MARTIN YATES, III 1912-1985

FRANK W. YATES

S.P. YATES



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

JOHN A. YATES JR. PRESIDENT

SCOTT M. YATES

JAMES S. BROWN CHIEF OPERATING OFFICER

JOHN D. PERINI CHIEF FINANCIAL OFFICER

December 9, 2010

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

Re: Skuzie XL Com. #1 2RP-488 30-015-20922 Section 11, T18S-R25E Eddy County, New Mexico RECEIVED DEC 0 9 2010 NMOCD ARTESIA

Dear Mr. Bratcher,

Enclosed please find a Form C-141, Final Report for the above captioned site regarding the release on June 30, 2010 (56 B/O released with 0 B/O recovered). A C-141 Initial Report was submitted to your office on 7/7/2010. Initial samples were taken on 7/21/2010 and were above limits (TPH <5000 PPM & BTEX <50 PPM) for the site ranking of 0 (chlorides were analyzed and below 100 PPM, no further chloride samples were taken). Vertical and horizontal delineation samples to a depth of twenty (20) feet were taken on 9/14/2010 and sent to an OCD approved laboratory but were still above limits (TPH <5000 PPM & BTEX <50 PPM). On August 20, 2010 Yates contracted Safety and Environmental Solutions, Inc. to drill sample at the release site (samples were taken starting at a depth of 25' and continued to pull samples every five feet to a total depth of fifty (50) feet. These samples were sent to an NMOCD approved laboratory. Based on all sampling information the NMOCD required Yates to excavate the impacted soils to a depth of twenty (20) feet, these soils were taken to an OCD approved facility (total excavation area is approximately 12' wide X 15' long X 20' deep). Vertical and horizontal delineation samples were not required by the NMOCD per 12/2/2010 meeting. Impacted soils have been removed to a depth of 20' (12/7/2010). Enclosed are the analytical reports and sample diagram. There is currently an open excavation, it is fenced but still poses a threat to livestock, human health. Yates Petroleum Corporation requests closure based on the impacted soils excavated/removed. analytical results and current open excavation risks.

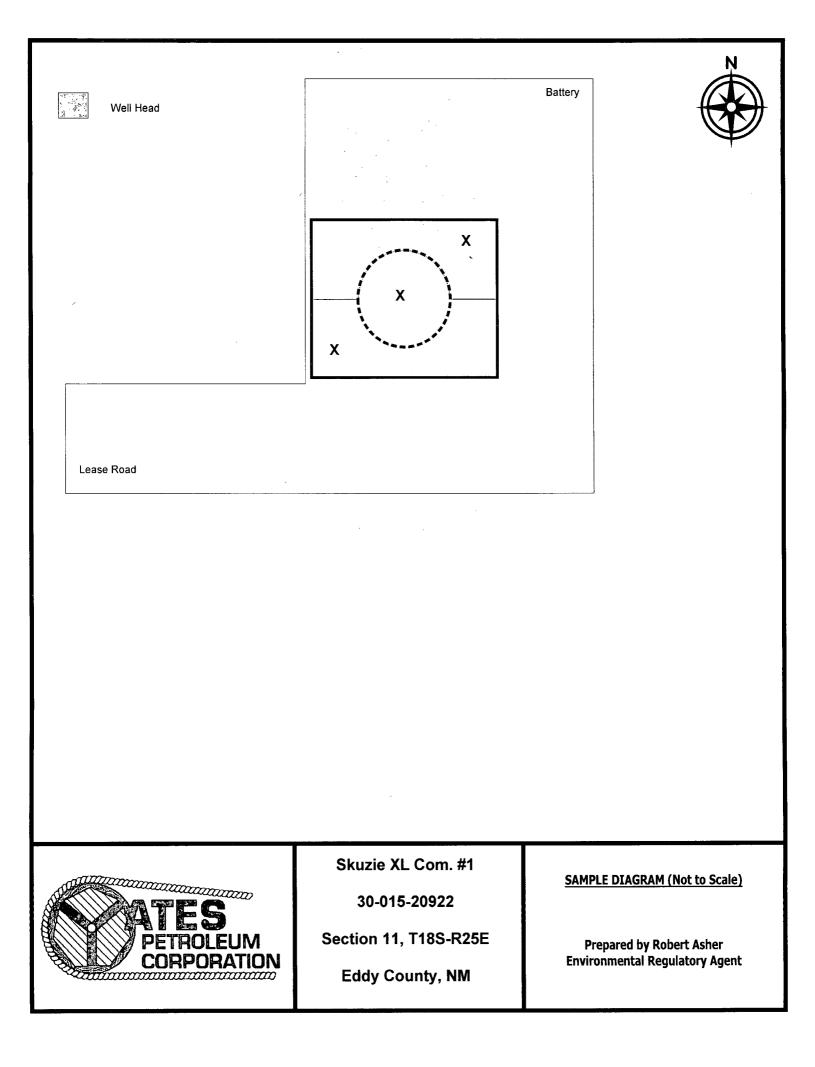
If you have any questions, please call me at 575-748-4217.

Thank you.

YATES PETROLEUM CORPORATION

Robert Asher Environmental Regulatory Agent

/rca Enclosure(s)



Skuzie XL Com. #1 12/9/2010

Section 11, T18S-R25E Eddy County, New Mexico

Sample ID	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Tank Bottom	7/21/2010	Composite/Backhoe	3'	112.04	943	1350	2293	39.4
Tank Bottom	7/21/2010	Composite/Backhoe	6'	367.2	5680	7980	13660	97.8
Tank Bottom	7/21/2010	Composite/Backhoe	9'	383.5	3400	4760	8160	77.4
North/East Side	7/21/2010	Composite/Backhoe	3'	50.28	456	1020	1476	46
North/East Side	7/21/2010	Composite/Backhoe	6'	0.0028	ND	ND	ND	ND
North/East Side	7/21/2010	Composite/Backhoe	9'	ND	ND	ND	ND	ND
West/South Side	7/21/2010	Composite/Backhoe	3'	ND	ND	ND	0	5.57
West/South Side	7/21/2010	Composite/Backhoe	6'	ND	ND	ND	0	ND
West/South Side	7/21/2010	Composite/Backhoe	9'	ND	ND	ND	ND	ND
Sample ID	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Tank Bottom	9/14/2010	Composite/Backhoe	10'	114.67	2120	1230	3350	
Tank Bottom	9/14/2010	Composite/Backhoe	12'	368.7	8950	4710	13660	
Tank Bottom	9/14/2010	Composite/Backhoe	14'	299.0	6910	3910	10820	
Tank Bottom	9/14/2010	Composite/Backhoe	16'	201.30	5650	3150	8800	
Tank Bottom	9/14/2010	Composite/Backhoe	18'	193.6	5170	3410	8580	
Tank Bottom	9/14/2010	Composite/Backhoe	20'	147.4	4150	2650	6800	
Sample ID	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Tank Bottom	10/20/2010	Drilled	25-26'	64.70	1010	471	1481	
Tank Bottom	10/20/2010	Drilled	30-31'	68.4	530	202	732	
Tank Bottom	10/20/2010	Drilled	34-35'	69.1	1350	516	1866	
Tank Bottom	10/20/2010	Drilled	39-40'	17.90	562	313	875	
Tank Bottom	10/20/2010	Drilled	44-45'	9.3	278	194	472	
Tank Bottom	10/20/2010	Drilled	48-50'	52.2	323	172	495	

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 168', per New Mexico State Engineer Office). All results are ppm.

CARDINAL

Credit in

October 28, 2010

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: YAT-10-002

Enclosed are the results of analyses for samples received by the laboratory on 10/21/10 16:30.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021Benzene, Toluene, Ethyl Benzene, and Total XylenesMethod SW-846 8260Benzene, Toluene, Ethyl Benzene, and Total XylenesMethod TX 1005Total 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.Keine

Celey D. Keene Lab Director/Quality Manager

Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received:	10/21/2010	Sampling Date:	10/20/2010
Reported:	10/28/2010	Sampling Type:	Soil
Project Name:	YAT-10-002	Sampling Condition:	Cool & Intact
Project Number:	SKUZIE XL COM #1	Sample Received By:	Jodi Henson
Project Location:	S. ARTESIA		

Sample ID: BH - 1, 25 - 26' (H021118-01)

BTEX 8260B	mg/l	kg (Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.287	1.00	10/27/2010	ND	1.00	100	1.00 Lan 1.00		J
Toluene*	7.41	1.00	10/27/2010	ND	0.970	97.0	1.00	· . ·	
Ethylbenzene*	6.88	1.00	10/27/2010	ND	1.04	104	C1575 1.00		1.10
m+p - Xylene	51.8	1 - 2.00	10/27/2010	0.030	2.07	103	(1949) 2.00		5(3
o-Xylene	12.9	1.00	10/27/2010	ND	1.02	102	o-≿्र⊂ 1.00		12.9
Total Xylenes*	64.7	1.00	10/27/2010	ND	3.09	103	Telos 3.00 da	r e ester	
Surrogate: Dibromofluoromethane	89.4 9	6 80-120	n An tha tha an an				Succession .	· .	er j
Surrogate: Toluene-d8	92.8 %						Survey .	•	
Surrogate: 4-Bromofluorobenzene	98.8 %	6 80-120	n ^e t				a na seconda de la compañía de la co		
TPH 8015M	mg/l	kg	Analyze	d By: AB			E the second		· .
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1010	10.0	10/22/2010	ND	211	105	200	6.63	
DRO >C10-C28	471	10.0	10/22/2010	ND	180	90.2	200	5.39	,
Surrogate: 1-Chlorooctane	119 %	6 70-130)						
Surrogate: 1-Chlorooctadecane	94.3 %	6 70-130)						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incidented by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based upon any of the baye stated reasons or otherwise. Results relate only to the samples individented above. This report shall not be reproduced except in full with written approval of Cardinal Laboratives.

Celegt ene

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 9

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

Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received:	10/21/2010	Sampling Date:	10/20/2010
Reported:	10/28/2010	Sampling Type:	Soil
Project Name:	YAT-10-002	Sampling Condition:	Cool & Intact
Project Number:	SKUZIE XL COM #1	Sample Received By:	Jodi Henson
Project Location:	S. ARTESIA		
Project Location:	S. ARTESIA		

Sample ID: BH - 1, 30 - 31' (H021118-02)

BTEX 8260B	mg/kg	Analyzed By: CMS			
Analyte	Result Reporting Limit	Analyzed Method Blank	BS % Recover	y True Value QC	RPD Qualifier
Benzene* and on the second	<1.00 1.00	10/27/2010 ND	1.00 100		
Toluene*	8.34 1.00	10/27/2010 ND	0.970 97.0	A.#P.1K 1.00	*e - e
Ethylbenzene*	7.04 1.00	10/27/2010 ND	1.04 104	Eths = 1.00	<i>.</i> ¢.:
m+p - Xylene 💈 🌫 👘	55.4 2.00	10/27/2010 June 10.030	2.07 103	antig - 2.00 (18)	15 A
o-Xylene a Parcialat	13.0 1.00	10/27/2010 ND	1.02 102	e-7.4e.1:00	
Total Xylenes*	68.4 1.00	10/27/2010 ND	3.09 103	Tetts 3.00	58.A
Surrogate: Dibromofluoromethane	91.1 % 80-1.	20	÷ .	Subtray a contract.	
Surrogate: Toluene-d8	94.6 % 80-1.	20	-	and the second second	. •
Surrogate: 4-Bromofluorobenzene	95.0 % 80-1.	20	· · · · · · · · · · · · · · · · · · ·	Survey - Constant	. 1
TPH 8015M	mg/kg	Analyzed By: AB			
Analyte	Result Reporting Limit	Analyzed Method Blank	BS % Recover	ry True Value QC	RPD Qualifier
GRO C6-C10	530 10.0	10/22/2010 ND	211 105	200	6.63
DRO >C10-C28	202 10.0	10/22/2010 ND	180 90.2	200	5.39
Surrogate: 1-Chlorooctane	105 % 70-1.	30		- <u></u>	
Surrogate: 1-Chlorooctadecane	91.4 % 70-1.	30			

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive All claims, including those for negligence and paid by client for analy any other cause whatsoever shall be deemed waived unless made in writing and recei by Card within thirty (30) days after compl of In no event shall Cardinal be liable al or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance Cardinal, regardless of whether such of the services claim is based upon any of the above stated in wise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeyt une

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 9

CARDINAL

Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received:	10/21/2010	Sampling Date:	10/20/2010
Reported:	10/28/2010	Sampling Type:	Soil
Project Name:	YAT-10-002	Sampling Condition:	Cool & Intact
Project Number:	SKUZIE XL COM #1	Sample Received By:	Jodi Henson
Project Location:	S. ARTESIA		

Sample ID: BH - 1, 34 - 35' (H021118-03)

BTEX 8260B	mg/kg	Analyzed By: CMS		· · · · · · · · · · · · · · · · · · ·	······
Analyte	Result Reporting Limit	Analyzed Method Blank	BS %F	ecovery True Value QC	RPD Qualifier
Benzene*	0.165 1.00	10/27/2010 ND	1.00	100	lease J acobia
Toluene*	9.78 1.00	10/27/2010 ND	0.970	97.0	an a
Ethylbenzene*	7.31 1.00	10/27/2010 ND	1.04	104 Extra 1.00	a di seconda
m+p - Xylene	56.1 2.00	- 2 10/27/2010 - 222/20.030 - 244	2.07	103 m#p - 2.00	:
; o-Xylene 🐨 🖓 🕬 🐨 👘	13.0	0.10/27/2010/22/335.ND	1.02	102 okkylei1:00 oper	tan an tan
• Total Xylenes*2, 2004 and 2004	69.1 1.00	1.310/27/20103/2017 ND: 1953	3 .09	103 Tets: X3.00	
Surrogate: Dibromofluoromethane	89.0 % 80-12	0		Salagaritente.	
Surrogate: Toluene-d8	94.5 % 80-12	0		-6652^{10} , 7252^{10}	
Surrogate: 4-Bromofluorobenzene	94.9 % 80-12	0	,	sin a saint a s	
TPH 8015M	mg/kg	Analyzed By: AB		ine di la	· .
Analyte	Result Reporting Limit	Analyzed Method Blank	BS %F	ecovery True Value QC	RPD Qualifier
GRO C6-C10	1350 10.0	10/22/2010 ND	211	105 200	6.63
DRO >C10-C28	516 10.0	10/22/2010 ND	180	90.2 200	5.39
Surrogate: 1-Chlorooctane	118 % 70-13	0			
Surrogate: 1-Chlorooctadecane	91.0 % 70-13	0			

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by clarinal wrbin thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of uses, or loss of profits incurred by clerinit as subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless or whether such claim is based unover stated reasons or otherwise. Results relate only to the samples claimfled above. This reproduced exception full with writting and produces is.

Celezy une

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 9

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

Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received:	10/21/2010	Sampling Date:	5 T Z	10/20/2010
Reported:	10/28/2010	Sampling Type:		Soil
Project Name:	YAT-10-002	Sampling Condition:		Cool & Intact
Project Number:	SKUZIE XL COM #1	Sample Received By:		Jodi Henson
Project Location:	S. ARTESIA		• •	1

Sample ID: BH - 1, 39 - 40' (H021118-04)

BTEX 8260B		mg/kg			Analyzed By: CMS					
Analyte		Result R	eporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	in an	<0.200.	0.200	10/27/2010	J.J. ND -	1.00	100	1.00		ر. بەرسەندۈرىدىغان
Toluene*		1.19	0.200	10/27/2010	ND ···	0.970	97.0	2004 to 1.00		
Ethylbenzene*		1.71	0.200	10/27/2010	ND	1.04	104	1.00 m	1	
m+p - Xylene	g. s. este	14.3	0.400	10/27/2010	0.030	2.07	103			i din Su Li i Pita
Co-Xylene and the set	eja, erratados .	∕ 3.54 , ta ⊂j	0.200	10/27/2010	n la de ND is in in	1.02	102	. o- <i>Refer</i> 1:00 .	1.15,270.	at and a
······································	en 27 el 289	17.9	0.200	: 10/27/2010	a tân nd t	3.09	103		a san an a	
Surrogate: Dibromofluor	omethane	87.7 %	80-120		4			Survey of the Second	· . •	
Surrogate: Toluene-d8	· · ·	97.3 %	80-120	· · ·	egyster i tyrige			No. of Sec.		
Surrogate: 4-Bromofluor	obenzene	90.6 %	80-120	· · ·	e a cat			Series	· .	
TPH 8015M		mg/kg		Analyze	d By: AB			Charles States		
Analyte		Result R	eporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1997 - 1997 -	562	10.0	10/22/2010	ND	211	105		6.63	2 - 2 - 1 - 1
DRO >C10-C28		313	10.0	10/22/2010	ND	180	90.2	200	5.39	
Surrogate: 1-Chloroocta	ne	104 %	70-130							
Surrogate: 1-Chloroocta	decane	88.1%	70-130							
									:	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arisong, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without lamitation, business interruptions, loss of use, or loss of profits incidentia by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based unover stated reasons or otherwise. Results relate only to the samples individented by the samples output shall not be performance in full with militen approval of Cardinal Laboratories.

Celey ene

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 9

Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received:	10/21/2010		•	Sampling Date:		10/20/2010
Reported:	10/28/2010	· ·		Sampling Type:		Soil
Project Name:	YAT-10-002			Sampling Condition:		Cool & Intact
Project Number:	SKUZIE XL COM #1			Sample Received By:	÷ ,	Jodi Henson
Project Location:	S. ARTESIA	°е ,				-
				•		·

Sample ID: BH - 1, 44 - 45' (H021118-05)

	BTEX 8260B		mg/kg	· .	Analyz	ed By: CMS		• • •		S	5-04
	Analyte		Result Re	porting Limit	Analyzed	Method Bla	nk BS	% Recovery	True Value QC	RPD .	Qualifier
	Benzene*		<0.100	0.100	10/27/2010	ND		100	1.00	a .	i i i i i i i i i i i i i i i i i i i
1997 - 1997 1997 -	Toluene*	s ty t	0.887	0.100	10/27/2010	ND	0.970	97.0	1.00 Sector 1.00	· ·	and a strategy of
4.2 A	Ethylbenzene*		0.903	0.100	10/27/2010	ND	1.04	104	insi: 1.00	· ·	
12.25	m+p - Xylene	.C.I	7.39 2. a	0.200	10/27/2010	0.030		. 103	weep 4.2.00 to		NY Est of
7,8136	o-Xylene		1.86	0.100	10/27/2010	ND	. 1.02	102	~%yi⇒1.00		1
- (01#1	Total Xylenes*	203 5	9.25	0.100	10/27/2010	ND .	<u>. 78</u> 3.09	103 (S	Total 3.00 c.s.*		101 122.14
· ·	Surrogate: Dibromofluorometho	ine	. 61.6%	80-120	• •				Sanogato di c	the second	er de la companya de
	Surrogate: Toluene-d8	ŝ	110 %	80-120	•				⁶ .4472.7	and the second	n Tari se
	Surrogate: 4-Bromofluorobenze	ne	101 %	80-120	:				the second second		• •
· · ·	TPH 8015M		mg/kg		Analyz	ed By: AB			also di s	·.	<u> </u>
	Analyte		Result Re	porting Limit	Analyzed	Method Bla	nk BS	% Recovery	True Value QC	RPD	Qualifier
	GRO C6-C10		278	10.0	10/22/2010	ND	211	105	200	6.63	
· ·	DRO >C10-C28		194	10.0	10/22/2010	ND	180	90.2	200	5.39	art An State

Surrogate: 1-Chlorooctane108 %70-130Surrogate: 1-Chlorooctadecane95.9 %70-130

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by clarinal within thirty (30) days after competion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims based on any of the above stated reasons or otherwise. Results relate only to the samples identified above. This reproduced exception in full with written approval of Cardinal taboraties,

Celegt une

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 9

Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received:	10/21/2010	Sampling Date:	10/20/2010
Reported:	10/28/2010	Sampling Type:	Soil
Project Name:	YAT-10-002	Sampling Condition:	Cool & Intact
Project Number:	SKUZIE XL COM #1	Sample Received By:	Jodi Henson
Project Location:	S. ARTESIA		
-			

Sample ID: BH - 1, 48 - 50' (H021118-06) BTEX 8260B mg/kg

 mg/kg
 Analyzed By: CMS

 Analyte
 Result
 Reporting Limit
 Analyzed
 Method Blank
 BS
 % Recovery

Benzene*	<1.00	1.00 / A su	10/27/2010	ND	· . 1.00 .	100	1:00		· · · ·	
Toluene*	5.41	1.00	10/27/2010	ND	0.970	97.0	76-c 1.00	• •	· · ·	¥,
Ethylbenzene*	5.17	1.00	10/27/2010	ND	1.04	104	1.00		. ;	4. ¹ 7
m+p - Xylene	41.4	2,00 a ADALD	10/27/2010	0.030	. 2 .07 .	103	0.00 - 2.00	·	94 - E - E	
o-Xylene E. State State 82	10.8 (1997).	1.0035	10/27/2010	ND	: (1 .02)	102	o-Wyled:001		5. 4. 92 a	
Total Xylenes* and that we descer the	52.2	1.00	10/27/2010	ND	©-22- 3.09 ∵		176693 3:00 787	hir di	. 92 July 3	872 × 3
Surrogate: Dibromofluoromethane	92.1 %	Saur 80-120		· · ·	• * *		Sumption Last	NA MARK		
Surrogate: Toluene-d8	93.1 %	80-120				· .	insuer op un dal.			
Surrogate: 4-Bromofluorobenzene	96.3 %	80-120					n Aggenting and a	-1. · ·		
ТРН 8015М	mg/kg	•	Analyze	ed By: AB			Alfred States of States			· ·
Analyte	Result Re	porting Limit	Analyzed	Method Bla	nk BS	% Recovery	True Value Q0	C RPD	Qualifier	
GRO C6-C10	323	10.0	10/22/2010	ND	211	105	200	6.63		
DRO >C10-C28	172	10.0	10/22/2010	ND	180	90.2	200	5.39	in the test	
Surrogate: 1-Chlorooctane	104 %	70-130								
Surrogate: 1-Chlorooctadecane	96.7 %	70-130								

Cardinal Laboratories

*=Accredited Analyte

RPD

True Value QC

Qualifier

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for All claims, including those for negligence and paid by client for analyses. any other cause whatsoever shall be deemed waived unless made in writing and received by Cardin within thirty (30) days of the including, wthout limitaban, business interruptions, loss of use, or loss of profits including withing the annual existing interruptions, loss of use, or loss of profits including the state resons or otherwise. Results relate only to the samulae instantiat share the same state of resons or otherwise. after completion applicable service. In no event shall Cardinal be liable incidental or consequential damages regardless of whether such ries, affiliates or successors arising out of or related to the performance of the services Cardinal, shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeyt une

Celey D. Keene, Lab Director/Quality Manager

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.
J .	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
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 SM4500CI-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

í.'

WELL SAL

Talah Likitika

S. 20 11

123.62 8

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive All claims, including those for negligence and analyses. any other cause whatsoever shall be deemed waived unless made in writing and received by Card within thirty (30) days In no event shall Cardinal be liable for tial damages, after completion applicable service. incidental or consequ by Cardinal, regardless of whether such including, without limitation, business interruptions, loss of use, or loss of profits incurred by out of or related to the performa che its affiliates or succe services hereunder claim is based upon any of the above stated re written approval of Cardinal Labo

Celingt rene

Celey D. Keene, Lab Director/Quality Manager

Page 8 of 9

- ARDINAL LABORATORIES, INC.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020)		· .		•		*	P	g*1	_of	
Company Name:	SAFETY & ENVIRONMENTAL						Ĺ				11	L TO				ANAL	YSIS	REQUE	ST		
Project Manager:							P	0.1	Ø:			<u>.</u>			;						
Address: 703	E.CLINTON, #102	•i		· · · ·			ġ	om	· · · · · · · · · · · · · · · · · · ·			АМ <u>Е</u>									
City: HOBBS	State: NH	Zlp:	18.	324	0.		A	tti:		Pie	$\langle \cdot \rangle$	11/2			20					1	
	5) 397-0510 Fax#: (505)			-43			4	ddr	033	s:											·
Project#: YE	T-10-802 Project Owner:	Z_{60}	7i>	(i)	27			ity:							- in						
Project Name: 🛇	Kugre XL Com #1							State	6 :		2	lp:				1	- F	·			
Project Location:	S. Antasia							lioi	ne i	Fi .					$ \mathcal{Q}_{ij} $	1 2					
Sampler Name:	& ROMCA					·	h	°ax	#:-		:				1-1-			0			
FORLABUSECHLY					M	TRIX			PR	ESER	<u>v.</u>	SAMPLI	NG	\mathbf{X}	17		120	100			.
		đ		e:		ł	, 1			5				254	1			11	1		
a a a a b x		(c)oMP	ER3	ATE	E I				14 142		1			1	11	C	12	2			
Lab I.D.	Sample I.D.	, OR	LAIN	MQ	YM.		ш.		ASE	COOL		36.70		1		NA NA	1.1	Second Second			
		(G)RAB	#CONTAINERS	GROUNDWATER	WASTEWATER sou	2	SLUDGE	OTHER	ACID/BASE	ICE / C	OTHER ;	· · .				18-14					
HZ1118-1	RH-1 25-361	2	*	Ö	3 0	10	15 V	0	¥.		<u> </u>	DATE 10/20	TIME	∇				+x			+
2	011 1 26-511		- <u>(</u>	·		<u>جرابہ</u> ز					-	1. Jek	1970	$\left \uparrow \right\rangle$	14	X	1 ,	X			
3	0 24 3-5 1						÷	:	÷	1	<u> </u>		12-3.5		\uparrow		$\overline{}$				
4	(B) + + + + AV												1315	1 X		X	X	会			
.5	11 A.A. A.S.		1										14.15	X	K.	X	X	$\left \times\right $			
6	12H-1, 48-500 -	12	1		Ś	<				X		12/30	1495	X	<u>k</u>	1.	<u> </u>				
	· · · · ·		Ì			-											1				
			<u> </u>]					_ <u> </u>					· .	ļ	
			[· .								<u> </u>	
BILLSE HOTEL LABORED	Damages. Cardinal is liability and client's exchance reimedy for any claim array		1		باختار		l.		1	أسل		and the state of the		1			l	be charged			
austyana: Al datas lectures t	a consistent consistent annotation particular a sensate to realize a sensitive to the sensed worked tarbase Toba for nagigeonia and say of air realize a kinetowije shall be themost worked tarbase fast bo table for inclusional or conversional ensates, botwelling without instruction, but	n nami di ka	Willing	andisco	el nyé by i	Centerals	# A1 30	daya	ullai (completic	nctt	e appăcubie		3	0 days pas	t due at the	rate of 245	per annum rationiey's	tions the or		
afficient of montessors arking	est of or related to the performance of services becausier by Cardinal repardence	Awheite	r wach e	late is b	seed up																ter: Linkasinaty 1
Sampler Rolliqui	shod:	ura Ura	celà	red By	y:							•	Phone Result Fax Result:				2 No 3 No				
1 Net-Br	Time Time												REMARKS:	2 T	OTE	ox a	200	R. P.	LA	hTR.	Carlo
Rollinguished By:	- 98% ZILIC	Re	celv	ed B	γ: (L	ab St	yff)						1100 116	1994	سې د دن	-	1			, • · ·	
	11mg: 30		O	المراجع	5	N.	Ľ	X.	1	St	(.										¢
Delivered By:	(Circle One)	 ()	~~		ample amp, "	Conc	ition Intae	49 S	CH	iecke	1	n TA		-		at pre					
Sampler - UPS -	Bus - Other:	00	Ċ.		<u>, am</u> e		Ye	\$		illáis)	l	大						·			

† Cardinal cannot accept verbal changes. Please fax written changes to (915) 673-7020.

Page 9 of 9

Analytical Report 389881

for

Yates Petroleum Corporation

Project Manager: Robert Asher

Skuzie XL Com. #1

30-015-20922

21-SEP-10



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 (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330) Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370) Xenco-Boca Raton (EPA Lab Code: FL01273): Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917) North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901):

Arizona(AZ0757), California(06244CA), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)

Page 1 of 15



21-SEP-10

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

Reference: XENCO Report No: 389881 Skuzie XL Com. #1 Project Address: Eddy County

Robert Asher:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 389881. 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 accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for ath, unless otherwise arranged least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged arranged with you. The samples received, and described as recorded in Report No. 389881 will be filed for a file of days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II Odessa Laboratory Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America



It is prohibited by which the formation and the

survey. This report without they for this and this

hord further notice, defens of the what dur, and only

TROOM VOLTAVSKI GETTE SERVICE OF

urfamilie autos ortikos se mitoro

Sample Cross Reference 389881



41.844 58

Yates Petroleum Corporation, Artesia, NM

Skuzie XL Com. #1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-10.0 T	C	See 14 10 00-15	1 1	-
•	S	Sep-14-10 09:15	10 - 10 ft	389881-001
Comp-12.0 T	S	Sep-14-10 09:20	12 - 12 ft	389881-002
Comp-14.0 T	. S	Sep-14-10 09:25	14 - 14 ft	389881-003
Comp-16.0 T	S	Sep-14-10 09:30	16 - 16 ft	389881-004
Comp-18.0 T	S	Sep-14-10 09:35	18 - 18 ft	389881-005
Comp-20.0 T	S	Sep-14-10 09:40	20 - 20 ft	389881-006

) < 0

10000

-100-A.

*serie

the public of short filler and show a set of the

when while a first if will be definitioned when if the factor is well

ALASSAC



Client Name: Yates Petroleum Corporation Project Name: Skuzie XL Com. #1



 Project ID:
 30-015-20922

 Work Order Number:
 389881

Report Date: 21-SEP-10 Date Received: 09/15/2010

Sample receipt non conformances and Comments: None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-823246 TPH by SW 8015B None

Batch: LBA-823266 Percent Moisture None

Batch: LBA-823918 BTEX by EPA 8021 SW8021BM

Batch 823918, Ethylbenzene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix CC 3, in Spike Duplicate. Spike Duplicate. Spike Duplicate Samples affected are: 389881-001, -002, -006, -005, -004, -003.

The Laboratory Control Sample for m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory or stary C. die Control Limits

SW8021BM

Batch 823918, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 389881-004,389881-002,389881-003.

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

Samples affected are: 389403-001 S,389403-001 SD,389881-002,389881-006,389881-003,389881-004,389881-005,389881-001.

SW8021BM

Batch 823918, o-Xylene RPD was outside QC limits. Samples affected are: 389881-001, -002, -006, -005, -004, -003

÷.	ביר	$\gamma\gamma$	77	\sim
	ĘΡ		, q	οД
	Au	œ۵4		
	1.7.1	7.1		1.18

Certificate of Analysis Summary 389881

Yates Petroleum Corporation, Artesia, NM

Project Name: Skuzie XL Com. #1

Project Id: 30-015-20922 Contact: Robert Asher Project Location: Eddy County

Date Received in Lab: Wed Sep-15-10 10:00 am Report Date: 21-SEP-10

	·				Project Manager:	Brent Barron, II	
	Lab Id:	389881-001	389881-002	389881-003	389881-004	389881-005	389881-006
Analysis Requested	Field Id:	Comp-10.0 T	Comp-12.0 T	Comp-14.0 T	Comp-16.0 T	Comp-18.0 T	Comp-20.0 T
Anuiysis Requesieu	Depth:	10-10 ft	12-12 ft	14-14 ft	16-16 ft	18-18 ft	20-20 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Sep-14-10 09:15	Sep-14-10 09:20	Sep-14-10 09:25	Sep-14-10 09:30	Sep-14-10 09:35	Sep-14-10 09:40
BTEX by EPA 8021	Extracted:	Sep-20-10 14:30	Sep-20-10 14:30	Sep-20-10 14:30	Sep-20-10 14:30	Sep-20-10 14:30	Sep-20-10 14:30
	Analyzed:	Sep-20-10 18:26	Sep-20-10 18:47	Sep-20-10 19:09	Sep-20-10 19:29	Sep-20-10 19:50	Sep-20-10 20:11
	Units/RL:	ing/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		ND 0.5828	ND 0.5959	ND 0.5794	ND 0.5675	ND 0.5787	ND 0.5663
Toluene		3.048 1.166	14.80 1.192	14.00 1.159	6.498 1.135	4.896 1.157	2.945 1.133
Ethylbenzene		5.221 0.5828	20.05 0.5959	12.67 0.5794	8.235 0.5675	8.877 0.5787	7.520 0.5663
m,p-Xylenes		87.62 1.166	269.1 1.192	220.9 1.159	152.6 1.135	146.3 1.157	111.3 1.133
o-Xylenc		18.78 0.5828	64.70 0.5959	51.47 0.5794	34.01 0.5675	33.49 0.5787	25.62 0.5663
Xylenes, Total		106.40 0.5828	333.8 - 0.5959	272.4 0.5794	186.6 0.5675	179.8 0.5787	136.9 0.5663
Total BTEX		114.67 0.5828	368.7 0.5959	299.0 0.5794	201.3 0.5675	193.6 0.5787	147.4 0.5663
Percent Moisture	Extracted:					:	
	Analyzed:	Sep-16-10 09:00	Sep-16-10 09:00	Sep-16-10 09:00	Sep-16-10 09:00	Sep-16-10 09:00	Sep-16-10 09:00
	Units/RL:	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		14.3 1.00	16.1 1.00	13.7 1.00	11.9 1.00	13.6 1.00	11.7 1.00
TPH by SW 8015B	Extracted:	Sep-15-10 13:45	Sep-15-10 13:45	Sep-15-10 13:45	Sep-15-10 13:45	Sep-15-10 13:45	Sep-15-10 13:45
	Analyzed:	Sep-15-10 17:39	Sep-16-10 10:48	Sep-16-10 11:19	Sep-15-10 19:11	Sep-15-10 19:43	Sep-15-10 20:13
	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		2120 17.4	8950 89.4	6910 86.6	5650 17.0	5170 17.3	4150 16.9
C10-C28 Diesel Range Hydrocarbons		1230 17.4	4710 89.4	3910 86.6	3150 17.0	3410 17.3	2650 16.9
Total TPH		3350 17.4	13660 89.4	10820 86.6	8800 17.0	8580 17.3	6800 16.9

and the set of Analysis Summary 30 Mars

STATE MARKING CAL

「いったする

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

Page 5 of 15 As Sec.



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit

PQL Practical Quantitation Limit

* Outside XENCO's scope of NELAC Accreditation.

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

والجار والمراجع والمراجع

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

4143 Greenbriar Dr, Stafford, Tx 77477 9701 Harry Hines Blvd , Dallas, TX 75220 5332 Blackberry Drive, San Antonio TX 78238 2505 North Falkenburg Rd, Tampa, FL 33619 5757 NW 158th St, Miami Lakes, FL 33014 12600 West I-20 East, Odessa, TX 79765 842 Cantwell Lane, Corpus Christi, TX 78408 Phone Fax (281) 240-4200 (281) 240-4280 (214) 902 0300 (214) 351-9139 (210) 509-3334 (210) 509-3335 (813) 620-2000 (813) 620-2033 (305) 823-8500 (305) 823-8555 (432) 563-1800 (432) 563-1713 (361) 884-0371 (361) 884-9116 11 A 11 M

	vironment co Laboratories Com Project Manager:		of Te	€X8	1 5					2 6		Vest	CHAI 1-20 kas 7	Eas	t	usi	rod						Ph Fi	one ax:	: 43 43	REQ(2-56; 2-56; 0m.	3-180 3-171)0			
	Company Name	Yates Petroleum	Corporatio	on														,	Pre	oleci	#: :	30-0	15-2	2092	22						
	Company Address:	<u></u>																· p		1		Eddy									
	City/State/Zip:	Artesia, NM 882								<u>.</u>											-	0563									
. *	Telephone No:	575-748-4217					Fax No		57 5	-748	466	2		· ·	12.		Re	port	For	mat		×] si	and	ard		٦·	TRRP	>		NPDE	s
	Sampler Signature:	Cash	\mathbf{V}	J			e-mail:	: 1	bo	ba(Øya	ates	pet	role	eum	.co	m		• .			:									
(lab use	oniv)		7				n in the second seco Second second second Second second		«	AN-1411								-		ν.		TCLF	-	naly	ze F	or:			┯╤╾	F,]
ORDEF	<u> </u>	31				•		n in National	. 1	Dr	2500	ation	& # of	Cont	alace		Mat	riv				TOTAL	.:					ŀ		12	
AB # (lab use only)		D CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled		otal #. of Containers		HNO3			3.			DW=Drinking Water BL=Sludge GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other		TPH: TX 1005 TX 1006	Cations (Ca, Mg. Na, K)	Anions (CI, SO4, Atkalinity) SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatijes	Semivolatiles	BTEX 80218/5030 or BTEX 8260	RCI N.O.R.M.	Chlorides		RUSH TAT (Pre-Schedule) 24. 4	F
1		p-10.0 T		10'	10'	9/14/2010	9:15 AM	- * . *		x	-	╋				Ť	<u>s</u>		x	-		1		f	Ű	x		۴	† - †		X
2	<u> </u>	p-12.0 T		12'	12'	9/14/2010	9:20 AM			x							S		x			T				x		1		1	x
3	Com	p-14.0 T		14'	14'	9/14/2010	9:25 AM		÷	x			,				S		X	·		-				X					X
4	Com	p-16.0 T		16'	16'	9/14/2010	9:30 AM			X	_	1				-	S		×							x		\bot	\square		X
S	1	p-18.0 T		18'	18'	9/14/2010	9:35 AM			X		╇	4		_	_	S		×	•	-		<u> </u>			X		╞	$\downarrow \downarrow$	╧╋╴	X
	Com	p-20.0 T		20'	20'	9/14/2010	9:40 AM			<u>×</u>							S		×					· ·		X	 		┝┤ ┝╴┤		×
<u> </u>		· · · · · · · · · · · · · · · · · · ·						┟╴┟╴			╉	╋	+		-	╉			-	+	┽	+-	┢			+	+	┢	┢╋		┿┩
Special I	Instructions:	·				ALL results i	n mg/kg. Th	ank y	 /ou	• • •		· :	:	- :		L _			_1	1	eni OCs	rator le Co Free	ritel of I	iers lead	inta Ispa	c1? ce?		ـــــــــــــــــــــــــــــــــــــ		N N	
Relinquist Robert As Relinquist Relinquist	sher Realy P	09	Date 9/14/10 Date Date	3:06 Tir	me SPM me	Received by: Received by: Received by ELC	DT:					· · ·				Date Date Date		T	ime ime		amp by	le Ha Sam Cour	als i nd [pler/ ier?	on co of of Oelive Clien	ontal ered t Rej UPS	ner(s) (s) p. ? D	же) НL			N N N Lone St	tar
	1Ex					Jean	ne Fite	<u> </u>		* . -		<u></u> ,	•		09	15-	10	10	50	T	emp	eratu	re U	oon	Rece	∌ípt: 			5./	°C	

1.1

• { .



XENCO Laboratories

Atlanta, Boca Raton, Corpus Christi, Dallas

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

Prelogin / Nonconformance Report - Sample Log-In

client: Yates Petroleu	~
Date/Time: 09-15-10 @ 10	0.0
Lab ID #: 38981	
Initials: JME /WRU	

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	the set of the	· * #
5. Sample instructions complete on chain of custody?	(Yes)	No		an an an Alasan
6. Any missing / extra samples?	Yes	(No)	n in gen	بسادات بتهمر
7. Chain of custody signed when relinquished / received?	Yes	No	i de comercia	1 34 3 34
8. Chain of custody agrees with sample label(s)?	Yes	No		ej est et strije tet et
9. Container labels legible and intact?	Yes	No	i la la	a Here (hay a to be
10. Sample matrix / properties agree with chain of custody?	Yes	No		规控用机合体
11. Samples in proper container / bottle?	Yes	No		and the first
12. Samples properly preserved?	Yes	No	N/A	en e
13. Sample container intact?	Yes	No		ntin omme Ris
14. Sufficient sample amount for indicated test(s)?	(Yes)	No		t njaga jere j
15. All samples received within sufficient hold time?	Yes	No	No. No. 6 an	n parti di nan
16. Subcontract of sample(s)?	Yes	E	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	
ibs 5.1 °C ibs °C ibs °C	lbs	°c	ibs	°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

Page 15 of 15

Analytical Report 382766

for

Yates Petroleum Corporation

Project Manager: Robert Asher

Skuzie XL Com. #1

30-015-26091

30-JUL-10





12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330) Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370) Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917) North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)



30-JUL-10

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

Reference: XENCO Report No: 382766 Skuzie XL Com. # 1 Project Address: Eddy County

Robert Asher:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 382766. 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. 382766 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II Odessa Laboratory Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America



ะสิทธิตรรฐสิทธรีการสุดกับสี (ก. 1). สิทธรีสุทธิตรรฐมี ระการโรงเหตุศักราช กระสุทธิศักราช 2016 (ก. 1) โปล้านี้ มีโอเมติการสาชการ Sample Cross Reference 382766



Yates Petroleum Corporation, Artesia, NM

Skuzie XL Com. # 1

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-03.0-T	S	Jul-21-10 10:00	2 - 2 ft	382766-001
Comp-06.0-T	S	Jul-21-10 10:05	4 - 4 ft	382766-002
Comp-09.0-T	S	Jul-21-10 10:10	2 - 2 ft	382766-003
Comp-03.0-N	S	Jul-21-10 10:20	4 - 4 ft	382766-004
Comp-06.0-N	S	Jul-21-10 10:25	6 - 6 ft	382766-005
Comp-09.0-N	S	Jul-21-10 10:30	8 - 8 ft	382766-006
Comp-03.0-W	S	Jul-21-10 10:40	4 - 4 ft	382766-007
Comp-06.0-W	S	Jul-21-10 10:45	6 - 6 ft	382766-008
Comp-09.0-W	S	Jul-21-10 10:50	8 - 8 ft	382766-009



Client Name: Yates Petroleum Corporation Project Name: Skuzie XL Com. # 1



 Project ID:
 30-015-26091

 Work Order Number:
 382766

Report Date: 30-JUL-10 Date Received: 07/23/2010

Sample receipt non conformances and Comments: None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-816016 Percent Moisture None

Batch: LBA-816026 Percent Moisture None

Batch: LBA-816151 Anions in Soil By EPA 300.0 E300MI Batch 816151, Chloride RPD is outside the QC limit. This is most likely due to sample nonhomogeneity.

Samples affected are: 382766-002, -007, -003, -005, -009, -004, -006, -008, -001.

E300MI

Batch 816151, Chloride recovered above QC limits in the Matrix Spike. Samples affected are: 382766-002, -007, -003, -005, -009, -004, -006, -008, -001.



Certificate of Analysis Summary 382766

Yates Petroleum Corporation, Artesia, NM



Project Id: 30-015-26091 Contact: Robert Asher Project Location: Eddy County Project Name: Skuzie XL Com. # 1

Date Received in Lab: Fri Jul-23-10 10:10 am

Report Date: 30-JUL-10

			,		- C			Project Ma	nager:	Brent Barron,	II		
	Lab Id:	382766-0	001	382766-0	02	382766-0	003	382766-0	04	382766-0	05	382766-0	006
Analysis Requested	Field Id:	Comp-03.	0-T	Comp-06.	0-Т	Comp-09.	0-T	· Comp-03.	0-N	Comp-06.	0-N	Comp-09.	0-Ŋ
Analysis Kequesleu	Depth:	2-2 ft		4-4 ft		2-2 ft	·	4-4 ft		6-6 ft		8-8 ft	
	Matrix:	SOIL	SOIL		SOIL			SOIL		SOIL		SOIL	
	Sampled:	Jul-21-10 1	0:00	Jul-21-10 1	0:05	Jul-21-10 1	0:10	Jul-21-10 1	0:20	Jul-21-10	0:25	Jul-21-10 1	10:30
Anions in Soil By EPA 300.0	Extracted:	· · ·			•								
	Analyzed:	Jul-26-10	14:00	Jul-26-10 1	4:00	Jul-26-10 1	4:00	Jul-26-10 1	4:00	Jul-26-10	4:00	Jul-26-10 1	14:00
	Units/RL:	mg/kg	RL	mġ/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		39.4	4.93	97.8	10.0	77.4	5.07	46.0	4.87	ND	5.02	ND	4.87
Percent Moisture	Extracted:	T.			2 * 4 7 * 4								
	Analyzed:	Jul-23-10	7:00	Jul-23-10 1	7:00	Jul-23-10 1	7:00	Jul-23-10 1	7:00	Jul-23-10	7:00	Jul-23-10 1	7:00
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		14.8	1.00	16.2	1.00	17.2	1.00	13.8	1.00	16.3	1.00	13.7	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 inakes 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

Page 5 of 12

的时代的基本



Certificate of Analysis Summary 382766

Yates Petroleum Corporation, Artesia, NM Project Name: Skuzie XL Com.# 1

医马克氏试验 计不可定



Project Id: 30-015-26091 Contact: Robert Asher Project Location: Eddy County

Date Received in Lab: Fri Jul-23-10 10:10 am

Report Date: 30-JUL-10

Project Manager: Brent Barron, II

	Lab Id:	382766-007	382766-008	382766-009			
Anglusia Descusated	Field Id:	Comp-03.0-W	Comp-06.0-W	Comp-09.0-W			
Analysis Requested	Depth:	4-4 ft	6-6 ft	8-8 ft	,		
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	Jul-21-10 10:40	Jul-21-10 10:45	Jul-21-10 10:50			
Anions in Soil By EPA 300.0	Extracted:					 	
	Analyzed:	Jul-26-10 14:00	Jul-26-10 14:00	Jul-26-10 14:00	· · ·		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		5.57 4.81	ND 4.90	ND 4.86			·
Percent Moisture	Extracted:		3				
	Analyzed:	Jul-23-10 17:00	Jul-23-10 17:00	Jul-23-10 17:00			
	Units/RL:	% RL	% RL	% RL			
Percent Moisture		12.7 1.00	14.3 1.00	13.5 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

Brent Barron, II

Odessa Laboratory Manager

Final 1.000

Page 6 of 12

t sap as



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- **E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit

PQL Practical Quantitation Limit

* Outside XENCO's scope of NELAC Accreditation.

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - San Antonio - Corpus Christi - Midland/Odessa - Tampa - Miami - Latin America								
	Phone	Fax						
4143 Greenbriar Dr. Stafford, Tx 77477	(281) 240-4200	(281) 240-4280						
9701 Harry Hines Blvd, Dallas, TX 75220	(214) 902 0300	(214) 351-9139						
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335						
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033						
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555						
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713						
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116						

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

l	Project Manager:	Robert Asher			· .	Cooler #				•				2		_ Р	rojec	t Na	me:	Ski	ızie	XL	Cc	<u>m.</u>	. #1	<u> </u>			<u> </u>
(Company Name	Yates Petroleum Corpora	ation					Sj						-			Pi	ojec	:t #:]	30-0	15-2	2609	1					-	
(Company Address:	105 South 4th Street						4		•							Proje	əct L	.oc:	Eddy	Cour	nty							
	City/State/Zip:	Artesia, NM 88210									÷					•	•		•	1056								•	
-	Telephone No:	575-748-4217	<u>~</u>	·····	· · ·	Fax No:	•	575	-745	8-46	62					Repo	urt Fo				itanda	and	ļ		TRE	20			
	Sampler Signature:		11		- - -	e-mail:		1				ates	petr	oleu	m c						ucių irait			_		V	L		020
				•		-					<u>e</u> ,											naly	ze Fr	or:		_	_		Π.
(lab use or	™) #: 33276<	5/382764				-**.										Lativ	F			TCL TOTA	.L:								72 hrs
			1		1		İ	i.	-	-rese	rvatic	<u>208</u> #	T	ontaine	HS T	Matrix	- 19 80 19 19 19	ç			tg Se			8260					1 ⁴
LAB # (lab use only)	FIEI	LD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	<u>83</u>	HNO,	HCI	H ₂ SO,	NaOH	Nore	Other (Specify)	DW=Drinking Water SL=Skidge GW = Groundwater S=Sok/Sahd	TPH: 418.1 8015M 8	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (CI, SO4, Alkalinity) SAB JESE / CEC	Metals: As Ag Ba Cd Cr Pb Hg	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides		RUSH TAT (Pre-Schedule) 24, 48, 72 hrs Standard TAT
01	Com	1 p-03.0-T	2'	2'	7/21/2010	10:00 AM		1	х		·					S	· X							X			x		X
01	Corr	ıр-06.0-Т	4'	4'	7/21/2010	10:05 AM		1	x		ĺ					s	X				\bot			x	\downarrow	:	×		X
53	Corr	1 p-09.0-T	2'	2'	7/21/2010	10:10 ÅM		1	X							s	X				<u> </u>		\square	X	\bot	Ľ	×		X
GY	Com	p-03.0-N	4'	4	7/21/2010	10:20 AM		1	X							s	X						_	x	$ \rightarrow $	Ľ	×		X
05	Соп	n p06.0-N	6 ¹	6'	7/21/2010	10:25 AM		1	X		$ \downarrow$	\square	_			S	X						\dashv	X	·	Ŀ	×		X
90	Com	ip-09.0-N	8'	8'	7/21/2010	10:30 AM	••	1	X		\downarrow					s	X					\square		x	$ \bot$	Ŀ	×		X
01	Com	p-03.0-W	4' .	4'	7/21/2010	10:40 AM		1	X		·					S	X				·			x	\bot	?	x		X
80	Com	p-06.0-W	6'	6'	7/21/2010	10:45 AM		1	X		_		<u> </u>			s	X						$ \bot$	x	\perp		×	·	X
ØW	Com	p-09.0-W	8	8'~	7/21/2010	10:50 AM	(6 ³ 14).	:1 2	X	i in the second	us xi v	(gire ig	5 g)	4 ³ .	ļ	S	X						Ì	x	\downarrow	12	×	\square	X
											_	_			ŀ				\bot		_		\square	\downarrow	\bot	\bot	\perp		
	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		ļ				_	_		\downarrow			<u>.</u>								ŀ	\downarrow	\downarrow	\bot	·	\perp		
		· · ·	<u> </u>					1 ⁻	_		_		4	_											╇			1.1	
		UT CHLORIDES		<u> </u>			·	•	\downarrow	_			_	- ·								\square	\downarrow	\downarrow		4	+	\downarrow	
		RATE REPORT							<u> </u>														<u> </u>						
Special Ins	structions:	TPH: 8015B, B1	EX: 8	0218	& Chiorides.	Please show	V A		esu	its a	is m	ng/kg	3. I	hani	(yo	U.		- L	Raim	Ne C	ry Co Sintair e of H	iela)		2		57	Ż		N
Relinquishe		Date		me	Received by:	2 J - 68 - 715	·	·					·	Τ	Da	te	Time			8 ON	conti eals c	United		2.05	્રિટ્ટ રો	ю. Элі	B B		N N
Robert Ashe Relinquishe		07/22/10 Date		2 AM me	Received by:						••••••			+	Da	te	Time		Sam Sam b	ole H y San	and D npier/(od oo Delive Client	olon red Rep). ?			Ø ₩Ø	4	
Relinquishe	oby: Feder	Date .	Ti	me		orato				- - 62	×		.* * .	7/	Da 2	310/	Time 6.1				irier? are Up		UPS Recei			2	, j		e Star °C



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

,	J N			
Client:	Jates	Petrole	um	
Date/Time:	٦	.73,10	10:10	
Lab ID #: 2	58276	5/382	766	
Initials:		IG /	AL	

Sample Receipt Checklist

1. Samples on ice?	Blue	Water	No	
2. Shipping container in good condition?	Yes	No	None	4
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?	Yee	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	2.55	ering Charles
9. Container labels legible and intact?	Tes	No	h in den	ni an tao n
t0. Sample matrix / properties agree with chain of custody?	Yes	No	1. 自己活动	an a
11. Samples in proper container / bottle?	Yes	No		
12. Samples properly preserved?	. (Y98)	No	N/A 355	e de la serie d
13. Sample container intact?	Yes	No		or started and
14. Sufficient sample amount for indicated test(s)?	Yes	No		per la companya de la
15. All samples received within sufficient hold time?	Yes	No		
16. Subcontract of sample(s)?	Yes	No	NA	
17. VOC sample have zero head space?	Yes	No	N/A	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 N	0.	Cooler 5 No	•
ibs 7 1 °C lbs °C lbs	°C lbs	•	lbs	°c

Nonconformance Documentation

Contacted by:	Date/Time:	
	n an	
		-
ken:	· · · · · · · · · · · · · · · · · · ·	
condition acceptable by NELAC 5.5.	.8.3.1.a.1.	
	ken: □Cooling process has begun shortly after a condition acceptable by NELAC 5.5.	ken:

Client understands and would like to proceed with analysis

Analytical Report 382765

for

Yates Petroleum Corporation

Project Manager: Robert Asher

Skuzie XL Com. # 1 30-015-26091

30-JUL-10





12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330) Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370) Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917) North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)



30-JUL-10

NA ACCORD

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

Reference: XENCO Report No: 382765 Skuzie XL Com. # 1 Project Address: Eddy County

Robert Asher:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 382765. 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. 382765 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II Odessa Laboratory Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America



Sample Cross Reference 382765



Yates Petroleum Corporation, Artesia, NM

Skuzie XL Com. # 1

Sample Id				Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-03.0-T	2			S	Jul-21-10 10:00	2 - 2 ft	382765-001
Comp-06.0-T				S	Jul-21-10 10:05	4 - 4 ft	382765-002
Comp-09.0-T				S	Jul-21-10 10:10	2 - 2 ft	382765-003
Comp-03.0-N		1 s	•	S	Jul-21-10 10:20	4 - 4 ft	382765-004
Comp-06.0-N		•	•	S	Jul-21-10 10:25	6 - 6 ft	382765-005
Comp-09.0-N				S	Jul-21-10 10:30	8 - 8 ft	382765-006
Comp-03.0-W				S	Jul-21-10 10:40	4 - 4 ft	382765-007
Comp-06.0-W	•			S	Jul-21-10 10:45	6 - 6 ft	382765-008
Comp-09.0-W	· · · · ·			S	Jul-21-10 10:50	8 - 8 ft	382765-009
	•						



Client Name: Yates Petroleum Corporation Project Name: Skuzie XL Com. # 1



 Project ID:
 30-015-26091

 Work Order Number:
 382765

Report Date: 30-JUL-10 Date Received: 07/23/2010

Sample receipt non conformances and Comments: None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-816016 Percent Moisture None

Batch: LBA-816026 Percent Moisture None

Batch: LBA-816045 TPH by SW 8015B None

Batch: LBA-816669 BTEX by EPA 8021 SW8021BM

Batch 816669, Benzene recovered below QC limits in the Matrix Spike. Ethylbenzene, Toluene, *m*,*p*-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 382765-009, -007, -008, -006. The Laboratory Control Sample for Toluene, m,p-Xylenes, Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits

Batch: LBA-816830 BTEX by EPA 8021 SW8021BM

Batch 816830, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis

Samples affected are: 382765-001,382765-002,382765-003,382765-004.

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

Samples affected are: 382765-001,382765-004,382765-003,382765-002.



CASE NARRATIVE

Client Name: Yates Petroleum Corporation Project Name: Skuzie XL Com. # 1



 Project ID:
 30-015-26091

 Work Order Number:
 382765

Report Date: 30-JUL-10 Date Received: 07/23/2010

Batch: LBA-816838 BTEX by EPA 8021 SW8021BM

Batch 816838, 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis Samples affected are: 383211-004 D.

SW8021BM

Batch 816838, Ethylbenzene, m,p-Xylenes , o-Xylene RPD is outside the QC limit. This is most likely due to sample non-homogeneity. Samples affected are: 382765-005.

	PT	77	\sim
P.C	(F)	19	⁰∦
Ina			
. Silanata	10.00		

Certificate of Analysis Summary 382765

Yates Petroleum Corporation, Artesia, NM

Project Name: Skuzie XL Com. #1



Project Id: 30-015-26091 Contact: Robert Asher Project Location: Eddy County

Date Received in Lab: Fri Jul-23-10 10:10 am Report Date: 30-JUL-10

roject Location: Eddy County	1		1.1.1					Test ber					
- • , • • • • • • • • • • • • • • • • • • •		•				1940 - 1940 - 1940 - 1940 - 1940 - 1940 - 1940 - 1940 - 1940 - 1940 - 1940 - 1940 - 1940 - 1940 - 1940 - 1940 -		Project Ma	nager:	Brent Barron	, II		
	Lab Id:	382765-00	01	382765-0	002	382765-0	003	382765-	004	382765-	005	382765-	006
Annahumin Domenantad	Field Id:	Comp-03.0	-T	Comp-06.	0-T	Comp-09.	0-T	Comp-03	.0-N	Comp-06	.0-N	Comp-09	.0-N
Analysis Requested	Depth:	2-2 ft		4-4 ft		2-2 ft	;	4-4 f	t	6-6 f	t.	8-8 f	t
	Matrix:	SOIL	•	SOIL		SOIL		SOII	-	SOIL	,	SOIL	· .
	Sampled:	Jul-21-10 10	0:00	Jul-21-10 1	0:05	Jul-21-10 1	0:10	Jul-21-10	10:20	Jul-21-10	10:25	Jul-21-10	10:30
BTEX by EPA 8021	Extracted:	Jul-28-10 14	4:55	Jul-28-10 1	4:55	Jul-28-10 1	4:55	Jul-28-10	14:55	Jul-29-10	15:00	Jul-24-10	15:45
	Analyzed:	Jul-29-10 12	2:20	Jul-29-10 1	3:04	Jul-29-10 1	3:27	Jul-29-10	13:49	Jul-29-10	18:45	Jul-28-10	10:29
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND 0).2347	ND	1.186	ND	1.196	ND	0.1149	ND	0.0012	ND	0.0012
Toluene		3.817 0).4695	17.21	2.372	20.38	2.392	1.723	0.2297	ND	0.0024	ND	0.0023
Ethylbenzene	1. · ·	8.146 0).2347	22.93	1.186	36.54	1.196	4.091	0.1149	ND	0.0012	ND	0.0012
m,p-Xylenes		73.33 0).4695	238.7	2.372	250.2	2.392	32.56	0.2297	0.0028	0.0024	ND	0.0023
o-Xylene		26.75 0).2347	88.35	1.186	76.34	1.196	11.91	0.1149	ND	0.0012	ND	0.0012
Xylenes, Total		100.08 0	0.2347	327.1	1.186	326.5	1.196	44.47	0.1149	0.0028	0.0012	ND	0.0012
Total BTEX		112.04 0).2347	367.2	1.186	383.5	1.196	50.28	0.1149	0.0028	0.0012	ND	0.0012
Percent Moisture	Extracted:					· · ·	, ć						
	Analyzed:	Jul-23-10 17	7:00	Jul-23-10 I	7:00	Jul-23-10 1	7:00	Jul-23-10	17:00	Jul-23-10	17:00	Jul-23-10	17:00
	Units/RL:	%	RL	%	RL	%	RL	. %	RL ·	%	RL	%	RL
Percent Moisture	8. C	14.8	1.00	16.2	1.00	17.2	1.00	13.8	1.00	16.3	1.00	13.7	1.00
TPH by SW 8015B	Extracted:	Jul-23-10 14	4:30	Jul-23-10 1	4:30	Jul-23-10 1	4:30	Jul-23-10	14:30	Jul-23-10	14:30	Jul-23-10	14:30
	Analyzed:	Jul-23-10 21	:46	Jul-23-10 2	2:15	Jul-23-10 2	2:44	Jul-23-10	23:13	Jul-24-10	00:10	Jul-24-10	00:38
· · · · · · · · · · · · · · · · · · ·	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RĻ	mg/kg	RL
C6-C10 Gasoline Range Hydrocarbons		943	17.5	5680	89.1	3400	18.1	456	17.4	ND	17.8	ND	17.3
C10-C28 Diesel Range Hydrocarbons		1350	17.5	7980	89.1	4760	18.1	1020	17.4	ND	17.8	ND	17.3
Total TPH		2293	17.5	13660	89.1	8160	18.1	1476	17.4	ND	17.8	ND	17.3

e and starty is Summary and the

the set of Sugart Myre, But she have

一口 法法律的法法法法

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

Page 6 of 2'

Certificate of Analysis Summary 382765

Yates Petroleum Corporation, Artesia, NM

Project Name: Skuzie XL Com. #1



Project Id: 30-015-26091 Contact: Robert Asher Project Location: Eddy County

Date Received in Lab: Fri Jul-23-10 10:10 am

 Report Date: 30-JUL-10

 Project Manager:
 Brent Barron, 11

 382765-008
 382765-009

 Comp-06.0-W
 Comp-09.0-W

 6-6 ft
 8-8 ft

1	1 1				l l		
Analysis Requested	Field Id:	Comp-03.0-W	Comp-06.0-W	Comp-09.0-W		· .	
Anuiysis Requesicu	Depth:	4-4 ft	6-6 ft	8-8 ft	· ·		
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	Jul-21-10 10:40	Jul-21-10 10:45	Jul-21-10 10:50			
BTEX by EPA 8021	Extracted:	Jul-24-10 15:45	Jul-24-10 15:45	Jul-24-10 15:45			
	Analyzed:	Jul-28-10 10:52	Jul-28-10 11:14	Jul-28-10 11:37			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		ND 0.0012	ND 0.0012	ND 0.0012			
Toluene		ND 0.0023	ND 0.0023	ND 0.0023			
Ethylbenzene		ND 0.0012	ND 0.0012	ND 0.0012			
m,p-Xylenes		ND 0.0023	ND 0.0023	ND 0.0023			
o-Xylene		ND 0.0012	ND 0.0012	ND 0.0012			
Xylenes, Total		ND 0.0012	ND 0.0012	ND 0.0012			
Total BTEX		ND 0.0012	ND 0.0012	ND 0.0012			
Percent Moisture	Extracted:		· · · ·				
	Analyzed:	Jul-23-10 17:00	Jul-23-10 17:00	Jul-23-10 17:00			
	Units/RL:	% RL	% RL	% RL			
Percent Moisture		12.7 1.00	14.3 1.00	13.5 1.00			
TPH by SW 8015B	Extracted:	Jul-23-10 14:30	Jul-23-10 14:30	Jul-23-10 14:30		· · · · ·	•
	Analyzed:	Jul-24-10 01:07	Jul-24-10 01:36	Jul-24-10 02:04	· · ·		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
C6-C10 Gasoline Range Hydrocarbons		ND 17.1	ND 17.5	ND 17.3			
C10-C28 Diesel Range Hydrocarbons		ND 17.1	ND 17.5	ND 17.3			
Total TPH		ND 17.1	ND 17.5	ND 17.3			

n an tha an an tha she in the state of the s

and the second of

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

Lab Id:

382765-007

Brent Barron, II

Odessa Laboratory Manager

Page 7 of 21



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the MQL and above the SQL.

U Analyte was not detected.

- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit

PQL Practical Quantitation Limit

* Outside XENCO's scope of NELAC Accreditation.

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies.

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

Houston - Dallas - San Antonio - Corpus Christi - Midland/Odess	sa - Tampa - Miami -	Latin America
	Phone	Fax
4143 Greenbriar Dr, Stafford, Tx 77477	(281) 240-4200	(281) 240-4280
9701 Harry Hines Blvd, Dallas, TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive, San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Falkenburg Rd, Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St, Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East, Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116

XENCO-Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST 12600 West I-20 East Phone: 432-563-1800 Odessa, Texas 79765 Fax: 432-563-1713 Project Name: Skuzie XL Com. #1 Project Manager: Cooler # Robert Asher Company Name Project #: 30-015-26091 Yates Petroleum Corporation Company Address: 105 South 4th Street Project Loc: Eddy County City/State/Zip: Artesia, NM 88210 PO#: 105632 Report Format: X Standard NPDES Telephone No: Fax No: 575-748-4662 575-748-4217 Sampler Signature: e-mail: boba@vatespetroleum.com **∧** Analyze For: (lab use only) TCLP: 48, 72 hrs TOTAL 20 ORDER #: Preservation & # of Containers Matrix ŝ BTEX 8021B/5030 or BTEX 8260 z Cd Cr Pb Hg **1**06 (a Ř T eginning Depth ź Alka RUSH TAT (Pre-Sct Sampled As Ag Ba (Sampled Ending Depth бÑ Vnions (Cl, SO4, 005 Ü Cations (Ca, ż Id Filter N.O.R.M. Chlorides Na,S,O3 Date līme Samivo **Stal #** OS H HOB Š <u>e</u> Ÿ Ħ 8 ß FIELD CODE Comp-03.0-T 2' 2' 7/21/2010 10:00 AM 1 s Х Х X Comp-06.0-T 4' 4' 7/21/2010 10:05 AM 1 S X X X ľX 2' 2' 1 X Х Х Comp-09.0-T 7/21/2010 10:10 AM S 4' 4' 1 X S х X X Comp-03.0-N 7/21/2010 10:20 AM х Х Comp06.0-N 6' 6' 7/21/2010 10:25 AM 1 X S X х 8' 8' 11 X Х Comp-09.0-N 7/21/2010 10:30 AM S 4' Х Comp-03.0-W 4' 7/21/2010 10:40 AM 1X S Х X 6' Х Comp-06.0-W 6' 7/21/2010 10:45 AM 1 X s х 8' -8' Comp-09.0-W 7/21/2010 10:50 AM 1 Х S X PLEASE PUT CHLORIDES **ON SEPARATE REPORT Special Instructions:** TPH: 8015B, BTEX: 8021B & Chlorides. Please show ALL results as mg/kg. Thank you. Laboratory Comments: Sample Containers Effect? (m)VOCs Free of Headspace? Ν abela on containerta) 10 Relinquished by: Date Time Received by: Date AL ST Time Custody seals on container(s) RENIGR N 07/22/10 11:22 AM Robert Asher Guidedy see on cooler(a) Relinquished by: Date Time Received by: Date Time Sample Hand Delivered Q ð by Sampler/Client Rep. ? FodEx by Courier? UPS DHL Lone Star

HOILD & ONOLO

Date

Time

Date

2310

Time

16:10

Femperature Upon Receipt:

Standard TA1

Х

Х

Х

Х

х

Х

Х

Х

х

2

°C

(Aluo

(ab

#8

0

N

33

<u>(5</u>4

05

OU

ഹ

90

DU

Relinquished by:

ear



XENCO Laboratories

Atianta, Boca Raton, Corpus Christi, Dallas

Houston, Miami, Odessa, Philadelphia

Phoenix, San Antonio, Tampa

Document Title	Sample Reco	ipt Checklist	
Document No.:	SYS-SRC		
Revision/Date:	No. 01, 5/27/2	010	
Effective Date:	6/1/2010	Page 1 of 1	

Prelogin / Nonconformance Report - Sample Log-In

Client:	Yates Petroleum	
Date/Time:	773/10 10:10	
Lab ID # : _	382745/382764	
Initials:	IG / AL	

Sample Receipt Checklist

1. Samples on ice?	Blue	Water	No 🗠	
2. Shipping container in good condition?	Yes	No	None	х.
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	N/A	
4. Chain of Custody present?	Yes	No	5 A. 	
5. Sample instructions complete on chain of custody?	Yee	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)?	(Y03,	No	and the set	
9. Container labels legible and intact?	Yes	No	n San San	รับเชีย นักสังประ
10. Sample matrix / properties agree with chain of custody?	Yes	No		States a second
11. Samples in proper container / bottle?	Yes	No		দুৰ্বাচ কৰি লাভ
12. Samples properly preserved?	Yes	No	N/A.	a fel marine
13. Sample container intact?	Yes	No	an a	
14. Sufficient sample amount for indicated test(s)?	Yes	No		n forma a definition R
15. All samples received within sufficient hold time?	Yes	No		an a
16. Subcontract of sample(s)?	Yes	No	NA	
17. VOC sample have zero head space?	Yes	No	N/A	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 N	0.	Cooler 5 No	
ibs 7 i °C ibs °C ibs °C	ibs	°0	ibs	0

Nonconformance Documentation

Contact:	Con	Contacted by:		Date/Time:		
Regarding:			•			
				· · · · · · · · · · · · · · · · · · ·	·. ·	
Corrective Action	I Taken:					
	······································	· · · · · · · · · · · · · · · · · · ·				

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