

Appendix CSoil Sample Laboratory Data



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/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab 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/ga/lab accredited analytes are denoted by a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes are denoted by a complete list of accredited analytes are denoted by a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes are denoted by a complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by a complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

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



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

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 Soil

Sampling Type:

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

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

BTEX 8021B	mg	'kg	Analyze	d 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 9	% 61-154	,						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	6 52.1-176							

Cardinal Laboratories

*=Accredited Analyte

PLESE NOTE: Liabity and Damages. Cardinal's liabity and client's exclusive remedy for any claim arising, whether based in contract or tost, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in witting and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its substaints, attiliates or successors adding out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report what not be reproduced except in full with written approval of Cardinal Laboratories.





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: Project Location:

205-0750 GUSHWA DX #1 Sampling Date:

03/10/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Celey D. Keene

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

BTEX 8021B	mg/	kg	Analyze	d 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 9	% 61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 47.2-15	7			e			
Surrogate: 1-Chlorooctadecane	91.0	% 52.1-170	6						

Cardinal Laboratories

*=Accredited Analyte

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



YATES PETROLEUM CORPORATION **CHASE SETTLE** 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

03/13/2015

Reported: Project Name: 03/19/2015

DAYTON WATER LINE

Project Number:

205-0750

Project Location:

GUSHWA DX #1

Sampling Date:

03/10/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Celey D. Keene

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

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	Analyze	d 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	Analyze	d 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	6 47.2-15	7			,			ě
Surrogate: 1-Chlorooctadecane	91.0 9	6 52.1-170	5						

Cardinal Laboratories

*=Accredited Analyte

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



YATES PETROLEUM CORPORATION **CHASE SETTLE** 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

Reported:

03/19/2015

Project Name:

DAYTON WATER LINE

Project Number:

205-0750 Project Location: **GUSHWA DX #1**

03/13/2015

Sampling Date:

03/10/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Celey D. Keene

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

BTEX 8021B	mg/	kg	Analyze	d 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 (PIC	1049	61-154					\		
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	6 47.2-157	7						
Surrogate: 1-Chlorooctadecane	91.69	6 52.1-170	5						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinalis Fability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whitebower shall be deemed valved unless made in writing and received by Cardinal within thirty (30) days after competition of the applicable service. In no event shall Cardinal be fable for incidental or consequential damages, including, without limitation, business inhemptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results related on to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.





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

Received:

03/13/2015

Sampling Date:

03/10/2015

Reported:

Soil

03/19/2015

Sampling Type:

Project Name:

DAYTON WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

Sample Received By:

Project Location:

205-0750

GUSHWA DX #1

Celey D. Keene

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

BTEX 8021B	mg/	kg	Analyze	d By: ms	2				
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 9	61-154		R					
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	7						
Surrogate: 1-Chlorooctadecane	91.2	52.1-170	5						

Cardinal Laboratories

*=Accredited Analyte

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



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

Sample Received By:

Celey D. Keene

Project Number: Project Location: 205-0750

GUSHWA DX #1

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

BTEX 8021B	mg	/kg	Analyze	d 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		3			
Surrogate: 4-Bromofluorobenzene (PIL	107	% 61-154							
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d 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	7				-		
Surrogate: 1-Chlorooctadecane	97.1	% 52.1-170	5						

Cardinal Laboratories

*=Accredited Analyte

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



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

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 - 2' (H500695-07)

BTEX 8021B	mg/	kg	Analyze	d 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	108 %	6 61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	7						
Surrogate: 1-Chlorooctadecane	84.29	52.1-170	5						

Cardinal Laboratories

*=Accredited Analyte

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



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: Project Number: DAYTON WATER LINE

205-0750

Project Location:

GUSHWA DX #1

Sampling Date:

ine:

03/10/2015 Soil

Sampling Type: Sampling Condition:

Cool & Intact

Sample Received By:

Color & Illiact

Celey D. Keene

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

BTEX 8021B	mg/	kg	Analyze	d 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 9	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	í						

Cardinal Laboratories

*=Accredited Analyte

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



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	Analyze	d 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 9	6 61-154				-			
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS				ii .	
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 %	6 47.2-157	,						
Surrogate: 1-Chlorooctadecane	92.8 9	6 52.1-176							

Cardinal Laboratories

*=Accredited Analyte

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



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

Analytical Results For:

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

Analyzed Burme

Received:

03/13/2015

Reported: Project Name: 03/19/2015

DAYTON WATER LINE

Project Number: Project Location: 205-0750

GUSHWA DX #1

Sampling Date:

03/10/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By:

Cool & Intact Celey D. Keene

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

BTEX 8021B	mg/	kg	Analyze	d 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	98.4 9	% 61-154	!						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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	80.69	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	88.1 9	6 52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

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



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

*=Accredited Analyte

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

	Relinquished by:		Relinquished by:	1	Relinguished by	Special instructions:	0 RR4-2'	RX+	O RNO-S	N DD2 21	1.3	1-01	2	4 RR2-1	3 RR1-3'	3 RR1-2'	RR1-1'	LAB # (lab use only) FIELD CODE		ORDER # #500/09 C	(lab use only)	Sampler Signature:		54	City/State/Zip: Artesi	Company Address: 105 South 4th Street	Comp: (505) 393-2326 Yates Petroleum Corporation	Project Manager: Chas	5 A
	Date	Cale	Coto	3-1-5-12 Date			The second secon											m	AT A CONTRACTOR OF THE PARTY OF			1	575-748-4171	CH CONC. ININ. OOZ 10	NM 88210	outh 4th Street	Petroleum Corporation	Chase Settle	TORIES bbs, NM 88240
	Time	Time		lime			3 1											Beginning Depth	4.1			TI A					3		
	ē	ā		Ģ			No.				1							Ending Depth											
	Received by ELOT:	Received by:		Received by:			3/10/2015	3/10/2015	3/10/2015	3/10/2015	3/10/2015	3/10/2015	3/10/2015	C102/01/C	2102010	3/10/2015	3/10/2015	Date Sampled											(505) 393-232
	JT:	9	I WERE	11 110	00		1:05 PM	12:45 PM	11:45 AM	11:30 AM	11:15 AM	10:30 AM	10:15 AM	9:30 AM	NIW 07'S	0-20 444	9:10 AM	Time Sampled				e-mail:	Fax No:			4			(505) 393-2326 FAX (505) 393-2476
			1	,			7	1	_	_	-	-	-	-	9 2	100		Field Fillered Total #. of Containers	-		75	10	Io				1000	1	1-2476
			1	6		-		X	×	×	×	×	_	_		_		Ice				csettle@yatespet	575-748-4131					W.	O,
								20 -	-035									HNO,	Prese			tle©	4					1	
				- 1					-	-	-	-	_	2	-	-	_	HCI	rvation			ya	33						
				1					-			-			3	+	_	H ₂ SO ₄ NaOH	ration & # of Co			lse:							CHAIN
A															4			Na ₂ S ₃ O ₃	2						1				N.
						-	Armed .										-	None	tainers			olec			-				7
	Date	Date	8	Pate		-			3		1-92	-4	-			7 -	-	Other (Specify) OW=Drinking Water SL=Studge				3							S
	-	ī	0//	1				S	S	S	S	S	S	S	S	U	9	GW = Groundwater S=Sol/Solid IP=Non-Potable Specify Other	Matrix	-/-		roleum.com	Report Format:		6	U		Pro	OF CUSTODY RECORD AND ANALYSIS REQUEST
T. G	Time	Time	125	Time			× ;	×	×	×	×	×	×	×	×	×	-	PH: 418.1 8015M 8015B PH: TX 1005 TX 1008	35				Form		Li oject Toc.		Proj	Project Name:	CO
e		Sar	2 5	F 5	Sal	La				Street	2 100	1		-	-	-	-	ations (Ca, Mg, Na, K)		,	-		at:	PO#	100	3	Project #:	Vame	20
Temperature Upon Receipt:	byC	Sample Hand Delivered by Sampler/Client Rep.	stody	Labels on container(s)	Sample Containers Intact?	N N					200	77	1			2		nions (CI, SO4, Alkalinity)	-	4	The same		×	PO#: 205-0750			,/F	15	ANL
ature	oune	Hand	Sea	100 C	Cont	2		2-10		-	200	1 TO 100		4			S	AR/ESP/CEC	1	TOTAL:			Sta	5-07	Ua	3	34	Da	J AM
Upo	by Courier? UPS	d Deli	SON	ntain	ainer	3			-	-		105.4	-	-	-	-	-	etals: As Ag Ba Cd Cr Pb Hg Se		3	A		x Standard	8	Dayton	1	100	Dayton Water Line	AL
n Re	디	ivere ent R	300	er(s)	s Int			1		7		1		-	-	4-	-	olatiles emivolatiles	+	The second	Analyze	5			Water	M		Wa	YSIS
œipt	w t	S D	ainer	308/	act?	? ×	< >	<	×	×	×	×	×	×	×	×	-	TEX 8021B/5030 or BTEX 8260	-	-	For				iler			ter	?RE
	뭐		(s)											700 mg	Sylvia		R						TRRP		Line			Line	QU
4	TI									1.7.			577	- 1	100		-	O.R.M.					공		(GL	6		(Gu	ES7
0	- A	CK F	X	RR	D	×	< >	<	×	×	×	×	×	×	×	×		nlorides	1						(Gushwa			(Gushwa	D
1,	5	W.	-	V		1	-	1				200	0.9			4	S	AR		-	П						9		0
റ്	Lone Star	zzz	z	zz	z	1		1			7.7			-	1000	-	RI	JSH TAT (Pre-Schedule) 24, 48,	72 h	18			NPDES		DX #1)			DX #	-6
						×	×		< >	× ;	×	×	×	×	×	-	Sta	,			maril 1		ເນ	ı	12	-	P	age 1	13 of 13



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 accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited accredited accredited analytes are denoted by www.tceq.texas.gov/field/qa/lab accredited accredited

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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



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

Received:

03/13/2015

Sampling Date:

03/10/2015

Reported:

Soil

03/18/2015

Sampling Type:

Cool & Intact

Project Name:

DAYTON WATER LINE

Sampling Condition:

Project Number:

205-0750

Sample Received By:

Celey D. Keene

Project Location: **GUSHWA DX #1**

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

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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 9	% 61-154				3 t			
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	94.8	% 52.1-17	5						

Cardinal Laboratories

*=Accredited Analyte

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

Celegri Keene



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

Analytical Results For:

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

Received: Reported: 03/13/2015

03/18/2015

Project Name:

205-0750

Project Number: Project Location:

GUSHWA DX #1

DAYTON WATER LINE

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	Analyze	d 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 9	% 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	% 47.2-157	7						
Surrogate: 1-Chlorooctadecane	100 9	6 52.1-170	5						

Cardinal Laboratories

*=Accredited Analyte

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



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

Received: Reported: 03/13/2015

03/18/2015 **DAYTON WATER LINE**

Project Name:

Project Number: 205-0750 Project Location: GUSHWA DX #1 Sampling Date:

03/10/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Celey D. Keene

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

BTEX 8021B	mg/	kg	Analyze	d 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 9	% 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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	7						
Surrogate: 1-Chlorooctadecane	97.0 9	% 52.1-170	5						

Cardinal Laboratories

*=Accredited Analyte

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



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

Analytical Results For:

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

Received:

03/13/2015

Sampling Date:

03/10/2015

Reported:

03/18/2015

Sampling Type:

Soil

Project Name:

DAYTON WATER LINE

Cool & Intact

Sampling Condition: Sample Received By:

Celey D. Keene

Project Number: Project Location: 205-0750

GUSHWA DX #1

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

BTEX 8021B	mg	/kg	Analyze	d 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, SM4500CI-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	101	% 52.1-170	s						

Cardinal Laboratories

*=Accredited Analyte

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



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

Analyzed Ry: ms

Received:

03/13/2015

Sampling Date:

03/10/2015

Reported:

03/18/2015

Soil

Project Name:

Sampling Type:

Cool & Intact

DAYTON WATER LINE

Sampling Condition:

Project Number: Project Location: 205-0750 **GUSHWA DX #1** Sample Received By:

Celey D. Keene

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

BTEX 8021B	mg/	kg	Analyze	a 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 %	6 61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	47.2-157	•						
Surrogate: 1-Chlorooctadecane	86.9 9	52.1-176	i						

Cardinal Laboratories

*=Accredited Analyte

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



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

Received:

03/13/2015

03/18/2015

Sampling Date:

03/10/2015

Reported:

Sampling Type:

Soil

Project Name:

DAYTON WATER LINE

Sampling Condition:

Cool & Intact

Project Number:

205-0750

Project Location:

GUSHWA DX #1

Sample Received By:

Celey D. Keene

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

BTEX 8021B	mg/	kg	Analyze	d 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					9		
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	% 47.2-157		9					
Surrogate: 1-Chlorooctadecane	94.7 9	6 52.1-176	i						

Cardinal Laboratories

*=Accredited Analyte

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



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

Fax To:

Received:

03/13/2015

Reported:

03/18/2015

Project Name:

DAYTON WATER LINE

Project Number: Project Location:

205-0750 GUSHWA DX #1 Sampling Date:

Sampling Type:

Soil

inpling Type:

2011

Sampling Condition: Sample Received By: Cool & Intact

Celey D. Keene

03/10/2015

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

BTEX 8021B	mg/	kg	Analyze	ed 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 9	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	94.4 9	52.1-17	5						

Cardinal Laboratories

*=Accredited Analyte

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



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

*=Accredited Analyte

PLEASE NOTE: Uability and Damages. Cardinal's lability and clients exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatboover shall be deemed valved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be fisable for incidental or consequential damages, including, which limitation, business intermophosins, bass of use, or loss of profits incurred by thent, its subdiscips, affiliates or successors adding out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise, Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories,

Received by Fig. 12 1997	Relinquished by:	Relinquished by:	Relinguished by	Special Instructions:		The second secon	7 RR8-2'	∅ RR8-1'	5 RR7-1'	4 RR6-2'	3 RR6-1'	¾ RR5-2'	/ RR5-1'	LAB # (lab use only)	ORDER# HSUD 1894	(lab use only)		Sampler Signature:	Telephone No: 575-748-4171	City/State/Zip: Artesia, NM 88210	Company Address: 105 South 4th Street	Comp: (505) 393-232€ Yates Petroleum Corporation	Project Manager. Chase Settle	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240
Fax No.	Date	Date	3-13-15			a mare a mare a fi		j										Y		8210	Street	m Corporation		88240
Project Name: Dayton Water Line (Gushwa DX #1)	T	-	+		* 1			44						Beginning Depth			1						4	
Project Name: Dayton Water Line (Gushwa DX# Project Name: Dayton Water Line (Gushwa DX# Project Loc: Dayton	îme	ime	ime					-		d-de				Ending Depth			1							
Project Name: Dayton Water Line (Gushwa DX# Project Name: Dayton Water Line (Gushwa DX# Project Loc: Dayton	Received by ELC	Received by:	Received by:				3/10/2015	3/10/2015	3/10/2015	3/10/2015	3/10/2015	3/10/2015	3/10/2015	Date Sampled										(505) 393-2326 F
Project Name: Dayton Water Line (Gushwa DX# Project Name: Dayton Water Line (Gushwa DX# Project Loc: Dayton)T:	0	LLO	1			3:45 PM	3:35 PM	3:20 PM	2:45 PM	2:30 PM	2:05 PM	1:45 PM	Time Sampled				e-mail:	Fax No:					5AX (505) 393
Project Name: Dayton Water Line (Gushwa DX# Project Name: Dayton Water Line (Gushwa DX# Project Loc: Dayton			1		1000			-	-	10-1	-	-	1000					1	1.2		-	d vita	-	-2470
Analyze For: Project Name: Dayton Water Line (Gushwa DX Project Name: Dayton Water Line (Gushwa DX Project Project			6					1	-				_		-			983	575-			17.7	£ 4.	01
Analyze For: Project Name: Dayton Water Line (Gushwa DX Project Name: Dayton Water Line (Gushwa DX Project Project					2018	700	×	×	×	×	×	×	×		- p			# E	748-					
Analyze For: Project Name: Dayton Water Line (Gushwa DX Project Name: Dayton Water Line (Gushwa DX Project Project	4							-	-						esen			Ö	413					
Date Date Other (Specify) Project Loc: Dayton Water St.=Sludge OW GW=Drinking Water St.=Sludge GW Groundwater St.=Sludge GW GW Groundwater St.=Sludge OW S S S S S S S S S S S S S S S S S S S					\vdash	=	-11	-			-	-	-	Apply 200 management of the company of the last of the	ation			ate					5	
Date Date Other (Specify) Project Loc: Dayton Water St.=Sludge OW GW=Drinking Water St.=Sludge GW Groundwater St.=Sludge GW GW Groundwater St.=Sludge OW S S S S S S S S S S S S S S S S S S S						-	-		-		-	-	-		- 8#			esp						
Date Date Other (Specify) Project Loc: Dayton Water St.=Sludge OW GW=Drinking Water St.=Sludge GW Groundwater St.=Sludge GW GW Groundwater St.=Sludge OW S S S S S S S S S S S S S S S S S S S					-	-	200	-	= +		-	-	200	The state of the s	Con			etr						
Date Date Other (Specify) Project Loc: Dayton Water St.=Sludge OW GW=Drinking Water St.=Sludge GW Groundwater St.=Sludge GW GW Groundwater St.=Sludge OW S S S S S S S S S S S S S S S S S S S			W		-			-	77.75						ainer			ole				e e		
Project Name: Project Name	0		II D				-	-1	****		200	24.51 24.56		Other (Specify)							1		1	
Time Temperature Upon Receipt: Togect Name: Dayton Water Line (Gushwa DX#1) Project H: Project H:	ate	ate	7				s	s	s	S	S	S	S	The same of the sa	Matri		, S	com	Rep				יטי	
Cations (Ce, Mg, Ne, K) Anions (Ci, SO4, Alkelinity) TOTAL: TOTAL: Analyze For: A			11				_	Taraca Taraca									П		H F		Pro	70	roje	
Cations (Ce, Mg, Ne, K) Anions (Ci, SO4, Alkelinity) TOTAL: TOTAL: Analyze For: A	Time	ime	ime		-	.01 max	×	×	×	×	×	×	×	STORY PROBLEM LINES OF THE PROPERTY OF THE PRO	ЭВ		П		E C	711	Ect	roje	St N	
Dayton Water Line (Gushwa DX #1) Page 10 of 10	9.43	-	005	< 0 -	2000		-	-		8	July 1	3.5	al control	Control of the Contro	1	1	Ш		2	ŏ #	5	11	ame	
TRRP Water Line (Gushwa DX ## Delivered ler/Client Rep. 2 Page 10 of 10 Page 10 of 10	emp	b b	abelt	amp	-	===	300	7	1-30				-		1	ᆲᇻ	П		×	20		1		
TRRP Water Line (Gushwa DX ## Delivered ler/Client Rep. 2 Page 10 of 10 Page 10 of 10	erat	/ Sar / Co	s on dy s	le Cu	1000	= ==	100					-	-	SAR/ESP/CEC		A. C.	Н		Sta	9	Da		Da	
RCI NO.R.M. X X X X X X X X Chlorides SAR RUSH TAT (Pro-Schedule) 24, 48, 72 hrs Page 10 of 10	ure (and nple unier	eals eals	ontai e of	7				-		-	-		Melals: As Ag Ba Cd Cr Pb Hg S			0.0		ndar	ន	ytor		Yor	
RCI NO.R.M. X X X X X X X X Chlorides SAR RUSH TAT (Pro-Schedule) 24, 48, 72 hrs Page 10 of 10	Jpon	Deliv /Clie	on c	ners					-1-2			Total		Volatiles	-		nalyz		ď.		×		×	
RCI NO.R.M. X X X X X X X X Chlorides SAR RUSH TAT (Pro-Schedule) 24, 48, 72 hrs Page 10 of 10	Rec	UP.	onta oole	inta Inta	Second						1000	-		NAME AND ADDRESS OF THE PARTY O	1		3				ater		ater	engel Linguista
NO.R.M. NO.R.M. NO.R.	zipt:	B	iner (s)	8 3 3		72	×	×	×	×	×	×	×	CONTRACTOR PRODUCTION	60		12				Lin		Lin	or enthalism
RUSH TAT (Pro-Schodulo) 24, 48, 72 hrs Page 10 of 10		맫	S				=3.	77.7	100	70.00	200	2	1		Spirite -		H		RRF				e (G	The state of the s
RUSH TAT (Pro-Schodulo) 24, 48, 72 hrs Page 10 of 10	w	TI			-		U.	U	5	J	J	V	V	A10,21,73,833	4	-	H		•		iush		ush	7
ο w 222222 Page 10 of 10	The second lives with	E RR	RRA	RR	-	-	_	-	^	^	-	-	1				11						wa	-
ο w 222222 Page 10 of 10	3()	E 2		CO			-	-	TON	-	900	1880	-						NP	,			×	
T ugo re or re	ငိ	nes	ZZZ	ZZ	1	9	-		ull.			-	-	RUSH TAT (Pre-Schedule) 24,	, 48, 72	2 hrs	4 N		DES		# 1	Par) of 10
		মু			-		×	×	×	×	×	×	×	Standard TAT	-1	519	-		-5.5	1	L	I	1	01 10

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST



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/ga/lab accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited accredited analytes are denoted by www.tceq.texas.gov/field/ga/lab accredited accredited analytes are denoted by www.tceq.texas.gov/field/ga/lab accredited accredited

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celego D. Keena

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



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

Received:

03/13/2015

03/19/2015

Reported:

Project Name: Project Number: DAYTON WATER LINE

Project Location:

205-0750 **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)

BTEX 8021B	mg/	kg	Analyze	d 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 BTEX	<0.300	0.300	03/18/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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	7						
Surrogate: 1-Chlorooctadecane	96.2	% 52.1-170	5						

Cardinal Laboratories

*=Accredited Analyte

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



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

Fax To:

Received: Reported: 03/13/2015

03/19/2015

DAYTON WATER LINE

Project Name: Project Number: Project Location:

205-0750 **GUSHWA DX #1** Sampling Date:

Sampling Type:

03/11/2015 Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

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

BTEX 8021B	mg/	kg	Analyze	ed 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	105 9	61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP	5				
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	Analyze	d 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 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	93.19	6 52.1-170	5						

Cardinal Laboratories

*=Accredited Analyte

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



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Analysed Duy me

Received:

03/13/2015

Reported: Project Name: 03/19/2015

DAYTON WATER LINE

Project Number:

205-0750

Project Location:

GUSHWA DX #1

--- /1--

Sampling Date:

03/11/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Celey D. Keene

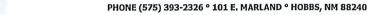
Sample ID: S 2 - 1' (H500697-03)

BTEX 8021B	mg/	kg	Analyze	ed 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	104 9	% 61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	% 47.2-15	7	-		3			
Surrogate: 1-Chlorooctadecane	92.0	% 52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

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





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

Received:

03/13/2015

Reported: Project Name: 03/19/2015

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	Analyze	d 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	104 %	6 61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	89.69	6 52.1-170	5						

Cardinal Laboratories

*=Accredited Analyte

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



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

03/13/2015

Reported: Project Name: 03/19/2015

D

DAYTON WATER LINE

Project Number: Project Location:

205-0750 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)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	104 %	6 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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 %	6 47.2-15	7			,			
Surrogate: 1-Chlorooctadecane	92.8 9	6 52.1-170	5						

Cardinal Laboratories

*=Accredited Analyte

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



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

Fax

03/13/2015

Reported: 03/19/2015

Project Name: DAYTON WATER LINE

Project Number: 205-0750

Project Location: GUSHWA DX #1

Sampling Date:

Sampling Type: Soil

Sampling Type: Sompling Condition: Co

Sample Received By:

Cool & Intact

03/11/2015

Celey D. Keene

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

Received:

BTEX 8021B	mg/	kg	Analyze	d 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	104 9	61-154					,				
Chloride, SM4500Cl-B	mg/	ng/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	Analyze	d 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 9	% 47.2-15	7								
Surrogate: 1-Chlorooctadecane	89.9	52.1-17	6								

Cardinal Laboratories

*=Accredited Analyte

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



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:

Sampling Type:

Soil

03/19/2015

Sampling Condition:

Cool & Intact

Project Name:

DAYTON WATER LINE 205-0750

Sample Received By:

Celey D. Keene

Project Number: Project Location:

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

GUSHWA DX #1

BTEX 8021B	mg/	kg	Analyze	d By: ms					u = = -
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	105 %	6 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	6 47.2-157	,						
Surrogate: 1-Chlorooctadecane	89.69	6 52.1-176	i						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages, Cardinal's flability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be fiable for incidential or consequential damages, including, without limitation, business inhemptions, loss of use, or loss of protes incurred by tlent, its soldaries, affiliates or successors arising out of or called to the performance of the services hereunder by Cardinal, regardless of whether such claims to based upon any of the above stated reasons or otherwise. Results relate conly to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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 4 - 2' (H500697-08)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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 9	% 61-154							
Chloride, SM4500Cl-B	mg/	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	Analyze	d 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 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	90.5 9	% 52.1-170	6						

Cardinal Laboratories

*=Accredited Analyte

PLESE NOTE: Liability and Damages. Cardinalis Pability and clients exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analysiss. All claims, including those for negligence and any other cause whatsoever shall be deemed valved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be Pable for incidental or consequential damages, including, without limitation, business inhemptions, loss of use, or loss of profits incurred by client, its sublidaties, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results related not to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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 repor

Cardinal Laboratories

*=Accredited Analyte

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

ORDER #: (lab use only) Special Instructions: Relinquished by: AB # (lab use only) S1-2" \$3-1 S2-1 S1-1' S3-2' City/State/Zip: Sampler Signature: Telephone No: Company Address: 105 South 4th Street Comp: (505) 393-2326 Yates Petroleum Corporation Project Manager: 101 East Marland, Hobbs, NM 88240 ARDINAL LABORATORIES FIELD CODE Chase Settle Artesia, NM 88210 3-13-15 Date Date **Beginning Depth** Time Time **Ending Depth** (505) 393-2326 FAX (505) 393-2476 Received by ELOT: 3/11/2015 3/11/2015 3/11/2015 3/11/2015 3/11/2015 3/11/2015 3/11/2015 3/11/2015 **Date Sampled** 10:25 AM 10:25 AM 11:15 AM 2:30 PM 2:30 PM 11:15 AM 1:25 PM 1:25 PM Fax No: Time Sampled e-mail: ield Fillered 575-748-4131 Total #. of Containers csettle@yatespetroleum.com × × X X × Ice × HNO, HCI CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST H,SO, NaOH Na2S2O3 None Other (Specify) Date DW=Drinking Water SL=Sludge Report Format: S S S S S S S S GW = Groundwater S=SolVSolid Project Name: NP=Non-Potable Specify Other Project Loc: Time 8015M 418.1 80158 Project #: × × × TX 1006 TX 1005 PO#: 205-0750 Labels on container(s)
Custody seals on container(s)
Custody seals on cooler(s)
Custody seals on cooler(s)
Sample Hand Delivered
by Sampler/Client Rep. ?
by Courier? UPS DHI Cations (Ca, Mg, Na, K) Temperature Upon Receipt: VOCs Free of Headspace? Sample Containers Intact? Laboratory Comments: x Standard Anions (CI, SO4, Alkalinity) TCLP. Dayton Water Dayton Water Line (Gushwa SAR/ESP/CEC Metals: As Ag Ba Cd Cr Pb Hg Se Analyze For: Volatiles Semivolatiles BTEX 8021B/5030 or BTEX 8260 TRRP × × × × × Line RCI (Gushwa DX N.O.R.M. Chlorides × × × × × GRESSES C NPDES SAR ZZZZZZZ RUSH TAT (Pre-Schodule) 24, 48, 72 hrs

Standard TAT

Page 11 of



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/ga/lab accredited analytes.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)

Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keena

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



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

Fax To:

Received:

04/09/2015

Reported:

04/14/2015

Project Name:

DAYTON WATER LINE

Project Number:

205-0750

Project Location:

Sampling Date:

04/02/2015

Sampling Type:

BS

400

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

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

Chloride, SM4500CI-B

mg/kg

GUSHWA DX #1

Analyzed By: AP

Analyte

Reporting Limit Result

Analyzed

Method Blank

% Recovery

True Value QC

RPD Qualifier

Chloride

Chloride

6720

Result

8160

16.0

Reporting Limit

16.0

04/13/2015

Analyzed

04/13/2015

ND

Method Blank

ND

100

400

3.92

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

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

BS

% Recovery

True Value QC 400

RPD

Qualifier

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

Analyte

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

100

3.92

Analyte

Reporting Limit

Analyzed

Method Blank

BS

% Recovery

RPD

3.92

Qualifier

Chloride

Chloride

Result 6160

Result

7040

16.0

Reporting Limit

16.0

04/13/2015

ND

400

400

100

True Value QC 400

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

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyzed

04/13/2015

Method Blank ND

BS 400 % Recovery

100

True Value QC 400

RPD 3.92 Qualifier

Cardinal Laboratories

*=Accredited Analyte

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

Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 8



YATES PETROLEUM CORPORATION CHASE SETTLE 105 S 4th Street Artesia NM, 88210

Fax To:

(505) 748-4635

Received:

04/09/2015

Reported: Project Name: 04/14/2015

DAYTON WATER LINE

Project Number:

205-0750

Project Location:

GUSHWA DX #1

Sampling Date:

04/02/2015

Sampling Type: Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Result

10100

Reporting Limit

16.0

Reporting Limit

Reporting Limit

Analyzed 04/13/2015

Analyzed

Method Blank ND

BS 400

100

% Recovery

True Value OC 400

RPD 3.92 Qualifier

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

Analyte

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

BS

% Recovery True Value QC **RPD**

3.92

Chloride

Chloride

Result 4240

16.0 04/13/2015 Method Blank ND

400

100

Qualifier

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

Chloride, SM4500CI-B

mg/kg

Result

240

Analyzed By: AP

Analyte

Analyzed

Method Blank ND

BS

True Value QC

RPD

Chloride

Chloride

Chloride

16.0 04/13/2015

400

% Recovery 100

400

Qualifier

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

400

3.92

mg/kg

Analyzed By: AP

Chloride, SM4500CI-B

Analyte

Result

192

Result

384

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed 04/13/2015 Method Blank ND

BS 400 % Recovery 100

True Value QC

RPD

Qualifier

Analyzed By: AP

ND

400

3.92

Qualifier

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

Chloride, SM4500Cl-B

mg/kg

Analyzed

04/13/2015

Method Blank

BS 400 % Recovery 100

True Value QC 400

RPD

3.92

Cardinal Laboratories

Analyte

*=Accredited Analyte

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

Celeg D. Keens

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 8



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: Project Location: 205-0750

GUSHWA DX #1

Sampling Date:

% Recovery

100

04/02/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Jodi Henson

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Result

32.0

Reporting Limit

16.0

Reporting Limit

Analyzed 04/13/2015 Method Blank ND

BS 400 True Value QC 400

RPD 3.92 Qualifier

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

Analyte

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

% Recovery

True Value QC

RPD

Qualifier

Chloride

Chloride

Result 144

16.0 04/13/2015 Method Blank ND

BS 400

100

400

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

100

3.92

Chloride

Result <16.0

16.0

Reporting Limit

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed

Analyzed

Method Blank

BS

True Value QC % Recovery

RPD

Qualifier

Result 704

Result

128

04/13/2015

ND

400

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

400

3.92

Analyte

Analyte

Analyzed

04/13/2015

Analyzed

04/13/2015

Method Blank

ND

BS

% Recovery

100

100

True Value QC

400

400

RPD

3.92

Qualifier

Chloride

Chloride

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

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Method Blank

ND

BS

400

400

% Recovery True Value OC RPD

3.92

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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

Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 8



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

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: Project Location:

205-0750 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, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Result <16.0

Reporting Limit

Analyzed 04/13/2015 Method Blank ND

400

BS

% Recovery

True Value QC 400

RPD Qualifier

3.92

RPD

3.92

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

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyzed

Method Blank BS % Recovery

100

True Value QC

Qualifier

Chloride

Chloride

Result <16.0 Reporting Limit 16.0

16.0

04/13/2015

ND

400

100

400

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed writed unless made in writing and received by Cardinal within Unity (33) days after completion of the applicable service. In no event shall Cardinal be Fable for Incidental or consequential damages, including, without limitation, business Interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories,

Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 8



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

*=Accredited Analyte

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

Relinquished by: Special Instructions: (lab use only) ORDER# LAB # (lab use only) 4|51-9 5|52-3 S2-5 S2-9 S2-7" S1-5' S1-7" Sampler Signature: Telephone No: City/State/Zip: Company Address: 105 South 4th Street Comp: (505) 393-2326 Yates Petroleum Corporation Project Manager: Chase Settle ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 FIELD CODE Artesia, NM 88210 Date Beginning Depth Time **Ending Depth** Received by ELOT: 4/2/2015 4/2/2015 4/2/2015 4/2/2015 4/2/2015 4/2/2015 4/2/2015 4/2/2015 (505) 393-2326 FAX (505) 393-2476 **Date Sampled** 9:45 AM 9:45 AM 8:45 AM 9:45 AM 8:45 AM 9:45 AM 8:45 AM 8:45 AM Time Sampled Fax No: e-mail: Field Filtered -Total #. of Containers csettle@yatespetroleum.com 575-748-4131 HNO, HCI H,SO, CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST NaOH Na₂S₂O₃ × × × × × None Date Other (Specify) DW=Drinking Water SL=Sludge S S S S Matrix S S S Report Format: GW = Groundwater S=SolVSolid NP=Non-Potable Specify Other Time Project Name: Time Project Loc: TPH: 418.1 8015M 8015B Project #: Labels on container(s)
Custody seals on container(s)
Custody seals on cooler(s)
Sample Hand Delivered
by Sampler/Client Rep.?
by Counier? UPS DHI TPH: TX 1005 TX 1008 Temperature Upon Receipt PO#: 205-0750 VOCs Free of Headspace? Sample Containers Intact? Laboratory Comments: Callons (Ca, Mg, Na, K) Anions (CI, SO4, Alkalinity) × Standard TOTAL: SAR/ESP/CEC Dayton Water Line Dayton Water Line Metals: As Ag Ba Cd Cr Pb Hg Se Volaliles Semivolatiles BTEX 8021B/5030 or BTEX 8260 TRRP RCI N.O.R.M. 11/200×00000 Gushwa DX #1 Gushwa DX # × × × × × × × Chlorides SAR NPDES ZZZZZZ ဂိ RUSH TAT (Pre-Schedule) 24, 48, 72 hrs × × Page 7 of 8 Standard TAT



ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

Compt (505) 393-232t Yates Petroleum Corporation

Project Manager: Chase Settle

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

		CHAIN OF CUST
Project Name:	-	DDY RECORD AN
Dayton Water Line (Gushwa DX #1		CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST
Page	e 8 o	f 8

Project #:

	Relinquished by:	Refinquished by:	Relinquished by:	Coom aba acaons.	Special Instructions:		16 S4-9'	15 S4-7	14 34.5	3 \$4-3'	12 83-9	53-7	0 33-5				ORDER#	(lab use only)	Sampler Signature:	i eleprione No:	Tolophore No.	City/State/7in-
	Date	949-15 Date	Date											Manufacture and American	FIELD CODE				ure:	5/5-748-4171	Auesia, NM 88210	A4000 NIL 00040
	Time	Time										Sample of the last	752		Beginning Depth							
	ne	Time	Time		4,440					***	-	/**En	-		Ending Depth							
	Received by ELOT:	Received by:	Received by:			010777	4/2/2015	41212015	4/2/2015	4/2/2015	4/2/2015	4/2/2015	4/2/2015	4/2/2015	Date Sampled							
		P	7			W. 2.77	12:45 PM	AS AS DIV	13:45 PM	13.45 DK	11-20 AM	11:20 AM	11:20 AM	11:20 AM	Time Sampled				e-mail:	Fax No:		Mary Mary
		1									1	1	1	1	Field Filtered Total #. of Containers				100			
		J										1.40			Ice	h			csettle@yatespetrol	575-748-4131		
		1							3.0					To the second	HNO ₃	Pres			tle	4		
					lake !		-	5		-		-	1		нсі	Preservation & # of Contain			Dya	131		
						- A-1	100	1	9 9	-		100	-		H ₂ SO ₄ NaOH	n & #			tes			
							7 19	-		0 0	+			20	Na ₂ S ₂ O ₃	ပ္သိ			pet			
		4				×	×	×	×	×	1	<	×	×	None	ntaine			<u>S</u>			1
Date	, ca		2								7				Other (Specify)	83			S S			
		15/1	1			S	S	S	S	S	0	2	S	S	DW=Drinking Waler SL=Skudge GW = Groundwater S=SolVSolld NP=Non-Potable Specify Other	Matrix			eum.com	Report Format:	1	
Time	ā	5	3	-											TPH: 418.1 8015M 8015E	3	T	1		Fon		10
Te	V C	555	< v	2		-				-					TPH: TX 1005 TX 1006 Callons (Ca, Mg, Na, K)					nat:	PO	Li olect Foc:
Temperature Upon Receipt	by Sampler/Client Re by Counier? UPS	Custody seals on cooler(s) Custody seals on cooler(s)	Sample Containers Intact? VOCs Free of Headspace?	Laboratory Comments:	-				13	-	1	3			Anions (Cl, SO4, Alkalinity)	-		1		TEACHER.	PO#: 205-0750	i
atur	by Sampler/Client Rep. ? by Counier? UPS	y se	Free	ito	7	7		100				1			SAR/ESP/CEC	- IO	25	1		× Standard	양	C
d J D e	pler D	als o	of T	S	79			22	200						Melals: As Ag Ba Cd Cr Pb Hg Se		1.4	1 14		and	750	ayu
9	Sien:	n en	eads	mme	. ;		15		-				100		/olatiles		-	Analyze For:		ā		A LIC
ece	BRE	ntain bler(s	pac	nts _				7	7				191	_[Semivolatiles			ze F				Vale
P .	0.3	er(s	3 3	-			2.02						-	_	BTEX 8021B/5030 or BTEX 8260			ន			,	12
	무				-	1 2	-	11 21	350	-	-	-	10	-	RCI		J.	11		TRRR		Dayton Water Line (Gushwa DX #1
0	Fe					×	×	×	×	×	×	>	; >	-	I.O.R.M. Chlorides	1		11		ס	'	Gue
, ;		< (d)	B D		100		7		-	-	1	1	+		BAR					П	× 1	hw.
1								7.3	100	APPLY A		100	1			1	17	11		Z		O
ה ה ה	ZZ	8 z	ZZ					5 TO						F	USH TAT (Pre-Schedule) 24,48,	72 hr		377		NPDES	75	一生
THE	1				1	×	×	×	×	×	×	×	×		tandard TAT	=	-	and -		S	4	~