

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Yates Petroleum Corporation	Contact Chase Settle
Address 104 S. 4 th Street, Artesia, NM 88210	Telephone No. 575-748-4171
Facility Name Belco AIA Federal Battery	Facility Type Battery

Surface Owner Federal	Mineral Owner Federal	API No. 30-025-26826
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LOCATION OF RELEASE

Unit Letter J	Section 14	Township 20S	Range 32E	Feet from the 1980'	North/South Line South	Feet from the 1980'	East/West Line East	County Lea
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Latitude 32.57120 Longitude -103.73433

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 35 B/PW	Volume Recovered 30 B/PW
Source of Release Failure of transfer pump hose	Date and Hour of Occurrence 08/04/2014; 9:30 AM	Date and Hour of Discovery 08/04/2014; 9:30 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Dr. Tomas Oberding, Jim Amos	
By Whom? Bob Asher	Date and Hour 08/05/2014; 8:18 AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	



If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*

A failure occurred with a transfer pump hose causing a release of produced water. Wells were shut in, transfer pump was turned off, and vacuum truck was dispatched to remove standing fluid.

Describe Area Affected and Cleanup Action Taken.* An approximate area of 116' X 25' was impacted within the bermed battery around the tanks. Vacuum truck was called to remove standing fluid and backhoe called to remove impacted soils. Excavated soil will be hauled to a NMOCD approved facility. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX (chlorides for documentation). If initial analytical results for TPH & BTEX are under RRAL's (site ranking 10) a Final Report, C-141 will be submitted to the OCD requesting closure. If analytical results are above the RRAL's a work plan will be submitted to NMOCD. **Depth to Ground Water: 50-99' (>76', Section 14, T20S-R32E, no groundwater present above 76' per previous core data 09/17/2007), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 10. Based on completion of Work Plan (scope of work, analytical data, and release sketch enclosed with Work Plan) dated and approved on April 15, 2015, Yates Petroleum Corporation requests closure.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Chase Settle	Approved by Environmental Specialist: 	
Title: NM Environmental Regulatory Agent	Approval Date: 07/15/2015	Expiration Date: ///
E-mail Address: csettle@yatespetroleum.com	Conditions of Approval: nTO1419737634 Attached <input type="checkbox"/> pTO1419737905 ogrid 25575 1RP-3184	
Date: 06/29/2014	Phone: 575-748-4171	RP will remain open until site abandonment 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. Geotagged photos of remediation required. Ensure BLM concurrence/approval.

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

JOHN A. YATES
CHAIRMAN OF THE BOARD

JOHN A. YATES JR.
PRESIDENT

JOHN D. PERINI
EXECUTIVE V.P. OF MONETIZATION
CHIEF FINANCIAL OFFICER

JAMES S. BROWN
CHIEF OPERATING OFFICER

IRP-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

APPROVED

Conditionally

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

Re: Belco AIA Federal Battery
30-025-26826
Section 14, T20S-R32E
Lea County, New Mexico

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.

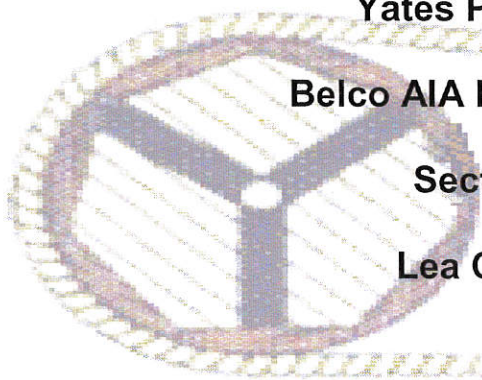
YATES PETROLEUM CORPORATION

Chase Settle
Environmental Regulatory Agent

Enclosure(s)

KATHY H. PORTER
SECRETARY

DENNIS G. KINSEY
TREASURER



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:

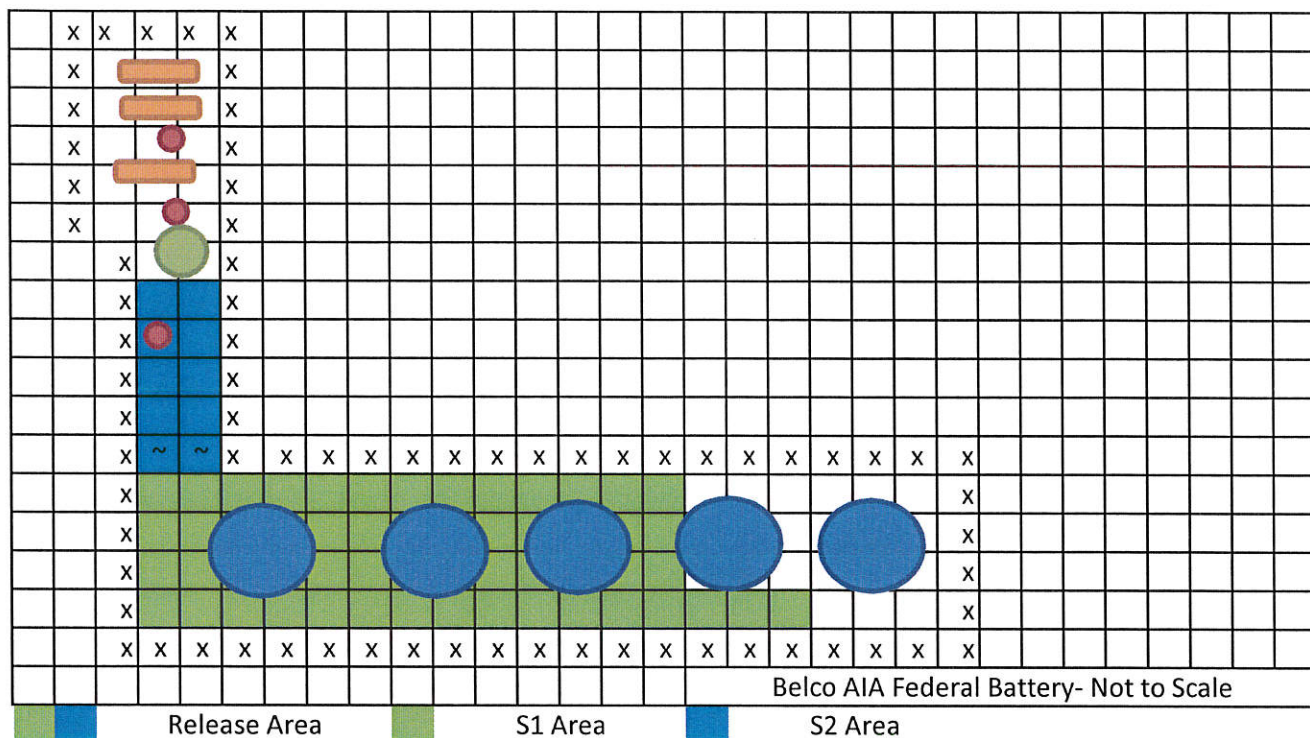
Depth to ground water	50-99'
Wellhead Protection Area	> 1000'
Distance to surface water body	> 1000'

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 (4½) 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 re-install 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 (1½) 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.



	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
H402664								
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'	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	9'	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'	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_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/28/2014	Sampling Date:	08/22/2014
Reported:	09/03/2014	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		

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

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12300	16.0	09/03/2014	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 135 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/28/2014	Sampling Date:	08/22/2014
Reported:	09/03/2014	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		

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

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 (PIE) 106 % 89.4-126

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	09/03/2014	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 134 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 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: Cool & Intact
Sample Received By: Kathy Perez

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

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 63.6-154

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*=Accredited Analyte

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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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Chase Settle

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4171

Sample Signature: [Signature]

e-mail: csettle@yatespetroleum.com

Fax No: 575-748-4131

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Project Name: Belco AIA Federal Battery

Project #:

Project Loc: Belco AIA Federal Battery

PO #: 205750

LAB # (lab use only)		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT	
01	S1-1'			8/22/2014	11:30 AM		1	X								S	X														X	X
02	S1-2'			8/22/2014	11:30 AM		1	X								S	X														X	X
03	S2-1'			8/22/2014	12:30 PM		1	X								S	X														X	X
Special Instructions:																																
Relinquished by:		Date	Time	Received by:																									Date	Time		
Relinquished by:		8-28-14		[Signature]																									8/28/14	1:00		
Relinquished by:		Date	Time	Received by:																									Date	Time		
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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 accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 09/12/2014
 Reported: 09/22/2014
 Project Name: BELCO AIA FEDERAL BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 09/05/2014
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

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

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15000	16.0	09/18/2014	ND	416	104	400	3.92	

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

Chloride, SM4500Cl-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, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% 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, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	09/18/2014	ND	400	100	400	0.00	

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.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/12/2014	Sampling Date:	09/05/2014
Reported:	09/22/2014	Sampling Type:	Soil
Project Name:	BELCO AIA FEDERAL BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

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

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	09/18/2014	ND	400	100	400	0.00	

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

Chloride, SM4500Cl-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, SM4500Cl-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	

Cardinal Laboratories

*=Accredited Analyte

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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

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Chase Settle

Project Name: Belco AIA Federal Battery

Company (505) 393-2326 Yates Petroleum Corporation

Project #: Belco AIA Federal Battery

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4171

Fax No: 575-748-4131

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: [Signature]

e-mail: csettle@yatespetroleum.com

PO #: 205750

(lab use only)

ORDER #:

H402857

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers							Matrix	Analyze For:														RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
								Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR		

1	S1-3'			9/5/2014	11:00 AM		1									S															X	
2	S1-4'			9/5/2014	11:00 AM		1									S															X	
3	S1-5'			9/5/2014	11:00 AM		1									S															X	
4	S2-2'			9/5/2014	12:00 PM		1									S															X	
5	S2-3'			9/5/2014	12:00 PM		1									S															X	
6	S2-4'			9/5/2014	12:00 PM		1									S															X	
7	S2-5'			9/5/2014	12:00 PM		1									S															X	

Special Instructions:



Relinquished by: [Signature] Date: 9-12-14 Time: 3:00 pm Received by: [Signature] Date: 9/12/14 Time: 3:00 pm

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

Laboratory Comments:
Sample Containers Intact? ☒
VOCs Free of Headspace? ☒
Labels on container(s) ☒
Custody seals on container(s) ☒
Custody seals on cooler(s) ☒
Sample Hand Delivered by Sampler/Client Rep. ? ☒
by Courier? ☒ UPS ☒ DHL ☒ FedEx ☒ Lone Star
Temperature Upon Receipt: 21.4 °C



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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/30/2014
 Reported: 11/03/2014
 Project Name: BELCO AIA FEDERAL BATTERY
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 10/29/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

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

Chloride, SM4500Cl-B			mg/kg		Analyzed 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' (H403347-02)

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	10/31/2014	ND	400	100	400	3.92		

Sample ID: S1-8' (H403347-03)

Chloride, SM4500Cl-B			mg/kg		Analyzed 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' (H403347-04)

Chloride, SM4500Cl-B			mg/kg		Analyzed 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

Analytical Results For:

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		

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	10/31/2014	ND	400	100	400	3.92	

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	10/31/2014	ND	400	100	400	3.92	

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/31/2014	ND	400	100	400	3.92	

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	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

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



ARDEN LABORATORIES
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Chase Settle

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4171

Sampler Signature:

(lab use only)

ORDER #: H403347

Fax No: 575-748-4131

e-mail: csettle@yatespetroleum.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

PO #: 205750

Project Name: Belco AIA Federal Battery

Project #:

Project Loc: Belco AIA Federal Battery

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT	
	S1-6'			10/29/2014	1:00 PM		1																											
	S1-7'			10/29/2014	1:00 PM		1																											
	S1-8'			10/29/2014	1:00 PM		1																											
	S1-9'			10/29/2014	1:00 PM		1																											
	S2-6'			10/29/2014	2:00 PM		1																											
	S2-7'			10/29/2014	2:00 PM		1																											
	S2-8'			10/29/2014	2:00 PM		1																											
	S2-9'			10/29/2014	2:00 PM		1																											

Special Instructions:

Relinquished by: Date: 10-30-14 Time: 11:00 Received by: Date: 10/30/14 Time: 11:00

Relinquished by: Date: Time: Received by: ELOT: Date: Time:

Relinquished by: Date: Time: Received by: ELOT: Date: Time:

Laboratory Comments:

Sample Containers Intact? ☒ Y ☐ N

VOCs Free of Headspace? ☒ Y ☐ N

Labels on container(s) ☒ Y ☐ N

Custody seals on container(s) ☒ Y ☐ N

Sample Hand Delivered ☒ Y ☐ N

by Counter? ☒ Y ☐ N

by Sampler/Client Rep. ? ☒ Y ☐ N

UPS ☒ Y ☐ N

DHL ☒ Y ☐ N

FedEx ☒ Y ☐ N

Lone Star ☒ Y ☐ N

Temperature Upon Receipt: 5.8 °C

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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	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	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	02/17/2015	ND	416	104	400	3.92	

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

Chloride, SM4500CI-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22800	16.0	02/17/2015	ND	416	104	400	3.92	

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

Chloride, SM4500CI-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17400	16.0	02/17/2015	ND	416	104	400	3.92	

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

Chloride, SM4500CI-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17800	16.0	02/17/2015	ND	416	104	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/13/2015
Reported: 02/19/2015
Project Name: BELCO AIA FEDERAL #1
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/09/2015
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Celey D. Keene

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

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16600	16.0	02/17/2015	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Chase Settle

Company: (505) 393-2326 Yates Petroleum Corporation

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 575-748-4171

Sampler Signature:

e-mail: csettle@yatespetroleum.com

Fax No: 575-748-4131

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Project Name: Belco AIA Federal Battery

Project #:

Project Loc: Belco AIA Federal Battery

PO #: 205750

(lab use only)
ORDER #: H500429

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides	SAR	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT		
01	S1-10'			2/9/2015	1:30 PM		1										S															X	X
02	S1-11'			2/9/2015	1:30 PM		1										S															X	X
03	S1-12'			2/9/2015	1:30 PM		1										S															X	X
04	S1-13'			2/9/2015	1:30 PM		1										S															X	X
05	S1-14'			2/9/2015	1:30 PM		1										S															X	X

Special Instructions:

Reinquired by: Date: 2/13/15 Time: 11:10 AM Received by: Date: 2/13/15 Time: 11:10 AM

Reinquired by: Date: Time: Received by: Date: Time:

Reinquired by: Date: Time: Received by: Date: Time:

Laboratory Comments:

Sample Containers Intact? ☒ VOCs Free of Headspace? ☒ Labels on container(s) ☒ Custody seals on container(s) ☒ Sample Hand Delivered ☒ by Sampler/Client Rep. ? ☒ by Courier? ☒ UPS ☒ DHL ☒ FedEx ☒ Lone Star ☒ Temperature Upon Receipt: 19.6 °C