



105 SOUTH FOURTH STREET

ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (575) 748-1471

JOHN A. YATES

JOHN A. YATES JR.

JOHN D. PERINI

EXECUTIVE V.R OF MONETIZATION CHIEF FINANCIAL OFFICER

CHIEF OPERATING OFFICER

1RP-3184

RECEIVED

By OCD; Dr. Oberding at 4:10 pm, Apr 15, 2015

April 15, 2015

Dr. Tomas Oberding NMOCD District I 1625 N. French Drive

Hobbs, New Mexico 88240

Re:

Belco AIA Federal Battery

30-025-26826

Section 14, T20S-R32E Lea County, New Mexico

APPROVED

Conditionally

By OCD; Dr. Oberding at 4:17 pm, Apr 15, 2015

Stipulations:

1) RP will remain open until site abandonment

2) At abandonment, delineation under the liners will be conducted to ensure proper understanding of historic releases, at which point a new depth of excavation will be determined.

Dr. Oberding:

Yates Petroleum Corporation is submitting the enclosed work plan for the above captioned well. The plan is being submitted in response to the C-141 reports dated July 16, 2014 and August 7, 2014.

If there are no objections with the scope of work described in the plan, Yates will have a contractor begin work on or after May 1, 2015.

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

Thank you.

YATES PETROLEUM CORPORATION

Chase Settle Environmental Regulatory Agent

Enclosure(s)

Yates Petroleum Corporation

Belco AIA Federal Battery Work Plan

Section 14, T20S-R32E

Lea County, New Mexico

April 15, 2015

I. Location

The well is located approximately 33 miles east of Carlsbad, NM and 2 miles north west off of Laguna Road.

II. Background

On July 16, 2014, Yates submitted to the NMOCD District I office a Form C-141 for the release of 40 B/PW with 30 B/PW recovered. The affected area was approximately 204 feet by 28 feet within the bermed battery and an area of 35 feet by 48 feet south of the bermed battery on the previous release area (this has already been remediated with the 1RP-3337 Work Plan). Prior to any sampling taking place, on August 7, 2014, Yates submitted to the NMOCD District I office a Form C-141 for the release of 35 B/PW with 30 B/PW recovered. The affected area was 116 feet by 25 feet within the bermed battery. Both releases were from failure of the transfer pump flow line causing a release of produced water. Initial delineation samples were taken in the S1 and S2 release areas (08/22/2014) and sent to a NMOCD approved laboratory (09/03/2014, results enclosed). Subsequent sampling was conducted in the S1 and S2 sample area (09/05/2014) and sent to a NMOCD approved laboratory (09/22/2014, results enclosed). Sampling again occurred in the S1 and S2 areas (10/29/2014) and sent to a NMOCD approved laboratory (11/03/2014). results enclosed). Due to elevated chlorides, sampling was again conducted in the S1 area (02/09/2015) and sent to a NMOCD approved laboratory (02/19/2015, results enclosed). No further (deeper) sampling could be conducted due to space restraints of working within tight proximity to the production tanks.

III. Surface and Ground Water

Area surface geology is Cenozoic Quaternary. Previous core data indicates that no groundwater was discovered above 76 feet, making the site ranking for this site a ten (10). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

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

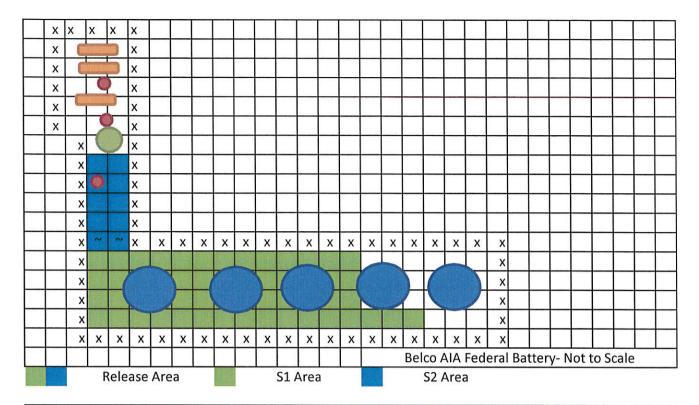
Depth to ground water 50-99'
Wellhead Protection Area > 1000'
Distance to surface water body > 1000'

IV. Soils

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

V. Scope of Work

Based on enclosed analytical results and the depth to groundwater (>76'), Yates Petroleum Corporation will excavate six (6) feet of impacted soil within S2 sample area. The S2 sample area will then be backfilled with six (6) feet of clean caliche. Due to it being impracticable to relocate the tanks and battery location, Yates will then install a 20 ml liner under the tanks and up the sidewalls of the berm, converting the battery into a lined earthen bermed battery that will prohibit migration of contaminants downward to groundwater. At the time of Plug and Abandonment, when the tanks and equipment are removed from the battery. Yates will excavate four and a half (4&1/2) feet of impacted soils that were under the liner. All excavated soil will be hauled to a NMOCD approved facility for disposal. Yates Petroleum Corporation will then reinstall the 20 ml liner over the S1 release area with six (6) inches of sand above and below the liner for cushion. The remaining excavated area will be backfilled with one and a half (1&1/2) feet of caliche and two (2) feet of like, similar topsoil allowing for vegetative repopulation of the disturbed area and protection from groundwater contamination. The TPH & BTEX are within the RRAL's for BTEX (50 ppm) and TPH (1000 ppm) for the Total Ranking Score of ten (10), no further analytical testing of TPH and/or BTEX will be conducted (all chloride analytical results are for documentation). When remediation work is completed a C-141, Final Report will be submitted to the NMOCD and request closure of the site.



H402664	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
S1-1'	Release Area	8/22/2014	Hand Auger	1'	<0.3	<10.0	23.3	12300
S1-2'	Release Area	8/22/2014	Hand Auger	2'	<0.3	<10.0	<10.0	17000
S2-1'	Release Area	8/22/2014	Hand Auger	1'	<0.3	<10.0	<10.0	4640
H402857								
S1-3'	Release Area	9/5/2014	Backhoe	3'	N/A	N/A	N/A	15000
S1-4'	Release Area	9/5/2014	Backhoe	4'	N/A	N/A	N/A	16800
S1-5'	Release Area	9/5/2014	Backhoe	5'	N/A	N/A	N/A	8800
S2-2 [']	Release Area	9/5/2014	Backhoe	2'	N/A	N/A	N/A	1680
S2-3 ¹	Release Area	9/5/2014	Backhoe	3'	N/A	N/A	N/A	1250
S2-4 [']	Release Area	9/5/2014	Backhoe	4'	N/A	N/A	N/A	1170
S2-5'	Release Area	9/5/2014	Backhoe	5'	N/A	N/A	N/A	1960
H403347								
S1-6'	Release Area	10/29/2014	Backhoe	6'	N/A	N/A	N/A	1140
S1-7'	Release Area	10/29/2014	Backhoe	7'	N/A	N/A	N/A	5120
S1-8'	Release Area	10/29/2014	Backhoe	8'	N/A	N/A	N/A	1230
S1-9'	Release Area	10/29/2014	Backhoe	91	N/A	N/A	N/A	3120
S2-6	Release Area	10/29/2014	Backhoe	6'	N/A	N/A	N/A	4400
S2-7'	Release Area	10/29/2014	Backhoe	7'	N/A	N/A	N/A	1040
S2-8 [']	Release Area	10/29/2014	Backhoe	8'	N/A	N/A	N/A	256
S2-9 ¹	Release Area	10/29/2014	Backhoe	9'	N/A	N/A	N/A	368
H500429								
S1-10 [']	Release Area	2/9/2015	Backhoe	10'	N/A	N/A	N/A	9200
S1-11'	Release Area	2/9/2015	Backhoe	11'	N/A	N/A	N/A	22800
S1-12'	Release Area	2/9/2015	Backhoe	12'	N/A	N/A	N/A	17400
S1-13'	Release Area	2/9/2015	Backhoe	13'	N/A	N/A	N/A	17800
S1-14'	Release Area	2/9/2015	Backhoe	14'	N/A	N/A	N/A	16600

Site Ranking is ten (10).

DTGW 50-99' (>76', Section 14, T20S-R32E, no groundwater present previous core data 9/17/2007)

All results are ppm. Chlorides for documentation

Released: 40 B/PW; Recovered: 30 B/PW Release Date: 07/10/2014 Released: 35 B/PW; Recovered: 30 B/PW Release Date: 08/04/2014



September 03, 2014

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

RE: BELCO AIA FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/28/14 13:00.

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 certif.html.

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 Fax To: (505) 748-4635

08/28/2014

Reported: 09/03/2014

Project Name: BELCO AIA FEDERAL BATTERY

Project Number: NONE GIVEN

Project Location: NOT GIVEN Sampling Date:

08/22/2014 Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Kathy Perez

Sample ID: S1-1' (H402664-01)

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	09/02/2014	ND	1.71	85.6	2.00	10.8	
Toluene*	<0.050	0.050	09/02/2014	ND	1.58	78.9	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/02/2014	ND	1.76	87.8	2.00	11.2	
Total Xylenes*	<0.150	0.150	09/02/2014	ND	5.24	87.3	6.00	11.1	
Total BTEX	<0.300	0.300	09/02/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 9	6 89.4-12	6						THE PARTY OF THE P
Chloride, SM4500CI-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	09/03/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ms		damenters scenario di ilita			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/30/2014	ND	177	88.7	200	9.49	
DRO >C10-C28	23.3	10.0	08/30/2014	ND	180	90.0	200	14.2	
Surrogate: 1-Chlorooctane	115	% 65.2-14	10	90 Oes 1000 sales situat 1900 sett 1900					
Surrogate: 1-Chlorooctadecane	135	% 63.6-15	14						

Cardinal Laboratories

*=Accredited Analyte

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Celey & Krene



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

08/28/2014 Reported: 09/03/2014

Project Name: BELCO AIA FEDERAL BATTERY

NONE GIVEN

Project Number:

Received:

Project Location: NOT GIVEN Sampling Date:

08/22/2014 Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Kathy Perez

Sample ID: S1-2' (H402664-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS	- Committee of the Comm				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/02/2014	ND	1.71	85.6	2.00	10.8	
Toluene*	<0.050	0.050	09/02/2014	ND	1.58	78.9	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/02/2014	ND	1.76	87.8	2.00	11.2	
Total Xylenes*	<0.150	0.150	09/02/2014	ND	5.24	87.3	6.00	11.1	
Total BTEX	<0.300	0.300	09/02/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106%	6 89.4-12	6				33 34 40 HHV		
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17000	16.0	09/03/2014	ND	432	108	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	08/30/2014	ND	177	88.7	200	9.49	
DRO >C10-C28	<10.0	10.0	08/30/2014	ND	180	90.0	200	14.2	
Surrogate: 1-Chlorooctane	111 %	65.2-14	10						
Surrogate: 1-Chlorooctadecane	134 %	63.6-15	i <i>4</i>						

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*=Accredited Analyte

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

Received:

08/28/2014

Sampling Date:

08/22/2014

Reported:

Sampling Type:

Soil

09/03/2014

Sampling Condition:

Cool & Intact

Project Name:

BELCO AIA FEDERAL BATTERY NONE GIVEN

Project Number: Project Location:

NOT GIVEN

Sample Received By:

Kathy Perez

Sample ID: S2-1' (H402664-03)

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	09/02/2014	ND	1.71	85.6	2.00	10.8	
Toluene*	<0.050	0.050	09/02/2014	ND	1.58	78.9	2.00	10.1	
Ethylbenzene*	<0.050	0.050	09/02/2014	ND	1.76	87.8	2.00	11.2	
Total Xylenes*	<0.150	0.150	09/02/2014	ND	5.24	87.3	6.00	11.1	
Total BTEX	<0.300	0.300	09/02/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	09/03/2014	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: ms					73
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/30/2014	ND	177	88.7	200	9.49	
DRO >C10-C28	<10.0	10.0	08/30/2014	ND	180	90.0	200	14.2	
Surrogate: 1-Chlorooctane	110 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	124 9	% 63.6-15	4						

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*=Accredited Analyte

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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Celeg & Frence-

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September 22, 2014

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

RE: BELCO AIA FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/12/14 15:00.

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 accred certif.html.

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.

Celes 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

09/05/2014

** (See Notes)

3.92

Jodi Henson

Soil



Analytical Results For:

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

Reported: 09/22/2014

Project Name: **BELCO AIA FEDERAL BATTERY**

Project Number: NONE GIVEN

Project Location: **NOT GIVEN**

09/12/2014 Sampling Date: Sampling Type:

> Sampling Condition: Sample Received By:

Sample ID: S1 - 3' (H402857-01)

Received:

Chloride, SM4500CI-B Analyzed By: AP mg/kg

Analyte Result Reporting Limit Analyzed Method Blank BS True Value QC % Recovery RPD Qualifier 400

Chloride 15000 16.0 09/18/2014 ND 416 104

Sample ID: S1 - 4' (H402857-02)

Chloride, SM4500CI-B mg/kg Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 16800 16.0 09/18/2014 ND 400 100 400 0.00

Sample ID: S1 - 5' (H402857-03)

Chloride, SM4500CI-B mg/kg Analyzed By: AP Analyte Result Reporting Limit Analyzed BS Method Blank % Recovery True Value QC RPD Qualifier Chloride 8800 16.0 09/18/2014 ND 400 100 400 0.00

Sample ID: S2 - 2' (H402857-04)

Chloride, SM4500CI-B Analyzed By: AP mg/kg Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 1680 09/18/2014 16.0 ND 400 100 400 0.00

Cardinal Laboratories

*=Accredited Analyte

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

Celler Direce-



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

Received: 09/12/2014 Reported: 09/22/2014

Project Name: BELCO AIA FEDERAL BATTERY

Project Number: NONE GIVEN

Project Location: NOT GIVEN Sampling Date:

BS

Sample Received By:

Sampling Type:

Soil

True Value QC

Sampling Condition:

% Recovery

** (See Notes)

RPD

Qualifier

Jodi Henson

09/05/2014

Sample ID: S2 - 3' (H402857-05)

Chloride, SM4500CI-B mg/kg

Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank

Chloride 1250 16.0 09/18/2014 ND 400 100 400 0.00

Sample ID: S2 - 4' (H402857-06)

Chloride, SM4500CI-B mg/kg Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 1170 16.0 09/18/2014 ND 400 100 400 0.00

Sample ID: S2 - 5' (H402857-07)

Chloride, SM4500CI-B mg/kg Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 1960 16.0 09/18/2014 ND 400 100 400 0.00

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Celeg & Freene



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

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Celey & Keene

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Project Name: Balco AIA Faddral Ballery Project Name: Balc				\$.		80								FIELD CODE	1402857	0	Signature:	92 M		Address: 105 South 4tt	05) 393-232 (Yates Petrole		ARDINAL LABORATORIES 101 East Marland, Hobbs, NM
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November 03, 2014

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

RE: BELCO AIA FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/30/14 11:00.

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

Cardinal Laboratories is 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

Fax To:

(505) 748-4635

Received:

10/30/2014

Sampling Date:

10/29/2014

Reported:

11/03/2014

Sampling Type:

Soil

Project Name:

BELCO AIA FEDERAL BATTERY

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sample Received By:

Kathy Perez

Sample ID: S1-6' (H403347-01)

Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	10/31/2014	ND	400	100	400	3.92	
Sample ID: S1-7' (H40334	47-02)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	10/31/2014	ND	400	100	400	3.92	
Sample ID: S1-8' (H40334	47-03)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	10/31/2014	ND	400	100	400	3.92	
Sample ID: S1-9' (H4033	47-04)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	10/31/2014	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Fax To:

(505) 748-4635

Received:

10/30/2014

Sampling Date:

10/29/2014

Reported:

11/03/2014

Sampling Type:

Soil

Project Name:

BELCO AIA FEDERAL BATTERY

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Kathy Perez

Project Location:

NOT GIVEN

4400

Sample ID: S2-6' (H403347-05)

Chloride,	SM4500CI-B	
-----------	------------	--

mg/kg

Analyzed By: AP

Analyte

Result Reporting Limit

16.0

Reporting Limit

Reporting Limit

Reporting Limit

16.0

Analyzed 10/31/2014

Analyzed

Analyzed

Analyzed

10/31/2014

Method Blank ND

BS 400 % Recovery 100

True Value QC 400

RPD

Qualifier

Sample ID: S2-7' (H403347-06)

Analyte

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Method Blank BS % Recovery

RPD

3.92

3.92

Qualifier

Chloride

Chloride

Result 1040

16.0 10/31/2014 ND

400

100

True Value QC 400

Sample ID: S2-8' (H403347-07)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Method Blank

BS

% Recovery True Value QC

RPD

Qualifier

Chloride

Chloride

Result 256

Result

368

16.0 10/31/2014 ND

400

100

400

3.92

Sample ID: S2-9' (H403347-08)

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Method Blank ND

BS 400

% Recovery

100

True Value QC

400

RPD 3.92

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celient treene

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 5



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

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Cely D. Kenne-

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	Date	Colo	10-30-14	Date												FIELD CODE		247		S. S	575-748-4171	Artesia, NM 88210	Company Address: 105 South 4th Street	Sections of Section 1	Comp: (505) 393-2326 Yates Petroleum Comparition	Chase Settle	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240
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February 19, 2015

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: BELCO AIA FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 02/13/15 11:10.

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

Cardinal Laboratories is 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.

Celes 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 Fax To: (505) 748-4635

Received:

02/13/2015

Sampling Date:

02/09/2015

Reported:

02/19/2015

Sampling Type:

Soil

Project Name:

BELCO AIA FEDERAL #1

Sampling Condition:

** (See Notes)

Project Number:

NONE GIVEN

Sample Received By:

Celey D. Keene

Project Location:

NOT GIVEN

Sample ID: S1- 10' (H500429-01)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Result Reporting Limit

Analyzed

Method Blank

BS

10

True Value QC

RPD

3.92

Chloride

9200

22800

17400

17800

16.0

16.0

02/17/2015

ND

416

104

% Recovery

400

Qualifier

Sample ID: S1- 11' (H500429-02)

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Chloride

Chloride

Chloride

Result R

Reporting Limit Analyzed

Method Blank ND BS 416 % Recovery

104

True Value QC

400

Qualifier

RPD Q 3.92

Sample ID: S1- 12' (H500429-03)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Result Reporting Limit

16.0

16.0

Analyzed 02/17/2015

Analyzed

02/17/2015

02/17/2015

Method Blank

ND

BS 416

% Recovery

True Value QC

RPD

3.92

Qualifier

Sample ID: S1- 13' (H500429-04)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte Result Reporting Limit

/maryzea zyr.

Method Blank

BS 416 % Recovery

104

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 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

Celeg & Kene-

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 5



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

Fax To:

(505) 748-4635

Received:

02/13/2015

Reported:

02/19/2015

Project Name: Project Number: BELCO AIA FEDERAL #1

Project Location:

Analyte

NONE GIVEN

Sampling Date:

02/09/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Celey D. Keene

Sample ID: S1- 14' (H500429-05)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyzed

Method Blank

BS

% Recovery

True Value QC

RPD 3.92 Qualifier

Chloride

Result 16600

16.0 02/1

Reporting Limit

02/17/2015

ND

416

104

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 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 value of 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.

Celeg Drune-

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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