

MARTIN YATES, III  
1912-1985

FRANK W. YATES  
1936-1986

S.P. YATES  
1914-2008



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

JOHN A. YATES  
CHAIRMAN EMERITUS

JOHN A. YATES JR.  
CHAIRMAN OF THE BOARD  
PRESIDENT

JOHN D. PERINI  
EXECUTIVE VICE PRESIDENT  
CHIEF FINANCIAL OFFICER

JAMES S. BROWN  
CHIEF OPERATING OFFICER

November 5, 2014

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

RE: Dolores AIL Federal #2 (Livingston Ridge Water Line)  
30-015-26548  
Section 14, T22S-R31E  
Eddy County, New Mexico

Mr. Bratcher,

Yates Petroleum Corporation would like to submit the following plan of work to you regarding the releases that occurred at the above mentioned facility on 8/17/2013 (2RP-1859) and 2/4/2014 (2RP-2188). The releases occurred in the same area along a water line.

Yates proposes the following work for these releases.

- Excavate 4' vertically from the release area.
- Lay a 20 ml synthetic liner in the bottom of the excavated area (below a water and gas line).
- Backfill the area with clean, like soils.
- Yates will then re-seed the release disturbed area with the BLM Lesser Prairie Chicken seed mix June 2015.

Yates would start this work as soon as they have a crew available to do so.

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

Thank You,

Amber Cannon  
Environmental Regulatory Agent  
Yates Petroleum Corporation

Enclosure(s):

1. Site Diagram
2. Analytical Reports

DOLORES AIL FEDERAL #2  
PRODUCTION PAD

POLY LINE



OVERSPRAY

X-2-1

X-2-2

X - Dolores 2 2-1-4, 2-1-5, 2-1-6

X - Dolores 2 2-2-4, 2-2-5, 2-2-6

A  
C  
C  
E  
S  
S  
  
R  
O  
A  
D



Dolores AIL Federal #2

30-015-26548

Section 14, T22S-R31E

Eddy County, NM

Prepared by Amber Cannon  
Environmental Regulatory Agent

**\*DRAWING NOT TO SCALE\***

# DOLORES AIL FEDERAL #2 (Livingston Ridge Water Line)

## Cardinal Laboratories

Analytical Report- H302032	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
Dolores 2 2-1-4	Release Area	8/22/2013	GRAB	4'	ND	ND	ND	ND	6,400
Dolores 2 2-1-5	Release Area	8/22/2013	GRAB	5'	ND	ND	ND	ND	5,840
Dolores 2 2-1-6	Release Area	8/22/2013	GRAB	6'	ND	ND	ND	ND	6,880
Dolores 2 2-2-4	Release Area	8/22/2013	GRAB	4'	ND	ND	ND	ND	8,320
Dolores 2 2-2-5	Release Area	8/22/2013	GRAB	5'	ND	ND	ND	ND	6,720
Dolores 2 2-2-6	Release Area	8/22/2013	GRAB	6'	ND	ND	ND	ND	16,400

Analytical Report- H302419	Sample Area	Sample Date	Sample Type	Depth	Chlorides
Dolores 2 2-1-7	Release Area	10/2/2013	GRAB	7'	5,320
Dolores 2 2-1-8	Release Area	10/2/2013	GRAB	8'	5,120
Dolores 2 2-1-9	Release Area	10/2/2013	GRAB	9'	5,280
Dolores 2 2-1-10	Release Area	10/2/2013	GRAB	10'	5,280
Dolores 2 2-1-11	Release Area	10/2/2013	GRAB	11'	10,000
Dolores 2 2-2-8	Release Area	10/2/2013	GRAB	8'	13,100
Dolores 2 2-2-9	Release Area	10/2/2013	GRAB	9'	10,300

Analytical Report- H400170	Sample Area	Sample Date	Sample Type	Depth	Chlorides
Dolores 2 2-3-10	Release Area	1/14/2014	GRAB/Core Rig	10'	12,300
Dolores 2 2-3-15	Release Area	1/14/2014	GRAB/Core Rig	15'	17,200
Dolores 2 2-3-20	Release Area	1/14/2014	GRAB/Core Rig	20'	11,000
Dolores 2 2-3-25	Release Area	1/14/2014	GRAB/Core Rig	25'	1,380
Dolores 2 2-3-30	Release Area	1/14/2014	GRAB/Core Rig	30'	592
Dolores 2 2-3-35	Release Area	1/14/2014	GRAB/Core Rig	35'	960

Site Ranking is ZERO (0). Depth to Ground Water >100' (approx. 150' Chevron/Texaco Trend Map).

All results are ppm. Chlorides for documentation.



August 29, 2013

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: DOLORES AIL FEDERAL #2 (LIVINGSTON RIDGE)

Enclosed are the results of analyses for samples received by the laboratory on 08/23/13 12:45.

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/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	08/23/2013	Sampling Date:	08/22/2013
Reported:	08/29/2013	Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL #2 (LIVINGSTON)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26548	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: DOLORES 2 2-1-4 (H302032-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6400	16.0	08/28/2013	ND	416	104	400	3.92		

**Sample ID: DOLORES 2 2-1-5 (H302032-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5840	16.0	08/28/2013	ND	416	104	400	3.92		

**Sample ID: DOLORES 2 2-1-6 (H302032-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6880	16.0	08/28/2013	ND	416	104	400	3.92		

**Sample ID: DOLORES 2 2-2-4 (H302032-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8320	16.0	08/28/2013	ND	416	104	400	3.92	

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received:	08/23/2013	Sampling Date:	08/22/2013
Reported:	08/29/2013	Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL #2 (LIVINGSTON)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26548	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: DOLORES 2 2-2-5 (H302032-05)**

Chloride, SM4500Cl-B	mg/kg	Analyzed By: DW							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6720	16.0	08/28/2013	ND	416	104	400	3.92	

**Sample ID: DOLORES 2 2-2-6 (H302032-06)**

Chloride, SM4500Cl-B	mg/kg	Analyzed By: DW							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16400	16.0	08/28/2013	ND	416	104	400	3.92	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES  
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amber Cannon Project Name: Dolores All Federal #2 (Livingston Ridge)  
Company Name: Yates Petroleum Corporation Project #: 30-015-26548  
Company Address: 105 South 4th Street Project Loc: Eddy County  
City/State/Zip: Artesia, NM 88210 PO #: 103-2020  
Telephone No: 505-748-4111 or 575-513-8799 Fax No: 575-748-4131  
Sampler Signature: Amber Cannon e-mail: acannon@yatespetroleum.com  
Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only)  
ORDER #: H302032

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015E TPH: TX 1005 TX 1006 Cations (Ca, Mg, Na, K) Anions (Cl, SO <sub>4</sub> , Alkalinity) SAR / ESP / CEC Metals: As Ag Ba Cd Cr Pb Hg Se Volatiles Semivolatiles BTX 8021B/5030 or BTX 8260 RCI N.O.R.M. Chlorides SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs Standard TAT	
1	Dolores 2 2-1-4	4'	4'	8/22/2013	2:50 PM		1	X								S	X	X	X
2	Dolores 2 2-1-5	5'	5'	8/22/2013	2:52 PM		1	X								S	X	X	X
3	Dolores 2 2-1-6	6'	6'	8/22/2013	2:54 PM		1	X								S	X	X	X
4	Dolores 2 2-2-4	4'	4'	8/22/2013	2:56 PM		1	X								S	X	X	X
5	Dolores 2 2-2-5	5'	5'	8/22/2013	2:58 PM		1	X								S	X	X	X
6	Dolores 2 2-2-6	6'	6'	8/22/2013	3:00 PM		1	X								S	X	X	X

Requisitioned by:	Date	Time	Received by:	Date	Time	Received by:	Date	Time	Temperature Upon Receipt:
Amber Cannon	8/23/12		Eddie Hernandez	8/23/13	12:45				5

Special Instructions: Please put Chlorides on separate report. Thank you.

Laboratory Comments: VOCs Free of Headspace? ☒ Labels on containers? ☒ Custody seals on containers? ☒ Sample Hand Delivered? ☒ by Courier? ☒ UPS ☒ DHL ☒ FedEx ☒ Lone Star



August 29, 2013

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

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Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	08/23/2013	Sampling Date:	08/22/2013
Reported:	08/29/2013	Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL #2 (LIVINGSTON)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26548	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: DOLORES 2 2-1-4 (H302032-01)**

BTEx 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2013	ND	2.13	107	2.00	2.16	
Toluene*	<0.050	0.050	08/28/2013	ND	2.11	105	2.00	1.28	
Ethylbenzene*	<0.050	0.050	08/28/2013	ND	2.13	107	2.00	0.398	
Total Xylenes*	<0.150	0.150	08/28/2013	ND	6.37	106	6.00	0.201	
Total BTEX	<0.300	0.300	08/28/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 111 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/28/2013	ND	198	98.8	200	1.98	
DRO >C10-C28	<10.0	10.0	08/28/2013	ND	188	94.1	200	0.826	

Surrogate: 1-Chlorooctane 90.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.9 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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105 S 4th Street  
Artesia NM, 88210  
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Project Number:	30-015-26548	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: DOLORES 2 2-1-5 (H302032-02)**

BTEX 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2013	ND	2.13	107	2.00	2.16	
Toluene*	<0.050	0.050	08/28/2013	ND	2.11	105	2.00	1.28	
Ethylbenzene*	<0.050	0.050	08/28/2013	ND	2.13	107	2.00	0.398	
Total Xylenes*	<0.150	0.150	08/28/2013	ND	6.37	106	6.00	0.201	
Total BTEX	<0.300	0.300	08/28/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: CK/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/28/2013	ND	198	98.8	200	1.98	
DRO >C10-C28	<10.0	10.0	08/28/2013	ND	188	94.1	200	0.826	

Surrogate: 1-Chlorooctane 93.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.3 % 63.6-154

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Project Number:	30-015-26548	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: DOLORES 2 2-1-6 (H302032-03)**

BTX 8021B			mg/kg							
			Analyzed By: DW							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/28/2013	ND	2.13	107	2.00	2.16		
Toluene*	<0.050	0.050	08/28/2013	ND	2.11	105	2.00	1.28		
Ethylbenzene*	<0.050	0.050	08/28/2013	ND	2.13	107	2.00	0.398		
Total Xylenes*	<0.150	0.150	08/28/2013	ND	6.37	106	6.00	0.201		
Total BTX	<0.300	0.300	08/28/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 89.4-126

TPH 8015M			mg/kg							
			Analyzed By: CK/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/28/2013	ND	198	98.8	200	1.98		
DRO >C10-C28	<10.0	10.0	08/28/2013	ND	188	94.1	200	0.826		

Surrogate: 1-Chlorooctane 95.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

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Project Location:	EDDY COUNTY, NM		

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Toluene*	<0.050	0.050	08/28/2013	ND	2.11	105	2.00	1.28		
Ethylbenzene*	<0.050	0.050	08/28/2013	ND	2.13	107	2.00	0.398		
Total Xylenes*	<0.150	0.150	08/28/2013	ND	6.37	106	6.00	0.201		
Total BTEX	<0.300	0.300	08/28/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 89.4-126

TPH 8015M			mg/kg							
			Analyzed By: CK/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/28/2013	ND	198	98.8	200	1.98		
DRO >C10-C28	<10.0	10.0	08/28/2013	ND	188	94.1	200	0.826		

Surrogate: 1-Chlorooctane 88.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.6 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	08/23/2013	Sampling Date:	08/22/2013
Reported:	08/29/2013	Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL #2 (LIVINGSTON)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26548	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: DOLORES 2 2-2-5 (H302032-05)**

BTEX 8021B			mg/kg							
			Analyzed By: DW							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/28/2013	ND	2.13	107	2.00	2.16		
Toluene*	<0.050	0.050	08/28/2013	ND	2.11	105	2.00	1.28		
Ethylbenzene*	<0.050	0.050	08/28/2013	ND	2.13	107	2.00	0.398		
Total Xylenes*	<0.150	0.150	08/28/2013	ND	6.37	106	6.00	0.201		
Total BTEX	<0.300	0.300	08/28/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 108 % 89.4-126

TPH 8015M			mg/kg							
			Analyzed By: CK/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/28/2013	ND	198	98.8	200	1.98		
DRO >C10-C28	<10.0	10.0	08/28/2013	ND	188	94.1	200	0.826		

Surrogate: 1-Chlorooctane 93.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.7 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	08/23/2013	Sampling Date:	08/22/2013
Reported:	08/29/2013	Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL #2 (LIVINGSTON)	Sampling Condition:	Cool & Intact
Project Number:	30-015-26548	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: DOLORES 2 2-2-6 (H302032-06)**

BTEx 8021B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2013	ND	2.13	107	2.00	2.16	
Toluene*	<0.050	0.050	08/28/2013	ND	2.11	105	2.00	1.28	
Ethylbenzene*	<0.050	0.050	08/28/2013	ND	2.13	107	2.00	0.398	
Total Xylenes*	<0.150	0.150	08/28/2013	ND	6.37	106	6.00	0.201	
Total BTEx	<0.300	0.300	08/28/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: CK/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/28/2013	ND	198	98.8	200	1.98		
DRO >C10-C28	<10.0	10.0	08/28/2013	ND	188	94.1	200	0.826		

Surrogate: 1-Chlorooctane 93.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.2 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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

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Celey D. Keene, Lab Director/Quality Manager





ARDINAL LABORATORIES  
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Amber Cannon

Company Name: Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 505-748-4111 or 575-513-8799

Sampler Signature: Amber Cannon

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

Project Name: Dolores All Federal #2 (Livingston Ridge)

Project #: 30-015-26548

Project Loc: Eddy County

PO #: 103-2020

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

(lab use only)

ORDER #: H302032

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO<sub>3</sub>

HCl

H<sub>2</sub>SO<sub>4</sub>

NaOH

Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>

None

Other (Specify)

DW=Drinking Water SL=Sludge

GW = Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH: 418.1 8015M 8015E

TPH: TX 1005 TX 1006

Cations (Ca, Mg, Na, K)

Anions (Cl, SO<sub>4</sub>, Alkalinity)

SAR / ESP / CEC

Metals: As Ag Ba Cd Cr Pb Hg Se

Volatiles

Semivolatiles

BTEX 8021B/5030 or BTEX 8260

RCI

N.O.R.M.

Chlorides

SAR

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

Standard TAT

Preservation & # of Containers

Matrix

Analyze For:

TCLP:

TOTAL:

Special Instructions:

Please put Chlorides on separate report. Thank you.

Relinquished by:

Relinquished by:

Relinquished by:

Date

Date

Date

Time

Time

Time

Received by:

Received by:

Received by:

Date

Date

Date

Time

Time

Time

Laboratory Comments:  
Sample Containers: Inlet?  
VOCs Free of Headspace?  
Labels on containers?  
Custody seals on containers?  
Custody/seals on cooler(s)?  
Sample Hand Delivered  
by Sampler/Client Rep.?  
by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:

Temperature Upon Receipt:

Temperature Upon Receipt:

°C

°C

°C

October 10, 2013

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: DOLORES AIL FEDERAL #2 (LIVINGSTON RIDGE)

Enclosed are the results of analyses for samples received by the laboratory on 10/07/13 13:17.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/07/2013	Sampling Date:	10/02/2013
Reported:	10/10/2013	Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL #2 (LIVINGSTON)	Sampling Condition:	** (See Notes)
Project Number:	30-015-26548	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: DOLORES 2 2-1-7 (H302419-01)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	10/08/2013	ND	416	104	400	0.00	

**Sample ID: DOLORES 2 2-1-8 (H302419-02)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	10/08/2013	ND	416	104	400	0.00	

**Sample ID: DOLORES 2 2-1-9 (H302419-03)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5280	16.0	10/08/2013	ND	416	104	400	0.00	

**Sample ID: DOLORES 2 2-1-10 (H302419-04)**

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5280	16.0	10/08/2013	ND	416	104	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/07/2013	Sampling Date:	10/02/2013
Reported:	10/10/2013	Sampling Type:	Soil
Project Name:	DOLORS AIL FEDERAL #2 (LIVINGSTON)	Sampling Condition:	** (See Notes)
Project Number:	30-015-26548	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: DOLORS 2 2-1-11 (H302419-05)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	10/09/2013	ND	416	104	400	0.00	

**Sample ID: DOLORS 2 2-2-8 (H302419-06)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13100	16.0	10/09/2013	ND	416	104	400	0.00	

**Sample ID: DOLORS 2 2-2-9 (H302419-07)**

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	10/09/2013	ND	416	104	400	0.00	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



**Notes and Definitions**

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

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Celey D. Keene, Lab Director/Quality Manager



## Page 5 of 5

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

January 23, 2014

AMBER CANNON

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: DOLORES AIL FEDERAL #2 (LIVINGSTON RIDGE)

Enclosed are the results of analyses for samples received by the laboratory on 01/20/14 12:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/20/2014	Sampling Date:	01/17/2014
Reported:	01/23/2014	Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL #2 (LIVINGSTON)	Sampling Condition:	** (See Notes)
Project Number:	30-015-26548	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: DOLORES 2 2-3-10 (H400170-01)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12300	16.0	01/23/2014	ND	416	104	400	0.00	

**Sample ID: DOLORES 2 2-3-15 (H400170-02)**

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	01/23/2014	ND	416	104	400	0.00	

**Sample ID: DOLORES 2 2-3-20 (H400170-03)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11000	16.0	01/23/2014	ND	416	104	400	0.00	

**Sample ID: DOLORES 2 2-3-25 (H400170-04)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1380	16.0	01/23/2014	ND	416	104	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

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

Received:	01/20/2014	Sampling Date:	01/17/2014
Reported:	01/23/2014	Sampling Type:	Soil
Project Name:	DOLORES AIL FEDERAL #2 (LIVINGSTON)	Sampling Condition:	** (See Notes)
Project Number:	30-015-26548	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: DOLORES 2 2-3-30 (H400170-05)**

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	01/23/2014	ND	416	104	400	0.00	

**Sample ID: DOLORES 2 2-3-35 (H400170-06)**

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	01/23/2014	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Cardinal Laboratories

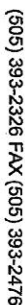
\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**ARDINAL LABORATORIES**

**Project Name:** Dolores All Federal #2 (Livingston Ridge)

Project #: 30-015-26548

Project Loc: Eddy County

PO #: 205-2020

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

e-mail: [acannon@yatespetroleum.com](mailto:acannon@yatespetroleum.com)

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