

MARTIN YATES, III

1912-1985

FRANK W. YATES

1936-1986

S.P. YATES

1914-2008



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

JOHN A. YATES
CHAIRMAN EMERITUS

JOHN A. YATES JR.
CHAIRMAN OF THE BOARD
PRESIDENT

JOHN D. PERINI
EXECUTIVE VICE PRESIDENT
CHIEF FINANCIAL OFFICER

JAMES S. BROWN
CHIEF OPERATING OFFICER

October 13, 2014

Mr. Mike Bratcher
NMOCD District II
811 South First Street
Artesia, NM 88210

RE: Mimosa Federal SWD #3Y
30-015-29123
Section 4, T20S-R24E
Eddy County, New Mexico

Mr. Bratcher,

Yates Petroleum Corporation would like to submit the following plan of work to you regarding the release that occurred at the above mentioned facility on July 30, 2014 (2RP-2435).

Initial TPH/BTEX and Chloride delineation samples were taken on 9/3/2014 for the release area. They were sent to a NMOCD approved facility and are attached for your review. Analytical reports showed that TPH in Section 2 were above NMOC Recommended Remediation Action Levels. Initial results also showed elevated chloride levels in Sections 1, 2, and 3. Further vertical delineation for TPH in Section 2 and chlorides in Sections 1, 2, and 3 was conducted on 10/2/2014 and results are attached for your review.

Based off of vertical delineation, Yates proposes to do the following remaining work.

1. Excavate the entire release area to a depth of 2'.
2. Backfill the release are with packed caliche.

Yates would like to start this work as soon as possible. Yates will submit a Final C-141 to your office once the excavation and backfill work has been completed. The site will then be turned back over to production so they can re-build their battery (lined and bermed) and get it back into service.

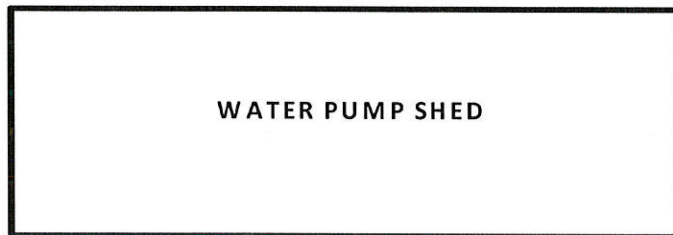
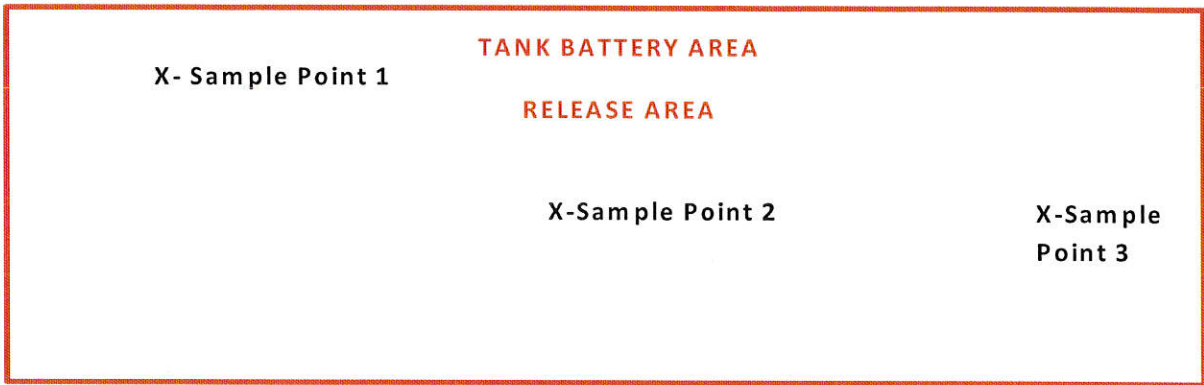
If you have any questions or concerns, I can be reached at (575) 748-4111 or by email at acannon@yatespetroleum.com.

Thank You,

Amber Cannon
Environmental Regulatory Agent
Yates Petroleum Corporation



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C
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Mimosa Federal SWD #3Y

30-015-29123

Section 4, T20S-R24E

Eddy County, NM

Prepared by Amber Cannon
Environmental Regulatory Agent

Drawing not to Scale

Mimosa Federal SWD #3Y

Cardinal Laboratories

	Analytical Report	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
1-Surface	H402749	Release Area	9/3/2014	Grab/Backhoe	Surface	4.94	38.7	336	374.7	13,200
1-1'	H402749	Release Area	9/3/2014	Grab/Backhoe	1'	ND	ND	42.7	42.7	3,040
1-2'	H402749	Release Area	9/3/2014	Grab/Backhoe	2'	0.546	17.1	116	133.1	6,560
1-5'	H403042	Release Area	10/2/2014	Grab/Trackhoe	5'					192
1-6'	H403042	Release Area	10/2/2014	Grab/Trackhoe	6'					176
2-Surface	H402749	Release Area	9/3/2014	Grab/Backhoe	Surface	26.4	248	3030	3278	4,960
2-1'	H402749	Release Area	9/3/2014	Grab/Backhoe	1'	28.1	253	988	1241	2,320
2-2'	H402749	Release Area	9/3/2014	Grab/Backhoe	2'	2.94	184	1070	1254	3,040
2-4'	H403042	Release Area	10/2/2014	Grab/Trackhoe	4'		19	242	261	80
2-6'	H403042	Release Area	10/2/2014	Grab/Trackhoe	6'		ND	ND	ND	80
2-8'	H403042	Release Area	10/2/2014	Grab/Trackhoe	8'		ND	17.6	17.6	96
3-Surface	H402749	Release Area	9/3/2014	Grab/Backhoe	Surface	1.46	85.1	2930	3015.1	6,800
3-1'	H402749	Release Area	9/3/2014	Grab/Backhoe	1'	0.584	ND	566	566	4,360
3-2'	H403042	Release Area	10/2/2014	Grab/Trackhoe	2'					2,120
3-4'	H403042	Release Area	10/2/2014	Grab/Trackhoe	4'					1,070
3-6'	H403042	Release Area	10/2/2014	Grab/Trackhoe	6'					160
3-8'	H403042	Release Area	10/2/2014	Grab/Trackhoe	8'					336

Site Ranking is TEN (10). Depth to Ground Water 310' per ChevronTexaco Trend Map; 200'-1,000' to Surface Water Body

All results are ppm.Chlorides for documentation.

Released: 8 B/PW; Recovered: 5 B/PW. Release Date: 7/30/2014. 2RP-2435

September 11, 2014

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: MIMOSA FEDERAL SWD #3Y

Enclosed are the results of analyses for samples received by the laboratory on 09/04/14 10:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 accredited 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

Analytical Results For:

YATES PETROLEUM CORPORATION
 AMBER CANNON
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

Received: 09/04/2014
 Reported: 09/11/2014
 Project Name: MIMOSA FEDERAL SWD #3Y
 Project Number: 30-015-29123
 Project Location: EDDY COUNTY, NM

Sampling Date: 09/03/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: 1-SURFACE (H402749-01)

Chloride, SM4500CI-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13200	16.0	09/10/2014	ND	400	100	400	7.69	

Sample ID: 1-1' (H402749-02)

Chloride, SM4500CI-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	09/10/2014	ND	400	100	400	7.69	

Sample ID: 1-2' (H402749-03)

Chloride, SM4500CI-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6560	16.0	09/10/2014	ND	400	100	400	7.69	

Sample ID: 2-SURFACE (H402749-04)

Chloride, SM4500CI-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	09/10/2014	ND	400	100	400	7.69	

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 105 S 4th Street
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 Fax To: (505) 748-4635

 Received: 09/04/2014
 Reported: 09/11/2014
 Project Name: MIMOSA FEDERAL SWD #3Y
 Project Number: 30-015-29123
 Project Location: EDDY COUNTY, NM

 Sampling Date: 09/03/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: 2-1' (H402749-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	09/10/2014	ND	400	100	400	7.69	

Sample ID: 2-2' (H402749-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	09/10/2014	ND	400	100	400	7.69	

Sample ID: 3-SURFACE (H402749-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6800	16.0	09/10/2014	ND	416	104	400	0.00		

Sample ID: 3-1' (H402749-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4360	16.0	09/10/2014	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
101 East Mainland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2478

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amber Cannon

Company Name: Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4111 or 575-613-8799

Fax No: 575-748-4131

Sampler Signature: Amber Cannon

e-mail: acannon@yatespetroleum.com

Project Name: Mimosas Federal SWD #3Y

Project #: 30-015-29123

Project Loc: Eddy County

PO #: 205-2020

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

ORDER #: H402749

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers	Matrix	TPH	TPH	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/8030 or BTEX 8260	RCl	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1 - Surface	1'	1'	9/3/2014	10:45	1	X	X	None	GW = Groundwater S = Soil/Solid	TPH: 418.1 8015M 8015	TPH TX 1005 TX 1006													
1 - 1'	1'	1'	9/3/2014	10:48 AM	1	X	X																	
1 - 2'	2'	2'	9/3/2014	10:55 AM	1	X	X																	
2 - Surface	1'	1'	9/3/2014	11:05 AM	1	X	X																	
2 - 1'	1'	1'	9/3/2014	11:07 AM	1	X	X																	
2 - 2'	2'	2'	9/3/2014	11:15 AM	1	X	X																	
3 - Surface	1'	1'	9/3/2014	11:19 AM	1	X	X																	
3 - 1'	1'	1'	9/3/2014	11:27 AM	1	X	X																	

Special Instructions: TPH: 8015B, BTEX: 8021B. Please show BTEX results as mg/kg. Please put chlorides on a separate report. Thank you.

Laboratory Comments: Sample Containers: Inactive?

VOCS Free of Headspace?

Labels on Containers?

Custody seals on container(s)?

Custody seals on cooler(s)?

Sample Hand-Delivered by Edmundo Renton Rep.?

by Courier? UPS DHL FedEx Loro Star

Temperature Upon Receipt: 3.4 °C

September 11, 2014

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

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Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

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Sincerely,



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Lab Director/Quality Manager

Analytical Results For:

 YATES PETROLEUM CORPORATION
 AMBER CANNON
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

 Received: 09/04/2014
 Reported: 09/11/2014
 Project Name: MIMOSA FEDERAL SWD #3Y
 Project Number: 30-015-29123
 Project Location: EDDY COUNTY, NM

 Sampling Date: 09/03/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: 1-SURFACE (H402749-01)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2014	ND	2.04	102	2.00	3.90	
Toluene*	0.383	0.050	09/10/2014	ND	1.83	91.4	2.00	3.90	
Ethylbenzene*	1.08	0.050	09/10/2014	ND	1.70	84.8	2.00	3.77	
Total Xylenes*	3.48	0.150	09/10/2014	ND	5.15	85.8	6.00	3.51	
Total BTX	4.94	0.300	09/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 166 % 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	38.7	10.0	09/06/2014	ND	180	90.1	200	0.353	
DRO >C10-C28	336	10.0	09/06/2014	ND	213	107	200	0.664	

Surrogate: 1-Chlorooctane 93.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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AMBER CANNON
105 S 4th Street
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Received: 09/04/2014
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Project Name: MIMOSA FEDERAL SWD #3Y
Project Number: 30-015-29123
Project Location: EDDY COUNTY, NM

Sampling Date: 09/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: 1-1' (H402749-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2014	ND	2.04	102	2.00	3.90	
Toluene*	<0.050	0.050	09/10/2014	ND	1.83	91.4	2.00	3.90	
Ethylbenzene*	<0.050	0.050	09/10/2014	ND	1.70	84.8	2.00	3.77	
Total Xylenes*	<0.150	0.150	09/10/2014	ND	5.15	85.8	6.00	3.51	
Total BTEX	<0.300	0.300	09/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 107 % 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	<10.0	10.0	09/06/2014	ND	180	90.1	200	0.353	
DRO >C10-C28	42.7	10.0	09/06/2014	ND	213	107	200	0.664	

Surrogate: 1-Chlorooctane 82.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.1 % 63.6-154

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*=Accredited Analyte

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105 S 4th Street
Artesia NM, 88210
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Received: 09/04/2014
Reported: 09/11/2014
Project Name: MIMOSA FEDERAL SWD #3Y
Project Number: 30-015-29123
Project Location: EDDY COUNTY, NM

Sampling Date: 09/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: 1-2' (H402749-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2014	ND	2.04	102	2.00	3.90	
Toluene*	<0.050	0.050	09/10/2014	ND	1.83	91.4	2.00	3.90	
Ethylbenzene*	0.116	0.050	09/10/2014	ND	1.70	84.8	2.00	3.77	
Total Xylenes*	0.429	0.150	09/10/2014	ND	5.15	85.8	6.00	3.51	
Total BTEX	0.546	0.300	09/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 120 % 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	17.1	10.0	09/06/2014	ND	180	90.1	200	0.353	
DRO >C10-C28	116	10.0	09/06/2014	ND	213	107	200	0.664	

Surrogate: 1-Chlorooctane 96.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2014	ND	2.04	102	2.00	3.90	
Toluene*	1.42	0.050	09/10/2014	ND	1.83	91.4	2.00	3.90	
Ethylbenzene*	2.61	0.050	09/10/2014	ND	1.70	84.8	2.00	3.77	
Total Xylenes*	22.4	0.150	09/10/2014	ND	5.15	85.8	6.00	3.51	
Total BTEX	26.4	0.300	09/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 261 % 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	248	10.0	09/08/2014	ND	180	90.1	200	0.353	
DRO >C10-C28	3030	10.0	09/08/2014	ND	213	107	200	0.664	


Surrogate: 1-Chlorooctane 115 % 65.2-140

Surrogate: 1-Chlorooctadecane 145 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

YATES PETROLEUM CORPORATION
AMBER CANNON
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 09/04/2014
Reported: 09/11/2014
Project Name: MIMOSA FEDERAL SWD #3Y
Project Number: 30-015-29123
Project Location: EDDY COUNTY, NM

Sampling Date: 09/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: 2-1' (H402749-05)

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	09/10/2014	ND	2.04	102	2.00	3.90	
Toluene*	2.61	0.200	09/10/2014	ND	1.83	91.4	2.00	3.90	
Ethylbenzene*	5.49	0.200	09/10/2014	ND	1.70	84.8	2.00	3.77	
Total Xylenes*	20.0	0.600	09/10/2014	ND	5.15	85.8	6.00	3.51	
Total BTX	28.1	1.20	09/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 155 % 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	253	50.0	09/06/2014	ND	180	90.1	200	0.353	
DRO >C10-C28	988	50.0	09/06/2014	ND	213	107	200	0.664	

Surrogate: 1-Chlorooctane 117 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

YATES PETROLEUM CORPORATION
AMBER CANNON
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 09/04/2014
Reported: 09/11/2014
Project Name: MIMOSA FEDERAL SWD #3Y
Project Number: 30-015-29123
Project Location: EDDY COUNTY, NM

Sampling Date: 09/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: 2-2' (H402749-06)

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	09/10/2014	ND	2.04	102	2.00	3.90	
Toluene*	<0.200	0.200	09/10/2014	ND	1.83	91.4	2.00	3.90	
Ethylbenzene*	0.544	0.200	09/10/2014	ND	1.70	84.8	2.00	3.77	
Total Xylenes*	2.39	0.600	09/10/2014	ND	5.15	85.8	6.00	3.51	
Total BTEX	2.94	1.20	09/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 120 % 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	184	50.0	09/06/2014	ND	180	90.1	200	0.353	
DRO >C10-C28	1070	50.0	09/06/2014	ND	213	107	200	0.664	

Surrogate: 1-Chlorooctane 113 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

YATES PETROLEUM CORPORATION
AMBER CANNON
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 09/04/2014
Reported: 09/11/2014
Project Name: MIMOSA FEDERAL SWD #3Y
Project Number: 30-015-29123
Project Location: EDDY COUNTY, NM

Sampling Date: 09/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: 3-SURFACE (H402749-07)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2014	ND	2.04	102	2.00	3.90	
Toluene*	<0.050	0.050	09/10/2014	ND	1.83	91.4	2.00	3.90	
Ethylbenzene*	0.132	0.050	09/10/2014	ND	1.70	84.8	2.00	3.77	
Total Xylenes*	1.33	0.150	09/10/2014	ND	5.15	85.8	6.00	3.51	
Total BTX	1.46	0.300	09/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 144 % 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	85.1	50.0	09/06/2014	ND	180	90.1	200	0.353	
DRO >C10-C28	2930	50.0	09/06/2014	ND	213	107	200	0.664	

Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 156 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

YATES PETROLEUM CORPORATION
AMBER CANNON
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 09/04/2014
Reported: 09/11/2014
Project Name: MIMOSA FEDERAL SWD #3Y
Project Number: 30-015-29123
Project Location: EDDY COUNTY, NM

Sampling Date: 09/03/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: 3-1' (H402749-08)

BTEX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/10/2014	ND	2.04	102	2.00	3.90	
Toluene*	<0.050	0.050	09/10/2014	ND	1.83	91.4	2.00	3.90	
Ethylbenzene*	0.050	0.050	09/10/2014	ND	1.70	84.8	2.00	3.77	
Total Xylenes*	0.535	0.150	09/10/2014	ND	5.15	85.8	6.00	3.51	
Total BTEX	0.584	0.300	09/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 127 % 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	<50.0	50.0	09/05/2014	ND	190	94.9	200	2.39	
DRO >C10-C28	566	50.0	09/05/2014	ND	192	95.9	200	5.98	

Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 63.6-154

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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

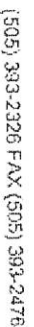
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Celey D. Keene, Lab Director/Quality Manager





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

October 09, 2014

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: MIMOSA FEDERAL SWD #3Y

Enclosed are the results of analyses for samples received by the laboratory on 10/03/14 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 accredited 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

Analytical Results For:

 YATES PETROLEUM CORPORATION
 AMBER CANNON
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

 Received: 10/03/2014
 Reported: 10/09/2014
 Project Name: MIMOSA FEDERAL SWD #3Y
 Project Number: 30-015-29123
 Project Location: EDDY COUNTY, NM

 Sampling Date: 10/02/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: 1-5' (H403042-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/08/2014	ND	416	104	400	0.00	

Sample ID: 1-6' (H403042-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/08/2014	ND	416	104	400	0.00	

Sample ID: 2-4' (H403042-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/08/2014	ND	416	104	400	0.00	

Sample ID: 2-6' (H403042-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/08/2014	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 YATES PETROLEUM CORPORATION
 AMBER CANNON
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

 Received: 10/03/2014
 Reported: 10/09/2014
 Project Name: MIMOSA FEDERAL SWD #3Y
 Project Number: 30-015-29123
 Project Location: EDDY COUNTY, NM

 Sampling Date: 10/02/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: 2-8' (H403042-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/08/2014	ND	400	100	400	0.00	

Sample ID: 3-2' (H403042-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	10/08/2014	ND	400	100	400	0.00	

Sample ID: 3-4' (H403042-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	10/08/2014	ND	400	100	400	0.00	

Sample ID: 3-6' (H403042-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/08/2014	ND	400	100	400	0.00	

Sample ID: 3-8' (H403042-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	10/08/2014	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

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

Cardinal Laboratories

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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: Amber Cannon

Company Name: Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4111 or 575-513-8799

Sampler Signature: Amber Cannon

e-mail: acannon@yatespetroleum.com

Fax No: 575-748-4131

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

PO #: 205-2020

Project Name: Mimosa Federal SWD #3Y
Project #: 30-015-29123

Project Loc: Eddy County

LAB # (lab use only)		FIELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers							Matrix	TPH: 418.1 8015M 8015	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , 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	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	1-5'			5'	5'	10/2/2014	12:17 PM		1	X																						
2	1-6'			6'	6'	10/2/2014	12:28 PM		1	X																						
3	2-4'			4'	4'	10/2/2014	10:50 AM		1	X																						
4	2-6'			6'	6'	10/2/2014	11:00 AM		1	X																						
5	2-8'			8'	8'	10/2/2014	11:15 AM		1	X																						
6	3-2'			2'	2'	10/2/2014	11:19 AM		1	X																						
7	3-4'			4'	4'	10/2/2014	11:30 AM		1	X																						
8	3-6'			6'	6'	10/2/2014	11:47 AM		1	X																						
9	3-8'			8'	8'	10/2/2014	12:01 PM		1	X																						

Special Instructions: TPH: 8015B. Please put chlorides on a separate report. Thank you.

Relinquished by: Amber Cannon Date: 10/3/14 Time: 3:30

Relinquished by: Amber Cannon Date: 10/3/14 Time: 3:30

Relinquished by: Amber Cannon Date: 10/3/14 Time: 3:30

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s)

Custody seals on container(s)

Sample Hand Delivered by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 1.8 °C



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

October 09, 2014

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: MIMOSA FEDERAL SWD #3Y

Enclosed are the results of analyses for samples received by the laboratory on 10/03/14 14:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 accredited 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

Analytical Results For:

YATES PETROLEUM CORPORATION
AMBER CANNON
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 10/03/2014
Reported: 10/09/2014
Project Name: MIMOSA FEDERAL SWD #3Y
Project Number: 30-015-29123
Project Location: EDDY COUNTY, NM

Sampling Date: 10/02/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: 2-4' (H403042-03)

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	19.0	10.0	10/07/2014	ND	176	88.2	200	4.12	
DRO >C10-C28	242	10.0	10/07/2014	ND	180	90.2	200	3.18	
Surrogate: 1-Chlorooctane	105 %	47.2-157							
Surrogate: 1-Chlorooctadecane	105 %	52.1-176							

Sample ID: 2-6' (H403042-04)

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/07/2014	ND	176	88.2	200	4.12	
DRO >C10-C28	<10.0	10.0	10/07/2014	ND	180	90.2	200	3.18	
Surrogate: 1-Chlorooctane	98.6 %	47.2-157							
Surrogate: 1-Chlorooctadecane	99.3 %	52.1-176							

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

YATES PETROLEUM CORPORATION
AMBER CANNON
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 10/03/2014
Reported: 10/09/2014
Project Name: MIMOSA FEDERAL SWD #3Y
Project Number: 30-015-29123
Project Location: EDDY COUNTY, NM

Sampling Date: 10/02/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: 2-8' (H403042-05)

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/07/2014	ND	176	88.2	200	4.12	
DRO >C10-C28	17.6	10.0	10/07/2014	ND	180	90.2	200	3.18	
Surrogate: 1-Chlorooctane	103 %	47.2-157							
Surrogate: 1-Chlorooctadecane	98.4 %	52.1-176							

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amber Cannon

Project Name: Milmosa Federal SWD #3Y

Company Name: Yates Petroleum Corporation

Project #: 30-015-29123

Company Address: 105 South 4th Street

Project Loc: Eddy County

City/State/Zip: Artesia, NM 88210

PO #: 205-2020

Telephone No: 575-748-4111 or 575-513-8799

Fax No: 575-748-4131

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: Amber Cannon

e-mail: acannon@yatespetroleum.com

(lab use only)

ORDER #: H403042

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , 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	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT	
1	1-5'	5'	5'	10/2/2014	12:17 PM		1	X									S														X	
2	1-6'	6'	6'	10/2/2014	12:28 PM		1	X									S														X	
3	2-4'	4'	4'	10/2/2014	10:50 AM		1	X									S														X	
4	2-6'	6'	6'	10/2/2014	11:00 AM		1	X									S														X	
5	2-8'	8'	8'	10/2/2014	11:15 AM		1	X									S														X	
6	3-2'	2'	2'	10/2/2014	11:19 AM		1	X									S														X	
7	3-4'	4'	4'	10/2/2014	11:30 AM		1	X									S														X	
8	3-6'	6'	6'	10/2/2014	11:47 AM		1	X									S														X	
9	3-8'	8'	8'	10/2/2014	12:01 PM		1	X									S														X	

Special Instructions:

TPH: 8015B.

Please put chlorides on a separate report. Thank you.

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by:

Date

Time

Relinquished by:

Date

Time

Received by ELOTT:

Date

Time

Temperature Upon Receipt:

1.8 °C

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Labels on container(s) Custody seals on container(s)

Custody seals on cooler(s)

Sample Hand Delivered by Sampler/Client Rep.?

by Courier? UPS DHL

FedEx Lone Star

#54