

MARTIN YATES, III
1912-1985

FRANK W. YATES
1936-1986

S.P. YATES
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August 17, 2015

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

Re: Dayton Water Line (Gushwa DX #1)
30-015-21703
Section 21, T18S-R26E
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 18, 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 September 1, 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

Dayton Water Line (Gushwa DX #1) Work Plan

Section 21, T18S-R26E

Eddy County, New Mexico

August 17, 2015

2RP-2824

I. Location

The release is located approximately 8 miles south of Artesia, 0.5 mile east on Dayton Road, and 0.7 mile north.

II. Background

On February 18, 2015, Yates Petroleum Corporation submitted to the NMOCD District II office a Form C-141 for the release of 5400 B/PW with 5160 B/PW recovered. The total affected area is approximately 1000 feet by 230 feet on the west side of the railroad tracks running northeast from the south, 705 feet by 90 feet on the east side of the railroad tracks running to the north with 2 fingers splitting off to the east, one approximately 395 feet by 50 feet and the other 595 feet by 75 feet. The release was from failure of a six (6) inch produced water flow line. Initial delineation samples were taken (3/10/2015 and 3/11/2015) and sent to a NMOCD approved laboratory (3/18/2015 and 3/19/2015, results enclosed). Further sampling was conducting (4/2/2015) and sent to a NMOCD approved laboratory (4/14/2015, results enclosed). Sampling again occurred in the S1 area for further delineation of chlorides (4/22/2015) and sent to a NMOCD approved laboratory (4/28/2015, results enclosed). Full delineation of the S1 release area was impracticable due to the extremely hard soil encountered at 15.5' below surface level and the maximum depth the backhoe could sample without increasing the chances for cross contamination. A line graph is enclosed displaying a trend line that was created using the analytical data of attained soil samples that portrays the estimated depth where chlorides will drop below 250 ppm.

III. Surface and Ground Water

Area surface geology ranges from Cenozoic Quaternary to Paleozoic Permian. The ChevronTexaco Trend Map displays at this location (Section 21, T18S-R26E) that depth to groundwater is approximately 75' feet making the site ranking for this site a ten (10). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

The ranking for this site is ten (10) based on the as following:

Depth to ground water	50' - 99'
Wellhead Protection Area	> 1000'
Distance to surface water body	> 1000'

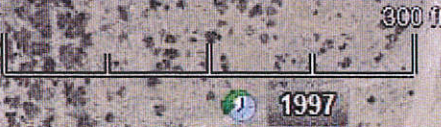
IV. Soils

The area consists of soils that are loamy top soil with clay then caliche found beneath, 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 (75'), and a decrease in chlorides, Yates Petroleum Corporation will excavate five (5) feet of impacted soil within the S2 release area and two (2) feet in the S3 and S4 release areas, hauling the excavated soils to a NMOCD approved facility. Yates Petroleum Corporation will then backfill the excavated areas with similar soils. Yates Petroleum Corporation will also excavate four (4) feet in the S1 release area, hauling the excavated soils to a NMOCD approved facility. Yates Petroleum Corporation will then install a 20 ml liner over the release area and backfill with two (2) feet of caliche and two (2) feet of like, similar topsoil allowing for vegetative repopulation of the disturbed area and protection from groundwater contamination. No work will be performed in the Right of Way of the railroad per their request with concerns for railway safety in mind. The TPH & BTEX are within the RRAL's for BTEX (50 ppm) and TPH (1000 ppm) for the Total Ranking Score of ten (10), 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.

2/5/2015 4:30:20 pm
4:30 pm 5:11 pm



© 2015 Google

Imagery Date: 5/1/2014 lat 32.734208° lon -104.385016° ele

3/15/2015

GUSHWA S4-3

GUSHWA S4-2

GUSHWA RR8

GUSHWA S4-1

GUSHWA RR1

GUSHWA S3-3

GUSHWA S3-2

GUSHWA RR7

GUSHWA RR2

GUSHWA RR6

GUSHWA S3-1

GUSHWA RR3

GUSHWA RR5

GUSHWA S2-2

GUSHWA RR4

GUSHWA S2-1

GUSHWA S1-2

GUSHWA S1-1

367 ft

1997

Image Date: 5/1/2014 32°44'03.16" N 104°23'04.87" W elev 3366

Dayton Water Line (Gushwa DX #1)

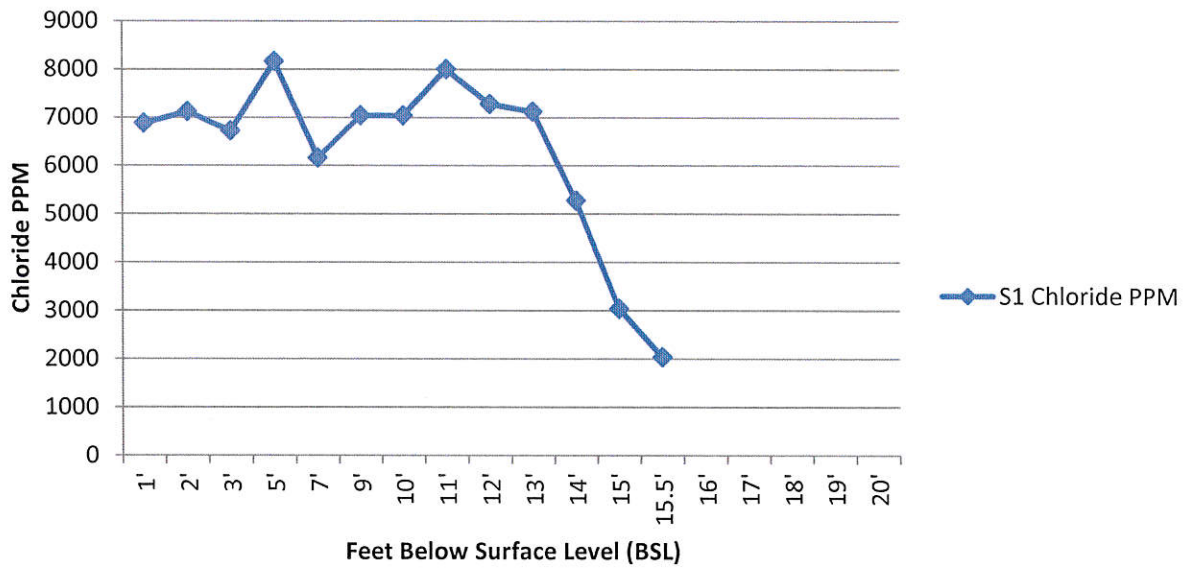
Area	Analysis #	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
RR1-1'	H500695	Release Area	3/10/2015	Hand Auger	1'	<0.3	<10.0	<10.0	5440
RR1-2'	H500695	Release Area	3/10/2015	Hand Auger	2'	<0.3	<10.0	<10.0	5440
RR1-3'	H500695	Release Area	3/10/2015	Hand Auger	3'	<0.3	<10.0	<10.0	5680
RR2-1'	H500695	Release Area	3/10/2015	Hand Auger	1'	<0.3	<10.0	<10.0	5440
RR2-2'	H500695	Release Area	3/10/2015	Hand Auger	2'	<0.3	<10.0	<10.0	3080
RR3-1'	H500695	Release Area	3/10/2015	Hand Auger	1'	<0.3	<10.0	<10.0	7040
RR3-2'	H500695	Release Area	3/10/2015	Hand Auger	2'	<0.3	<10.0	<10.0	3480
RR3-3'	H500695	Release Area	3/10/2015	Hand Auger	3'	<0.3	<10.0	<10.0	1680
RR4-1'	H500695	Release Area	3/10/2015	Hand Auger	1'	<0.3	<10.0	<10.0	6000
RR4-2'	H500695	Release Area	3/10/2015	Hand Auger	2'	<0.3	<10.0	<10.0	3360
RR5-1'	H500694	Release Area	3/10/2015	Hand Auger	1'	0.549	<10.0	<10.0	7040
RR5-2'	H500694	Release Area	3/10/2015	Hand Auger	2'	2.61	<10.0	<10.0	8640
RR6-1'	H500694	Release Area	3/10/2015	Hand Auger	1'	<0.3	<10.0	<10.0	6160
RR6-2'	H500694	Release Area	3/10/2015	Hand Auger	2'	<0.3	<10.0	<10.0	1150
RR7-1'	H500694	Release Area	3/10/2015	Hand Auger	1'	<0.3	<10.0	<10.0	4960
RR8-1'	H500694	Release Area	3/10/2015	Hand Auger	1'	<0.3	<10.0	<10.0	5840
RR8-2'	H500694	Release Area	3/10/2015	Hand Auger	2'	<0.3	<10.0	<10.0	4720
S1-1'	H500697	Release Area	3/11/2015	Hand Auger	1'	<0.3	<10.0	<10.0	6880
S1-2'	H500697	Release Area	3/11/2015	Hand Auger	2'	<0.3	<10.0	<10.0	7120
S1-3'	H500938	Release Area	4/2/2015	Backhoe	3'	N/A	N/A	N/A	6720
S1-5'	H500938	Release Area	4/2/2015	Backhoe	5'	N/A	N/A	N/A	8160
S1-7'	H500938	Release Area	4/2/2015	Backhoe	7'	N/A	N/A	N/A	6160
S1-9'	H500938	Release Area	4/2/2015	Backhoe	9'	N/A	N/A	N/A	7040
S1-10'	H501074	Release Area	4/22/2015	Backhoe	10'	N/A	N/A	N/A	7040
S1-11'	H501074	Release Area	4/22/2015	Backhoe	11'	N/A	N/A	N/A	8000
S1-12'	H501074	Release Area	4/22/2015	Backhoe	12'	N/A	N/A	N/A	7280
S1-13'	H501074	Release Area	4/22/2015	Backhoe	13'	N/A	N/A	N/A	7120
S1-14'	H501074	Release Area	4/22/2015	Backhoe	14'	N/A	N/A	N/A	5280
S1-15'	H501074	Release Area	4/22/2015	Backhoe	15'	N/A	N/A	N/A	3040
S1-15.5'	H501074	Release Area	4/22/2015	Backhoe	15.5'	N/A	N/A	N/A	2040
S2-1'	H500697	Release Area	3/11/2015	Hand Auger	1'	<0.3	<10.0	<10.0	8000
S2-2'	H500697	Release Area	3/11/2015	Hand Auger	2'	<0.3	<10.0	86.6	12300
S2-3'	H500938	Release Area	4/2/2015	Backhoe	3'	N/A	N/A	N/A	10100
S2-5'	H500938	Release Area	4/2/2015	Backhoe	5'	N/A	N/A	N/A	4240
S2-7'	H500938	Release Area	4/2/2015	Backhoe	7'	N/A	N/A	N/A	240
S2-9'	H500938	Release Area	4/2/2015	Backhoe	9'	N/A	N/A	N/A	192
S3-1'	H500697	Release Area	3/11/2015	Hand Auger	1'	<0.3	<10.0	<10.0	6720
S3-2'	H500697	Release Area	3/11/2015	Hand Auger	2'	<0.3	<10.0	<10.0	4400
S3-3'	H500938	Release Area	4/2/2015	Backhoe	3'	N/A	N/A	N/A	384
S3-5'	H500938	Release Area	4/2/2015	Backhoe	5'	N/A	N/A	N/A	32
S3-7'	H500938	Release Area	4/2/2015	Backhoe	7'	N/A	N/A	N/A	144
S3-9'	H500938	Release Area	4/2/2015	Backhoe	9'	N/A	N/A	N/A	<16.0
S4-1'	H500697	Release Area	3/11/2015	Hand Auger	1'	<0.3	<10.0	<10.0	4560
S4-2'	H500697	Release Area	3/11/2015	Hand Auger	2'	<0.3	<10.0	<10.0	2560
S4-3'	H500938	Release Area	4/2/2015	Backhoe	3'	N/A	N/A	N/A	704
S4-5'	H500938	Release Area	4/2/2015	Backhoe	5'	N/A	N/A	N/A	128
S4-7'	H500938	Release Area	4/2/2015	Backhoe	7'	N/A	N/A	N/A	<16.0
S4-9'	H500938	Release Area	4/2/2015	Backhoe	9'	N/A	N/A	N/A	<16.0

Site Ranking is Ten (10). 50-99' (75', Section 21, T18S-R26E, Trend Map

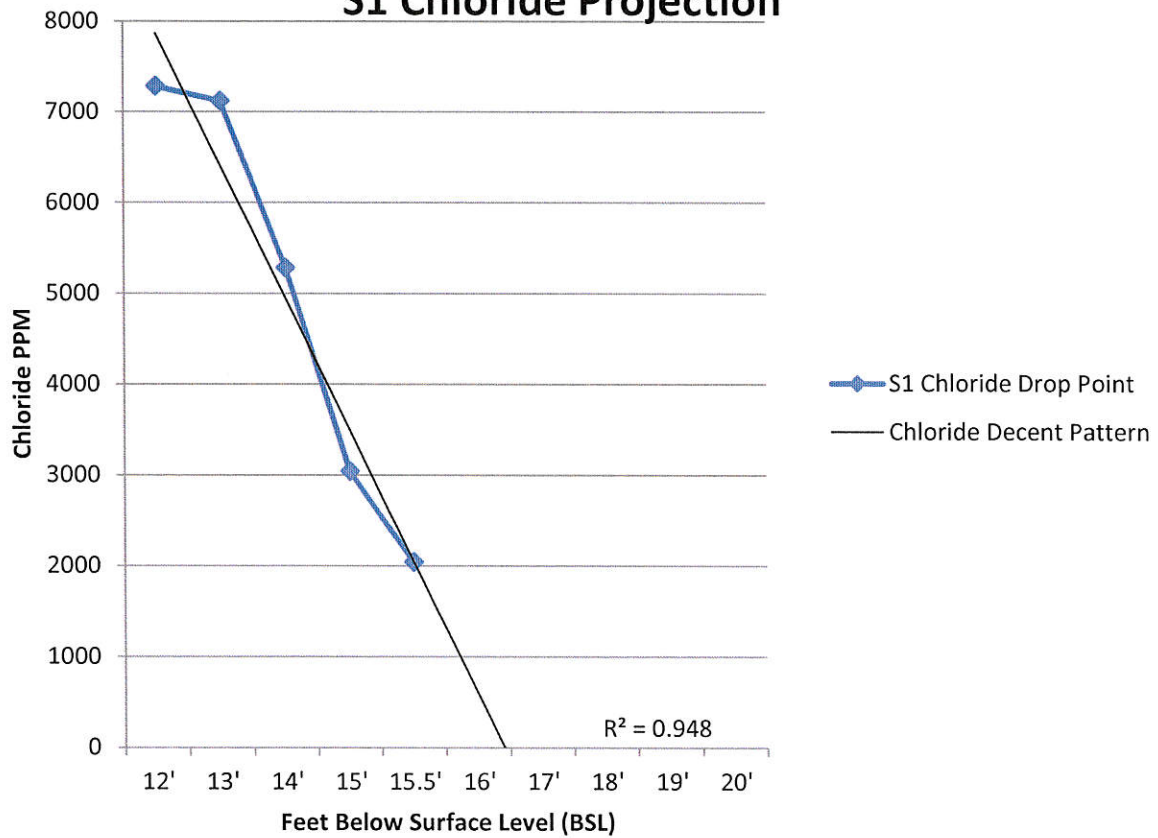
All results are ppm. Chlorides for documentation

Released: 5400 B/PW; Recovered: 5160 B/PW Release Date: 02/5/2015

S1 Chloride Analysis Chart



S1 Chloride Projection



March 19, 2015

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: DAYTON WATER LINE

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: 03/19/2015
 Project Name: DAYTON WATER LINE
 Project Number: 205-0750
 Project Location: GUSHWA DX #1

 Sampling Date: 03/10/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: RR 1 - 1' (H500695-01)

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	03/17/2015	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 (PID) 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	5440	16.0	03/16/2015	ND	416	104	400	3.77	

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 82.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 89.9 % 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: 03/19/2015
Project Name: DAYTON WATER LINE
Project Number: 205-0750
Project Location: GUSHWA DX #1

Sampling Date: 03/10/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: RR 1 - 2' (H500695-02)

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	03/17/2015	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) 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	5440	16.0	03/17/2015	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS						

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 84.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 91.0 % 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: 03/19/2015
 Project Name: DAYTON WATER LINE
 Project Number: 205-0750
 Project Location: GUSHWA DX #1

 Sampling Date: 03/10/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: RR 1 - 3' (H500695-03)

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	03/17/2015	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 BTX	<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	5680	16.0	03/17/2015	ND	416	104	400	3.77	

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	03/17/2015	ND	192	95.8	200	3.83	
DRO >C10-C28	<10.0	10.0	03/17/2015	ND	200	100	200	1.28	

Surrogate: 1-Chlorooctane 90.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 91.0 % 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: 03/19/2015
 Project Name: DAYTON WATER LINE
 Project Number: 205-0750
 Project Location: GUSHWA DX #1

 Sampling Date: 03/10/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: RR 2 - 1' (H500695-04)

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	03/17/2015	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 BTX	<0.300	0.300	03/17/2015	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	5440	16.0	03/17/2015	ND	416	104	400	3.77	

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	03/17/2015	ND	192	95.8	200	3.83	
DRO >C10-C28	<10.0	10.0	03/17/2015	ND	200	100	200	1.28	

Surrogate: 1-Chlorooctane 90.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 91.6 % 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: 03/19/2015
Project Name: DAYTON WATER LINE
Project Number: 205-0750
Project Location: GUSHWA DX #1

Sampling Date: 03/10/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: RR 2 - 2' (H500695-05)

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	03/17/2015	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) 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	3080	16.0	03/17/2015	ND	416	104	400	3.77		

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	03/17/2015	ND	192	95.8	200	3.83	
DRO >C10-C28	<10.0	10.0	03/17/2015	ND	200	100	200	1.28	

Surrogate: 1-Chlorooctane 88.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 91.2 % 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	Sampling Date:	03/10/2015
Reported:	03/19/2015	Sampling Type:	Soil
Project Name:	DAYTON WATER LINE	Sampling Condition:	Cool & Intact
Project Number:	205-0750	Sample Received By:	Celey D. Keene
Project Location:	GUSHWA DX #1		

Sample ID: RR 3 - 1' (H500695-06)

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) 107 % 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	7040	16.0	03/17/2015	ND	416	104	400	3.77	

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	03/17/2015	ND	192	95.8	200	3.83		
DRO >C10-C28	<10.0	10.0	03/17/2015	ND	200	100	200	1.28		

Surrogate: 1-Chlorooctane 86.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 97.1 % 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: 03/19/2015
 Project Name: DAYTON WATER LINE
 Project Number: 205-0750
 Project Location: GUSHWA DX #1

 Sampling Date: 03/10/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: RR 3 - 2' (H500695-07)

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	03/17/2015	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 BTX	<0.300	0.300	03/17/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 108 % 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	3480	16.0	03/17/2015	ND	416	104	400	3.77	

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	03/17/2015	ND	192	95.8	200	3.83	
DRO >C10-C28	<10.0	10.0	03/17/2015	ND	200	100	200	1.28	

Surrogate: 1-Chlorooctane 85.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 84.2 % 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: 03/19/2015
 Project Name: DAYTON WATER LINE
 Project Number: 205-0750
 Project Location: GUSHWA DX #1

 Sampling Date: 03/10/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: RR 3 - 3' (H500695-08)

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 (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	1680	16.0	03/17/2015	ND	416	104	400	3.77	

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	03/17/2015	ND	192	95.8	200	3.83	
DRO >C10-C28	<10.0	10.0	03/17/2015	ND	200	100	200	1.28	

Surrogate: 1-Chlorooctane 88.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 85.6 % 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: 03/19/2015
Project Name: DAYTON WATER LINE
Project Number: 205-0750
Project Location: GUSHWA DX #1

Sampling Date: 03/10/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: RR 4 - 1' (H500695-09)

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	03/18/2015	ND	2.17	109	2.00	5.29	
Toluene*	0.066	0.050	03/18/2015	ND	1.99	99.3	2.00	4.00	
Ethylbenzene*	<0.050	0.050	03/18/2015	ND	1.91	95.3	2.00	6.10	
Total Xylenes*	<0.150	0.150	03/18/2015	ND	5.69	94.9	6.00	7.55	
Total BTEX	<0.300	0.300	03/18/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 99.3 % 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	6000	16.0	03/17/2015	ND	416	104	400	3.77	

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	03/17/2015	ND	192	95.8	200	3.83	
DRO >C10-C28	<10.0	10.0	03/17/2015	ND	200	100	200	1.28	

Surrogate: 1-Chlorooctane 86.3 % 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: 03/19/2015
 Project Name: DAYTON WATER LINE
 Project Number: 205-0750
 Project Location: GUSHWA DX #1

 Sampling Date: 03/10/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: RR 4 - 2' (H500695-10)

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	03/18/2015	ND	2.17	109	2.00	5.29		
Toluene*	<0.050	0.050	03/18/2015	ND	1.99	99.3	2.00	4.00		
Ethylbenzene*	<0.050	0.050	03/18/2015	ND	1.91	95.3	2.00	6.10		
Total Xylenes*	<0.150	0.150	03/18/2015	ND	5.69	94.9	6.00	7.55		
Total BTX	<0.300	0.300	03/18/2015	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	3360	16.0	03/17/2015	ND	416	104	400	3.77	

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	03/17/2015	ND	192	95.8	200	3.83	
DRO >C10-C28	<10.0	10.0	03/17/2015	ND	200	100	200	1.28	


Surrogate: 1-Chlorooctane 80.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 88.1 % 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



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]*

e-mail: csettle@yatespetroleum.com

Fax No: 575-748-4131

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Project Name:

Dayton Water Line (Gushwa DX #)

Project #:

Project Loc:

Dayton Water Line (Gushwa DX #1)

PO #: 205-0750

(lab use only)

ORDER #: H500695

LAB # (lab use only)

FIELD CODE

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:

Relinquished by:

Relinquished by:

Date

Time

Received by:

Date

Time

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headpace?

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:

°C

March 18, 2015

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: DAYTON WATER LINE

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: DAYTON WATER LINE
 Project Number: 205-0750
 Project Location: GUSHWA DX #1

 Sampling Date: 03/10/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: RR 5 - 1' (H500694-01)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.271	0.050	03/17/2015	ND	2.11	105	2.00	4.32	
Toluene*	0.278	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	0.549	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	7040	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 94.8 % 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: DAYTON WATER LINE
Project Number: 205-0750
Project Location: GUSHWA DX #1

Sampling Date: 03/10/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: RR 5 - 2' (H500694-02)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.53	0.050	03/17/2015	ND	2.11	105	2.00	4.32	
Toluene*	0.970	0.050	03/17/2015	ND	1.93	96.6	2.00	3.26	
Ethylbenzene*	0.111	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	2.61	0.300	03/17/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 94.9 % 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	8640	16.0	03/16/2015	ND	416	104	400	3.77	

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 94.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 100 % 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: DAYTON WATER LINE
 Project Number: 205-0750
 Project Location: GUSHWA DX #1

 Sampling Date: 03/10/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: RR 6 - 1' (H500694-03)

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	03/17/2015	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 BTX	<0.300	0.300	03/17/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 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	6160	16.0	03/16/2015	ND	416	104	400	3.77	

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 97.0 % 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: DAYTON WATER LINE
 Project Number: 205-0750
 Project Location: GUSHWA DX #1

 Sampling Date: 03/10/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: RR 6 - 2' (H500694-04)

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	03/17/2015	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 BTX	<0.300	0.300	03/17/2015	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	1150	16.0	03/16/2015	ND	416	104	400	3.77	

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 92.5 % 47.2-157

Surrogate: 1-Chlorooctadecane 101 % 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: DAYTON WATER LINE
Project Number: 205-0750
Project Location: GUSHWA DX #1

Sampling Date: 03/10/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: RR 7 - 1' (H500694-05)

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	03/17/2015	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) 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	4960	16.0	03/16/2015	ND	416	104	400	3.77	

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 82.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 86.9 % 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: DAYTON WATER LINE
Project Number: 205-0750
Project Location: GUSHWA DX #1

Sampling Date: 03/10/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: RR 8 - 1' (H500694-06)

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) 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	5840	16.0	03/16/2015	ND	416	104	400	3.77	

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 94.7 % 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: DAYTON WATER LINE
 Project Number: 205-0750
 Project Location: GUSHWA DX #1

 Sampling Date: 03/10/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: RR 8 - 2' (H500694-07)

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	03/17/2015	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 BTX	<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	4720	16.0	03/16/2015	ND	416	104	400	3.77	

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 87.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 94.4 % 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



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

PS 1 of 1

Project Manager: Chase Settle

Project Name:

Dayton Water Line (Gushwa DX #)

Company: (505) 393-2326 Yates Petroleum Corporation

Project #:

Dayton Water Line (Gushwa DX #1)

Company Address: 105 South 4th Street

Project Loc: Dayton Water Line (Gushwa DX #1)

City/State/Zip: Artesia, NM 88210

PO #: 205-0750

Telephone No: 575-748-4171

Fax No: 575-748-4131

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: [Signature] e-mail: csettle@yatespetroleum.com

(lab use only)

ORDER #: 4500694

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=Sol/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015B	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	RR5-1'			3/10/2015	1:45 PM		1	X								S	X															X
2	RR5-2'			3/10/2015	2:05 PM		1	X								S	X															X
3	RR6-1'			3/10/2015	2:30 PM		1	X								S	X															X
4	RR6-2'			3/10/2015	2:45 PM		1	X								S	X															X
5	RR7-1'			3/10/2015	3:20 PM		1	X								S	X															X
6	RR8-1'			3/10/2015	3:35 PM		1	X								S	X															X
7	RR8-2'			3/10/2015	3:45 PM		1	X								S	X															X

Special Instructions:

Relinquished by: [Signature] Date: 3-13-15 Time: [Signature] Received by: [Signature] Date: 3/13/15 Time: 11:25

Relinquished by: [Signature] Date: [Signature] Time: [Signature] Received by: [Signature] Date: [Signature] Time: [Signature]

Relinquished by: [Signature] Date: [Signature] Time: [Signature] Received by: [Signature] Date: [Signature] Time: [Signature]

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: 3°C

March 19, 2015

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: DAYTON WATER LINE

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: 03/19/2015
 Project Name: DAYTON WATER LINE
 Project Number: 205-0750
 Project Location: GUSHWA DX #1

 Sampling Date: 03/11/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: S 1 - 1' (H500697-01)

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	03/18/2015	ND	2.17	109	2.00	5.29	
Toluene*	0.069	0.050	03/18/2015	ND	1.99	99.3	2.00	4.00	
Ethylbenzene*	<0.050	0.050	03/18/2015	ND	1.91	95.3	2.00	6.10	
Total Xylenes*	<0.150	0.150	03/18/2015	ND	5.69	94.9	6.00	7.55	
Total BTX	<0.300	0.300	03/18/2015	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	6880	16.0	03/17/2015	ND	416	104	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	03/17/2015	ND	192	95.8	200	3.83	
DRO >C10-C28	<10.0	10.0	03/17/2015	ND	200	100	200	1.28	

Surrogate: 1-Chlorooctane 84.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 96.2 % 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: 03/19/2015
 Project Name: DAYTON WATER LINE
 Project Number: 205-0750
 Project Location: GUSHWA DX #1

 Sampling Date: 03/11/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: S 1 - 2' (H500697-02)

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	03/18/2015	ND	2.17	109	2.00	5.29	
Toluene*	<0.050	0.050	03/18/2015	ND	1.99	99.3	2.00	4.00	
Ethylbenzene*	<0.050	0.050	03/18/2015	ND	1.91	95.3	2.00	6.10	
Total Xylenes*	<0.150	0.150	03/18/2015	ND	5.69	94.9	6.00	7.55	
Total BTX	<0.300	0.300	03/18/2015	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	7120	16.0	03/17/2015	ND	416	104	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	03/17/2015	ND	192	95.8	200	3.83	
DRO >C10-C28	<10.0	10.0	03/17/2015	ND	200	100	200	1.28	

Surrogate: 1-Chlorooctane 81.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 93.1 % 52.1-176

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Analytical Results For:

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

Received:	03/13/2015	Sampling Date:	03/11/2015
Reported:	03/19/2015	Sampling Type:	Soil
Project Name:	DAYTON WATER LINE	Sampling Condition:	Cool & Intact
Project Number:	205-0750	Sample Received By:	Celey D. Keene
Project Location:	GUSHWA DX #1		

Sample ID: S 2 - 1' (H500697-03)

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	03/18/2015	ND	2.17	109	2.00	5.29		
Toluene*	<0.050	0.050	03/18/2015	ND	1.99	99.3	2.00	4.00		
Ethylbenzene*	<0.050	0.050	03/18/2015	ND	1.91	95.3	2.00	6.10		
Total Xylenes*	<0.150	0.150	03/18/2015	ND	5.69	94.9	6.00	7.55		
Total BTX	<0.300	0.300	03/18/2015	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	8000	16.0	03/17/2015	ND	416	104	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	03/17/2015	ND	192	95.8	200	3.83		
DRO >C10-C28	<10.0	10.0	03/17/2015	ND	200	100	200	1.28		

Surrogate: 1-Chlorooctane 84.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.0 % 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: 03/19/2015
 Project Name: DAYTON WATER LINE
 Project Number: 205-0750
 Project Location: GUSHWA DX #1

 Sampling Date: 03/11/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: S 2 - 2' (H500697-04)

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	03/18/2015	ND	2.17	109	2.00	5.29	
Toluene*	<0.050	0.050	03/18/2015	ND	1.99	99.3	2.00	4.00	
Ethylbenzene*	<0.050	0.050	03/18/2015	ND	1.91	95.3	2.00	6.10	
Total Xylenes*	<0.150	0.150	03/18/2015	ND	5.69	94.9	6.00	7.55	
Total BTEX	<0.300	0.300	03/18/2015	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	12300	16.0	03/17/2015	ND	416	104	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	03/17/2015	ND	192	95.8	200	3.83	
DRO >C10-C28	86.6	10.0	03/17/2015	ND	200	100	200	1.28	

Surrogate: 1-Chlorooctane 89.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 89.6 % 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: 03/19/2015
 Project Name: DAYTON WATER LINE
 Project Number: 205-0750
 Project Location: GUSHWA DX #1

 Sampling Date: 03/11/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: S 3 - 1' (H500697-05)

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	03/18/2015	ND	2.17	109	2.00	5.29	
Toluene*	<0.050	0.050	03/18/2015	ND	1.99	99.3	2.00	4.00	
Ethylbenzene*	<0.050	0.050	03/18/2015	ND	1.91	95.3	2.00	6.10	
Total Xylenes*	<0.150	0.150	03/18/2015	ND	5.69	94.9	6.00	7.55	
Total BTX	<0.300	0.300	03/18/2015	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	6720	16.0	03/17/2015	ND	416	104	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	03/17/2015	ND	192	95.8	200	3.83	
DRO >C10-C28	<10.0	10.0	03/17/2015	ND	200	100	200	1.28	

Surrogate: 1-Chlorooctane 84.4 % 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: 03/19/2015
 Project Name: DAYTON WATER LINE
 Project Number: 205-0750
 Project Location: GUSHWA DX #1

 Sampling Date: 03/11/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: S 3 - 2' (H500697-06)

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	03/18/2015	ND	2.17	109	2.00	5.29	
Toluene*	<0.050	0.050	03/18/2015	ND	1.99	99.3	2.00	4.00	
Ethylbenzene*	<0.050	0.050	03/18/2015	ND	1.91	95.3	2.00	6.10	
Total Xylenes*	<0.150	0.150	03/18/2015	ND	5.69	94.9	6.00	7.55	
Total BTX	<0.300	0.300	03/18/2015	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	4400	16.0	03/17/2015	ND	416	104	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	03/17/2015	ND	192	95.8	200	3.83	
DRO >C10-C28	<10.0	10.0	03/17/2015	ND	200	100	200	1.28	

Surrogate: 1-Chlorooctane 76.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 89.9 % 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: 03/19/2015
 Project Name: DAYTON WATER LINE
 Project Number: 205-0750
 Project Location: GUSHWA DX #1

 Sampling Date: 03/11/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: S 4 - 1' (H500697-07)

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	03/18/2015	ND	2.17	109	2.00	5.29		
Toluene*	<0.050	0.050	03/18/2015	ND	1.99	99.3	2.00	4.00		
Ethylbenzene*	<0.050	0.050	03/18/2015	ND	1.91	95.3	2.00	6.10		
Total Xylenes*	<0.150	0.150	03/18/2015	ND	5.69	94.9	6.00	7.55		
Total BTX	<0.300	0.300	03/18/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 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	4560	16.0	03/17/2015	ND	416	104	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	03/17/2015	ND	192	95.8	200	3.83	
DRO >C10-C28	<10.0	10.0	03/17/2015	ND	200	100	200	1.28	

Surrogate: 1-Chlorooctane 81.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 89.6 % 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: 03/19/2015
 Project Name: DAYTON WATER LINE
 Project Number: 205-0750
 Project Location: GUSHWA DX #1

 Sampling Date: 03/11/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: S 4 - 2' (H500697-08)

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	03/18/2015	ND	2.17	109	2.00	5.29		
Toluene*	<0.050	0.050	03/18/2015	ND	1.99	99.3	2.00	4.00		
Ethylbenzene*	<0.050	0.050	03/18/2015	ND	1.91	95.3	2.00	6.10		
Total Xylenes*	<0.150	0.150	03/18/2015	ND	5.69	94.9	6.00	7.55		
Total BTEX	<0.300	0.300	03/18/2015	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	2560	16.0	03/17/2015	ND	416	104	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	03/17/2015	ND	192	95.8	200	3.83	
DRO >C10-C28	<10.0	10.0	03/17/2015	ND	200	100	200	1.28	

Surrogate: 1-Chlorooctane 86.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 90.5 % 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



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

05/04

Project Manager: Chase Settle

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4171

Sampler Signature: [Signature]

ORDER #: H500697

(lab use only)

Fax No: 575-748-4131
e-mail: csettle@yatespetroleum.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

PO #: 205-0750

Project Name: Dayton Water Line (Gushwa DX #)

Project #:

Project Loc: Dayton Water Line (Gushwa DX #1)

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 8015B	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	S1-1'			3/11/2015	10:25 AM		1	X								S	X														X
2	S1-2'			3/11/2015	10:25 AM		1	X								S	X														X
3	S2-1'			3/11/2015	11:15 AM		1	X								S	X														X
4	S2-2'			3/11/2015	11:15 AM		1	X								S	X														X
5	S3-1'			3/11/2015	1:25 PM		1	X								S	X														X
6	S3-2'			3/11/2015	1:25 PM		1	X								S	X														X
7	S4-1'			3/11/2015	2:30 PM		1	X								S	X														X
8	S4-2'			3/11/2015	2:30 PM		1	X								S	X														X

Special Instructions:

Relinquished by: [Signature] Date: 3-13-15 Time: Received by: [Signature] Date: 3/13/15 Time: 11:25

Relinquished by: Date: Time: Received by: ELDT: Date: Time:

Relinquished by: Date: Time: Received by: ELDT: Date: Time:

Laboratory Comments:

Sample Containers intact? ☒ N

VOCS Free of Headspace? ☒ N

Labels on container(s) ☒ N

Custody seals on container(s) ☒ N

Sample Hand Delivered ☒ N

by Courier? ☒ N

UPS ☒ N

DHL ☒ N

FedEx ☒ N

Lone Star ☒ N

Temperature Upon Receipt: 30°C

April 14, 2015

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: DAYTON WATER LINE

Enclosed are the results of analyses for samples received by the laboratory on 04/09/15 11:13.

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: 04/09/2015
 Reported: 04/14/2015
 Project Name: DAYTON WATER LINE
 Project Number: 205-0750
 Project Location: GUSHWA DX #1

 Sampling Date: 04/02/2015
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: S1-3' (H500938-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6720	16.0	04/13/2015	ND	400	100	400	3.92	

Sample ID: S1-5' (H500938-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8160	16.0	04/13/2015	ND	400	100	400	3.92		

Sample ID: S1-7' (H500938-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6160	16.0	04/13/2015	ND	400	100	400	3.92	

Sample ID: S1-9' (H500938-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7040	16.0	04/13/2015	ND	400	100	400	3.92	

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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: 04/09/2015
 Reported: 04/14/2015
 Project Name: DAYTON WATER LINE
 Project Number: 205-0750
 Project Location: GUSHWA DX #1

 Sampling Date: 04/02/2015
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: S2-3' (H500938-05)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10100	16.0	04/13/2015	ND	400	100	400	3.92	

Sample ID: S2-5' (H500938-06)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	04/13/2015	ND	400	100	400	3.92	

Sample ID: S2-7' (H500938-07)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/13/2015	ND	400	100	400	3.92	

Sample ID: S2-9' (H500938-08)

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	04/13/2015	ND	400	100	400	3.92	

Sample ID: S3-3' (H500938-09)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	04/13/2015	ND	400	100	400	3.92	

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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: 04/09/2015
 Reported: 04/14/2015
 Project Name: DAYTON WATER LINE
 Project Number: 205-0750
 Project Location: GUSHWA DX #1

 Sampling Date: 04/02/2015
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: S3-5' (H500938-10)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/13/2015	ND	400	100	400	3.92	

Sample ID: S3-7' (H500938-11)

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	04/13/2015	ND	400	100	400	3.92	

Sample ID: S3-9' (H500938-12)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/13/2015	ND	400	100	400	3.92	

Sample ID: S4-3' (H500938-13)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	04/13/2015	ND	400	100	400	3.92	

Sample ID: S4-5' (H500938-14)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/13/2015	ND	400	100	400	3.92	

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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: 04/09/2015
Reported: 04/14/2015
Project Name: DAYTON WATER LINE
Project Number: 205-0750
Project Location: GUSHWA DX #1

Sampling Date: 04/02/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: S4-7' (H500938-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/13/2015	ND	400	100	400	3.92	

Sample ID: S4-9' (H500938-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/13/2015	ND	400	100	400	3.92		

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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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*=Accredited Analyte

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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 Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4171

Sampler Signature:

Fax No: 575-748-4131
e-mail: csettle@yatespetroleum.com

Project Name: Dayton Water Line (Gushwa DX #1)

Project #:

Project Loc: Dayton Water Line (Gushwa DX #1)

PO #: 205-0750

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only)

ORDER #:

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Preservation & # of Containers

Matrix

Analyze For:

TCLP:

TOTAL:

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

Special Instructions:

Relinquished by:

Relinquished by:

Relinquished by:

Date

Date

Date

Time

Time

Time

Received by:

Received by:

Received by:

Date

Date

Date

Time

Time

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

°C

April 28, 2015

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: DAYTON WATER LINE

Enclosed are the results of analyses for samples received by the laboratory on 04/24/15 12:45.

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: 04/24/2015
Reported: 04/28/2015
Project Name: DAYTON WATER LINE
Project Number: 205-0750
Project Location: GUSHWA DX #1

Sampling Date: 04/22/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1- 10' (H501074-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7040	16.0	04/28/2015	ND	416	104	400	0.00	

Sample ID: S1- 11' (H501074-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	04/28/2015	ND	416	104	400	0.00	

Sample ID: S1- 12' (H501074-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7280	16.0	04/28/2015	ND	416	104	400	0.00	

Sample ID: S1- 13' (H501074-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7120	16.0	04/28/2015	ND	416	104	400	0.00	

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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: 04/24/2015
Reported: 04/28/2015
Project Name: DAYTON WATER LINE
Project Number: 205-0750
Project Location: GUSHWA DX #1

Sampling Date: 04/22/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1- 14' (H501074-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5280	16.0	04/28/2015	ND	416	104	400	0.00	

Sample ID: S1- 15' (H501074-06)

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	04/28/2015	ND	416	104	400	0.00	

Sample ID: S1- 15.5' (H501074-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	04/28/2015	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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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:

e-mail: csettle@yatespetroleum.com

Fax No: 575-748-4131

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

PO #: 205-0750

Project Name: Dayton Water Line (Gushwa DX #)

Project #:

Project Loc: Dayton Water Line (Gushwa DX #1)

Page 5 of 5

(lab use only)

ORDER #: H501074

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	Matrix	TPH: 418.1 8015M 8015B	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
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1	S1-10'			4/22/2015	10:45 AM		1										S																X	
2	S1-11'			4/22/2015	10:55 AM		1										S																X	
3	S1-12'			4/22/2015	11:05 AM		1										S																X	
4	S1-13'			4/22/2015	11:15 AM		1										S																X	
5	S1-14'			4/22/2015	11:25 AM		1										S																X	
6	S1-15'			4/22/2015	11:35 AM		1										S																X	
7	S1-15.5'			4/22/2015	11:45 AM		1										S																X	

Special Instructions:

Relinquished by:

Relinquished by:

Relinquished by:

Date

Time

Received by:

Date

Time

Date

Time

Received by:

Date

Time

Date

Time

Received by ELDT:

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: 45.4 24.8 °C