

MARTIN YATES, III
1912-1985

FRANK W. YATES
1936-1986

S.P. YATES
1914-2008



JOHN A. YATES SR.
CHAIRMAN EMERITUS

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DOUGLAS E. BROOKS
PRESIDENT / CEO

105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118
TELEPHONE (575) 748-1471

June 20, 2016

Mr. Mike Bratcher/ Ms. Heather Patterson
NMOCD District II
811 S. First St.
Artesia, NM 88210

Re: Allison CQ Federal #10 Battery
30-015-26195
Section 13, T19S-R24E
Eddy County, New Mexico

Dear Mr. Bratcher / Ms. Patterson,

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 report dated October 9, 2015.

If there are no objections with the scope of work described in the plan, Yates will have a contractor begin work on or after July 5, 2016.

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

Allison CQ Federal #10 Battery Work Plan

Section 13, T19S-R24E

Eddy County, New Mexico

June 20, 2016

2RP-3325

I. Location

Take HWY 285 south of Artesia for 13 miles, then turn west on Rocking R Red Road and go 8.1 miles before turning north on lease road for .75 mile to the location.

II. Background

On October 9, 2015, Yates submitted to the NMOCD District II office a Form C-141 for the release of 35 B/PW with 5 B/PW recovered. The affected area is approximately 225 feet by 140 feet behind the bermed battery running north to south. Initial delineation samples were taken (11/19/2015) and sent to a NMOCD approved laboratory (11/30/2015, results enclosed). Further sampling was conducted in the S4 and S5 release areas (12/04/2015) and sent to a NMOCD approved laboratory (12/28/2015, results enclosed). Continued sampling was conducted (1/19/2016) and sent to a NMOCD approved laboratory (02/02/2016, results enclosed). Additional sampling was conducted in the S3 sample area (02/09/2016) and sent to a NMOCD approved laboratory (02/24/2016, results enclosed)

III. Surface and Ground Water

Area surface geology is Paleozoic Permian. The ChevronTexaco Trend Map displays at this location (Section 13, T19S-R24E) that depth to groundwater is approximately 240' feet making the site ranking for this site a zero (0). Watercourses in the area are dry except for infrequent flows in response to major precipitation events.

The ranking for this site is zero (0) based on the as following:

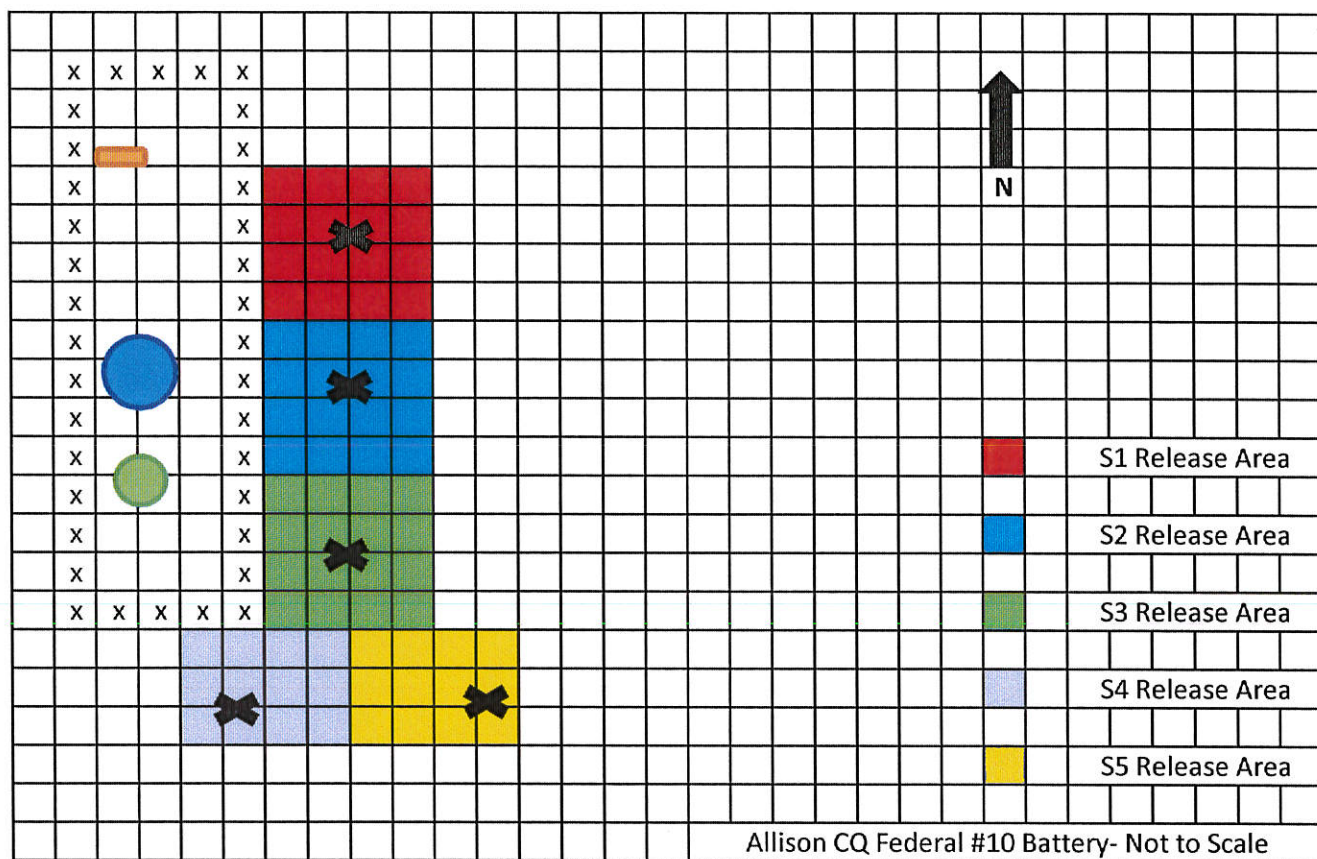
Depth to ground water	> 100'
Wellhead Protection Area	> 1000'
Distance to surface water body	> 1000'

IV. Soils

The area consists of soils that are sand 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, the depth to ground water (240'), a decrease in chloride concentration, and one (1) foot already excavated and hauled to disposal, Yates Petroleum Corporation proposes to excavate three (3) feet in all release areas, hauling excavated soils to an NMOCD approved facility for disposal. Yates will then install a 20 ml synthetic liner to prohibit percolation of moisture deeper into the subsurface, restricting chloride migration from penetrating deeper towards groundwater or rising back to the surface. Yates will then backfill the excavated area with two (2) feet of caliche, followed by two (2) feet of topsoil to allow for vegetative repopulation of the release site. The TPH & BTEX are within the RRAL's for BTEX (50 ppm) and TPH (5000 ppm) for the Total Ranking Score of zero (0) in the release area, 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 requesting closure of the site.



Site Ranking is ten (0). DTGW >100' (approximately 240', Section 13, T19S-R24E, per Trend Map)

All results are ppm. Chlorides for documentation

Released: 30 B/PW; Recovered: 5 B/PW Release Date: 09/28/2015 2RP-3325

Sample ID	Analytical ID	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
S1-1'	H503078	11/19/2015	Backhoe	1'	0.188	<10.0	<10.0	11100
S1-2'	H503078	11/19/2015	Backhoe	2'	<0.3	<10.0	<10.0	13300
S1-3'	H503078	11/19/2015	Backhoe	3'	<0.3	<10.0	<10.0	13600
S1-4'	1512603	11/19/2015	Backhoe	4'	N/A	N/A	N/A	10000
S1-5'	1512603	11/19/2015	Backhoe	5'	N/A	N/A	N/A	6700
S1-6'	1512603	11/19/2015	Backhoe	6'	N/A	N/A	N/A	3100
S1-7'	1601861	1/19/2016	Backhoe	7'	N/A	N/A	N/A	4300
S1-9'	1601861	1/19/2016	Backhoe	9'	N/A	N/A	N/A	930
S1-11'	1601861	1/19/2016	Backhoe	11'	N/A	N/A	N/A	670
S1-13'	1601861	1/19/2016	Backhoe	13'	N/A	N/A	N/A	220
S2-1'	H503078	11/19/2015	Backhoe	1'	<0.3	<10.0	<10.0	12500
S2-2'	H503078	11/19/2015	Backhoe	2'	<0.3	<10.0	<10.0	9200
S2-3'	H503078	11/19/2015	Backhoe	3'	<0.3	<10.0	<10.0	7860
S2-4'	1512603	11/19/2015	Backhoe	4'	N/A	N/A	N/A	2700
S2-5'	1512603	11/19/2015	Backhoe	5'	N/A	N/A	N/A	3900
S2-6'	1512603	11/19/2015	Backhoe	6'	N/A	N/A	N/A	6200
S2-7'	1601861	1/19/2016	Backhoe	7'	N/A	N/A	N/A	1700
S2-9'	1601861	1/19/2016	Backhoe	9'	N/A	N/A	N/A	120
S2-11'	1601861	1/19/2016	Backhoe	11'	N/A	N/A	N/A	120

S2-13'	1601861	1/19/2016	Backhoe	13'	N/A	N/A	N/A	74
S3-1'	H503078	11/19/2015	Backhoe	1'	<0.3	<10.0	<10.0	784
S3-2'	H503078	11/19/2015	Backhoe	2'	<0.3	<10.0	<10.0	2200
S3-3'	H503078	11/19/2015	Backhoe	3'	<0.3	<10.0	<10.0	2200
S3-4'	1512603	11/19/2015	Backhoe	4'	N/A	N/A	N/A	2200
S3-5'	1512603	11/19/2015	Backhoe	5'	N/A	N/A	N/A	4800
S3-6'	1512603	11/19/2015	Backhoe	6'	N/A	N/A	N/A	1200
S3-7'	1601861	1/19/2016	Backhoe	7'	N/A	N/A	N/A	5600
S3-9'	1601861	1/19/2016	Backhoe	9'	N/A	N/A	N/A	1500
S3-11'	1601861	1/19/2016	Backhoe	11'	N/A	N/A	N/A	1200
S3-13'	1601861	1/19/2016	Backhoe	13'	N/A	N/A	N/A	1800
S3-15'	1602542	2/9/2016	Trackhoe	15'	N/A	N/A	N/A	3600
S3-17'	1602542	2/9/2016	Trackhoe	17'	N/A	N/A	N/A	700
S3-19'	1602542	2/9/2016	Trackhoe	19'	N/A	N/A	N/A	ND
S4-1'	H503078	11/19/2015	Backhoe	1'	<0.3	<10.0	<10.0	12500
S4-2'	H503078	11/19/2015	Backhoe	2'	<0.3	<10.0	<10.0	8260
S4-3'	H503078	11/19/2015	Backhoe	3'	<0.3	<10.0	<10.0	8000
S4-4'	1512603	12/4/2015	Backhoe	4'	N/A	N/A	N/A	8200
S4-5'	1512603	12/4/2015	Backhoe	5'	N/A	N/A	N/A	9200
S4-6'	1512603	12/4/2015	Backhoe	6'	N/A	N/A	N/A	9300
S4-7'	1601861	1/19/2016	Backhoe	7'	N/A	N/A	N/A	8500
S4-9'	1601861	1/19/2016	Backhoe	9'	N/A	N/A	N/A	2600
S4-11'	1601861	1/19/2016	Backhoe	11'	N/A	N/A	N/A	1000
S4-13'	1601861	1/19/2016	Backhoe	13'	N/A	N/A	N/A	230
S5-1'	H503078	11/19/2015	Backhoe	1'	<0.3	<10.0	<10.0	3640
S5-2'	H503078	11/19/2015	Backhoe	2'	<0.3	<10.0	<10.0	480
S5-3'	H503078	11/19/2015	Backhoe	3'	<0.3	<10.0	<10.0	1780
S5-4'	1512603	12/4/2015	Backhoe	4'	N/A	N/A	N/A	7700
S5-5'	1512603	12/4/2015	Backhoe	5'	N/A	N/A	N/A	8300
S5-6'	1512603	12/4/2015	Backhoe	6'	N/A	N/A	N/A	4900
S5-7'	1601861	1/19/2016	Backhoe	7'	N/A	N/A	N/A	640
S5-9'	1601861	1/19/2016	Backhoe	9'	N/A	N/A	N/A	1100
S5-11'	1601861	1/19/2016	Backhoe	11'	N/A	N/A	N/A	1200
S5-13'	1601861	1/19/2016	Backhoe	13'	N/A	N/A	N/A	81

December 14, 2015

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: ALLISON CQ FEDERAL #10

Enclosed are the results of analyses for samples received by the laboratory on 11/20/15 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/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: 11/20/2015
Reported: 12/14/2015
Project Name: ALLISON CQ FEDERAL #10
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 11/19/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-1' (H503078-01)

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	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	0.188	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEX	<0.300	0.300	11/24/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 73.6-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11100	16.0	11/24/2015	ND	416	104	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	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	

Surrogate: 1-Chlorooctane 98.8 % 35-147

Surrogate: 1-Chlorooctadecane 106 % 28-171

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:	11/20/2015	Sampling Date:	11/19/2015
Reported:	12/14/2015	Sampling Type:	Soil
Project Name:	ALLISON CQ FEDERAL #10	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S1-2' (H503078-02)

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	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEx	<0.300	0.300	11/24/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13300	16.0	11/24/2015	ND	432	108	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	11/24/2015	ND	195	97.3	200	1.57		
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83		

Surrogate: 1-Chlorooctane 97.2 % 35-147

Surrogate: 1-Chlorooctadecane 107 % 28-171

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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: 11/20/2015
 Reported: 12/14/2015
 Project Name: ALLISON CQ FEDERAL #10
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 11/19/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S1-3' (H503078-03)

BTX 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	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTX	<0.300	0.300	11/24/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 99.2 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13600	16.0	11/24/2015	ND	432	108	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	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	

Surrogate: 1-Chlorooctane 91.7 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

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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: 11/20/2015
Reported: 12/14/2015
Project Name: ALLISON CQ FEDERAL #10
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 11/19/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2-1' (H503078-04)

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	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEX	<0.300	0.300	11/24/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 73.6-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12500	16.0	11/24/2015	ND	432	108	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	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	

Surrogate: 1-Chlorooctane 102 % 35-147

Surrogate: 1-Chlorooctadecane 106 % 28-171

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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: 11/20/2015
Reported: 12/14/2015
Project Name: ALLISON CQ FEDERAL #10
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 11/19/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2-2' (H503078-05)

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	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEX	<0.300	0.300	11/24/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9200	16.0	11/24/2015	ND	432	108	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	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	

Surrogate: 1-Chlorooctane 94.6 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

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:	11/20/2015	Sampling Date:	11/19/2015
Reported:	12/14/2015	Sampling Type:	Soil
Project Name:	ALLISON CQ FEDERAL #10	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S2-3' (H503078-06)

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	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEX	<0.300	0.300	11/24/2015	ND					

Surrogate: 4-Bromofluorobenzene (PII) 98.0 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7860	16.0	11/24/2015	ND	432	108	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	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	

Surrogate: 1-Chlorooctane 97.7 % 35-147

Surrogate: 1-Chlorooctadecane 106 % 28-171

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Analytical Results For:

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

Received: 11/20/2015
Reported: 12/14/2015
Project Name: ALLISON CQ FEDERAL #10
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 11/19/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S3-1' (H503078-07)

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	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEX	<0.300	0.300	11/24/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	11/24/2015	ND	432	108	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	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	

Surrogate: 1-Chlorooctane 86.3 % 35-147

Surrogate: 1-Chlorooctadecane 92.3 % 28-171

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Received: 11/20/2015
Reported: 12/14/2015
Project Name: ALLISON CQ FEDERAL #10
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 11/19/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S3-2' (H503078-08)

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	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEX	<0.300	0.300	11/24/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 73.6-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2200	16.0	11/24/2015	ND	432	108	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	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	

Surrogate: 1-Chlorooctane 93.5 % 35-147

Surrogate: 1-Chlorooctadecane 101 % 28-171

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Received: 11/20/2015
Reported: 12/14/2015
Project Name: ALLISON CQ FEDERAL #10
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 11/19/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S3-3' (H503078-09)

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	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEX	<0.300	0.300	11/24/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 73.6-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	11/24/2015	ND	432	108	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	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	

Surrogate: 1-Chlorooctane 91.2 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

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Received: 11/20/2015
Reported: 12/14/2015
Project Name: ALLISON CQ FEDERAL #10
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 11/19/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S4-1' (H503078-10)

BTX 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	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTX	<0.300	0.300	11/24/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12500	16.0	11/24/2015	ND	432	108	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	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	

Surrogate: 1-Chlorooctane 90.7 % 35-147

Surrogate: 1-Chlorooctadecane 98.6 % 28-171

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 Received: 11/20/2015
 Reported: 12/14/2015
 Project Name: ALLISON CQ FEDERAL #10
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 11/19/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S4-2' (H503078-11)

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	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEX	<0.300	0.300	11/24/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8260	16.0	11/24/2015	ND	432	108	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						

Surrogate: 1-Chlorooctane 97.1 % 35-147

Surrogate: 1-Chlorooctadecane 101 % 28-171

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Fax To: (505) 748-4635

Received: 11/20/2015
Reported: 12/14/2015
Project Name: ALLISON CQ FEDERAL #10
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 11/19/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S4-3' (H503078-12)

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	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEX	<0.300	0.300	11/24/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 73.6-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	11/24/2015	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						

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	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	

Surrogate: 1-Chlorooctane 94.9 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

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Fax To: (505) 748-4635

Received: 11/20/2015
Reported: 12/14/2015
Project Name: ALLISON CQ FEDERAL #10
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 11/19/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S5-1' (H503078-13)

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	11/24/2015	ND	2.01	101	2.00	8.60		
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2		
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4		
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5		
Total BTEX	<0.300	0.300	11/24/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3640	16.0	11/24/2015	ND	432	108	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	11/24/2015	ND	195	97.3	200	1.57		
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83		

Surrogate: 1-Chlorooctane 93.2 % 35-147

Surrogate: 1-Chlorooctadecane 99.3 % 28-171

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Received: 11/20/2015
Reported: 12/14/2015
Project Name: ALLISON CQ FEDERAL #10
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 11/19/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S5-2' (H503078-14)

BTX 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	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTX	<0.300	0.300	11/24/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 73.6-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	11/24/2015	ND	432	108	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	11/24/2015	ND	195	97.3	200	1.57	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	183	91.6	200	4.83	

Surrogate: 1-Chlorooctane 101 % 35-147

Surrogate: 1-Chlorooctadecane 108 % 28-171

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Fax To: (505) 748-4635

Received: 11/20/2015
Reported: 12/14/2015
Project Name: ALLISON CQ FEDERAL #10
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 11/19/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S5-3' (H503078-15)

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	11/24/2015	ND	2.01	101	2.00	8.60	
Toluene*	<0.050	0.050	11/24/2015	ND	2.00	99.9	2.00	11.2	
Ethylbenzene*	<0.050	0.050	11/24/2015	ND	2.12	106	2.00	15.4	
Total Xylenes*	<0.150	0.150	11/24/2015	ND	6.39	106	6.00	15.5	
Total BTEx	<0.300	0.300	11/24/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1780	16.0	11/24/2015	ND	432	108	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						

Surrogate: 1-Chlorooctane 92.3 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed 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



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Chase Settle

Comp: (505) 393-2321 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

Report Format: ☒ Standard

☒ Standard☐ TRRP☐ NPDES

Project Name: Allison CQ Federal #1-~~#10~~

Project #:

Project Loc: Allison CQ Federal #1-#90

PO #: 205.0750

(lab use only)					
Sampler Signature:					
ORDER #:	H503078				
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 8015S
					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 R621B/5030 or BTEX 8260
					RCI
					N.O.R.M.
					Chlorides
					SAR
					RUSH TAT (Pre-Schedule) 24, 48, 72 hrs
					Standard TAT

Laboratory Comments:

Sample Containers Intact? _____

VOCS Free of Headspace? _____

Labels on container(s)? _____

Custody seals on container(s)? _____

Sample Hand Delivered by Sampler/Clerk Rep.? _____

Temperature Upon Receipt: _____ °C



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 28, 2015

Chase Settle
Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4195
FAX

RE: Allison CQ Federal #10

OrderNo.: 1512603

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 15 sample(s) on 12/11/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1512603

Date Reported: 12/28/2015

CLIENT: Yates Petroleum Corporation
Project: Allison CQ Federal #10

Lab Order: 1512603

Lab ID: 1512603-001

Collection Date: 11/19/2015 8:13:00 AM

Client Sample ID: S1-4'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	10000	750		mg/Kg	500	12/17/2015 12:32:09 PM	22833

Lab ID: 1512603-002

Collection Date: 11/19/2015 8:16:00 AM

Client Sample ID: S1-5'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	6700	300		mg/Kg	200	12/17/2015 12:44:34 PM	22833

Lab ID: 1512603-003

Collection Date: 11/19/2015 8:19:00 AM

Client Sample ID: S1-6'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	3100	150		mg/Kg	100	12/17/2015 1:09:23 PM	22833

Lab ID: 1512603-004

Collection Date: 11/19/2015 8:34:00 AM

Client Sample ID: S2-4'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	2700	150		mg/Kg	100	12/17/2015 2:23:51 PM	22833

Lab ID: 1512603-005

Collection Date: 11/19/2015 8:38:00 AM

Client Sample ID: S2-5'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	3900	150		mg/Kg	100	12/17/2015 2:36:15 PM	22833

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation
Project: Allison CQ Federal #10

Lab Order: 1512603

Lab ID: 1512603-006

Collection Date: 11/19/2015 8:42:00 AM

Client Sample ID: S2-6'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	6200	300		mg/Kg	200	12/17/2015 2:48:40 PM	22833

Lab ID: 1512603-007

Collection Date: 11/19/2015 8:55:00 AM

Client Sample ID: S3-4'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	2200	75		mg/Kg	50	12/17/2015 3:01:05 PM	22833

Lab ID: 1512603-008

Collection Date: 11/19/2015 8:57:00 AM

Client Sample ID: S3-5'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	4800	150		mg/Kg	100	12/17/2015 3:13:29 PM	22833

Lab ID: 1512603-009

Collection Date: 11/19/2015 9:01:00 AM

Client Sample ID: S3-6'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	1200	30		mg/Kg	20	12/16/2015 4:44:07 PM	22833

Lab ID: 1512603-010

Collection Date: 12/4/2015 8:20:00 AM

Client Sample ID: S4-4'

Matrix: SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	8200	300		mg/Kg	200	12/17/2015 3:25:54 PM	22833

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	Page 2 of 4
	D Sample Diluted Due to Matrix	E Value above quantitation range	
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
	R RPD outside accepted recovery limits	RL Reporting Detection Limit	
	S % Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order: 1512603

Date Reported: 12/28/2015

CLIENT: Yates Petroleum Corporation
Project: Allison CQ Federal #10**Lab Order:** 1512603**Lab ID:** 1512603-011**Collection Date:** 12/4/2015 8:24:00 AM**Client Sample ID:** S4-5'**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	9200	750		mg/Kg	500	12/17/2015 3:38:19 PM	22833

Lab ID: 1512603-012**Collection Date:** 12/4/2015 8:28:00 AM**Client Sample ID:** S4-6'**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	9300	300		mg/Kg	200	12/17/2015 4:15:33 PM	22840

Lab ID: 1512603-013**Collection Date:** 12/4/2015 8:55:00 AM**Client Sample ID:** S5-4'**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	7700	300		mg/Kg	200	12/17/2015 4:27:57 PM	22840

Lab ID: 1512603-014**Collection Date:** 12/4/2015 8:58:00 AM**Client Sample ID:** S5-5'**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	8300	750		mg/Kg	500	12/17/2015 4:40:22 PM	22840

Lab ID: 1512603-015**Collection Date:** 12/4/2015 9:01:00 AM**Client Sample ID:** S5-6'**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	4900	300		mg/Kg	200	12/17/2015 4:52:46 PM	22840

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1512603

28-Dec-15

Client: Yates Petroleum Corporation

Project: Allison CQ Federal #10

Sample ID	MB-22833	SampType	MBLK	TestCode	EPA Method 300.0: Anions					
Client ID	PBS	Batch ID	22833	RunNo	30906					
Prep Date	12/16/2015	Analysis Date	12/16/2015	SeqNo	944921	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-22833	SampType	LCS	TestCode	EPA Method 300.0: Anions					
Client ID	LCSS	Batch ID	22833	RunNo	30906					
Prep Date	12/16/2015	Analysis Date	12/16/2015	SeqNo	944922	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.8	90	110			

Sample ID	MB-22840	SampType	MBLK	TestCode	EPA Method 300.0: Anions					
Client ID	PBS	Batch ID	22840	RunNo	30906					
Prep Date	12/16/2015	Analysis Date	12/16/2015	SeqNo	944949	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-22840	SampType	LCS	TestCode	EPA Method 300.0: Anions					
Client ID	LCSS	Batch ID	22840	RunNo	30906					
Prep Date	12/16/2015	Analysis Date	12/16/2015	SeqNo	944950	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.1	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: Yates Petroleum Corporat

Work Order Number: 1512603

RcptNo: 1

Received by/date:

SA 12/11/15

Logged By: Lindsay Mangin

12/11/2015 9:40:00 AM

Lindsay Mangin

Completed By: Lindsay Mangin

12/14/2015 8:44:58 AM

Lindsay Mangin

Reviewed By:

JA 12/14/15

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☒ No ☐ Not Present ☐
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by:

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail

☐ Phone

☐ Fax

☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.3	Good	Yes			

Chain-of-Custody Record

Client: Yates Petroleum Corporation

Mailing Address:

105 South 4th Street Artesia, NM 88210

Phone #: 575-703-6537

email or Fax#: csettle@yatespetroleum.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other

☐ EDD (Type)

Project Manager:

Chase Settle

PO # 205. 0750

Sampler: Chase Settle

On Ice ☒ Yes ☐ No

Sample Temperature: 22.2

HEAL No. 1512-603

Container Type and #

Preservative Type

1 - 4oz. NONE

1 - 4oz. NONE

1 - 4oz. NONE

1 - 4oz. NONE

1 - 4oz. NONE

1 - 4oz. NONE

1 - 4oz. NONE

1 - 4oz. NONE

1 - 4oz. NONE

1 - 4oz. NONE

1 - 4oz. NONE

1 - 4oz. NONE

1 - 4oz. NONE

1 - 4oz. NONE

1 - 4oz. NONE

1 - 4oz. NONE

Date: 12/10/15

Time: 0940

Date: 12/10/15

Time: 0940

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Allison CQ Federal #10

Project #:

30-015-26195

Analysis Request

BTEX + MTBE + TMB's (8021)

BTEX + MTBE + TPH (Gas only)

TPH Method 8015B (Gas/Diesel)

TPH (Method 418.1)

EDB (Method 504.1)

8310 (PNA or PAH)

RCRA 8 Metals

Anions (F, Cl, NO₃, NO₂, PO₄, SO₄)

8081 Pesticides / 8082 PCB's

8260B (VOA)

8270 (Semi-VOA)

Remarks:

Received by:

Date: 12/10/15

Received by:

Date: 12/10/15

Chain-of-Custody Record

Client: Yates Petroleum Corporation

Mailing Address:

105 South 4th Street Artesia, NM 88210

Phone #: 575-703-6537

email or Fax#: csettle@yatespetroleum.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Allison CQ Federal #10

Project #:

30-015-26195

Project Manager:

Chase Settle

PO # 205. 0750

Sampler: Chase Settle

On Ice ☒ Yes ☐ No

Sample Temperature 22

HEAL No 1517403

Date Time Matrix Sample Request ID

Container Type and #

Preservative Type

12/4/2015

8:55

Soil

S5-4'

1 - 4oz.

NONE

-013

12/4/2015

8:58

Soil

S5-5'

1 - 4oz.

NONE

-014

12/4/2015

9:01

Soil

S5-6'

1 - 4oz.

NONE

-015

BTEX + MTBE + TMBs (8021)

BTEX + MTBE + TPH (Gas only)

TPH Method 8015B (Gas/Diesel)

TPH (Method 418.1)

EDB (Method 504.1)

8310 (PNA or PAH)

RCRA 8 Metals

Anions (F, Cl, NO₃, NO₂, PO₄, SO₄)

8081 Pesticides / 8082 PCB's

8260B (VOA)

8270 (Semi-VOA)

Remarks:

Date

Time

Received by:

Date

Time

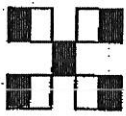
Relinquished by:

Date

Time

Date

Time



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

February 02, 2016

Chase Settle

Yates Petroleum Corporation

105 South Fourth Street

Artesia, NM 88210

TEL: (575) 748-4195

FAX

RE: Allison CQ Federal #10

OrderNo.: 1601861

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 20 sample(s) on 1/22/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order: 1601861

Date Reported: 2/2/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation
Project: Allison CQ Federal #10

Lab Order: 1601861

Lab ID: 1601861-001

Collection Date: 1/19/2016 8:14:00 AM

Client Sample ID: S1-7'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	4300	150		mg/Kg	100	1/27/2016 4:44:43 PM	23417

Lab ID: 1601861-002

Collection Date: 1/19/2016 8:28:00 AM

Client Sample ID: S1-9'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	930	30		mg/Kg	20	1/26/2016 2:07:59 PM	23417

Lab ID: 1601861-003

Collection Date: 1/19/2016 8:30:00 AM

Client Sample ID: S1-11'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	670	30		mg/Kg	20	1/26/2016 2:20:24 PM	23417

Lab ID: 1601861-004

Collection Date: 1/19/2016 8:41:00 AM

Client Sample ID: S1-13'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	220	30		mg/Kg	20	1/26/2016 2:32:49 PM	23417

Lab ID: 1601861-005

Collection Date: 1/19/2016 9:23:00 AM

Client Sample ID: S2-7'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	1700	75		mg/Kg	50	1/27/2016 4:57:08 PM	23417

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank	Page 1 of 5
	D Sample Diluted Due to Matrix	E Value above quantitation range	
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits	
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range	
	R RPD outside accepted recovery limits	RL Reporting Detection Limit	
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified	

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1601861

Date Reported: 2/2/2016

CLIENT: Yates Petroleum Corporation
Project: Allison CQ Federal #10

Lab Order: 1601861

Lab ID: 1601861-006

Collection Date: 1/19/2016 9:34:00 AM

Client Sample ID: S2-9'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	120	30		mg/Kg	20	1/26/2016 2:57:38 PM	23417

Lab ID: 1601861-007

Collection Date: 1/19/2016 9:56:00 AM

Client Sample ID: S2-11'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	120	30		mg/Kg	20	1/26/2016 3:10:02 PM	23417

Lab ID: 1601861-008

Collection Date: 1/19/2016 10:15:00 AM

Client Sample ID: S2-13'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	74	30		mg/Kg	20	1/26/2016 3:22:27 PM	23417

Lab ID: 1601861-009

Collection Date: 1/19/2016 10:27:00 AM

Client Sample ID: S3-7'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	5600	300		mg/Kg	200	1/27/2016 5:09:32 PM	23417

Lab ID: 1601861-010

Collection Date: 1/19/2016 10:34:00 AM

Client Sample ID: S3-9'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	1500	75		mg/Kg	50	1/27/2016 5:46:46 PM	23417

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Analytical Report

Lab Order: 1601861

Date Reported: 2/2/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation
Project: Allison CQ Federal #10

Lab Order: 1601861

Lab ID: 1601861-011

Collection Date: 1/19/2016 10:41:00 AM

Client Sample ID: S3-11'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	1200	30		mg/Kg	20	1/26/2016 4:24:28 PM	23417

Lab ID: 1601861-012

Collection Date: 1/19/2016 10:48:00 AM

Client Sample ID: S3-13'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	1800	75		mg/Kg	50	1/27/2016 5:59:11 PM	23417

Lab ID: 1601861-013

Collection Date: 1/19/2016 11:08:00 AM

Client Sample ID: S4-7'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	8500	750		mg/Kg	500	1/28/2016 1:38:26 PM	23436

Lab ID: 1601861-014

Collection Date: 1/19/2016 11:15:00 AM

Client Sample ID: S4-9'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	2600	150		mg/Kg	100	1/28/2016 1:50:51 PM	23436

Lab ID: 1601861-015

Collection Date: 1/19/2016 11:23:00 AM

Client Sample ID: S4-11'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	1000	30		mg/Kg	20	1/27/2016 3:30:16 PM	23436

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1601861

Date Reported: 2/2/2016

CLIENT: Yates Petroleum Corporation
Project: Allison CQ Federal #10

Lab Order: 1601861

Lab ID: 1601861-016

Collection Date: 1/19/2016 11:34:00 AM

Client Sample ID: S4-13'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	230	30		mg/Kg	20	1/27/2016 3:42:40 PM	23436

Lab ID: 1601861-017

Collection Date: 1/19/2016 12:05:00 PM

Client Sample ID: S5-7'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	640	30		mg/Kg	20	1/27/2016 3:55:05 PM	23436

Lab ID: 1601861-018

Collection Date: 1/19/2016 12:12:00 PM

Client Sample ID: S5-9'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	1100	30		mg/Kg	20	1/27/2016 4:07:30 PM	23436

Lab ID: 1601861-019

Collection Date: 1/19/2016 12:19:00 PM

Client Sample ID: S5-11'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	1200	30		mg/Kg	20	1/27/2016 4:19:54 PM	23436

Lab ID: 1601861-020

Collection Date: 1/19/2016 12:28:00 PM

Client Sample ID: S5-13'

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	81	30		mg/Kg	20	1/27/2016 4:32:19 PM	23436

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1601861

02-Feb-16

Client: Yates Petroleum Corporation

Project: Allison CQ Federal #10

Sample ID	MB-23417	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	23417	RunNo:	31710					
Prep Date:	1/26/2016	Analysis Date:	1/26/2016	SeqNo:	970391	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-23417	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	23417	RunNo:	31710					
Prep Date:	1/26/2016	Analysis Date:	1/26/2016	SeqNo:	970392	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.2	90	110			

Sample ID	MB-23436	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	23436	RunNo:	31736					
Prep Date:	1/27/2016	Analysis Date:	1/27/2016	SeqNo:	971237	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-23436	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	23436	RunNo:	31736					
Prep Date:	1/27/2016	Analysis Date:	1/27/2016	SeqNo:	971238	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.5	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
1901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Yates Petroleum Corpora

Work Order Number: 1601861

RcptNo: 1

Received by/date

[Signature] 01/22/16

Logged By: Lindsay Mangin

1/22/2016 9:40:00 AM

[Signature]

Completed By: Lindsay Mangin

1/22/2016 11:03:54 AM

[Signature]

Reviewed By:

mg 01/25/16

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☒ No ☐ Not Present ☐
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐ # of preserved bottles checked for pH:
(<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐ Adjusted?
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐ Checked by

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date

By Whom:

Via:

☐ eMail

☐ Phone

☐ Fax

☐ In Person

Regarding:

Client Instructions

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.0	Good	Yes			



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

February 23, 2016

Chase Settle
Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4111
FAX

RE: Allison CQ Federal #10

OrderNo.: 1602542

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 3 sample(s) on 2/12/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602542

Date Reported: 2/23/2016

CLIENT: Yates Petroleum Corporation

Client Sample ID: S3-15'

Project: Allison CQ Federal #10

Collection Date: 2/9/2016 8:51:00 AM

Lab ID: 1602542-001

Matrix: SOIL

Received Date: 2/12/2016 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	3600	150		mg/Kg	100	2/19/2016 9:21:21 PM	23798

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602542

Date Reported: 2/23/2016

CLIENT: Yates Petroleum Corporation

Client Sample ID: S3-17'

Project: Allison CQ Federal #10

Collection Date: 2/9/2016 8:57:00 AM

Lab ID: 1602542-002

Matrix: SOIL

Received Date: 2/12/2016 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	700	30		mg/Kg	20	2/17/2016 2:32:05 PM	23798

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	R RPD outside accepted recovery limits	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1602542

Date Reported: 2/23/2016

CLIENT: Yates Petroleum Corporation

Client Sample ID: S3-19'

Project: Allison CQ Federal #10

Collection Date: 2/9/2016 9:05:00 AM

Lab ID: 1602542-003

Matrix: SOIL

Received Date: 2/12/2016 9:35:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	2/17/2016 2:44:29 PM	23798

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1602542

23-Feb-16

Client: Yates Petroleum Corporation

Project: Allison CQ Federal #10

Sample ID	MB-23798	SampType	MBLK	TestCode	EPA Method 300.0: Anions					
Client ID	PBS	Batch ID	23798	RunNo	32237					
Prep Date	2/17/2016	Analysis Date	2/17/2016	SeqNo	985576	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-23798	SampType	LCS	TestCode	EPA Method 300.0: Anions					
Client ID	LCSS	Batch ID	23798	RunNo	32237					
Prep Date	2/17/2016	Analysis Date	2/17/2016	SeqNo	985577	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.6	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Yates Petroleum Corpora

Work Order Number: 1602542

RcptNo: 1

Received by/date: JA 02/12/16

Logged By: Ashley Gallegos

2/12/2016 9:35:00 AM

Completed By: Ashley Gallegos

2/12/2016 10:49:21 AM

Reviewed By: TO 02/12/16

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Client: Yates Petroleum Corporation

☒ Standard ☐ Rush

Project Name:

Mailing Address:

105 South 4th Street Artesia, NM 88210

Phone #: 575-703-6537

email or Fax#: csettle@yatespetroleum.com

QA/QC Package:

☐ Standard

Accreditation: ☐ Level 4 (Full Validation)

☐ NELAP ☐ Other

☐ EDD (Type)

Project #:

30-015-26195

Project Manager:

Chase Settle

PO # 205.0750

Sampler:

Chase Settle

On Ice ☒ Yes ☐ No

Sample Temperature: 6.0

Date Time Matrix Sample Request ID

2/9/2016 8:51a Soil S3-15'

2/9/2016 8:57a Soil S3-17'

2/9/2016 9:05a Soil S3-19'

Container Type and #

1 - 4oz.

1 - 4oz.

1 - 4oz.

Preservative Type

NONE

NONE

NONE

HEAL No

140025340

001

002

003

BTEX + MTBE + TMBs (8021)

BTEX + MTBE + TPH (Gas only)

TPH Method 8015B (Gas/Diesel)

TPH (Method 418.1)

EDB (Method 504.1)

8310 (PNA or PAH)

RCRA 8 Metals

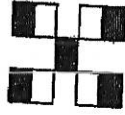
Anions (F, Cl, NO₃, NO₂, PO₄, SO₄)

8081 Pesticides / 8082 PCBs

8260B (VOA)

8270 (Semi-VOA)

Air Bubbles (Y or N)



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Chain-of-Custody Record

Client: Yates Petroleum Corporation

Mailing Address:
05 South 4th Street Artesia, NM 88210

Phone #: 575-703-6537

Email or Fax#: csettle@yatespetroleum.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)
☐ Accreditation:
☐ NELAP ☐ Other
☐ EDD (Type)

Turn-Around Time:

X Standard ☐ Rush

Project Name:

Allison CQ Federal #10

Project #:

30-015-28195

Project Manager:

Chase Settle

PO # 205. 0750

Sampler: Chase Settle

On Ice ☒ Yes ☐ No
 Sample Temperature: 70
 HEAL No
 1002540

Container Type and #	Preservative Type
1 - 4oz.	NONE
1 - 4oz.	NONE
1 - 4oz.	NONE

Date Time Matrix Sample Request ID

2/9/2016	8:51a	Soil	S3-15'
2/9/2016	8:57a	Soil	S3-17'
2/9/2016	9:05a	Soil	S3-19'



www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
							X				
							X				
							X				

Remarks:

Received by: *[Signature]* Date: 02/12/16 Time: 0935

Received by: _____ Date: _____ Time: _____

Date: 11-16 Time: 8:00 Relinquished by: *[Signature]*

Date: _____ Time: _____ Relinquished by: _____