



November 11, 2013

AMBER CANNON
YATES PETROLEUM CORPORATION
105 S 4th Street
Artesia, NM 88210

RE: LIVINGSTON RIDGE SWD WATER LINE

Enclosed are the results of analyses for samples received by the laboratory on 11/06/13 13:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

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

Received:	11/06/2013	Sampling Date:	11/04/2013
Reported:	11/11/2013	Sampling Type:	Soil
Project Name:	LIVINGSTON RIDGE SWD WATER LINE	Sampling Condition:	Cool & Intact
Project Number:	103-2020	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: LR 1-2 (H302701-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10300	16.0	11/07/2013	ND	432	108	400	4.01	

Sample ID: LR 1-4 (H302701-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21200	16.0	11/07/2013	ND	432	108	400	4.01	

Sample ID: LR 1-6 (H302701-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	29600	16.0	11/07/2013	ND	432	108	400	4.01	

Sample ID: LR 1-8 (H302701-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16200	16.0	11/07/2013	ND	432	108	400	4.01	

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Received:	11/06/2013	Sampling Date:	11/04/2013
Reported:	11/11/2013	Sampling Type:	Soil
Project Name:	LIVINGSTON RIDGE SWD WATER LINE	Sampling Condition:	Cool & Intact
Project Number:	103-2020	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: LR 1-10 (H302701-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	11/07/2013	ND	432	108	400	4.01	

Sample ID: LR 1-12 (H302701-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18000	16.0	11/07/2013	ND	432	108	400	4.01	

Sample ID: LR 1-14 (H302701-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16000	16.0	11/07/2013	ND	432	108	400	4.01	

Sample ID: LR 1-16 (H302701-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14400	16.0	11/07/2013	ND	432	108	400	4.01	

Sample ID: LR 2-2 (H302701-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14600	16.0	11/07/2013	ND	432	108	400	4.01	

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Reported:	11/11/2013	Sampling Type:	Soil
Project Name:	LIVINGSTON RIDGE SWD WATER LINE	Sampling Condition:	Cool & Intact
Project Number:	103-2020	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: LR 2-4 (H302701-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14000	16.0	11/07/2013	ND	432	108	400	4.01	

Sample ID: LR 2-6 (H302701-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10800	16.0	11/07/2013	ND	432	108	400	4.01	

Sample ID: LR 2-8 (H302701-12)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12200	16.0	11/08/2013	ND	416	104	400	3.92	

Sample ID: LR 2-10 (H302701-13)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17200	16.0	11/08/2013	ND	416	104	400	3.92	

Sample ID: LR 2-12 (H302701-14)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20200	16.0	11/08/2013	ND	416	104	400	3.92	

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Reported:	11/11/2013	Sampling Type:	Soil
Project Name:	LIVINGSTON RIDGE SWD WATER LINE	Sampling Condition:	Cool & Intact
Project Number:	103-2020	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: LR 2-14 (H302701-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15400	16.0	11/08/2013	ND	416	104	400	3.92	

Sample ID: LR 3-2 (H302701-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6260	16.0	11/08/2013	ND	416	104	400	3.92	

Sample ID: LR 3-4 (H302701-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11200	16.0	11/08/2013	ND	416	104	400	3.92	

Sample ID: LR 3-6 (H302701-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25200	16.0	11/08/2013	ND	416	104	400	3.92	

Sample ID: LR 3-8 (H302701-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14800	16.0	11/08/2013	ND	416	104	400	3.92	

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Received:	11/06/2013	Sampling Date:	11/04/2013
Reported:	11/11/2013	Sampling Type:	Soil
Project Name:	LIVINGSTON RIDGE SWD WATER LINE	Sampling Condition:	Cool & Intact
Project Number:	103-2020	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: LR 3-10 (H302701-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13200	16.0	11/08/2013	ND	416	104	400	3.92	

Sample ID: LR 3-12 (H302701-21)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12200	16.0	11/08/2013	ND	416	104	400	3.92	

Sample ID: LR 3-14 (H302701-22)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19000	16.0	11/08/2013	ND	416	104	400	3.92	

Sample ID: LR 3-16 (H302701-23)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12600	16.0	11/08/2013	ND	416	104	400	3.92	

Sample ID: LR 4-2 (H302701-24)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22200	16.0	11/08/2013	ND	416	104	400	3.92	

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Received:	11/06/2013	Sampling Date:	11/04/2013
Reported:	11/11/2013	Sampling Type:	Soil
Project Name:	LIVINGSTON RIDGE SWD WATER LINE	Sampling Condition:	Cool & Intact
Project Number:	103-2020	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: LR 4-4 (H302701-25)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11600	16.0	11/08/2013	ND	416	104	400	3.92	

Sample ID: LR 4-6 (H302701-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	23000	16.0	11/08/2013	ND	416	104	400	3.92	

Sample ID: LR 4-8 (H302701-27)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12600	16.0	11/08/2013	ND	416	104	400	3.92	

Sample ID: LR 4-10 (H302701-28)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21800	16.0	11/08/2013	ND	416	104	400	3.92	

Sample ID: LR 4-12 (H302701-29)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24400	16.0	11/08/2013	ND	416	104	400	3.92	

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Received:	11/06/2013	Sampling Date:	11/04/2013
Reported:	11/11/2013	Sampling Type:	Soil
Project Name:	LIVINGSTON RIDGE SWD WATER LINE	Sampling Condition:	Cool & Intact
Project Number:	103-2020	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: LR 4-14 (H302701-30)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26000	16.0	11/08/2013	ND	416	104	400	3.92	

Sample ID: LR 4-16 (H302701-31)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22600	16.0	11/08/2013	ND	416	104	400	3.92	

Sample ID: LR 5-2 (H302701-32)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11400	16.0	11/08/2013	ND	416	104	400	3.92	

Sample ID: LR 5-4 (H302701-33)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17000	16.0	11/08/2013	ND	416	104	400	3.92	

Sample ID: LR 5-6 (H302701-34)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	29200	16.0	11/08/2013	ND	416	104	400	3.92	

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Received:	11/06/2013	Sampling Date:	11/04/2013
Reported:	11/11/2013	Sampling Type:	Soil
Project Name:	LIVINGSTON RIDGE SWD WATER LINE	Sampling Condition:	Cool & Intact
Project Number:	103-2020	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: LR 5-8 (H302701-35)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14800	16.0	11/08/2013	ND	416	104	400	3.92	

Sample ID: LR 5-10 (H302701-36)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15800	16.0	11/08/2013	ND	416	104	400	3.92	

Sample ID: LR 5-12 (H302701-37)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14600	16.0	11/08/2013	ND	416	104	400	3.92	

Sample ID: LR 5-14 (H302701-38)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19400	16.0	11/08/2013	ND	416	104	400	3.92	

Sample ID: LR 5-16 (H302701-39)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25600	16.0	11/08/2013	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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



Celey D. Keene, Lab Director/Quality Manager

