 & 427256	Sample Date	Depth,	BTEX	GRO	DRO	TOTAL	Chlorides
Sample #1	9/7/2011	1'	1.01	42.8	99.7	143	19100
Sample #2	9/7/2011	2'	0.0263	ND	ND	ND	20400
Sample #3	9/7/2011	2'	186	3780	17500	21300	18100
Sample #4	9/7/2011	4'	5.69	346	2240	2590	34300

Second Sampling

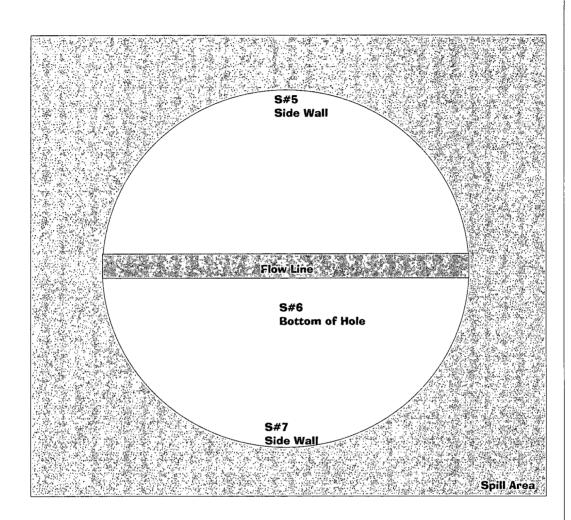
Analytical Report- H102403	Sample Date	Deoth	BTEX	GRO	DRO.	TOTAL	Chlorides
Sample #1	11/4/2011	6'	ND	ND	ND	ND	3640
Sample #2	11/4/2011	3'	ND	ND	ND	ND	3840
Sample #3	11/4/2011	3'	ND	16.2	468	484.2	2480
Sample #4	11/4/2011	6'	0.060	46.6	1340	1386.6	11700

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 130', per NMOSE).

All results are ppm.Chlorides for documentation. S# - Sample Points

Released: 15 B/O; Recovered: 8 B/O. Release Date: 8/26/2011





e a s e R o a



Rodke 'AOY' #1 (Spill 1b)

30-015-28404

Section 21, T19S-R25E

Eddy County, NM

Xenco Laboratories #427255, 427256

Cardinal Laboratories #H102403

Prepared by Jeremy Haass Environmental Regulatory Agent

Spill 1b

First Sampling

Analytical Report 427256	Sample Date	Depth	BTEX	GRO	DRO	TOTAL	Chlorides			
Sample #5	9/7/2011	2'	260	1600	5520	7120	14700			
Sample #6	9/7/2011	5'	258	2860	6630	9490	6390			
Sample #7	N/A									

Second Sampling

Analýtical Report-	Sample Date	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Sample #5	11/4/2011	6'	ND	ND	56	56	192
Sample #6	11/4/2011	10'	ND	ND	117	117	208
Sample #7	11/4/2011	6'	0.419	ND	ND	ND	128

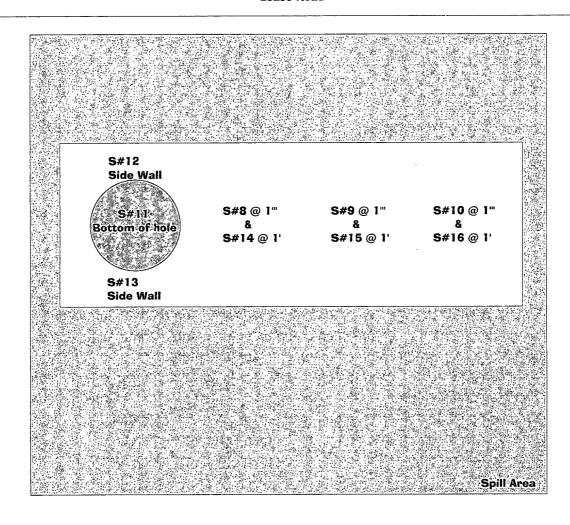
Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 130', per NMOSE).

All results are ppm.Chlorides for documentation. S# - Sample Points

Released: 15 B/O; Recovered: 8 B/O. Release Date: 8/26/2011



Lease Road





Rodke 'AOY' #1 (Spill 2)

30-015-28404

Section 21, T19S-R25E

Eddy County, NM

Cardinal Laboratories #H102403

Prepared by Jeremy Haass Environmental Regulatory Agent

Spill 2

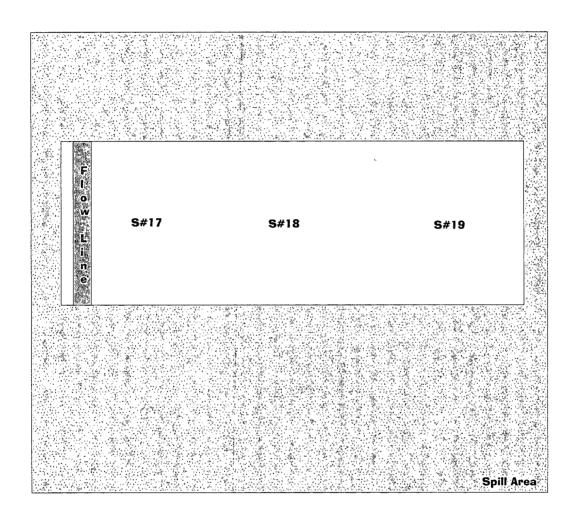
Analytical Report- H102403	Sample Date	Depth	BTEX	GRO	°DRO	TOŢÄĹ	Chlorides
Sample #8	11/4/2011	1"	ND	ND	176	176	224
Sample #9	11/4/2011	1"	ND	ND	ND	ND	ND
Sample #10	11/4/2011	1"	0.154	ND	4820	4820	576
Sample #11	11/4/2011	5'	ND	ND	599	599	2080
Sample #12	11/4/2011	3'	ND	ND	ND	ND	208
Sample #13	11/4/2011	3'	ND	ND	ND	ND	320
Sample #14	11/4/2011	1'	ND	ND	ND	ND	112
Sample #15	11/4/2011	1'	ND	ND	10	10	160
Sample #16	11/4/2011	1'	ND	ND	104	104	64

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 130', per NMOSE).

All results are ppm.Chlorides for documentation. S# - Sample Points

Released: 8 B/O & PW; Recovered: 0 B/O & PW. Release Date: 9/29/2011







Rodke 'AOY' #1 (Spill 3)

30-015-28404

Section 21, T19S-R25E

Eddy County, NM

Cardinal Laboratories #H102403

Prepared by Jeremy Haass Environmental Regulatory Agent

Spill 3

Analytical Report- H102403	Sample Date	Depth	ВТЕХ	GRO	DRO	TOTAL	Chlorides
Sample #17	11/4/2011	6'	ND	ND	ND	ND	2760
Sample #18	11/4/2011	3'	ND	ND	40.3	40.3	752
Sample #19	11/4/2011	1'	2.14	ND	237	237	112

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 130', per NMOSE).

All results are ppm.Chlorides for documentation. S# - Sample Points

Released: 8 B/O & PW; Recovered: 0 B/O & PW. Release Date: 9/29/2011

Analytical Report 427255

for Yates Petroleum Corporation

Project Manager: Jeremy Haass Rodke 'AOY' # 1 30-015-28404 21-SEP-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

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 Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)



Certificate of Analysis Summary 427255

Yates Petroleum Corporation, Artesia, NM

Project Name: Rodke 'AOY' #1

Date Received in Lab: Thu Sep-08-11 10:15 am

Report Date: 21-SEP-11
Project Manager: Brent Barron II

Contact: Jeremy Haass
Project Location: Eddy

Project Id: 30-015-28404

										Brent Barron			
	Lab Id:	427255-	-001	427255-	002	427255-0	003	427255-	004	427255-0	005	427255-0	006
Analysis Requested	Field Id:	Sample	# 1	Sample	# 2	Sample #	3	Sample	#4	Sample #	<i>‡</i> 5	Sample #	6
Analysis Requesteu	Depth:	1-1 f	ì	2-2 f	t	2-2 ft		4-4 f	ì	2-2 ft		5-5 ft	
	Matrix:	SOII	L	SOIL		SOIL		SOIL	_	SOIL	,	SOIL	
	Sampled:	Sep-07-11	10:20	Sep-07-11	10:34	Sep-07-11	10:48	Sep-07-11	11:00	Sep-07-11	11:11	Sep-07-11	11:18
BTEX by EPA 8021B	Extracted:	Sep-09-11	09:37	Sep-09-11	09:37	Sep-09-11 (09:37	Sep-09-11	09:37	Sep-09-11	09:37	Sep-09-11 (09:37
	Analyzed:	Sep-09-11	20:01	Sep-09-11	17:43	Sep-09-11 2	20:47	Sep-09-11	22:18	Sep-09-11	23:27	Sep-10-11 (00:12
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzenc		0.0597	0.00602	0.00240	0.00119	1.65	0.230	0.0272	0.00586	1.99	0.230	9.03	0.287
Toluene		0.223	0.0120	0.00655	0.00238	36.0	0.461	0.623	0.0117	47.2	0.460	79.9	0.573
Ethylbenzene		0.278	0.00602	0.00668	0.00119	60.6	0.230	1.90	0.00586	86.4	0.230	73.6	0.287
m_p-Xylenes		0.312	0.0120	0.00730	0.00238	61.8	0.461	2.16	0.0117	88.2	0.460	69.2	0.573
o-Xylene		0.140	0.00602	0.00333	0.00119	25.8	0.230	0.977	0.00586	36.6	0.230	26.2	0.287
Total Xylenes		0.452	0.00602	0.0106	0.00119	87.6	0.230	3.14	0.00586	125	0.230	95.4	0.287
Total BTEX		1.01	0.00602	0.0263	0.00119	186	0.230	5.69	0.00586	260	0.230	258	0.287
Percent Moisture	Extracted:												
	Analyzed:	Sep-08-11	15:00	Sep-08-11 15:00		Sep-08-11 15:00		Sep-08-11 15:00		Sep-08-11 15:00		Sep-08-11 15:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		17.1	· 1.00	15.9	1.00	13.5	1.00	15.3	1.00	13.3	1.00	13.3	1.00
TPH By SW8015B Mod	Extracted:	Sep-12-11	13:05	Sep-12-11	13:05	Sep-12-11	13:05	Sep-12-11 13:05		Sep-12-11	13:05	Sep-12-11 1	13:05
	Analyzed:	Sep-20-11	12:34	Sep-20-11	13:04	Sep-20-11	13:35	Sep-20-11 14:06		Sep-20-11 14:39		Sep-20-11 I	15:10
·	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C10 Gasoline Range Hydrocarbons		42.8	18.0	ND	17.8	3780	86.5	346	88.4	1600	86.5	2860	86.2
C10-C28 Diesel Range Hydrocarbons		99.7	18.0	ND	17.8	17500	86.5	2240	88.4	5520	86.5	6630	86.2
Total TPH		143	18.0	ND	17.8	21300	86.5	2590	88.4	7120	86.5	9490	86.2

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.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - 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 affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantiation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- **BRL** Below Reporting Limit.
- **RL** Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

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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
6017 Financial Drive, Norcross, GA 30071	(770) 449-8800	(770) 449-5477
3725 E. Atlanta Ave, Phoenix, AZ 85040	(602) 437-0330	



Project Name: Rodke 'AOY' #1

Work Orders : 427255,

Sample: 427255-002 / SMP

Project ID: 30-015-28404

Lab Batch #: 869693

Batch: 1 Matrix: Soil

Units: mg/kg	SURROGATE RECOVERY STUDY						
BTEX by EPA 8021B	Amount Found [A]	True Amount B	Recovery %R	Control Limits %R	Flags		
Analytes			D				
1,4-Difluorobenzene	0.0284	0.0300	95	80-120			
4-Bromofluorobenzene	0.0291	0.0300	97	80-120			

Lab Batch #: 869693

Sample: 427255-001 / SMP

Matrix: Soil Batch:

0.0300

0.0300

SURROGATE RECOVERY STUDY Date Analyzed: 09/09/11 20:01 Units: mg/kg Amount True Control BTEX by EPA 8021B Found Amount Recovery Limits [B] %R [A]%R $\{D\}$ **Analytes**

4-Bromotluorobenzene Lab Batch #: 869693

1,4-Difluorobenzene

Sample: 427255-003 / SMP

Batch:

0.0271

0.0246

Matrix: Soil

90

82

80-120

80-120

Flags

SURROGATE RECOVERY STUDY Date Analyzed: 09/09/11 20:47 Units: mg/kg

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0236	0.0300	79	80-120	**
4-Bromofluorobenzene	0.0328	0.0300	109	80-120	

Lab Batch #: 869693

Sample: 427255-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 09/09/11 22:18	SURROGATE RECOVERY STUDY						
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
Analytes			[D]				
1,4-Difluorobenzene	0.0206	0.0300	69	80-120	**		
4-Bromofluorobenzene	0.0298	0.0300	99	80-120			

Lab Batch #: 869693

Sample: 427255-005 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 09/09/11 23	3:27	SURROGATE RECOVERY STUDY						
BTEX by EPA 8021B Analytes		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1,4-Difluorobenzene		0.0242	0.0300	-81	80-120			
4-Bromofluorobenzene		0.0427	0.0300	142	80-120	**		

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Rodke 'AOY' #1

Work Orders: 427255,

Project ID: 30-015-28404

Lab Batch #: 869693

Sample: 427255-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 09/10/11 00:12	l su	RROGATE R	ECOVERY	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes		. 1	{D		
1,4-Difluorobenzene	0.0239	0.0300	80 .	80-120	
4-Bromofluorobenzene	0.0288	0.0300	96	80-120	

Lab Batch #: 870524

Sample: 427255-001 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 09/20/11 12:34 SURROGATE RECOVERY STUDY					
TPH By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	132	99.6	133	70-135	
o-Terphenyl .	60.3	49.8	121	70-135	

Lab Batch #: 870524

Sample: 427255-002i/SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 09/20/11 13:04 SURROGATE RECOVERY STUDY					
TPH By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	112	100	112	70-135	
o-Terphenyl .	43.4	50.0	87	70-135	<u> </u>

Lab Batch #: 870524

Sample: 427255-003 / SMP

Batch:

Matrix: Soil

Units: mg/kg Date Analyzed: 09/20/11 13:35 SURROGATE RECOVERY STUD					
TPH By SW8015B Mod	Amount Found [A]	True Amount B	Recovery %R	Control Limits %R	Flags
Analytes	,		[D]		
1-Chlorooctane	281	99.8	282	70-135	**
o-Terphenyl ·	138	49.9	277	70-135	**

Lab Batch #: 870524

Sample: 427255-004 / SMP

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 09/20/11 14:06 SURROGATE RECOVERY STUE				STUDY	
TPH By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	114 .	99.8	114	70-135	
o-Terphenyl	54.9	49.9	110	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Rodke 'AOY' # 1

Work Orders: 427255,

Lab Batch #: 870524

Sample: 427255-005 / SMP

Project ID: 30-015-28404

Matrix: Soil

Batch:

Units: mg/kg Date Analyzed: 09/20/11 14:39 SURROGATE RECOVERY STUDY				STUDY	
TPH By SW8015B Mod	Amount Found [A]	True - Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes	,		[D]		
1-Chlorooctane	152	100	152	70-135	**
o-Terphenyl	56.5	50.0	113	70-135	

Lab Batch #: 870524

Sample: 427255-006 / SMP

Matrix: Soil Batch:

Units: mg/kg Date Analyzed: 09/20/11 15:10	SU	RROGATE RI	ECOVERY :	STUDY	
TPH By SW8015B Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1-Chlorooctane	167	99.6	168	70-135	**
o-T'erphenyl	59.5	49.8	119	70-135	

Lab Batch #: 869693

Sample: 611215-1-BLK / BLK

Batch:

Matrix: Solid

Units: mg/kg Date Analyzed: 09/09/11 11:44 SURROGATE RECOVERY STUDY				STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			{D}		
1,4-Difluorobenzene	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0263	0.0300	88	80-120	

Lab Batch #: 870524

Sample: 611252-1-BLK / BLK

Batch:

Matrix: Solid

Units: mg/kg Da	SU	RROGATE RI	ECOVERY S	STUDY		
TPH By SW		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane		102	99.7	102	70-135	
o-Terphenyl		44.7	49.9	90	70-135	

Lab Batch #: 869693

Sample: 611215, 1-BKS / BKS

Batch: [

Matrix: Solid

Units: mg/kg Date Analyzed: 09/09/11 10:12	SURROGATE RECOVERY STUDY				
BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0283	0.0300	94	80-120	
4-Bromofluorobenzene	0.0264	0.0300	88	80-120	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Rodke 'AOY' #1

Work Orders: 427255,

Project ID: 30-015-28404

Lab Batch #: 870524

Sample: 611252-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg	Date Analyzed: 09/20/11 11:02	SURROGATE RECOVERY STUDY				
ТРН Е	By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	Analytes	. 124	99.9	124	70-135	
o-Terphenyl		55.5	50.0	111	70-135	

Lab Batch #: 869693

Sample: 611215-1-BSD / BSD

Batch: Matrix: Solid

Units: mg/kg Date Analyzed: 09/09/11 10:35 SURROGATE RECOVERY ST						
ВТЕХ	K by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
	Analytes			[D]		
1,4-Difluorobenzene		0.0299	0.0300	100	80-120	
4-Bromotluorobenzene		0.0290	0.0300	97	80-120	

Lab Batch #: 870524

Sample: 611252-1-BSD / BSD

Batch:

Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY Date Analyzed: 09/20/11 11:32 Amount TPH By SW8015B Mod True Control Found Amount Recovery Limits Flags [A] $|\mathbf{B}|$ %R %R [D]**Analytes** 99.7 116 70-135 116

Lab Batch #: 869693

1-Chlorooctane

o-Terphenyl

Sample: 427255-002 S / MS

Batch:

49.6

Matrix: Soil

99

70-135

49.9

Units: mg/kg Date Analyzed: 09/09/11 18:06	SU	RROGATE R	ECOVERY	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R D	Control Limits %R	Flags
Analytes			[6]		
1,4-Difluorobenzene	0.0297	0.0300	99	80-120	
4-Bromofluorobenzene	0.0289	0.0300	96	80-120	

Lab Batch #: 870524

Sample: 427255-001 S / MS

Batch: 1

Matrix: Soil

Units: mg/kg Date Analyzed: 09/21/11 08:24	SU	RROGATE R	ECOVERY	STUDY	
TPH By SW8015B Mod	Amount Found [A]	True Amount B	Recovery %R	Control Limits %R	Flags
Analytes			[D]	,	
1-Chlorooctane	129	99.8	129	70-135	
o-Terphenyl	55.6	49.9	111	70-135	

^{*} Surrogate outside of Laboratory QC limits

Surrogate Recovery [D] = 100 * A / B

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



Project Name: Rodke 'AOY' #1

Work Orders: 427255,

Project ID: 30-015-28404

Lab Batch #: 869693

Sample: 427255-002 SD / MSD

Batch: l Matrix: Soil

Units: mg/kg Date Analyzed: 09/09/11 18:29	SU	RROGATE R	ECOVERY :	STUDY	
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags
Analytes			[D]		
1,4-Difluorobenzene	0.0291	0.0300	97	. 80-120	
4-Bromofluorobenzene	0.0284	0.0300	95	80-120	

Lab Batch #: 870524

Sample: 427255-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg Date Analyzed: 09/21/11 08:54	SU	RROGATE R	ECOVERY	STUDY	
TPH By SW8015B Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	100	117	70-135	
o-Terphenyl	47.6	50.1	95	70-135	

Surrogate Recovery [D] = 100 * A / B

^{*} Surrogate outside of Laboratory QC limits

^{**} Surrogates outside limits; data and surrogates confirmed by reanalysis

^{***} Poor recoveries due to dilution



BS / BSD Recoveries



Project Name: Rodke 'AOY' #1

Work Order #: 427255

Analyst: ASA

Date Prepared: 09/09/2011

Project ID: 30-015-28404 Date Analyzed: 09/09/2011

Lab Batch ID: 869693

Sample: 611215-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg		BLAN	K/BLANK	SPIKE / E	BLANK S	PIKE DUPI	LICATE 1	RECOVI	ERY STUD	ΟΥ	
BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
<u> </u>				' '		` `					
Benzene	< 0.00100	0.100	0.101	101	0.100	0.112	112	10	70-130	35	ļ
Toluene	<0.00200	0.100	0.0911	91	0.100	0.101	101	10	70-130	35	
Ethylbenzene	<0.00100	0.100	0.101	101	0.100	0.112	112	10	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.200	100	0.200	0.225	113	12	70-135	35	
o-Xylene	< 0.00100	0.100	0.0929	93	0.100	0.104	104	11	71-133	35	

Analyst: BBH

Date Prepared: 09/12/2011

Date Analyzed: 09/20/2011

Lab Batch ID: 870524

Sample: 611252-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg		BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
TPH By SW8015B Mod	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Bik. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag		
Analytes	,,	[B]	[C]	[D]	[E]	Result [F]	[G]	,,	,,,,,	,,,,,			
C6-C10 Gasoline Range Hydrocarbons	<15.0	999	960	96	997	913	92	5	70-135	35			
C10-C28 Diesel Range Hydrocarbons	<15.0	999	1000	100	997	899	90	11	70-135	35			

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: Rodke 'AOY' #1

Work Order #: 427255

Project ID: 30-015-28404

Lab Batch ID: 869693

QC- Sample ID: 427255-002 S

Batch #:

Matrix: Soil

Date Analyzed: 09/09/2011

Date Prepared: 09/09/2011

Analyst: ASA

Reporting Units: mg/kg	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
BTEX by EPA 8021B	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Benzene	0.00240	0.119	0.107	88	0.118	0.107	89	0	70-130	35	
Toluene	0.00655	0.119	0.102	80	0.118	0.0990	78	3	70-130	35	
Ethylbenzene	0.00668	0.119	0.112	89	0.118	0.111	88	. 1	71-129	35	
m p-Xylenes	0.00730	0.239	0.217	88	0.237	0.212	86	2	70-135	. 35	
o-Xylene	0.00333	0.119	0.102	83	0.118	0.0978	80	4 .	71-133	35	

Lab Batch ID: 870524

QC- Sample ID: 427255-001 S

Batch #:

Matrix: Soil

Date Analyzed: 09/21/2011

Date Prepared: 09/12/2011

Analyst: BBH

Reporting Units: mg/kg		M	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA'	TE REC	OVERY S	STUDY		
TPH By SW8015B Mod	Parent Sample Result	Spike	Spiked Sample Result	Spiked Sample		Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits %R	Control Limits %RPD	Flag
Analytes	[A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	- %K	70KPD	
C6-C10 Gasoline Range Hydrocarbons	42.8	1200	1300	105	1210	1130	90	14	70-135	35	
C10-C28 Diesel Range Hydrocarbons	99.7	1200	1910	151	1210	1140	86	50	70-135	35	XF

ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not

Page 13 of 16



Sample Duplicate Recovery



Project Name: Rodke 'AOY' #1

Work Order #: 427255

Lab Batch #: 869514

Project ID: 30-015-28404

Date Analyzed: 09/08/2011 15:00

Date Prepared: 09/08/2011

Analyst: BRB

QC- Sample ID: 427255-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE/SAMPLE DUPLICATE RECOVERY

Reporting Units. 70	SAMI LE	SAMI LE	DUILIC	ATE KEC	OVEKI
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		[B]			
Percent Moisture	17.1	17.1	0	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

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:	Jeremy Haass														. Pr	ojec	t Na	me:	<u> </u>	<u>Juk</u>	.е <i>г</i>	<u></u>							
	Company Name	Yates Petroleum Corpor	ation								_					- -	P	roje	ct #:	30-	-015	5-284	1 04							
	Company Address:	105 South 4th Street														١	Proj	ect l	Loc:	Edo	ly									
	City/State/Zip:	Artesia, NM 88210														_		Р	O #:	103	3-263	36								
	Telephone No:	575-748-4311				Fax No:										Repoi	t Fo	rma	ıt:	×	Star	ndard	i	Е	TF	RP	1	□N	IPDES	3
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AB # (lab use only)			Beginning Depth	Ending Depth	Date Sampled	Time Sampled	ield Filtered	Total #. of Containers	lce	HNO ₃	HG	H,SO ₄	NaOH	Nazozoga	Other (Specify)	DW=Drnking Water St.=Sludge GW = Groundwater S=Soi/Solid NP=Non-Potable Soncify Other	8015M	TX 1005 TX 100	s (Ca. Mg. Na. K)	Anions (Cl. SO4, Alkafinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg	Volatiles	- 1	B) EX 8021B/3030 or B) EX 8260 RC!	N.O.R.M.	Chlorides		RUSH TAT (Pre-Schedule)	Standard TAT
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Special In	nstructions:	RATE REPORT TPH: 8015B, B	TEX: 8	021B	& Chlorides	Please show	v R	TEX	res	ults	<u></u>	ma/i	ka	Thai	nk v)	_	١	Lat	ora	tory	Com	ame	nts:	<u> </u>		لـــــــــــــــــــــــــــــــــــــ			
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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: Vation					
Date/Time: 0 8/11 10:15	!				
Lab 10#: 427256/427256(EL	<u> </u>				
Initials: V.1	<u> </u>				
S	ample Receipt Checkl	ist			
	:				
1. Samples on ice?		Blue	(Water	No	
2. Shipping container in good condition?	,	Yes	No	None	
3. Custody seals intact on shipping container (c	ooler) and bottles?	(Yes)	No	N/A	#F
4. Chain of Custody present?		Yes	No		
5. Sample instructions complete on chain of cus	tody?	Yes	No		
6. Any missing / extra samples?		Yes	No		
7. Chain of custody signed when relinquished /	received?	Yes	No		
8. Chain of custody agrees with sample label(s)	?	Yes	No		
9. Container labels legible and intact?		Yes	No		
10. Sample matrix / properties agree with chain	of custody?	Yes	No -		
11. Samples in proper container / bottle?		Yes	No		_
12. Samples properly preserved?		Yes	No	N/A	
13. Sample container intact?		Yes	No		
14. Sufficient sample amount for indicated test(s	s)?	Yes	No	·	
15. All samples received within sufficient hold to	me?	Yes	No		
16. Subcontract of sample(s)?		Yes	No	N/A	·
17. VOC sample have zero head space?		(Yes)	No	N/A	
18. Cooler 1 No. Cooler 2 No.	Cooler 3 No.	Cooler 4 No	o.	Cooler 5 No.	
lbs 4. (c°C lbs °C	ibs °C	lbs	°c	lbs	°C
None	conformance Docume	ntation			
Contacted b	y:		Date/Time:_		
Regarding:					
Corrective Action Taken:					
OSTICOLITE ACUSTI TAKETI.				· · · · · · · · · · · · · · · · · · ·	
				<u> </u>	
	····				 -
Check all that apply: □Cooling process has b	egun shortly after sampling	event and o	out of temper	ature	

□ Initial and Backup Temperature confirm out of temperature conditions

☐ Client understands and would like to proceed with analysis

Analytical Report 427256

for Yates Petroleum Corporation

Project Manager: Jeremy Haass Rodke 'AOY' # 1 30-015-28404 21-SEP-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):

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 Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)
Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)



Project Location: Eddy

Project Id: 30-015-28404

Contact: Jeremy Haass

Certificate of Analysis Summary 427256

Yates Petroleum Corporation, Artesia, NM

Project Name: Rodke 'AOY' #1

Date Received in Lab: Thu Sep-08-11 10:15 am

Report Date: 21-SEP-11

Duant Daman II

								Project Ma	nager:	Brent Barron	11		
	Lab Id:	427256-0	001	427256-0	02	427256-0	03	427256-0	004	427256-0	005	427256-0	006
Analysis Requested	Field Id:	Sample #	<i>t</i> 1	Sample #	2	Sample #	3	Sample #	4	Sample #	5	Sample #	4 6
Analysis Kequesieu	Depth:	1-1 ft		2-2 ft		2-2 ft		4-4 ft		2-2 ft	į	5-5 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	,
	Sampled:	Sep-07-11	10:20	Sep-07-11 1	10:34	Sep-07-11 1	10:48	Sep-07-11	11:00	Sep-07-11	11:11	Sep-07-11	11:18
Anions by E300	Extracted:												
	Analyzed:	Sep-11-11	19:03	Sep-11-11 1	19:03	Sep-11-11 1	19:03	Sep-11-11	19:03	Sep-11-11	19:03	Sep-11-11	19:03
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		19100	203	20400	499	18100	194	34300	992	14700	194	6390	96.9
Percent Moisture	Extracted:										:		
	Analyzed:	Sep=08=1.1	15:00	Sep-08-11 1	15:00	Sep-08-11 1	5:00	Sep-08-11	15:00	Sep-08-11	15:00	Sep-08-11	15:00
	Units/RL:	%	RL	%	RL	%	RL	%	\overline{RL}		RL		RL
Percent Moisture		17.1	1.00	15.9	1.00	13.5	1.00	15.3	1.00	13.3	1.00	13.3	1.00

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

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Odessa Laboratory Manager



Flagging Criteria

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

MDL Method Detection Limit

SDL Sample Detection Limit

LOD Limit of Detection

POL Practical Quantitation Limit

MQL Method Quantitation Limit

LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

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

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BS / BSD Recoveries



Project Name: Rodke 'AOY' #1

Work Order #: 427256

Analyst: BRB

Date Prepared: 09/11/2011

Project ID: 30-015-28404 Date Analyzed: 09/11/2011

Lab Batch ID: 869667

Sample: 869667-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg	K /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[B]	[C]	[D]	[E]	Result [F]	[G]				
Chloride	<0.840	20.0	21.9	110	20.0	21.9	110	0	75-125	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: Rodke 'AOY' #1



Work Order #: 427256

Lab Batch #: 869667

Project ID: 30-015-28404

Date Analyzed: 09/11/2011

Date Prepared: 09/11/2011

Analyst: BRB

QC- Sample ID: 427256-001 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg		MATRIX / MATRIX SPIKE RECOVERY STUDY										
Inorganic Anions by EPA 300 Analytes	-	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag					
Chloride	1	19100	4830	24200	106	75-125						

Lab Batch #: 869667

Date Analyzed: 09/11/2011

Date Prepared: 09/11/2011

Analyst: BRB

QC- Sample ID: 427304-005 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg		MATI	KIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by	EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes	l l	[A]	[B]				
Chloride	1	7.78	101	99.8	91	75-125	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference [E] = 200*(C-A)/(C+B)All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Sample Duplicate Recovery



Project Name: Rodke 'AOY' #1

Work Order #: 427256

Lab Batch #: 869667

Date Prepared: 09/11/2011

Project ID: 30-015-28404

Date Analyzed: 09/11/2011 19:03

Analyst: BRB

QC- Sample ID: 427256-001 D

Batch #: Matrix: Soil

Reporting Units: mg/kg

SAMPLE	/ SAMPLE	DUPLICATE	RECOVERY
		1	1

Anions by E300 Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	19100	18800	2	20	

Lab Batch #: 869514

Date Analyzed: 09/08/2011 15:00

Date Prepared: 09/08/2011

Analyst: BRB

QC- Sample ID: 427255-001 D

Batch #: 1

Matrix: Soil

Reporting Units: %

SAMPLE / SAMPLE DUPLICATE RECOVERY

Percent Moisture Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	17.1	17.1	0	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

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:	Jeremy Haass	·												- Pr	ojec	t Na	me: _	KO	ike) AC	JY.	#1						
	Company Name	Yates Petroleum Corpo	ration										_		_	P	rojec	t #: _	30-0	15-2	2840	4							_
	Company Address:	105 South 4th Street			<u></u> -					_					_ 1	Proj	ect L	.oc: _	Eddy										
	City/State/Zip:	Artesia, NM 88210															P	O #: _	103-2	2636	i							_	
	Telephone No:	575-748-4311				_ Fax No:									Repoi	rt Fo	rma	t: [X S	Stand	iard			TRR	Р		NP	DES	
	Sampler Signature:	J. M.	<u>\\$</u>	\leq		e-mail:		<u>j</u>	hae	<u>ss(</u>	<u>D</u> ya	tes	petr	ole	ım.com	<u> </u>					Analy								l
(lab use o	only)			αá												H	_		TCL		Ariary.	100	<u> </u>	\neg	\top	丁	T		
ORDER	11000	55/4277	56	CL				Г	Pre	servat	ion &	# of C	Contain	ers	Matrix	28	T		TOTA		a	H						48, 72 hrs	
				1							T					8015B	100			5	뫄		(8260					ž	
— <u>Ş</u> —			<u>-</u> -												r SL=Sludge r S≍Soil/Solid j Solecify Other	8015M		3	Anions (Cl, SO4, Alkalinity)	٥	Metals: As Ag Ba Cd Cr Pb Volatiles		BTEX 8021B/5030 or BTEX					chedule)	
AB # (lab use only)			Beginning Depth	pth	bed	peld		otal #. of Containers						(yji		•		Cations (Ca, Mg, Na, K)	904 P	CEC	0		3/5030	-			· -	RUSH TAT (Pre-Sci	ſAŢ
(lab			nin	g De	Sampled	Sarr	tered	of Co		İ			ő	Spe (V gnish round Potatu	418.1		S (Ca	0	ESP /	S S	platile	8021		ž	des		Ϋ́	ard
AB #	FIFI I	O CODE	legin	Ending Depth	Date	Time Sampled	eld Filtered	otal #	8 5 5	豆	H,SO ₄	NaOH	Na ₂ S ₂ O ₃	Other (Specify)	DW=Drinking Water GW = Groundwater NP=Non-Potable	Ĕ	Ħ	Cation	Anions	SAR / ESP / CEC	Metals: A	Semivolatiles	BTEX	<u>2</u>	N.O.R.M.	Chlorides		RUS	Standard TAT
CCI		ple #1	1'	1'	9/7/2011	10:20am			x	T			丅	T	s	×	+	П		十	\top	П	х	\top	_	Х			X
COD	Sam	ple #2	2'	2'	9/7/2011	10:34am	П		X						S	Ţχ				T			X	\square		х			X
003	Sam	ple #3	2'	2'	9/7/2011	10:48am			х						s	Х				$oxed{\mathbb{L}}$	floor		X		\perp	x			X
004	Sam	ple #4	4'	4'	9/7/2011	11:00am			X						S	Х							Х			x			X
CC5	Sam	ple #5	2'	2'	9/7/2011	11:11am			X				\bot		s	X	L						X	\bot	\bot	x		L	X
CO6	Sam	ple #6	5'	5'	9/7/2011	11:18am	_	_	×	_		Ц		_	s	×	\perp		_	4	\bot		х	\rightarrow	_	×	+-	L	Х
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	PLEASE PU	T CHLORIDES															L			\perp	\perp				\perp	\bot	_ _		L
		ATE REPORT		<u> </u>													<u> </u>								$oldsymbol{\perp}$				L
Special Ir	structions:	TPH: 8015B, I	STEX: 8	021B	& Chlorides.	Please show	v BT	ΈX r	esul	ts as	mg	/kg.	Tha	nk y	ou.						Comm ainers					(V	,	N	
D-8				,	15	<u> </u>				_				- 6.	ate	Tin		VOC	s Fr	ee of	f Head	dspa				Ø		N	
Relinquish	3/ 1.5<	Date 09/07/1	- 1	ime 6 PM	Received by:		٠							Di	x165	ım	ic	Cust	ody.	seals	ntaine s on c	onta	iner(s)		R×(A34 d)	3	z(<u>z</u>)z	
Relinquish	ed by:	Date		ime	Received by:									Da	ate	Tin	ie	Sam	ple l	Hand Imple	s on c d Deliv er/Clie	vered	j ep. ?			Y	_	N	•
Relinquish	ed by:	Date	-	ime	Received by EL	Ruhma	21						G		ate - / /	Tim	ie 75	1		ourier iture	r? Upon	UPS Rec		DHL :	(F	edEx	y Loi	ne St °C	ar



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: Vatio								
Date/Time: 9/8/11	10:15		t.					•
Lab ID#: 427255	1427256	<u>(c)</u>	_)					
Initials: UN								
		S	ample Receipt (Checki	ist			
1. Samples on ice?					Blue	Water	No	
2. Shipping container in	good condition?				Yes	No	None	
3. Custody seals intact of	n shipping contair	тег (с	ooler) and bottles?		(Yes)	No	N/A	
4. Chain of Custody pres	ent?	,			Yes	No		
5. Sample instructions co	omplete on chain o	of cus	tody?		(Yes)	No	·	
6. Any missing / extra sa	mples?				Yes	(No)		
7. Chain of custody signs	ed when relinquist	ned //r	received?		Yes	No		
8. Chain of custody agree	es with sample lab	ei(s)?	?		(Yes)	, No		
9. Container labels legibl	e and intact?		· · · · · · · · · · · · · · · · · · ·		Yes	No		
10. Sample matrix / prope	erties agree with c	hain d	of custody?		Yes	No ·		
11. Samples in proper co	ntainer / bottle?				Yes	No		
12. Samples property pre	served?				(Yes)	No	N/A	
13. Sample container into	act?	· · · ·			(Yes)	No		
14. Sufficient sample am	ount for indicated	test(s	s)?		Yes	No		
15. All samples received	within sufficient h	old ti	me?		(Yes)	No		
16. Subcontract of samp	le(s)?	1			Yes	No	(N/A)	
17. VOC sample have zer	o head space?				(Yes)	No	N/A	
18. Cooler 1 No.	Cooler 2 No.		Cooler 3 No.		Cooler 4 No). 	Cooler 5 No.	
lbs 4 (-° c	lbs	°C	lbs	°C	lbs	ာိ	lbs	
Contact:			conformance Do		ntation	Date/Time:_		
- "		1						
Regarding:								
Corrective Action Taken		4						
Check all that apply:			egun shortly after s able by NELAC 5.5.8			out of temper	ature	

Final 1.000

□ Initial and Backup Temperature confirm out of temperature conditions

☐ Client understands and would like to proceed with analysis



November 11, 2011

JEREMY HAASS

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: RODKE 'AOY' #1

Enclosed are the results of analyses for samples received by the laboratory on 11/07/11 13:55.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method SW-846 8260

Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Method TX 1005

Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Yates Energy Petroleum Corp JEREMY HAASS 105 \$ 4th Street Artesia NM, 88210

(505) 748-4635 Fax To:

Received:

11/07/2011

Reported:

11/11/2011 RODKE 'AOY' #1

Project Name: Project Number:

30-015-28404

Project Location:

EDDY

Sampling Date:

11/04/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: SAMPLE #1 - 6' (H102403-01)

BTEX 8021B

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	105	2.00	9.09	
Toluene*	< 0.050	0.050	11/08/2011	ND	2.02	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5	
Total Xylenes*	< 0.150	0.150	11/08/2011	ND	6.70	112	6.00	11.6	

Surrogate: 4-Bromofluorobenzene (PIL

64.4-134

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3640	16.0	11/09/2011	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/10/2011	ND	174	87.2	200	4.83	
DRO >C10-C28	<10.0	10.0	11/10/2011	ND	173	86.5	200	6.03	
Surrogate: 1-Chlorooctane	81.3	% 55.5-15	4						

Surrogate: 1-Chlorooctadecane

97.3 %

57.6-158

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Yates Energy Petroleum Corp JEREMY HAASS 105 S 4th Street Artesia NM, 88210

Fax To: (505) 748-4635

Received:

11/07/2011

Reported:

11/11/2011

Project Name: Project Number: RODKE 'AOY' #1 30-015-28404

Project Location:

EDDY

Sampling Date:

11/04/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: SAMPLE #2 - 3' (H102403-02)
BTEX 8021B mg/kg

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	105	2.00	9.09	
Toluene*	<0.050	0.050	11/08/2011	ND	2.02	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5	
Total Xylenes*	<0.150	0.150	11/08/2011	ND	6.70	112	6.00	11.6	
Surrogate: 4-Bromofluorobenzene (PIL	102 9	64.4-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	11/09/2011	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/10/2011	ND	174	87.2	200	4.83	
DRO >C10-C28	<10.0	10.0	11/10/2011	ND	173	86.5	200	6.03	
Surrogate: 1-Chlorooctane	89.4	% 55.5-15-	4	<u> </u>		**			
Surrogate: 1-Chlorooctadecane	105 9	6 57.6-15	8						

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Celey D. Keene, Lab Director/Quality Manager



Yates Energy Petroleum Corp JEREMY HAASS 105 S 4th Street Artesia NM, 88210

Fax To: (505) 748-4635

Received:

11/07/2011

Reported:

11/11/2011

11/04/2011 Soil

Project Name:

RODKE 'AOY' #1

Cool & Intact

Project Number:

30-015-28404

Project Location:

Sampling Condition: Sample Received By:

EDDY

Sampling Date:

Sampling Type:

Celey D. Keene

Sample ID: SAMPLE #3 - 3' (H102403-03)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	1.05	2.00	9.09	
Toluene*	<0.050	0.050	11/08/2011	ND	2.02	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5	
Total Xylenes*	<0.150	0.150	11/08/2011	ND	6.70	112	6.00	11.6	
Surrogate: 4-Bromofluorobenzene (PIL	103	% 64.4-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	11/09/2011	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Resuit	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier [*]
GRO C6-C10	16.2	10.0	11/10/2011	ND	174	87.2	200	4.83	
DRO >C10-C28	468	10.0	11/10/2011	ND	173	86.5	200	6.03	
Surrogate: 1-Chlorooctane	102 :	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	110	% 57.6-15	8						

Ameliand Day MC

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*=Accredited Analyte

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Celeg D Keine Celey D. Keene, Lab Director/Quality Manager



Yates Energy Petroleum Corp JEREMY HAASS 105 S 4th Street Artesia NM, 88210

Fax To: (

(505) 748-4635

Received:

11/07/2011

Reported:

11/11/2011

Project Name:

RODKE 'AOY' #1

Project Number: Project Location: 30-015-28404 EDDY Sampling Date:

11/04/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: SAMPLE #4 - 6' (H102403-04)

RTFX 8021B

ma/ka

Analyzed By: MS

B1EX 8051R	тд/кд		Analyzed By: MS						
. Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	11/08/2011	ND	2.10	1.05	2.00	9.09	
Toluene*	0.060	0.050	11/08/2011	ND	2.02	1.01	2.00	10.6	
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5	
Total Xylenes*	<0.150	0.150	11/08/2011	ND	6.70	112	6.00	11.6	
Surrogate: 4-Bromofluorobenzene (PIL	105 %	64.4-13	4						
Chloride, SM4500Cl-B	mg/1	кg	Analyze	d By: AP					
									

Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11700	16.0	11/09/2011	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	46.6	10.0	11/10/2011	ND	174	87.2	200	4.83	
DRO >C10-C28	1340	10.0	11/10/2011	ND	173	86.5	200	6.03	
		10.0		NO	1/3	00.5	200		

Surrogate: 1-Chlorooctane

93.1%

55.5-154

Surrogate: 1-Chlorooctadecane

104 %

57.6-158

Cardinal Laboratories *=Accredited Analyte

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Celey & Keine

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 23



Yates Energy Petroleum Corp JEREMY HAASS 105 \$ 4th Street Artesia NM, 88210

Fax To: (505) 748-4635

Received:

11/07/2011

Reported: Project Name: 11/11/2011 RODKE 'AOY' #1 30-015-28404

Project Number: Project Location:

EDDY

Sampling Date:

11/04/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: SAMPLE #5 - 6' (H102403-05)

BTEX 8021B

mg/kg

|--|

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	1.05	2.00	9.09	
Toluene*	<0.050	0.050	11/08/2011	ND	2.02	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5	
Total Xylenes*	<0.150	0.150	11/08/2011	ND	6.70	112	6.00	11.6	

Surrogate: 4-Bromofluorobenzene	(PIL	102 %	64.4-134

		rataryze	Analyzed By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
192	16.0	11/09/2011	ND	448	112	400	0.00	
mg,	/kg	Analyzed By: MS						
Result	Reporting Limit	l Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	11/10/2011	ND	174	87.2	200	4.83	
56.0	10.0	11/10/2011	ND	173	86.5	200	6.03	
	192 mg, Result <10.0	192 16.0 mg/kg Result Reporting Limit <10.0 10.0	192 16.0 11/09/2011 mg/kg Analyze Result Reporting Limit Analyzed <10.0	192 16.0 11/09/2011 ND mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank <10.0	192 16.0 11/09/2011 ND 448 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS <10.0	192 16.0 11/09/2011 ND 448 112 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	192 16.0 11/09/2011 ND 448 112 400 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <10.0	192 16.0 11/09/2011 ND 448 112 400 0.00 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0

Surrogate: 1-Chlorooctane 87.6 % 55.5-154
Surrogate: 1-Chlorooctadecane 102 % 57.6-158

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Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 23



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Fax To:

(505) 748-4635

Received: Reported: 11/07/2011 11/11/2011

Project Name: Project Number: RODKE 'AOY' #1 30-015-28404

Project Location:

EDDY

Sampling Date:

11/04/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: SAMPLE #6 - 10' (H102403-06)

BTEX 8021B	mg/kg	Analyzed
A 1 & .	Daniella Danaud	tion Limits Applicant

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	105	2.00	9.09	
Toluene*	<0.050	0.050	11/08/2011	ND	2.02	101	2.00	10.6	
Ethylbenzene*	< 0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5	
Total Xylenes*	<0.150	0.150	11/08/2011	ND	6.70	112	6.00	11.6	

By: MS

Surrogate: 4-Bromofluorobenzene (PIL

100 %

64.4-134

Chloride, SM4500CI-B	mg,	mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/09/2011	ND	448	112	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/10/2011	ND	17.4	87.2	200	4.83	

ND

173

86.5

200

6.03

11/10/2011

Surrogate: 1-Chlorooctane

DRO >C10-C28

102 %

117

55.5-154

10.0

Surrogate: 1-Chlorooctadecane

118%

57.6-158

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Celey D. Keene, Lab Director/Quality Manager

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Received:

11/07/2011

Reported:

11/11/2011

Project Name: Project Number: RODKE 'AOY' #1 30-015-28404

Project Location:

EDDY

Sampling Date:

11/04/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: SAMPLE #7 - 6' (H102403-07)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	105	2.00	9.09	
Toluene*	0.176	0.050	11/08/2011	ND	2.02	1.01	2.00	10.6	
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5	
Total Xylenes*	0.243	0.150	11/08/2011	ND	6.70	112	6.00	11.6	

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	11/09/2011	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/10/2011	ND	174	87.2	200	4.83	
DRO >C10-C28	<10.0	10.0	11/10/2011	ND	173	86.5	200	6.03	

Surrogate: 1-Chlorooctane

97.4%

55.5-154

Surrogate: 1-Chlorooctadecane

112 %

57.6-158

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Received:

11/07/2011

Sampling Date:

11/04/2011

Reported:

GRO C6-C10

Analyte

11/11/2011

Sampling Type:

Soil

Project Name:

RODKE 'AOY' #1

Reporting Limit

10.0

Result

<10.0

Sampling Condition:

Cool & Intact

Project Number:

30-015-28404

Sample Received By:

Celey D. Keene

Project Location:

EDDY

Sample ID: SAMPLE #8 - 1" (H102403-08)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	. Qualifier
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	105	2.00	9.09	
Toluene*	<0.050	0.050	11/08/2011	ND	2.02	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5	•
Total Xylenes*	<0.150	0.150	11/08/2011	ND	6.70	112	6.00	11.6	
Surrogate: 4-Bromofluorobenzene (PIL	98.6	% 64.4-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP		· · · · · · · · · · · · · · · · · · ·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/09/2011	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					

Method Blank

ND

ND

BS

174

173

% Recovery

87.2

86.5

True Value QC

200

200

RPD

4.83

6.03

Qualifier

Analyzed

11/10/2011

11/10/2011

DRO >C10-C28	176	10.0
Surrogate: 1-Chlorooctane	99.7 %	55.5-154
Surrogate: 1-Chlorooctadecane	115 %	57.6-158

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11/11/2011 RODKE 'AOY' #1

Project Name: Project Number:

30-015-28404

Reporting Limit

10.0

10.0

Result

<10.0

<10.0

Project Location:

EDDY

Sampling Date:

11/04/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

% Recovery

87.2

86.5

True Value QC

200

200

RPD

4.83

6.03

Qualifier

Celey D. Keene

Sample ID: SAMPLE #9 - 1" (H102403-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	105	2.00	9.09	
Toluene*	<0.050	0.050	11/08/2011	ND	2.02	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5	
Total Xylenes*	<0.150	0.150	11/08/2011	ND	6.70	112	6.00	11.6	
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 64.4-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/09/2011	ND	448	112	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					

Method Blank

ND

ND

174

173

Analyzed

11/10/2011

11/10/2011

Surrogate: 1-Chlorooctane	70.0 %	55.5-154
Surrogate: 1-Chlorooctadecane	82.6 %	57.6-158

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Analyte

GRO C6-C10

DRO >C10-C28

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Reported:

11/11/2011

Project Name: Project Number: RODKE 'AOY' #1 30-015-28404

Project Location:

EDDY

Sampling Date:

11/04/2011

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Celey D. Keene

Sample ID: SAMPLE #10 - 1" (H102403-10)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	105	2.00	9.09	
Toluene*	< 0.050	0.050	11/08/2011	ND	2.02	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5	
Total Xylenes*	0.154	0.150	11/08/2011	ND	6.70	112	6.00	11.6	
Surrogate: 4-Bromofluorobenzene (PIL	117	% 64.4-13-	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP		•			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	11/09/2011	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	11/10/2011	ND	174	87.2	200	4.83	
DRO >C10-C28	4820	100	11/10/2011	ND	173	86.5	200	6.03	
Surrogate: 1-Chlorooctane	79.5	% 55.5-15-	4						
Surrogate: I-Chlorooctadecane	105	% 57.6-15	8						

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Fax To:

(505) 748-4635

Received: Reported: 11/07/2011

11/11/2011 RODKE 'AOY' #1

Project Name: Project Number:

30-015-28404

Project Location:

EDDY

Sampling Date:

11/04/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: SAMPLE #11 -5' (H102403-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	. Qualifier
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	1.05	2.00	9.09	
Toluene*	<0.050	0.050	11/08/2011	ND	2.02	1.01	2.00	10.6	
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5	
Total Xylenes*	<0.150	0.150	11/08/2011	ND	6.70	112	6.00	11.6	
Surrogate: 4-Bromofluorobenzene (PIL	101	% 64.4-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	11/09/2011	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS		·-···			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/10/2011	ND	174	87.2	200	4.83	
DRO >C10-C28	599	10.0	11/10/2011	ND	173	86.5	200	6.03	
Surrogate: 1-Chlorooctane	96.8	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	114	% 57.6-15	8						

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Received: Reported: 11/07/2011

11/11/2011

RODKE 'AOY' #1

Project Name: Project Number:

30-015-28404

Project Location:

EDDY

Sampling Date:

11/04/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample 10: SAMPLE #12 - 3 (H102403-14	۷,
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BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	105	2.00	9.09	٠
Toluene*	<0.050	0.050	11/08/2011	ND	2.02	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5	
Total Xylenes*	<0.150	0.150	11/08/2011	· ND	6.70	112	6.00	11.6	
Surrogate: 4-Bromofluorobenzene (PIL	102 9	% 64.4-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					·
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	11/09/2011	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/10/2011	ND	174	87.2	200	4.83	
DRO >C10-C28	<10.0	10.0	11/10/2011	ND .	173	86.5	200	6.03	
Surrogate: 1-Chlorooctane	93.7	% 55.5-15	4	- · · · · · · · · · · · · · · · · · · ·	,				
Surrogate: 1-Chlorooctadecane	108	% 57.6-15	8						

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Received:

11/07/2011

Reported:

11/11/2011 RODKE 'AOY' #1

Project Name: Project Number:

30-015-28404

Project Location:

EDDY

Sampling Date:

11/04/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: SAMPLE #13 - 3' (H102403-13)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	105	2.00	9.09	
Toluene*	<0.050	0.050	11/08/2011	ND	2.02	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	1.17	2.00	11.5	
Total Xylenes*	<0.150	0.150	- 11/08/2011	ND	6.70	112	6.00	11.6	
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 64.4-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP			<u>.</u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	11/09/2011	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/10/2011	ND	174	87.2	200	4.83	
DRO >C10-C28	<10.0	10.0	11/10/2011	ND	173	86.5	200	6.03	
Surrogate: 1-Chlorooctane	91.2	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	106	% 57.6-15	8						

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(505) 748-4635

Received:

11/07/2011

Reported:

11/11/2011

Project Name: Project Number: RODKE 'AOY' #1 30-015-28404

Project Location:

EDDY

Sampling Date:

11/04/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: SAMPLE #14 - 1' (H102403-14)

BTEX 8021B

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	105	2.00	9.09	
Toluene*	<0.050	0.050	11/08/2011	ND	2.02	101	2.00	10.6	
Ethylbenzene*	< 0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5	
Total Xylenes*	< 0.150	0.150	11/08/2011	ND	6.70	112	6.00	11.6	

Surrogate: 4-Bromofluorobenzene (PIL

101 %

64.4-134

Chloride, SM4500Cl-B	mg,	mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/09/2011	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/10/2011	ND	174	87.2	200	4.83	
DRO >C10-C28	<10.0	10.0	11/10/2011	ND	173	86.5	200	6.03	

Surrogate: 1-Chlorooctane

88.5 %

55.5-154

Surrogate: 1-Chlorooctadecane

104 %

57.6-158

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Celeg D treens



Yates Energy Petroleum Corp JEREMY HAASS 105 S 4th Street Artesia NM, 88210

Fax To:

57.6-158

107 %

(505) 748-4635

Received:

11/07/2011

Reported: Project Name: 11/11/2011 RODKE 'AOY' #1 30-015-28404

Project Number: Project Location:

EDDY

Sampling Date:

11/04/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: SAMPLE #15 - 1' (H102403-15)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	105	2.00	9.09	
Toluene*	<0.050	0.050	11/08/2011	ND	2.02	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5	
Total Xylenes*	<0.150	0.150	50 11/08/2011 ND 6.70		6.70	112	6.00	11.6	
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 64.4-13-	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	11/09/2011	ND	448	112	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/10/2011	ND	174	87.0	200	2.79	
DRO >C10-C28	10.0	10.0	11/10/2011	ND	215	107	200	2.04	
Surrogate: 1-Chlorooctane	108 5	% 55.5-15	4					•	

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Surrogate: 1-Chlorooctadecane

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Celey D. Keene, Lab Director/Quality Manager

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Fax To:

(505) 748-4635

Received:

11/07/2011

Reported:

11/11/2011 RODKE 'AOY' #1

Project Name: Project Number:

30-015-28404

Project Location:

EDDY

Sampling Date:

11/04/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: SAMPLE #16 - 1' (H102403-16)

BTEX 8021B

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS.	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	105	2.00	9.09	
Toluene*	<0.050	0.050	11/08/2011	ND	2.02	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5	
Total Xylenes*	< 0.150	0.150	11/08/2011	ND	6.70	112	6.00	11.6	

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP		*****			
Analyte	Result	Reporting Limit	, Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride TPH 8015M	64.0	16.0	11/09/2011	ND	448	112	400	0.00	
	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/10/2011			87.0	200	2.79	
DRO >C10-C28	104	10.0	11/10/2011	ND	215	107	200	2.04	

Surrogate: 1-Chlorooctane

107 %

55.5-154

Surrogate: I-Chlorooctadecane

111%

57.6-158

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Celey D. Keene, Lab Director/Quality Manager

Page 17 of 23



Yates Energy Petroleum Corp JEREMY HAASS 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

11/07/2011

Reported:

11/11/2011 RODKE 'AOY' #1

Project Name: Project Number:

30-015-28404

Project Location:

EDDY

Sampling Date:

11/04/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: SAMPLE #17 - 6' (H102403-17)

BTEX 8021B

mg/kg

Analyzed By: MS

Analyte	Result	esult Reporting Limit Analyzed		Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	1.05	2.00	9.09	
Toluene*	<0.050	0.050	11/08/2011	ND	2.02	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	117	2.00	11.5	
Total Xylenes*	<0.150	0.150	11/08/2011	ND	6.70	112	6.00	11.6	

Surrogate: 4-Bromofluorobenzene (PIL

101 %

64.4-134

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	11/09/2011	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result			Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/10/2011			87.0	200	2.79	
DRO >C10-C28	<10.0	10.0	11/10/2011	ND	215	107	200	2.04	

Surrogate: 1-Chlorooctane

108 %

55.5-154

Surrogate: 1-Chlorooctadecane

110%

57.6-158

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Celey D. Keene, Lab Director/Quality Manager

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Fax To: (505) 748-4635

Received:

11/07/2011

Reported:

11/11/2011 RODKE 'AOY' #1

Project Name: Project Number:

30-015-28404

Project Location:

EDDY

Sampling Date:

11/04/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: SAMPLE #18 - 3' (H102403-18)

BTEX 8021B

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2011	ND	2.10	105	2.00	9.09	
Toluene*	<0.050	0.050	11/08/2011	ND	2.02	101	2.00	10.6	
Ethylbenzene*	<0.050	0.050	11/08/2011	ND	2.33	1.17	2.00	11.5	
Total Xylenes*	<0.150	0.150	11/08/2011	11 ND		112	6.00	11.6	

Surrogate: 4-Bromofluorobenzene (PIL

101 %

64.4-134

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752 16.0	11/09/2011	ND	448	112	400	0.00		
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	mg/kg Result Reporting Limit A		Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
ĠRO C6-C10	<10.0	10.0	it Analyzed Method Blank 11/10/2011 ND		174	87.0	200	2.79	
DRO >C10-C28	40.3	10.0	11/10/2011	ND	215	107	200	2.04	
			:				• • • • • • • • • • • • • • • • • • • •		

Surrogate: 1-Chlorooctane

102 %

55.5-154

Surrogate: 1-Chlorooctadecane

104 %

57.6-158

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Clark Kene



Yates Energy Petroleum Corp JEREMY HAASS 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

11/07/2011

Reported:

11/11/2011 RODKE 'AOY' #1

Project Name: Project Number:

30-015-28404

Project Location:

EDDY

Sampling Date:

11/04/2011

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: SAMPLE #19 - 1' (H102403-19)

BTEX 8021B

Analyzed By: MS

DIEX COLLE	9	9	1 11111	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2011	ND	2.10	105	2.00	9.09	
Toluene*	0.080	0.050	11/09/2011	ND	2.02	101	2.00	10.6	
Ethylbenzene*	0.723	0.050	11/09/2011	ND	2.33	117	2.00	11.5	
Total Xylenes*	1.34	0.150	11/09/2011	ND	6.70	1.12	6.00	11.6	

Surrogate: 4-Bromofluorobenzene (PIL

109 %

64.4-134

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					<u>.</u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/09/2011	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/10/2011	ND	174	87.0	200	2.79	
DRO >C10-C28	237	10.0	11/10/2011	ND	215	107	200	2.04	
Surrogate: 1-Chlorooctane	92.6	% 55.5-15	! #						

Surrogate: 1-Chlorooctadecane

98.3 %

57.6-158

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Clay D. Keine

(505) 393-2326 FAX (505) 393-2476

	Project Manager:	Jeremy Haass	y Haass														Pro	ject	Nan	ne: _				Roo	dke '	<u>AO</u>	<u>(' #</u>	1				
	Comp: (505) 393-2326	Yates Petroleum C	Corporation																Pro	ject	#: 3	0-0	15-	2840)4							
	Company Address:	105 South 4th Stre	eet															Р	roje	ct Lo	oc: _					Εc	ddy					
	City/State/Zip:	Artesia, NM 8821	10														•			РО	#: <u>1</u>	03-2	636									_
	Telephone No:	575-748-4311					Fax No:										R	eport	For	mat:	. [x s	tand	lard	{	Т	RRF	,		NPE	DES	
	Sampler Signature:	2	145	<	\		e-mail:		jha	aas	s@)ya	tes	petr	role	<u>um</u>	.cor	<u>n</u>														
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ORDER	#: H10240	<u>ر</u> ج د د د د د د د د د د د د د د د د د د			,—·					F	rese	vatio	n & #	of Cor	ntaine	rs	Ma	trix	SB	П		T	ور	ę							48, 7	
LAB# (lab.use only)	FIEL	"D CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	loe	HNO3	HCI	H ₂ SO ₄	NaOH Na.S.O.	None	Other (Specify)	DW=Drinking Water SL=Sludge	CVV = Groundwater 3-SolirSond NP=Non-Potable Specify Other	TPH: 418.1 8015M 8019	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	Matels: 4s 4a Ba Cd Cr Dh Ha Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 826	RCI R R R	N.O.A.wi. Chlorides	SAR		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
Ō١	Sample #1			6'	6'	11/4/2011	10:00 AM	_	-	x				1		T		 S	х				1	1		x	+	Tx	_	\Box	\neg	X
	Sample #2			3'	3'	11/4/2011	10:20 AM			x		٦	┪			Τ		S	х		1		1		\Box	х	T	T _x	,	\prod		х
B	Sample #3			3'	3'	11/4/2011	10:40 AM			х			_			-		S	х							x	\equiv	x		\blacksquare		-x-
04	Sample #4			6'	6'	11/4/2011	11:00 AM			х							,	S	х							х		×				х
0Ś	Sample #5			6'	6'	11/4/2011	11:20 AM			х								<u>S</u>	х					1		x	\perp	×	(Ш		х
06	Sample #6			10'	10'	11/4/2011	11:40 AM			x						1_		<u>s</u>	х							x		×				х
01	Sample #7			6'	6'	11/4/2011	12:00 PM	L		х			\bot	1	_	_	:	<u>s</u>	х				\perp			x	\perp	×	4	$\perp \downarrow$		х
JZ.	Sample #8			1"_	1"	11/4/2011	12:20 PM		L	х		_	_	_		1_	:	s	х	Ц	\dashv	4	1		\sqcup	x	1	L×	4	$oxed{oxed}$		x
Street Street	Sample #9			1"	1"	11/4/2011	12:40 PM	L	L	x		_	_	_	_	1_		<u>s_</u>	х		_	\perp	_	\downarrow		x	1	_ ×		$\perp \downarrow$		х
	Sample #10			1"	1"	11/4/2011	1:00 PM	L		х						<u> </u>		<u>s</u>	х		- VIA ENT	15000	WEGSTI		NEW YORK	X	6000000	<u> </u> x	()			X
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Relinquis	hed by:		Date	Ti	me	Received by EL	OT.									D	ate		Tim	9	t Tem	y Sa by Co pera	imple lurie	ericiii r? Upor	UPS	ep / (5)HL ø	F	dex	Lon	iN e Sta °C	ar T

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Œ.

ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

	Project Manager:	Jeremy Haass	ny Haass											_	Р	roje	ct N	lame	e:				Ro	dke '	<u> 40)</u>	<u>/</u> ' #1				-		
	Comp: (505) 393-2326	Yates Petroleum Corporati	on													_		F	Proj	ect #	#: <u>3(</u>)-01	15-2	840	4							2 m
	Company Address:	105 South 4th Street																Pro	jec	t Lo	c:					Ec	ldy					
	City/State/Zip:	Artesia, NM 88210														_				PO #	#: <u>10</u>	3-20	636									
	Telephone No:	575-748-4311				Fax No:				-					_	-	Repo	rt F	orm	nat:	×]st	anda	ırd		Т	RRP	,		NPD	ES	
	Sampler Signature:		<u> </u>			e-mail:		jha	aass	s@)ya	tes	pet	role	e <u>un</u>	_ <u>Դ.Ը</u> (<u>om</u>															
lab use)		•												F				rclf	-	nalyz I	ze Fo	or:	$\overline{+}$		<u>一</u>	\dashv		
ORDEF	7 - 1 i	403							Р	rese	rvatio	n & #	of Co	ntain	ers	T 1	Vatrix	_	Т			DTAL	1	-							3, 72 hrs	
LAB# (lab.use only)		D CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers			HCI				Other (Specify)	ter SL≕Sludge	ler S=Soil/Solid	on-Potable Specify Other	410.1 00.1	TPH: TX 1005 TX 1006	Cauons (Cl. SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	KCI NORM	Chlorides	SAR		RUSH TAT (Pre-Schedule) 24, 48,	Standard TAT
II	Sample #11		5'	5,8	11/4/2011	1:20 PM	1		x		7	1	十	1	†	†	s	_	x T			†	+	1		x	+	x	1		-1	X
12	Sample #12		3'	3'	11/4/2011	1:40 PM			x				1			T	s		×				T	T		×	T	×	T	П	\neg	х
13	Sample #13		3'	3'	11/4/2011	2:00 PM			х					-	-	1	s		x				-			-x-		x	E	\square	\exists	-x-
14	Sample #14		1'	1.8'	11/4/2011	2:20 PM			x								s		x							х		x	$oxed{\mathbb{L}}$			Х
15	Sample #15		1'	1,6'	11/4/2011	2:40 PM			х								s		x			L				x		×	L			х
وال	Sample #16		1'	110	11/4/2011	3:00 PM			x		_					_	S		x					<u> </u>		х		X	\perp			х
17	Sample #17	_ 	6'	6'	11/4/2011	3:20 PM	L		×	_	_			_	\perp	\perp	S	\perp	×	\perp	\bot	┸		↓_	Ш	x	1	↓×	\perp	Ц		х
<u> 172</u>	Sample #18		3'	37	11/4/2011	3:40 PM	_	<u> </u>	x	_		_	_	1	_		S	_	×		_	1	_	↓_	\bigsqcup	x	4	<u> </u> x	_		\dashv	х
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