YATES PETROLEUM CORPORATION

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

2RP-750
2RP-751
2RP-765

October 18, 2012

Atten: Mike Bratcher
NM Oil Conservation Division
District 2 Office
Artesia, NM 88220-6292

Mr. Bratcher:

Yates Petroleum Corp would like to request closure of the Anemone ANE Federal #2 for the releases occurring on January 20, 2011, April 15, 2011, and April 22, 2011. Request for closure is based on a site ranking of Zero (0). Below is a summary of analytical findings. The official reports are enclosed.

Site Ranking Zero
Depth to
Groundwater 585'

	BTEX	GRO	DRO	Chloride
West Excavation S1	1.962	96.2	3040	32
West Excavation S2	0.515	20.4	1250	64
Slop Tank	6 893	366	3390	16
Middle Excavation	1.815	51.7	1980	167
East Excavation	ND	ND	155	47.4

Thank you,

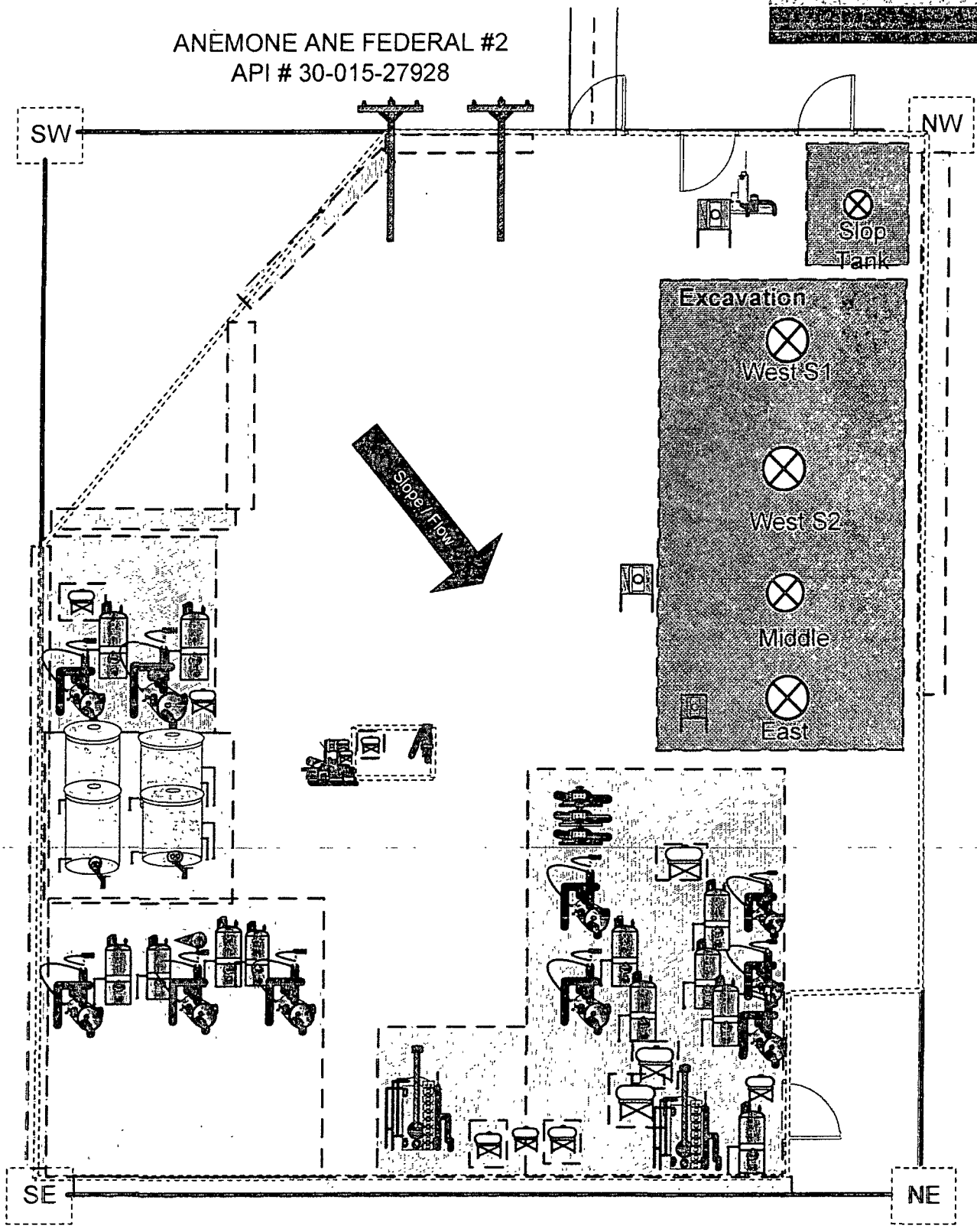
YATES PETROLEUM CORPORATION

Amanda Trujillo

YATES PETROLEUM CORPORATION

Thursday, April 28, 2011

ANEMONE ANE FEDERAL #2
API # 30-015-27928



CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

October 05, 2012

AMANDA TRUJILLO

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: ANENOME BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/01/12 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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 (V1, 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

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Yates Energy Petroleum Corp
AMANDA TRUJILLO
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received:	10/01/2012	Sampling Date:	09/28/2012
Reported:	10/05/2012	Sampling Type:	Soil
Project Name:	ANENOME BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Amanda Ponce
Project Location:	SECTION 9 T22S R24E		

Sample ID: WEST EXC SAMPLE 1 (H202393-01)

BTEX 8021B mg/kg Analyzed By: AP S-04

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**0.155**	0.050	10/04/2012	ND	1.99	99.4	2.00	6.80	
Toluene*	**0.067**	0.050	10/04/2012	ND	2.21	110	2.00	6.99	
Ethylbenzene*	**1.74**	0.050	10/04/2012	ND	2.17	109	2.00	7.00	
Total Xylenes*	<0.150	0.150	10/04/2012	ND	6.79	113	6.00	6.48	

Surrogate: 4-Bromofluorobenzene (PID *268 %* *89.4-126*

TPH 8015M mg/kg Analyzed By: MS S-06

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	**96.2**	50.0	10/04/2012	ND	205	102	200	3.89	
DRO >C10-C28	**3040**	50.0	10/04/2012	ND	201	101	200	7.92	

Surrogate: 1-Chlorooctane *105 %* *65.2-140*

Surrogate: 1-Chlorooctadecane *173 %* *63.6-154*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Yates Energy Petroleum Corp
AMANDA TRUJILLO
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received:	10/01/2012	Sampling Date:	09/28/2012
Reported:	10/05/2012	Sampling Type:	Soil
Project Name:	ANENOME BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Amanda Ponce
Project Location:	SECTION 9 T22S R24E		

Sample ID: WEST EXC SAMPLE 2 (H202393-02)

BTEX 8021B mg/kg **Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	**0.103**	0.050	10/04/2012	ND	1.99	99.4	2.00	6.80	
Toluene*	**0.345**	0.050	10/04/2012	ND	2.21	110	2.00	6.99	
Ethylbenzene*	**0.067**	0.050	10/04/2012	ND	2.17	109	2.00	7.00	
Total Xylenes*	<0.150	0.150	10/04/2012	ND	6.79	113	6.00	6.48	

Surrogate 4-Bromofluorobenzene (PID *109 %* *89.4-126*

TPH 8015M mg/kg **Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	**20.4**	10.0	10/04/2012	ND	205	102	200	3.89	
DRO >C10-C28	**1250**	10.0	10/04/2012	ND	201	101	200	7.92	

Surrogate 1-Chlorooctane *90.6 %* *65.2-140*

Surrogate 1-Chlorooctadecane *126 %* *63.6-154*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	*The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.*
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

Celey D. Keene, Lab Director/Quality Manager

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

ARDINAL LABORATORIES
101 East Marland, Hobbs NM 88240 (505) 393-2326 FAX (505) 393-2476

Project Manager: Amanda Trujillo | Project Name: Anenome Battery

Comp. (505) 393-2326 Yates Petroleum Corporation | Project #:

Company Address: 105 South 4th Street | Project Loc: Section 9 T22S R24E

City/State/Zip: Artesia, NM 88210 | PO #:

Telephone No: 575-748-4310 | Fax No: | Report Format: [x] Standard [ ] TRRP [ ] NPDES

Sampler Signature: | e-mail: atrujillo@yatespetroleum.com

(lab use only) ORDER #: H202393

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water GW=Groundwater WW=Non-Potable SL=Sludge S=Soil-Solid Specify Other	Analyze For: TCLP / TOTAL: 8015M 418.1	TX 1005	TX 1005	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	PCI	HOLD	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	west excavation Sample 1	6"	8"	9/28/2012	9 00 AM		1	X								S	X									X			X			
2	west excavation Sample 2	6"	8"	9/28/2012	9 00 AM		1	X								S	X									X			X			

Special Instructions: Please Place Chlorides in separate report.

Relinquished by	Date	Time	Received by	Date	Time
	10/01/12	11 29 AM		10/1/12	1:30
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by ELOT:	Date	Time

Laboratory Comments:
Sample Containers Intact? Y (N)
VOCs Free of Headspace? Y N
Labels on container(s) Y N
Custody seals on container(s) Y (N)
Custody seals on cooler(s) Y (N)
Sample Hand Delivered Y N
by Sampler/Client Rep.? Y N
by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt 3.

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

October 05, 2012

AMANDA TRUJILLO

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: ANENOME BATTERY

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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 (V1, 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

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Yates Energy Petroleum Corp
AMANDA TRUJILLO
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received:	10/01/2012	Sampling Date:	09/28/2012
Reported:	10/05/2012	Sampling Type:	Soil
Project Name:	ANENOME BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Amanda Ponce
Project Location:	SECTION 9 T22S R24E		

Sample ID: WEST EXC SAMPLE 1 (H202393-01)

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	10/05/2012	ND	400	100	400	0.00	

Sample ID: WEST EXC SAMPLE 2 (H202393-02)

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	10/05/2012	ND	400	100	400	0.00	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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

Celey D. Keene, Lab Director/Quality Manager

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

ARDINAL LABORATORIES
101 East Marland Hobbs NM 88240 (505) 393-2326 FAX (505) 393-2476

Project Manager: Amanda Trujillo | Project Name: Anemone Battery
Comp. (505) 393-2326 Yates Petroleum Corporation | Project #:
Company Address: 105 South 4th Street | Project Loc: Section 9 T22S R24E
City/State/Zip: Artesia, NM 88210 | PO #:
Telephone No: 575-748-4310 | Fax No: | Report Format: [x] Standard [ ] TRRP [ ] NPDES
Sampler Signature: | e-mail: atrujillo@yatespetroleum.com

(lab use only) ORDER #: H202393

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water, GW=Groundwater, S=Soil/Solid, SL=Sludge, Specify Other	Analyze For: TCLP: 8015B	TCLP: 8021B/5030 or BTEX 8260	Chlorides	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	west excavation Sample 1	6"	8"	9/28/2012	9 00 AM		1	x								S	x	x	x		
2	west excavation Sample 2	6"	8"	9/28/2012	9 00 AM		1	x								S	x	x	x		

Special Instructions: Please Place Chlorides in separate report.

Relinquished by	Date	Time	Received by	Date	Time
	10/01/12	11 29 AM		10/1/12	1:30
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by ELOT	Date	Time

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s) Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered by Sampler/Client Rep.? Y N
by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt 5.

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

October 18, 2011

AMANDA TRUJILLO

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: ANENOME ANE FEDERAL #2

Enclosed are the results of analyses for samples received by the laboratory on 10/12/11 10:40.

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

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Yates Energy Petroleum Corp
AMANDA TRUJILLO
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received:	10/12/2011	Sampling Date:	10/11/2011
Reported:	10/18/2011	Sampling Type:	Soil
Project Name:	ANENOME ANE FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: WEST SIDE (H102198-01)

BTEX 8021B mg/kg **Analyzed By: AP** **S-04**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2011	ND	2.08	104	2.00	0.829	
Toluene*	**3.87**	0.050	10/14/2011	ND	2.07	103	2.00	0.173	
Ethylbenzene*	**2.95**	0.050	10/14/2011	ND	2.05	102	2.00	0.0754	
Total Xylenes*	**5.54**	0.150	10/14/2011	ND	6.20	103	6.00	1.33	

Surrogate 4-Bromofluorobenzene (PIL *411 %* *64.4-134*

TPH 8015M mg/kg **Analyzed By: AB**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	**1320**	50.0	10/12/2011	ND	173	86.5	200	0.679	
DRO >C10-C28	**5290**	50.0	10/12/2011	ND	167	83.4	200	0.0336	

Surrogate 1-Chlorooctane *112 %* *55.5-154*

Surrogate 1-Chlorooctadecane *113 %* *57.6-158*

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Yates Energy Petroleum Corp
AMANDA TRUJILLO
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received:	10/12/2011	Sampling Date:	10/11/2011
Reported:	10/18/2011	Sampling Type:	Soil
Project Name:	ANENOME ANE FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SLOP TANK (H102198-02)

BTEX 8021B mg/kg **Analyzed By: AP** **S-04**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2011	ND	2.08	104	2.00	0.829	
Toluene*	**0.913**	0.050	10/14/2011	ND	2.07	103	2.00	0.173	
Ethylbenzene*	**2.22**	0.050	10/14/2011	ND	2.05	102	2.00	0.0754	
Total Xylenes*	**3.76**	0.150	10/14/2011	ND	6.20	103	6.00	1.33	

Surrogate 4-Bromofluorobenzene (PIL *230 %* *64.4-134*

TPH 8015M mg/kg **Analyzed By: AB**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	**366**	10.0	10/12/2011	ND	173	86.5	200	0.679	
DRO >C10-C28	**3390**	10.0	10/12/2011	ND	167	83.4	200	0.0336	

Surrogate 1-Chlorooctane *111 %* *55.5-154*

Surrogate 1-Chlorooctadecane *132 %* *57.6-158*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

Celey D. Keene, Lab Director/Quality Manager

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amanda Trujillo
Compa (505) 393-2326 Yates Petroleum Corporation
Company Address: 105 South 4th Street
City/State/Zip: Artesia, NM 88210
Telephone No: 575-748-4310 Fax No:
Sampler Signature: e-mail: atrujillo@yatespetroleum.com

Project Name: Anenome ANE Federal #2
Project #:
Project Loc: Anenome ANE Federal #2
PO #:
Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: H10 2198-

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TPH 418.1 / 8015M	TPH TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	8021B/5030 or BTEX 8260	RCI	N O R M	Chlorides	SAR		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	West Side	5'	5.4'	10/11/2011	8:00 AM		1	x								S	x								x			X				
02	Slop Tank	3'	3.5'	10/11/2011	8:00 AM		1	x								S	x								x			X				

Special Instructions: Please put chlorides on top page

Relinquished by	Date	Time	Received by	Date	Time
	10/12/11	8.05 AM		10/12/11	10:40
Relinquished by	Date	Time	Received by:	Date	Time
Relinquished by	Date	Time	Received by ELOT:	Date	Time

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s) Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered Y N
by Sampler/Client Rep ? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt:

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

October 18, 2011

AMANDA TRUJILLO

Yates Energy Petroleum Corp

105 S 4th Street

Artesia, NM 88210

RE: ANENOME ANE FEDERAL #2

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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

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Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

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Lab Director/Quality Manager

CARDINAL Laboratories

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Yates Energy Petroleum Corp
AMANDA TRUJILLO
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received:	10/12/2011	Sampling Date:	10/11/2011
Reported:	10/18/2011	Sampling Type:	Soil
Project Name:	ANENOME ANE FEDERAL #2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: WEST SIDE (H102198-01)

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	10/15/2011	ND	400	100	400	11.3	

Sample ID: SLOP TANK (H102198-02)

Chloride, SM4500Cl-B mg/kg **Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	10/15/2011	ND	400	100	400	11.3	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

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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

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amanda Trujillo
Comp: (505) 393-2326 Yates Petroleum Corporation
Company Address: 105 South 4th Street
City/State/Zip: Artesia, NM 88210
Telephone No: 575-748-4310 Fax No:
Sampler Signature: e-mail: atrujillo@yatespetroleum.com

Project Name: Anenome ANE Federal #2
Project #:
Project Loc: Anenome ANE Federal #2
PO #:
Report Format: [x] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: H10 2198-

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP TOTAL: TPH 418.1 / 8015M	TPH TX 1005	TPH TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021 / 5030 or BTEX 8260	RCI	N O R M	Chlorides	SAR		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	West Side	5'	5.4'	10/11/2011	8:00 AM		1	x								S	x									x			X				
02	Slop Tank	3'	3.5'	10/11/2011	8:00 AM		1	x								S	x									x			X				

Special Instructions: Please put chlorides on top page

Relinquished by:	Date	Time	Received by:	Date	Time
	10/12/11	8:05 AM		10/12/11	10:40
Relinquished by	Date	Time	Received by:	Date	Time
Relinquished by	Date	Time	Received by ELOT	Date	Time

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s) Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered Y N
by Sampler/Client Rep ? Y N
by Courier? UPS DHL FedEx Lone Star
Temperature Upon Receipt:

Analytical Report 426797

for

Yates Petroleum Corporation

Project Manager: Amanda Trujillo

Amenome Battery

08-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)

08-SEP-11

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

Reference: XENCO Report No: **426797**
Amenome Battery
Project Address:

Amanda Trujillo:

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 426797. 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. 426797 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

Sample Cross Reference 426797

Yates Petroleum Corporation, Artesia, NM

Amenome Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
West	S	08-30-11 09:30	3 - 3.5 ft	426797-001
Middle	S	08-30-11 09:30	2 - 2.5 ft	426797-002
East	S	08-30-11 09:30	4 - 4.5 ft	426797-003

CASE NARRATIVE

Client Name: Yates Petroleum Corporation
Project Name: Amenome Battery

Project ID:
Work Order Number: 426797

Report Date: 08-SEP-11
Date Received: 08/31/2011

Sample receipt non conformances and comments:
None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-869210 BTEX by EPA 8021B
SW8021BM

Batch 869210, 4-Bromofluorobenzene recovered below QC limits . Matrix interferences is suspected; data not confirmed by re-analysis
Samples affected are: 426797-001.

4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data not confirmed by re-analysis
Samples affected are: 426797-002, -003.

SW8021BM

Batch 869210, Ethylbenzene, Toluene, m_p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 426797-002, -003, -001.
The Laboratory Control Sample for Toluene, Ethylbenzene, m_p-Xylenes , o-Xylene is within laboratory Control Limits

Batch: LBA-869326 TPH By SW8015B Mod
SW8015B_NM

Batch 869326, C6-C10 Gasoline Range Hydrocarbons recovered below QC limits in the Blank Spike Duplicate however was within limits for the Blank Spike, therefore data is reported as is.
Samples affected are: 426797-002, -003, -001.

Certificate of Analysis Summary 426797

Yates Petroleum Corporation, Artesia, NM

Project Name: Amenome Battery

Project Id:

Contact: Amanda Trujillo

Project Location:

Date Received in Lab: Wed Aug-31-11 10:00 am

Report Date: 08-SEP-11

Project Manager: Brent Barron II

Analysis Requested	*Lab Id:*	426797-001		426797-002		426797-003				
	Field Id:	East ~~West~~		Middle		~~East~~ West				
	Depth:	3-3.5 ft		2-2.5 ft		4-4.5 ft				
	Matrix:	SOIL		SOIL		SOIL				
	Sampled:	Aug-30-11 09:30		Aug-30-11 09 30		Aug-30-11 09:30				
BTEX by EPA 8021B	*Extracted:*	Sep-02-11 12.00		Sep-02-11 12 00		Sep-02-11 12:00				
	Analyzed:	Sep-03-11 15:21		Sep-03-11 15:44		Sep-03-11 16:08				
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Benzene		ND	0 00537	ND	0 00506	ND	0 203			
Toluene		ND	0 0107	ND	0 0101	0 514	0 407			
Ethylbenzene		ND	0 00537	0 111	0 00506	1.28	0 203			
m_p-Xylenes		ND	0 0107	0 221	0 0101	9 49	0.407			
o-Xylene		ND	0 00537	0 310	0 00506	2 53	0 203			
Total Xylenes		ND	0 00537	0 531	0 00506	12.0	0 203			
Total BTEX		ND	0 00537	0 642	0 00506	13.8	0.203			
Percent Moisture	*Extracted:*									
	Analyzed:	Aug-31-11 15:55		Aug-31-11 15:55		Aug-31-11 15:55				
	Units/RL:	%	RL	%	RL	%	RL			
Percent Moisture		6 83	1.00	1.79	1 00	1.84	1.00			
TPH By SW8015B Mod	*Extracted:*	Sep-01-11 13:40		Sep-01-11 13:40		Sep-01-11 13:40				
	Analyzed:	Sep-03-11 05 13		Sep-03-11 05:44		Sep-03-11 06.15				
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
C6-C10 Gasoline Range Hydrocarbons		ND	16 1	51 7	15.3	595	76.1			
C10-C28 Diesel Range Hydrocarbons		155	16.1	1980	15.3	7030	76.1			
Total TPH		155	16 1	2030	15 3	7630	76.1			

Brent Barron II
Odessa Laboratory Manager

Final 1.000

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.

Form 2 - Surrogate Recoveries

Project Name: Amenome Battery

Work Orders : 426797,

Project ID:

Lab Batch #: 869326 **Sample:** 426797-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/03/11 05:13

TPH By SW8015B Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	109	99 8	109	70-135	
o-Terphenyl	56 6	49.9	113	70-135	

Lab Batch #: 869326 **Sample:** 426797-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/03/11 05:44

TPH By SW8015B Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	113	99.9	113	70-135	
o-Terphenyl	60 0	50.0	120	70-135	

Lab Batch #: 869326 **Sample:** 426797-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/03/11 06.15

TPH By SW8015B Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	114	99.6	114	70-135	
o-Terphenyl	45 2	49.8	91	70-135	

Lab Batch #: 869210 **Sample:** 426797-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/03/11 15:21

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0 0287	0.0300	96	80-120	
4-Bromofluorobenzene	0 0198	0.0300	66	80-120	***

Lab Batch #: 869210 **Sample:** 426797-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/03/11 15:44

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0 0253	0 0300	84	80-120	
4-Bromofluorobenzene	0 0505	0.0300	168	80-120	*

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Amenome Battery

Work Orders : 426797,

Project ID:

Lab Batch #: 869210 **Sample:** 426797-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/03/11 16:08

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0260	0 0300	87	80-120	
4-Bromofluorobenzene	0.0435	0 0300	145	80-120	*

Lab Batch #: 869326 **Sample:** 610994-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 09/03/11 02:06

TPH By SW8015B Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.1	100	86	70-135	
o-Terphenyl	44.4	50.0	89	70-135	

Lab Batch #: 869210 **Sample:** 610920-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 09/03/11 08:30

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0282	0 0300	94	80-120	
4-Bromofluorobenzene	0.0256	0 0300	85	80-120	

Lab Batch #: 869326 **Sample:** 610994-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 09/03/11 01:03

TPH By SW8015B Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	100	101	70-135	
o-Terphenyl	42.9	50.1	86	70-135	

Lab Batch #: 869210 **Sample:** 610920-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 09/03/11 06:59

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0 0297	0.0300	99	80-120	
4-Bromofluorobenzene	0.0279	0 0300	93	80-120	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

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

Form 2 - Surrogate Recoveries

Project Name: Amenome Battery

Work Orders : 426797,

Project ID:

Lab Batch #: 869326 **Sample:** 610994-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 09/03/11 01:34

TPH By SW8015B Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96 2	99.9	96	70-135	
o-Terphenyl	40 5	50 0	81	70-135	

Lab Batch #: 869210 **Sample:** 610920-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 09/03/11 07:21

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0285	0.0300	95	80-120	
4-Bromofluorobenzene	0 0279	0.0300	93	80-120	

Lab Batch #: 869326 **Sample:** 426704-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/03/11 10:32

TPH By SW8015B Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	112	101	111	70-135	
o-Terphenyl	46.3	50.3	92	70-135	

Lab Batch #: 869210 **Sample:** 426978-002 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/03/11 12:43

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0284	0.0300	95	80-120	
4-Bromofluorobenzene	0.0276	0.0300	92	80-120	

Lab Batch #: 869326 **Sample:** 426704-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/03/11 11:03

TPH By SW8015B Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	99 5	103	70-135	
o-Terphenyl	40.8	49 8	82	70-135	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes

Form 2 - Surrogate Recoveries

Project Name: Amenome Battery

Work Orders : 426797,

Project ID:

Lab Batch #: 869210 **Sample:** 426978-002 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 09/03/11 13:05

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0 0264	0.0300	88	80-120	
4-Bromofluorobenzene	0.0257	0.0300	86	80-120	

* Surrogate outside of Laboratory QC limits

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

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes

BS / BSD Recoveries

Project Name: Amenome Battery

Work Order #: 426797 **Project ID:**

Analyst: ASA **Date Prepared:** 09/02/2011 **Date Analyzed:** 09/03/2011

Lab Batch ID: 869210 **Sample:** 610920-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	**Blank Sample Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Spike Added [E]**	**Blank Spike Duplicate Result [F]**	**Blk. Spk Dup. %R [G]**	**RPD %**	**Control Limits %R**	**Control Limits %RPD**	**Flag**
Benzene	<0.00100	0.100	0.111	111	0.100	0.108	108	3	70-130	35	
Toluene	<0.00200	0.100	0.0974	97	0.100	0.0965	97	1	70-130	35	
Ethylbenzene	<0.00100	0.100	0.105	105	0.100	0.104	104	1	71-129	35	
m_p-Xylenes	<0.00200	0.200	0.209	105	0.200	0.209	105	0	70-135	35	
o-Xylene	<0.00100	0.100	0.0980	98	0.100	0.0975	98	1	71-133	35	

Analyst: BBH **Date Prepared:** 09/01/2011 **Date Analyzed:** 09/03/2011

Lab Batch ID: 869326 **Sample:** 610994-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

TPH By SW8015B Mod	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
Analytes	**Blank Sample Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Spike Added [E]**	**Blank Spike Duplicate Result [F]**	**Blk. Spk Dup. %R [G]**	**RPD %**	**Control Limits %R**	**Control Limits %RPD**	**Flag**
C6-C10 Gasoline Range Hydrocarbons	<15.0	1000	706	71	999	678	68	4	70-135	35	L
C10-C28 Diesel Range Hydrocarbons	<15.0	1000	814	81	999	784	78	4	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: Amenome Battery

Work Order # : 426797 **Project ID:**

Lab Batch ID: 869210 **QC- Sample ID:** 426978-002 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 09/03/2011 **Date Prepared:** 09/02/2011 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0 000998	0.0998	0.0798	80	0 100	0 0718	72	11	70-130	35	
Toluene	<0.00200	0.0998	0.0665	67	0 100	0.0580	58	14	70-130	35	X
Ethylbenzene	<0 000998	0.0998	0 0641	64	0.100	0.0520	52	21	71-129	35	X
m_p-Xylenes	<0.00200	0.200	0.123	62	0.200	0.0983	49	22	70-135	35	X
o-Xylene	<0 000998	0 0998	0.0543	54	0 100	0.0438	44	21	71-133	35	X

Lab Batch ID: 869326 **QC- Sample ID:** 426704-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 09/03/2011 **Date Prepared:** 09/01/2011 **Analyst:** BBH

Reporting Units: mg/kg

TPH By SW8015B Mod Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C10 Gasoline Range Hydrocarbons	<16.3	1090	810	74	1080	762	71	6	70-135	35	
C10-C28 Diesel Range Hydrocarbons	<16 3	1090	988	91	1080	895	83	10	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

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

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

Sample Duplicate Recovery

Project Name: Amenome Battery

Work Order #: 426797

Lab Batch #: 868917 **Project ID:**

Date Analyzed: 08/31/2011 15.55 **Date Prepared:** 08/31/2011 **Analyst:** BRB

QC- Sample ID: 426801-003 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	<1.00	<1.00	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

XENCO

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: Amanda Trujillo
Company Name: Yates Petroleum Corporation
Company Address: 105 South 4th Street
City/State/Zip: Artesia, NM 88210
Telephone No: 575-748-4310 Fax No: 575-748-4585
Sampler Signature:

Project Name: Amenome Battery
Project #:
Project Loc:
PO #: 12693
Report Format: [X] Standard [ ] TRRP [ ] NPDES
e-mail: atrujillo@yatespetroleum.com

(lab use only)
ORDER #: 426797 / 426798

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP/TOTAL TPH 418.1 8015M	TPH TX1005 TX1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N O R M	Chlorides	TLCP		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
001	West	3'	3.5"	8/30/2011	9:30 AM			x								S	x								x			x				X
002	Middle	2'	2.5"	8/30/2011	9:30 AM			x								S	x								x			x				X
003	East	4'	4.5"	8/30/2011	9.30 AM			x								S	x								x			x				X

Special Instructions: Please put each well location in separate report

Relinquished by	Date	Time	Received by	Date	Time
[signature]	08/30/11	3 15 PM			
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by	Date	Time	Received by ELOT:	Date	Time
Fedex			Andrea Elam	8-31-11	10:00

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep ?	Y	N

by Courier? UPS DHL FedEx Lone Star
402 9555
Temperature Upon Receipt: 1.5 °C

Final 1.000

XENCO Laboratories	Document Title: Sample Receipt Checklist
Atlanta, Boca Raton, Corpus Christi, Dallas	Document No.. SYS-SRC
Houston, Miami, Odessa, Philadelphia	Revision/Date: No. 01, 5/27/2010
Phoenix, San Antonio, Tampa	Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Yates Petroleum

Date/Time: 8.31.11 10:00

Lab ID # : 426797/426798

Initials: GE

Sample Receipt Checklist

1. Samples on ice?	Blue	(Water)	No	
2. Shipping container in good condition?	(Yes)	No	None	
3. Custody seals intact on shipping container (cooler) and ~~bottles?~~	(Yes)	No	N/A	
4. Chain of Custody present?	(Yes)	No		
5. Sample instructions complete on chain of custody?	(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)?	(Yes)	No		
15. All samples received within sufficient hold time?	(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.		Cooler 5 No.	
lbs	1.5 °C	lbs	°C	lbs	°C	lbs	°C	lbs	°C

Nonconformance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that apply:
- ☐ Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.
- ☐ Initial and Backup Temperature confirm out of temperature conditions
- ☐ Client understands and would like to proceed with analysis

Analytical Report 426798

for

Yates Petroleum Corporation

Project Manager: Amanda Trujillo

Amenome Battery

08-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)

08-SEP-11

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

Reference: XENCO Report No: **426798**
Amenome Battery
Project Address:

Amanda Trujillo:

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 426798. 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. 426798 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

Sample Cross Reference 426798

Yates Petroleum Corporation, Artesia, NM

Amenome Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
West	S	08-30-11 09:30	3 - 3.5 ft	426798-001
Middle	S	08-30-11 09:30	2 - 2.5 ft	426798-002
East	S	08-30-11 09:30	4 - 4.5 ft	426798-003

CASE NARRATIVE

Client Name: Yates Petroleum Corporation
Project Name: Amenome Battery

Project ID:
Work Order Number: 426798

Report Date: 08-SEP-11
Date Received: 08/31/2011

Sample receipt non conformances and comments:
None

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 426798

Yates Petroleum Corporation, Artesia, NM

Project Name: Amenome Battery

Project Id:

Contact: Amanda Trujillo

Project Location:

Date Received in Lab: Wed Aug-31-11 10.00 am

Report Date: 08-SEP-11

Project Manager: Brent Barron II

Analysis Requested									
	Lab Id:	426798-001		426798-002		426798-003			
	Field Id:	West		Middle		East			
	Depth:	3-3.5 ft		2-2.5 ft		4-4 5 ft			
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	Aug-30-11 09.30		Aug-30-11 09.30		Aug-30-11 09.30			
Anions by E300	*Extracted:*								
	Analyzed:	Sep-01-11 08:19		Sep-01-11 08:19		Sep-01-11 08:19			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		382	9 02	167	8.55	47.4	4.28		
Percent Moisture	*Extracted:*								
	Analyzed:	Aug-31-11 15:55		Aug-31-11 15:55		Aug-31-11 15:55			
	Units/RL:	%	RL	%	RL	%	RL		
Percent Moisture		6 83	1 00	1.79	1.00	1.84	1 00		

Brent Barron II
Odessa Laboratory Manager

Final 1.000

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.

BS / BSD Recoveries

Project Name: Amenome Battery

Work Order #: 426798
Analyst: BRB
Lab Batch ID: 869030 **Sample:** 869030-1-BKS
Units: mg/kg

Date Prepared: 09/01/2011 **Batch #:** 1

Project ID:
Date Analyzed: 09/01/2011
Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Anions by E300 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<0.840	20 0	22.6	113	20.0	22.4	112	1	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: Amenome Battery

Work Order #: 426798
Lab Batch #: 869030
Project ID:
Date Analyzed: 09/01/2011
Date Prepared: 09/01/2011
Analyst: BRB
QC- Sample ID: 426798-001 S
Batch #: 1
Matrix: Soil
Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	382	215	647	123	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: Amenome Battery

Work Order #: 426798

Lab Batch #: 869030 **Project ID:**

Date Analyzed: 09/01/2011 08:19 **Date Prepared:** 09/01/2011 **Analyst:** BRB

QC- Sample ID: 426798-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Anions by E300 Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	382	387	1	20	

Lab Batch #: 868917

Date Analyzed: 08/31/2011 15:55 **Date Prepared:** 08/31/2011 **Analyst:** BRB

QC- Sample ID: 426801-003 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	<1.00	<1.00	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

XENCO

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: Amanda Trujillo
Company Name: Yates Petroleum Corporation
Company Address: 105 South 4th Street
City/State/Zip: Artesia, NM 88210
Telephone No: 575-748-4310
Fax No: 575-748-4585
Sampler Signature:
e-mail: atrujillo@yatespetroleum.com

Project Name: Amenome Battery
Project #:
Project Loc:
PO #: 12693
Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)
ORDER #: 426797 / 426798 CI

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For. TCLP. TOTAL: TPH 418.1 / 8015M	TPH TX 1005 / TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N O R M	Chlorides	TLCP		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
001	West	3'	3 5"	8/30/2011	9:30 AM			x								S	x								x			x				X
002	Middle	2'	2 5"	8/30/2011	9:30 AM			x								S	x								x			x				X
003	East	4'	4.5"	8/30/2011	9:30 AM			x								S	x								x			x				X

Special Instructions: Please put each well location in separate report

Relinquished by	Date	Time	Received by	Date	Time
[signature]	08/30/11	3 15 PM			
Relinquished by	Date	Time	Received by	Date	Time
Relinquished by: Fedex	Date	Time	Received by ELOT: Andrea Elam	Date: 8.31.11	Time: 10.00

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 4.0 2 9155 1.5 °C

Final 1.000

XENCO Laboratories	Document Title Sample Receipt Checklist
Atlanta, Boca Raton, Corpus Christi, Dallas	Document No . SYS-SRC
Houston, Miami, Odessa, Philadelphia	Revision/Date. No. 01, 5/27/2010
Phoenix, San Antonio, Tampa	Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client: Yates Petroleum

Date/Time: 8.31.11 10:00

Lab ID # : 426797/426798

Initials: GE

Sample Receipt Checklist

1. Samples on ice?	Blue	(Water)	No	
2. Shipping container in good condition?	(Yes)	No	None	
3. Custody seals intact on shipping container (cooler) and ~~bottles~~?	(Yes)	No	N/A	
4. Chain of Custody present?	(Yes)	No		
5. Sample instructions complete on chain of custody?	(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)?	(Yes)	No		
15. All samples received within sufficient hold time?	(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.		Cooler 5 No.	
lbs	1.5 °C	lbs	°C	lbs	°C	lbs	°C	lbs	°C

Nonconformance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that apply:
- ☐ Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.
- ☐ Initial and Backup Temperature confirm out of temperature conditions
- ☐ Client understands and would like to proceed with analysis