

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

JOHN A. YATES
CHAIRMAN OF THE BOARD

JOHN A. YATES JR.
PRESIDENT

JOHN D. PERINI
EXECUTIVE V.P. OF MONETIZATION
CHIEF FINANCIAL OFFICER

JAMES S. BROWN
CHIEF OPERATING OFFICER

March 30, 2015

Mr. Mike Bratcher/Mrs. Heather Patterson
NMOCD District II
811 S. First St.
Artesia, NM 88210

Re: State CO SWD System (Roden GD Federal Com #2)
30-015-25852
Section 25, T19S-R24E
Eddy County, New Mexico

Mr. Bratcher/Mrs. Patterson,

Yates Petroleum Corporation is submitting the enclosed work plan for the above captioned well. The plan is being submitted in response to the C-141 report dated February 19, 2015.

If there are no objections with the scope of work described in the plan, Yates will have a contractor begin work on or after April 13, 2015.

If you have any questions, feel free to call me at (575) 748-4171

Thank you.

YATES PETROLEUM CORPORATION

Chase Settle
Environmental Regulatory Agent

Enclosure(s)

KATHY H. PORTER
SECRETARY

DENNIS G. KINSEY
TREASURER

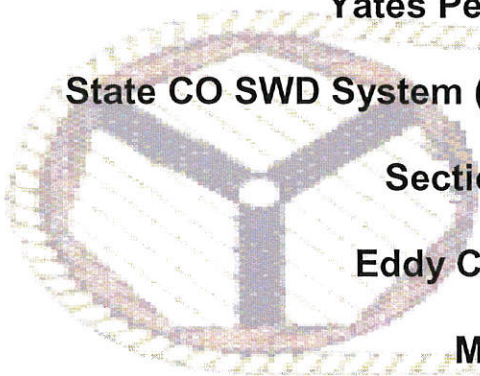
Yates Petroleum Corporation

State CO SWD System (Roden GD Fed. Com #2) Work Plan

Section 25, T19S-R24E

Eddy County, New Mexico

March 30, 2015



I. Location

The release is located 13 miles south of Aresia, NM on US highway 285, 8 miles west on Rocking R Red Road, 2 miles south on Crossbuck Road, then 2 miles west on the lease road.

II. Background

On February 19, 2015, Yates submitted to the NMOCD District II office a Form C-141 for the release of 4 B/O and 20 B/PW with 2 B/O and 12 B/PW recovered. The affected area was approximately 75 feet by 75 feet at the tin horns with the release running North on a 2-track dirt road 465 feet by 12 feet and running East of the tin horns on a 2-track dirt road for 1,950 feet by 3 feet. Initial delineation samples were taken at the T, R1, R2, R3, R4, and R5 release area (3/9/2015) and sent to a NMOCD approved laboratory (3/17/2015 and 3/18/2015, results enclosed).

III. Surface and Ground Water

Area surface geology is Paleozoic Permian. The ChevronTexaco Trend Map displays at this location (Section 25, T19S-R24E) that depth to groundwater is approximately 255 feet making the site ranking for this site a zero (0). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

The ranking for this site is zero (0) based on the as following:

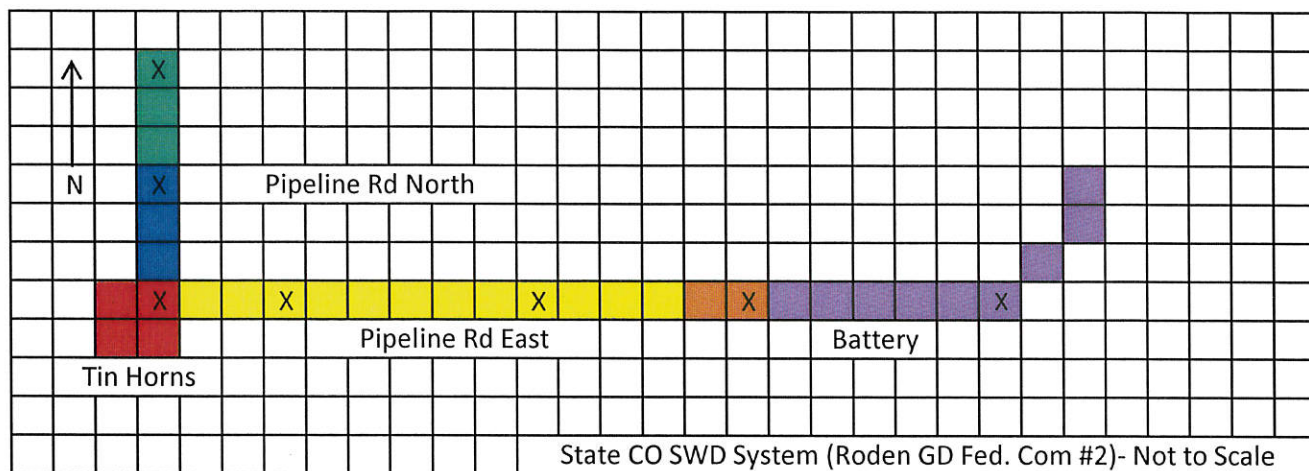
Depth to ground water	> 100'
Wellhead Protection Area	> 1000'
Distance to surface water body	> 1000'

IV. Soils

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

V. Scope of Work

Based on enclosed analytical results, the depth to groundwater (255'), and a decrease in chlorides, Yates Petroleum Corporation will excavate one (1) foot in the R3 and R4 release areas. The excavated area will be backfilled by back-dragging the topsoil that has been pushed up on the edge of the road by vehicle traffic into the excavation, allowing for repopulation of vegetation. The TPH & BTEX are within the RRAL's for BTEX (50 ppm) and TPH (5000 ppm) for the Total Ranking Score of zero (0) in the release area, no further analytical testing of TPH and/or BTEX will be conducted (all chloride analytical results are for documentation). When remediation work is completed a C-141, Final Report will be submitted to the NMOCD requesting closure of the site.



Release Area



T Sample point
R1 Sample point
R2 Sample point



R3 Sample point
R4 Sample point
R5 Sample point

H500692	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
T-1'	Release Area	3/9/2015	Hand Auger	1'	<0.3	<10.0	<10.0	144
T-2'	Release Area	3/9/2015	Hand Auger	2'	<0.3	<10.0	<10.0	64
R1-1'	Release Area	3/9/2015	Hand Auger	1'	<0.3	<10.0	<10.0	656
R1-2'	Release Area	3/9/2015	Hand Auger	2'	<0.3	<10.0	<10.0	80
R2-1'	Release Area	3/9/2015	Hand Auger	1'	<0.3	<10.0	<10.0	160
R2-2'	Release Area	3/9/2015	Hand Auger	2'	<0.3	<10.0	<10.0	80
R3-1'	Release Area	3/9/2015	Hand Auger	1'	<0.3	<10.0	<10.0	5440
R3-2'	Release Area	3/9/2015	Hand Auger	2'	<0.3	<10.0	<10.0	96
H500691	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
R4-1'	Release Area	3/9/2015	Hand Auger	1'	<0.3	<10.0	<10.0	2280
R4-2'	Release Area	3/9/2015	Hand Auger	2'	<0.3	<10.0	<10.0	416
R5-1'	Release Area	3/9/2015	Hand Auger	1'	<0.3	<10.0	<10.0	320
R5-2'	Release Area	3/9/2015	Hand Auger	2'	<0.3	<10.0	<10.0	352

Site Ranking is Zero (0). >100' (255', Section 25, T19S-R24E, Trend Map

All results are ppm. Chlorides for documentation

Released: 4 B/O & 20 B/PW; Recovered: 2 B/O & 12 B/PW Release Date: 02/16/2015

March 18, 2015

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: STATE CO SWD SYSTEM

Enclosed are the results of analyses for samples received by the laboratory on 03/13/15 11:25.

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
CHASE SETTLE
105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 03/13/2015
Reported: 03/18/2015
Project Name: STATE CO SWD SYSTEM
Project Number: 205-0750
Project Location: RODEN GD FED #2

Sampling Date: 03/09/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: R1 - 1' (H500692-01)

BTX 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	03/16/2015	ND	2.23	112	2.00	7.97	
Toluene*	<0.050	0.050	03/16/2015	ND	2.04	102	2.00	9.48	
Ethylbenzene*	<0.050	0.050	03/16/2015	ND	1.97	98.6	2.00	9.75	
Total Xylenes*	<0.150	0.150	03/16/2015	ND	5.85	97.4	6.00	8.65	
Total BTX	<0.300	0.300	03/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 106 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	03/16/2015	ND	400	100	400	3.92	

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	03/16/2015	ND	177	88.5	200	1.87		
DRO >C10-C28	<10.0	10.0	03/16/2015	ND	185	92.5	200	4.47		

Surrogate: 1-Chlorooctane 89.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 96.0 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 03/13/2015
 Reported: 03/18/2015
 Project Name: STATE CO SWD SYSTEM
 Project Number: 205-0750
 Project Location: RODEN GD FED #2

 Sampling Date: 03/09/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: R1 - 2' (H500692-02)

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	03/16/2015	ND	2.23	112	2.00	7.97		
Toluene*	<0.050	0.050	03/16/2015	ND	2.04	102	2.00	9.48		
Ethylbenzene*	<0.050	0.050	03/16/2015	ND	1.97	98.6	2.00	9.75		
Total Xylenes*	<0.150	0.150	03/16/2015	ND	5.85	97.4	6.00	8.65		
Total BTEX	<0.300	0.300	03/16/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 61-154

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	03/16/2015	ND	400	100	400	3.92	

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	03/16/2015	ND	177	88.5	200	1.87	
DRO >C10-C28	<10.0	10.0	03/16/2015	ND	185	92.5	200	4.47	

Surrogate: 1-Chlorooctane 86.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.6 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 03/13/2015
 Reported: 03/18/2015
 Project Name: STATE CO SWD SYSTEM
 Project Number: 205-0750
 Project Location: RODEN GD FED #2

 Sampling Date: 03/09/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: R2 - 1' (H500692-03)

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	03/16/2015	ND	2.23	112	2.00	7.97	
Toluene*	<0.050	0.050	03/16/2015	ND	2.04	102	2.00	9.48	
Ethylbenzene*	<0.050	0.050	03/16/2015	ND	1.97	98.6	2.00	9.75	
Total Xylenes*	<0.150	0.150	03/16/2015	ND	5.85	97.4	6.00	8.65	
Total BTEx	<0.300	0.300	03/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 61-154

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	03/16/2015	ND	400	100	400	3.92		

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	03/16/2015	ND	177	88.5	200	1.87	
DRO >C10-C28	<10.0	10.0	03/16/2015	ND	185	92.5	200	4.47	

Surrogate: 1-Chlorooctane 86.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 85.4 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 03/13/2015
 Reported: 03/18/2015
 Project Name: STATE CO SWD SYSTEM
 Project Number: 205-0750
 Project Location: RODEN GD FED #2

 Sampling Date: 03/09/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: R2 - 2' (H500692-04)

BTX 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	03/16/2015	ND	2.23	112	2.00	7.97	
Toluene*	<0.050	0.050	03/16/2015	ND	2.04	102	2.00	9.48	
Ethylbenzene*	<0.050	0.050	03/16/2015	ND	1.97	98.6	2.00	9.75	
Total Xylenes*	<0.150	0.150	03/16/2015	ND	5.85	97.4	6.00	8.65	
Total BTX	<0.300	0.300	03/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 61-154

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	03/16/2015	ND	400	100	400	3.92	

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	03/16/2015	ND	177	88.5	200	1.87	
DRO >C10-C28	<10.0	10.0	03/16/2015	ND	185	92.5	200	4.47	

Surrogate: 1-Chlorooctane 88.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.8 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 03/13/2015
Reported: 03/18/2015
Project Name: STATE CO SWD SYSTEM
Project Number: 205-0750
Project Location: RODEN GD FED #2

Sampling Date: 03/09/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: T - 1' (H500692-05)

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	03/16/2015	ND	2.23	112	2.00	7.97	
Toluene*	<0.050	0.050	03/16/2015	ND	2.04	102	2.00	9.48	
Ethylbenzene*	<0.050	0.050	03/16/2015	ND	1.97	98.6	2.00	9.75	
Total Xylenes*	<0.150	0.150	03/16/2015	ND	5.85	97.4	6.00	8.65	
Total BTEx	<0.300	0.300	03/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/16/2015	ND	400	100	400	3.92	

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	03/16/2015	ND	177	88.5	200	1.87		
DRO >C10-C28	<10.0	10.0	03/16/2015	ND	185	92.5	200	4.47		

Surrogate: 1-Chlorooctane 85.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 90.9 % 52.1-176

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 03/13/2015
 Reported: 03/18/2015
 Project Name: STATE CO SWD SYSTEM
 Project Number: 205-0750
 Project Location: RODEN GD FED #2

 Sampling Date: 03/09/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: T - 2' (H500692-06)

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	03/17/2015	ND	2.11	105	2.00	4.32	
Toluene*	<0.050	0.050	03/17/2015	ND	1.93	96.6	2.00	3.26	
Ethylbenzene*	<0.050	0.050	03/17/2015	ND	1.85	92.6	2.00	5.80	
Total Xylenes*	<0.150	0.150	03/17/2015	ND	5.51	91.9	6.00	7.24	
Total BTEX	<0.300	0.300	03/17/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/16/2015	ND	400	100	400	3.92	

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	03/16/2015	ND	177	88.5	200	1.87	
DRO >C10-C28	<10.0	10.0	03/16/2015	ND	185	92.5	200	4.47	

Surrogate: 1-Chlorooctane 82.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 87.8 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 03/13/2015
 Reported: 03/18/2015
 Project Name: STATE CO SWD SYSTEM
 Project Number: 205-0750
 Project Location: RODEN GD FED #2

 Sampling Date: 03/09/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: R3 - 1' (H500692-07)

BTEX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/17/2015	ND	2.11	105	2.00	4.32	
Toluene*	<0.050	0.050	03/17/2015	ND	1.93	96.6	2.00	3.26	
Ethylbenzene*	<0.050	0.050	03/17/2015	ND	1.85	92.6	2.00	5.80	
Total Xylenes*	<0.150	0.150	03/17/2015	ND	5.51	91.9	6.00	7.24	
Total BTEX	<0.300	0.300	03/17/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 61-154

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	03/16/2015	ND	400	100	400	3.92	

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	03/16/2015	ND	177	88.5	200	1.87	
DRO >C10-C28	<10.0	10.0	03/16/2015	ND	185	92.5	200	4.47	

Surrogate: 1-Chlorooctane 84.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.2 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 03/13/2015
 Reported: 03/18/2015
 Project Name: STATE CO SWD SYSTEM
 Project Number: 205-0750
 Project Location: RODEN GD FED #2

 Sampling Date: 03/09/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: R3 - 2' (H500692-08)

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	03/17/2015	ND	2.11	105	2.00	4.32	
Toluene*	<0.050	0.050	03/17/2015	ND	1.93	96.6	2.00	3.26	
Ethylbenzene*	<0.050	0.050	03/17/2015	ND	1.85	92.6	2.00	5.80	
Total Xylenes*	<0.150	0.150	03/17/2015	ND	5.51	91.9	6.00	7.24	
Total BTEX	<0.300	0.300	03/17/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 98.4 % 61-154

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	03/16/2015	ND	400	100	400	3.92		

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	03/16/2015	ND	177	88.5	200	1.87	
DRO >C10-C28	<10.0	10.0	03/16/2015	ND	185	92.5	200	4.47	

Surrogate: 1-Chlorooctane 82.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 89.1 % 52.1-176

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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



Page 11 of 11

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March 17, 2015

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: STATE CO SWD SYSTEM

Enclosed are the results of analyses for samples received by the laboratory on 03/13/15 11:25.

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
 CHASE SETTLE
 105 S 4th Street
 Artesia NM, 88210
 Fax To: (505) 748-4635

 Received: 03/13/2015
 Reported: 03/17/2015
 Project Name: STATE CO SWD SYSTEM
 Project Number: 205-0750
 Project Location: RODEN GD FED #2

 Sampling Date: 03/09/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: R4- 1' (H500691-01)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/16/2015	ND	2.23	112	2.00	7.97	
Toluene*	<0.050	0.050	03/16/2015	ND	2.04	102	2.00	9.48	
Ethylbenzene*	<0.050	0.050	03/16/2015	ND	1.97	98.6	2.00	9.75	
Total Xylenes*	<0.150	0.150	03/16/2015	ND	5.85	97.4	6.00	8.65	
Total BTEx	<0.300	0.300	03/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	03/16/2015	ND	400	100	400	3.92	

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	03/14/2015	ND	181	90.5	200	3.49	
DRO >C10-C28	<10.0	10.0	03/14/2015	ND	189	94.6	200	3.39	

Surrogate: 1-Chlorooctane 86.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 97.1 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 03/13/2015
 Reported: 03/17/2015
 Project Name: STATE CO SWD SYSTEM
 Project Number: 205-0750
 Project Location: RODEN GD FED #2

 Sampling Date: 03/09/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: R4- 2' (H500691-02)

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	03/16/2015	ND	2.23	112	2.00	7.97	
Toluene*	<0.050	0.050	03/16/2015	ND	2.04	102	2.00	9.48	
Ethylbenzene*	<0.050	0.050	03/16/2015	ND	1.97	98.6	2.00	9.75	
Total Xylenes*	<0.150	0.150	03/16/2015	ND	5.85	97.4	6.00	8.65	
Total BTEX	<0.300	0.300	03/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 106 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	03/16/2015	ND	400	100	400	3.92	

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	03/14/2015	ND	181	90.5	200	3.49		
DRO >C10-C28	<10.0	10.0	03/14/2015	ND	189	94.6	200	3.39		

Surrogate: 1-Chlorooctane 90.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 96.8 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 03/13/2015
Reported: 03/17/2015
Project Name: STATE CO SWD SYSTEM
Project Number: 205-0750
Project Location: RODEN GD FED #2

Sampling Date: 03/09/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: R5- 1' (H500691-03)

BTX 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	03/16/2015	ND	2.23	112	2.00	7.97	
Toluene*	<0.050	0.050	03/16/2015	ND	2.04	102	2.00	9.48	
Ethylbenzene*	<0.050	0.050	03/16/2015	ND	1.97	98.6	2.00	9.75	
Total Xylenes*	<0.150	0.150	03/16/2015	ND	5.85	97.4	6.00	8.65	
Total BTX	<0.300	0.300	03/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	03/16/2015	ND	400	100	400	3.92		

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	03/14/2015	ND	181	90.5	200	3.49	
DRO >C10-C28	<10.0	10.0	03/14/2015	ND	189	94.6	200	3.39	

Surrogate: 1-Chlorooctane 82.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 86.0 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 03/13/2015
 Reported: 03/17/2015
 Project Name: STATE CO SWD SYSTEM
 Project Number: 205-0750
 Project Location: RODEN GD FED #2

 Sampling Date: 03/09/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: R5- 2' (H500691-04)

BTX 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	03/16/2015	ND	2.23	112	2.00	7.97	
Toluene*	<0.050	0.050	03/16/2015	ND	2.04	102	2.00	9.48	
Ethylbenzene*	<0.050	0.050	03/16/2015	ND	1.97	98.6	2.00	9.75	
Total Xylenes*	<0.150	0.150	03/16/2015	ND	5.85	97.4	6.00	8.65	
Total BTX	<0.300	0.300	03/16/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	03/16/2015	ND	400	100	400	3.92	

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	03/16/2015	ND	177	88.5	200	1.87	
DRO >C10-C28	<10.0	10.0	03/16/2015	ND	185	92.5	200	4.47	

Surrogate: 1-Chlorooctane 86.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 96.5 % 52.1-176

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* = Accredited Analyte

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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: Chase Settle

Company: (505) 393-2326 Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4171

Sampler Signature: *[Signature]*

Fax No: 575-748-4131

e-mail: csettle@yatespetroleum.com

Project Name: State CO SWD System (Roden GD F

Project #:

Project Loc: State CO SWD System (Roden GD Fed. #2

PO #: 205-0750

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only)

ORDER #: 4500691

LAB # (lab use only)

FIELD CODE

R4-1'

R4-2'

R5-1'

R5-2'

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO₃

HCl

H₂SO₄

NaOH

Na₂S₂O₃

None

Other (Specify)

DW=Drinking Water SL=Sludge

GW = Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH: 418.1 8015M 8015B

TPH: TX 1005 TX 1006

Cations (Ca, Mg, Na, K)

Anions (Cl, SO₄, Alkalinity)

SAR / ESP / CEC

Metals: As Ag Ba Cd Cr Pb Hg Se

Volatiles

Semivolatiles

BTEX 8021B/5030 or BTEX 8260

RCI

N.O.R.M.

Chlorides

SAR

RUSH TAT (Pre-Schedule) 24, 48, 72 hrs

Standard TAT

Preservation & # of Containers

Matrix

Analyze For

TCLP

TOTAL

Special Instructions:

Relinquished by:

Date

Time

Received by:

Date

Time

Received by:

Date

Time

Received by:

Date

Time

Received by:

Date

Time

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

Temperature Upon Receipt: 30°C