

MARTIN YATES, III
1912-1985
FRANK W. YATES
1936-1986
S.P. YATES
1914-2008

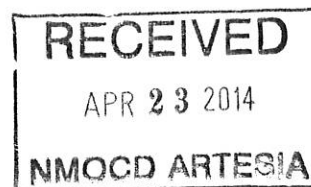


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ARTESIA, NEW MEXICO 88210-2118
TELEPHONE (575) 748-1471

JOHN A. YATES
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JOHN A. YATES JR.
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EXECUTIVE VP. OF MONETIZATION
CHIEF FINANCIAL OFFICER
JAMES S. BROWN
CHIEF OPERATING OFFICER

April 23, 2014

Mr. Mike Bratcher
NMOCD District II
811 S. First St.
Artesia, NM 88210



Re: Agave AAJ State #1
30-015-25049
Section 32, T19S-R24E
Eddy County, New Mexico

Dear Mr. Bratcher,

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 March 12, 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 the week of May 7, 2014.

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

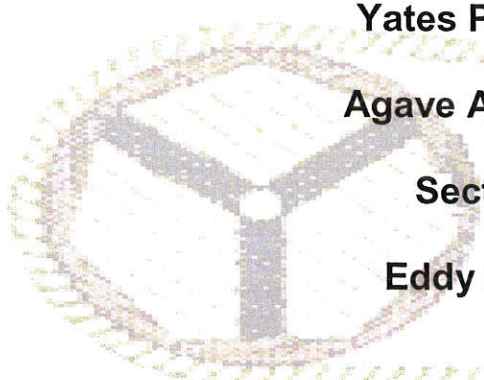
Yates Petroleum Corporation

Agave AAJ State #1 Work Plan

Section 32, T19S-R24E

Eddy County, New Mexico

April 23, 2014



I. Location

The Agave AAJ State #1 is located 13 miles south of Artesia on US 285, west approximately 10.3 miles on Rocking R Red Road, then approximately 4.3 miles southwest on lease road.

II. Background

On March 12, 2014, Yates submitted to the NMOCD District II office a Form C-141 for the release of 30 B/O and 2 B/PW with 0 B/O and 0 B/PW recovered. The tanks were removed and the berm dismantled to allow for excavation of visually impacted soils. Four (4) feet was excavated beneath the oil tank's location and six (6) feet beneath the produced water tank's location. A historical release was determined to have occurred beneath the produced water tank from an outdated, unused transfer line. The total affected area is approximately 30 feet by 40 feet beneath the battery and berm area. Initial delineation samples were taken (3/17/2014) and sent to a NMOCD approved laboratory (3/25/2014, results enclosed). Based on analytical results (3/25/2014), Yates Petroleum Corporation performed deeper more extensive sampling with a track-hoe at the S2 Sample location (3/28/2014) and sent to a NMOCD approved laboratory (4/7/2014, results enclosed) to determine delineation of TPH and BTEX.

III. Surface and Ground Water

Area surface geology is Paleozoic Permian. The ChevronTexaco Trend Map displays at this location (Section 32, T19S-R24E) that depth to groundwater is approximately 380' 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:

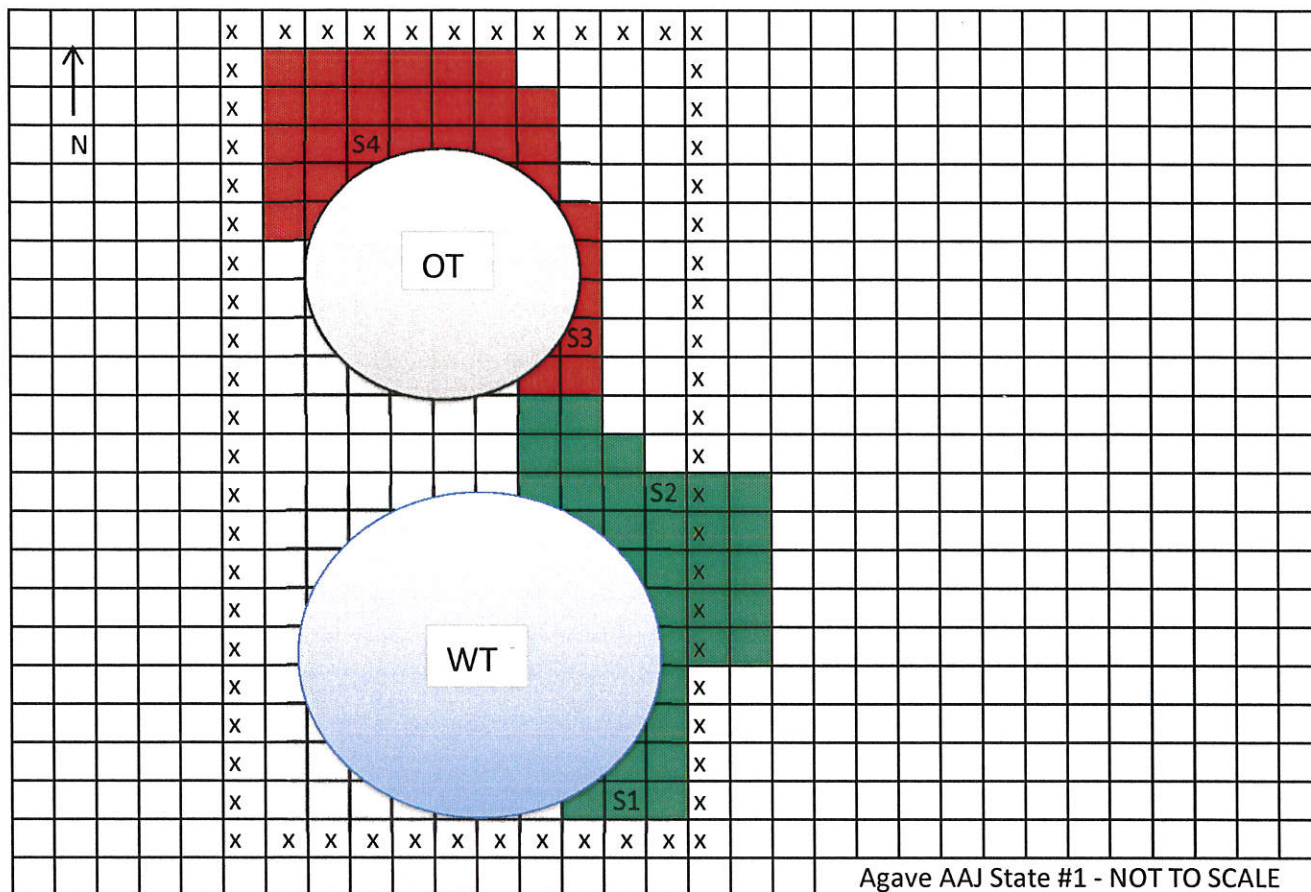
Depth to ground water	> 100'
Wellhead Protection Area	> 1000'
Distance to surface water body	> 1000'

IV. Soils

The area consists of soils that are caliche and loamy top soil and are interspersed with shale rock and 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 groundwater (380'), and a decrease in TPH and BTEX, Yates Petroleum Corporation will excavate one (1) foot of impacted soil within the S3 and S4 sample release area and impacted soil will be hauled to a NMOCD approved facility. Yates Petroleum Corporation will then excavate to fourteen (14) feet in the S1 and S2 sample areas. Excavated soil will be stockpiled and remediated on location. The soil will be placed on plastic, spread to a depth of one (1) foot, fertilized and watered, and then stirred every 30 days with the bucket of a backhoe or loader. At 90 days a composite sample will be collected and sent to an approved NMOCD facility for testing. Once soil is under the RRAL for TPH and BTEX, the soil will be used as backfill for the excavation. With TPH and BTEX being below the RRAL's at fourteen (14) feet at the S1/S2 sample areas and all impacted soil above RRAL removed at the S3/S4 sample areas, 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, analytical results and a site sample diagram will be submitted to the NMOCD and request closure of the site.



Release Area

 S3 & S4 Sample Location

 S1 & S2 Sample Location

Site Ranking is Zero (0). DTGW >100' (approx 380', Section 32, T19S-R24E, Trend Map)

All results are ppm, Chlorides for documentation.

Released: 30 B/O & 2 B/PW Recovered: 0 B/O & 0 B/PW Release Date: 3/5&9/2014

ANALYTICAL DATA

H400816	Sample Area	Sample Date	Sampe Type	Depth	BTEX	GRO	DRO	CHLORIDE
S3-4'	Release Area	3/17/2014	Backhoe	4'	288	5900	6400	N/D
S3-5'	Release Area	3/17/2014	Backhoe	5'	0.882	<50.0	53.4	N/D
S3-6'	Release Area	3/17/2014	Backhoe	6'	0.631	N/D	30.7	N/D
S4-4'	Release Area	3/17/2014	Backhoe	4'	1.03	15.7	44.5	112
S4-5'	Release Area	3/17/2014	Backhoe	5'	0.303	14.8	83.2	112
S4-6'	Release Area	3/17/2014	Backhoe	6'	N/D	N/D	70.1	112
H400817								
S1-6'	Release Area	3/17/2014	Backhoe	6'	0.609	N/D	33.8	N/D
S1-7'	Release Area	3/17/2014	Backhoe	7'	0.754	12.8	111	N/D
S1-8'	Release Area	3/17/2014	Backhoe	8'	1.12	10.3	150	N/D
S2-6'	Release Area	3/17/2014	Backhoe	6'	64.6	865	3350	128
S2-7'	Release Area	3/17/2014	Backhoe	7'	61.4	1080	2290	64
S2-8'	Release Area	3/17/2014	Backhoe	8'	87.3	2770	8480	352
H400968								
S2-9'	Release Area	3/28/2014	Trackhoe	9'	7.05	63.8	2500	224
S2-10'	Release Area	3/28/2014	Trackhoe	10'	5.6	180	6140	144
S2-11'	Release Area	3/28/2014	Trackhoe	11'	3.4	129	4520	176
S2-12'	Release Area	3/28/2014	Trackhoe	12'	43.2	515	8240	208
S2-13'	Release Area	3/28/2014	Trackhoe	13'	15.3	368	5710	480
S2-14'	Release Area	3/28/2014	Trackhoe	14'	6.66	211	4680	464
S2-15'	Release Area	3/28/2014	Trackhoe	15'	19.4	177	3130	608
S2-16'	Release Area	3/28/2014	Trackhoe	16'	3.33	93.7	2010	768
S2-17'	Release Area	3/28/2014	Trackhoe	17'	4.64	114	2550	880



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

March 25, 2014

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: AGAVE AAJ STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 03/18/14 11:45.

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: 03/18/2014
Reported: 03/25/2014
Project Name: AGAVE AAJ STATE #1
Project Number: 205750
Project Location: AGAVE AAJ STATE #1

Sampling Date: 03/17/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-6' (H400817-01)

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	03/24/2014	ND	2.50	125	2.00	4.14	
Toluene*	<0.050	0.050	03/24/2014	ND	2.38	119	2.00	3.54	
Ethylbenzene*	0.059	0.050	03/24/2014	ND	2.34	117	2.00	3.58	
Total Xylenes*	0.550	0.150	03/24/2014	ND	6.83	114	6.00	2.85	
Total BTEX	0.609	0.300	03/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 119 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/21/2014	ND	416	104	400	7.41	

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	03/21/2014	ND	213	107	200	6.19	
DRO >C10-C28	33.8	10.0	03/21/2014	ND	208	104	200	6.02	

Surrogate: 1-Chlorooctane 90.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.0 % 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: 03/18/2014
Reported: 03/25/2014
Project Name: AGAVE AAJ STATE #1
Project Number: 205750
Project Location: AGAVE AAJ STATE #1

Sampling Date: 03/17/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-7' (H400817-02)

BTEX 8021B		mg/kg	Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/24/2014	ND	2.50	125	2.00	4.14	
Toluene*	<0.050	0.050	03/24/2014	ND	2.38	119	2.00	3.54	
Ethylbenzene*	0.078	0.050	03/24/2014	ND	2.34	117	2.00	3.58	
Total Xylenes*	0.677	0.150	03/24/2014	ND	6.83	114	6.00	2.85	
Total BTEX	0.754	0.300	03/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 127 % 89.4-126

Chloride, SM4500CI-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/21/2014	ND	416	104	400	7.41	

TPH 8015M		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	12.8	10.0	03/21/2014	ND	213	107	200	6.19	
DRO >C10-C28	111	10.0	03/21/2014	ND	208	104	200	6.02	

Surrogate: 1-Chlorooctane 90.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.8 % 63.6-154

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

Received: 03/18/2014
Reported: 03/25/2014
Project Name: AGAVE AAJ STATE #1
Project Number: 205750
Project Location: AGAVE AAJ STATE #1

Sampling Date: 03/17/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1-8' (H400817-03)

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	03/24/2014	ND	2.50	125	2.00	4.14	
Toluene*	<0.050	0.050	03/24/2014	ND	2.38	119	2.00	3.54	
Ethylbenzene*	0.106	0.050	03/24/2014	ND	2.34	117	2.00	3.58	
Total Xylenes*	1.02	0.150	03/24/2014	ND	6.83	114	6.00	2.85	
Total BTEX	1.12	0.300	03/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 124 % 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	<16.0	16.0	03/21/2014	ND	416	104	400	7.41		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	10.3	10.0	03/21/2014	ND	213	107	200	6.19	
DRO >C10-C28	150	10.0	03/21/2014	ND	208	104	200	6.02	

Surrogate: 1-Chlorooctane 85.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.1 % 63.6-154

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

Received: 03/18/2014
Reported: 03/25/2014
Project Name: AGAVE AAJ STATE #1
Project Number: 205750
Project Location: AGAVE AAJ STATE #1

Sampling Date: 03/17/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2-6' (H400817-04)

BTEX 8021B		mg/kg	Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	03/24/2014	ND	2.50	125	2.00	4.14	
Toluene*	6.94	0.500	03/24/2014	ND	2.38	119	2.00	3.54	
Ethylbenzene*	5.14	0.500	03/24/2014	ND	2.34	117	2.00	3.58	
Total Xylenes*	52.5	1.50	03/24/2014	ND	6.83	114	6.00	2.85	
Total BTEX	64.6	3.00	03/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 170 % 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	128	16.0	03/21/2014	ND	416	104	400	7.41	

TPH 8015M		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	865	50.0	03/21/2014	ND	213	107	200	6.19	
DRO >C10-C28	3350	50.0	03/21/2014	ND	208	104	200	6.02	

Surrogate: 1-Chlorooctane 121 % 65.2-140

Surrogate: 1-Chlorooctadecane 147 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 03/18/2014
Reported: 03/25/2014
Project Name: AGAVE AAJ STATE #1
Project Number: 205750
Project Location: AGAVE AAJ STATE #1

Sampling Date: 03/17/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2-7' (H400817-05)

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	03/24/2014	ND	2.50	125	2.00	4.14	
Toluene*	3.80	1.00	03/24/2014	ND	2.38	119	2.00	3.54	
Ethylbenzene*	4.23	1.00	03/24/2014	ND	2.34	117	2.00	3.58	
Total Xylenes*	53.3	3.00	03/24/2014	ND	6.83	114	6.00	2.85	
Total BTX	61.4	6.00	03/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 137 % 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	64.0	16.0	03/21/2014	ND	416	104	400	7.41	

TPH 8015M		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1080	100	03/21/2014	ND	213	107	200	6.19	
DRO >C10-C28	2290	100	03/21/2014	ND	208	104	200	6.02	

Surrogate: 1-Chlorooctane 121 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 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: 03/18/2014
Reported: 03/25/2014
Project Name: AGAVE AAJ STATE #1
Project Number: 205750
Project Location: AGAVE AAJ STATE #1

Sampling Date: 03/17/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2-8' (H400817-06)

BTEX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	03/24/2014	ND	2.50	125	2.00	4.14	
Toluene*	6.25	2.00	03/24/2014	ND	2.38	119	2.00	3.54	
Ethylbenzene*	7.83	2.00	03/24/2014	ND	2.34	117	2.00	3.58	
Total Xylenes*	73.3	6.00	03/24/2014	ND	6.83	114	6.00	2.85	
Total BTEX	87.3	12.0	03/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 133 % 89.4-126

Chloride, SM4500CI-B		mg/kg	Analyzed By: AP					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	03/21/2014	ND	416	104	400	7.41	

TPH 8015M		mg/kg	Analyzed By: ms					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2770	50.0	03/21/2014	ND	213	107	200	6.19	
DRO >C10-C28	8480	50.0	03/21/2014	ND	208	104	200	6.02	

Surrogate: 1-Chlorooctane 231 % 65.2-140

Surrogate: 1-Chlorooctadecane 186 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
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

Sampler Signature:

Fax No: 575-748-4131

e-mail: csettle@yatespetroleum.com

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

PO #: 205750

Project Name: Agave AAJ State #1

Project #:

Project Loc: Agave AAJ State #1

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														
										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		
1	S1-6'					3/17/2014	3:00 PM		1										S	X															X
2	S1-7'					3/17/2014	3:00 PM		1										S	X														X	
3	S1-8'					3/17/2014	3:00 PM		1										S	X														X	
4	S2-6'					3/17/2014	3:00 PM		1										S	X														X	
5	S2-7'					3/17/2014	3:00 PM		1										S	X														X	
6	S2-8'					3/17/2014	3:00 PM		1										S	X														X	
Special Instructions:																																			
Relinquished by: Date: 3-18-14 Time: Received by: Date: 3/18/14 Time: 11:45																																			
Relinquished by: Date: Time: Received by: ELOT: Date: Time:																																			
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: 4.8 °C																																			

March 25, 2014

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: AGAVE AAJ STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 03/18/14 11:45.

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: 03/18/2014
Reported: 03/25/2014
Project Name: AGAVE AAJ STATE #1
Project Number: 205750
Project Location: AGAVE AAJ STATE #1

Sampling Date: 03/17/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S3-4' (H400816-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<5.00	5.00	03/24/2014	ND	2.50	125	2.00	4.14	
Toluene*	37.0	5.00	03/24/2014	ND	2.38	119	2.00	3.54	
Ethylbenzene*	24.3	5.00	03/24/2014	ND	2.34	117	2.00	3.58	
Total Xylenes*	227	15.0	03/24/2014	ND	6.83	114	6.00	2.85	
Total BTEX	288	30.0	03/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 124 % 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	<16.0	16.0	03/21/2014	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: ms						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	5900	100	03/21/2014	ND	213	107	200	6.19		
DRO >C10-C28	6400	100	03/21/2014	ND	208	104	200	6.02		

Surrogate: 1-Chlorooctane 260 % 65.2-140

Surrogate: 1-Chlorooctadecane 129 % 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: 03/18/2014
Reported: 03/25/2014
Project Name: AGAVE AAJ STATE #1
Project Number: 205750
Project Location: AGAVE AAJ STATE #1

Sampling Date: 03/17/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S3-5' (H400816-02)

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	03/24/2014	ND	2.50	125	2.00	4.14	
Toluene*	<0.050	0.050	03/24/2014	ND	2.38	119	2.00	3.54	
Ethylbenzene*	0.082	0.050	03/24/2014	ND	2.34	117	2.00	3.58	
Total Xylenes*	0.779	0.150	03/24/2014	ND	6.83	114	6.00	2.85	
Total BTEX	0.882	0.300	03/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PII) 118 % 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	<16.0	16.0	03/21/2014	ND	416	104	400	7.41	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	03/21/2014	ND	213	107	200	6.19	
DRO >C10-C28	53.4	50.0	03/21/2014	ND	208	104	200	6.02	

Surrogate: 1-Chlorooctane 92.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 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: 03/18/2014
Reported: 03/25/2014
Project Name: AGAVE AAJ STATE #1
Project Number: 205750
Project Location: AGAVE AAJ STATE #1

Sampling Date: 03/17/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S3-6' (H400816-03)

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	03/24/2014	ND	2.50	125	2.00	4.14	
Toluene*	<0.050	0.050	03/24/2014	ND	2.38	119	2.00	3.54	
Ethylbenzene*	0.054	0.050	03/24/2014	ND	2.34	117	2.00	3.58	
Total Xylenes*	0.577	0.150	03/24/2014	ND	6.83	114	6.00	2.85	
Total BTX	0.631	0.300	03/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 114 % 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	<16.0	16.0	03/21/2014	ND	416	104	400	7.41	

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	03/21/2014	ND	213	107	200	6.19	
DRO >C10-C28	30.7	10.0	03/21/2014	ND	208	104	200	6.02	

Surrogate: 1-Chlorooctane 87.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.7 % 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: 03/18/2014
Reported: 03/25/2014
Project Name: AGAVE AAJ STATE #1
Project Number: 205750
Project Location: AGAVE AAJ STATE #1

Sampling Date: 03/17/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S4-4' (H400816-04)

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	03/24/2014	ND	2.50	125	2.00	4.14	
Toluene*	<0.050	0.050	03/24/2014	ND	2.38	119	2.00	3.54	
Ethylbenzene*	0.077	0.050	03/24/2014	ND	2.34	117	2.00	3.58	
Total Xylenes*	0.957	0.150	03/24/2014	ND	6.83	114	6.00	2.85	
Total BTEX	1.03	0.300	03/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 121 % 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	112	16.0	03/21/2014	ND	416	104	400	7.41	

TPH 8015M		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	15.7	10.0	03/21/2014	ND	213	107	200	6.19	
DRO >C10-C28	44.5	10.0	03/21/2014	ND	208	104	200	6.02	

Surrogate: 1-Chlorooctane 79.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 81.4 % 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: 03/18/2014
Reported: 03/25/2014
Project Name: AGAVE AAJ STATE #1
Project Number: 205750
Project Location: AGAVE AAJ STATE #1

Sampling Date: 03/17/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S4-5' (H400816-05)

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	03/24/2014	ND	2.50	125	2.00	4.14	
Toluene*	<0.050	0.050	03/24/2014	ND	2.38	119	2.00	3.54	
Ethylbenzene*	<0.050	0.050	03/24/2014	ND	2.34	117	2.00	3.58	
Total Xylenes*	0.303	0.150	03/24/2014	ND	6.83	114	6.00	2.85	
Total BTEX	0.303	0.300	03/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	112	16.0	03/21/2014	ND	416	104	400	7.41	

TPH 8015M		mg/kg	Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	14.8	10.0	03/21/2014	ND	213	107	200	6.19	
DRO >C10-C28	83.2	10.0	03/21/2014	ND	208	104	200	6.02	

Surrogate: 1-Chlorooctane 91.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.5 % 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:	03/18/2014	Sampling Date:	03/17/2014
Reported:	03/25/2014	Sampling Type:	Soil
Project Name:	AGAVE AAJ STATE #1	Sampling Condition:	Cool & Intact
Project Number:	205750	Sample Received By:	Jodi Henson
Project Location:	AGAVE AAJ STATE #1		

Sample ID: S4-6' (H400816-06)

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	03/24/2014	ND	2.50	125	2.00	4.14	
Toluene*	<0.050	0.050	03/24/2014	ND	2.38	119	2.00	3.54	
Ethylbenzene*	<0.050	0.050	03/24/2014	ND	2.34	117	2.00	3.58	
Total Xylenes*	<0.150	0.150	03/24/2014	ND	6.83	114	6.00	2.85	
Total BTEX	<0.300	0.300	03/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 111 % 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	112	16.0	03/21/2014	ND	416	104	400	7.41	

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	03/21/2014	ND	213	107	200	6.19	
DRO >C10-C28	70.1	10.0	03/21/2014	ND	208	104	200	6.02	

Surrogate: 1-Chlorooctane 89.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.5 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
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

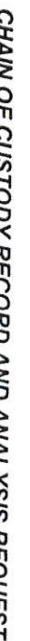
Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Page 9 of 9

[illegible]



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

April 07, 2014

CHASE SETTLE

YATES PETROLEUM CORPORATION

105 S 4th Street

Artesia, NM 88210

RE: AGAVE AAJ STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 04/01/14 14:30.

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: 04/01/2014
Reported: 04/07/2014
Project Name: AGAVE AAJ STATE #1
Project Number: 205750
Project Location: AGAVE AAJ STATE #1

Sampling Date: 03/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2-9' (H400968-01)

BTEX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/03/2014	ND	2.59	129	2.00	1.32	
Toluene*	0.650	0.050	04/03/2014	ND	2.50	125	2.00	0.955	
Ethylbenzene*	0.541	0.050	04/03/2014	ND	2.47	124	2.00	1.10	
Total Xylenes*	5.86	0.150	04/03/2014	ND	7.08	118	6.00	0.890	
Total BTEX	7.05	0.300	04/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 150 % 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	224	16.0	04/03/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg	Analyzed By: ms					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	63.8	50.0	04/02/2014	ND	187	93.4	200	1.94	
DRO >C10-C28	2500	50.0	04/02/2014	ND	216	108	200	2.56	

Surrogate: 1-Chlorooctane 123 % 65.2-140

Surrogate: 1-Chlorooctadecane 230 % 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: 04/01/2014
Reported: 04/07/2014
Project Name: AGAVE AAJ STATE #1
Project Number: 205750
Project Location: AGAVE AAJ STATE #1

Sampling Date: 03/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2-10' (H400968-02)

BTEX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	04/03/2014	ND	2.59	129	2.00	1.32	
Toluene*	0.322	0.100	04/03/2014	ND	2.50	125	2.00	0.955	
Ethylbenzene*	0.531	0.100	04/03/2014	ND	2.47	124	2.00	1.10	
Total Xylenes*	4.75	0.300	04/03/2014	ND	7.08	118	6.00	0.890	
Total BTEX	5.60	0.600	04/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 182 % 89.4-126

Chloride, SM4500CI-B		mg/kg	Analyzed By: AP					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/03/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg	Analyzed By: ms					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	180	50.0	04/02/2014	ND	187	93.4	200	1.94	
DRO >C10-C28	6140	50.0	04/02/2014	ND	216	108	200	2.56	

Surrogate: 1-Chlorooctane 162 % 65.2-140

Surrogate: 1-Chlorooctadecane 250 % 63.6-154

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

Received: 04/01/2014
Reported: 04/07/2014
Project Name: AGAVE AAJ STATE #1
Project Number: 205750
Project Location: AGAVE AAJ STATE #1

Sampling Date: 03/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2-11' (H400968-03)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	04/03/2014	ND	2.59	129	2.00	1.32	
Toluene*	0.175	0.100	04/03/2014	ND	2.50	125	2.00	0.955	
Ethylbenzene*	0.361	0.100	04/03/2014	ND	2.47	124	2.00	1.10	
Total Xylenes*	2.87	0.300	04/03/2014	ND	7.08	118	6.00	0.890	
Total BTEX	3.40	0.600	04/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 151 % 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	176	16.0	04/03/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	129	50.0	04/02/2014	ND	187	93.4	200	1.94	
DRO >C10-C28	4520	50.0	04/02/2014	ND	216	108	200	2.56	

Surrogate: 1-Chlorooctane 152 % 65.2-140

Surrogate: 1-Chlorooctadecane 297 % 63.6-154

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105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received:	04/01/2014	Sampling Date:	03/28/2014
Reported:	04/07/2014	Sampling Type:	Soil
Project Name:	AGAVE AAJ STATE #1	Sampling Condition:	Cool & Intact
Project Number:	205750	Sample Received By:	Jodi Henson
Project Location:	AGAVE AAJ STATE #1		

Sample ID: S2-12' (H400968-04)

BTEX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	04/03/2014	ND	2.59	129	2.00	1.32	
Toluene*	1.53	0.500	04/03/2014	ND	2.50	125	2.00	0.955	
Ethylbenzene*	3.40	0.500	04/03/2014	ND	2.47	124	2.00	1.10	
Total Xylenes*	38.3	1.50	04/03/2014	ND	7.08	118	6.00	0.890	
Total BTEX	43.2	3.00	04/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 146 % 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	208	16.0	04/03/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg	Analyzed By: ms					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	515	50.0	04/02/2014	ND	187	93.4	200	1.94	
DRO >C10-C28	8240	50.0	04/02/2014	ND	216	108	200	2.56	

Surrogate: 1-Chlorooctane 163 % 65.2-140

Surrogate: 1-Chlorooctadecane 292 % 63.6-154

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105 S 4th Street
Artesia NM, 88210
Fax To: (505) 748-4635

Received: 04/01/2014
Reported: 04/07/2014
Project Name: AGAVE AAJ STATE #1
Project Number: 205750
Project Location: AGAVE AAJ STATE #1

Sampling Date: 03/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2-13' (H400968-05)

BTEX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	04/03/2014	ND	2.59	129	2.00	1.32	
Toluene*	0.694	0.200	04/03/2014	ND	2.50	125	2.00	0.955	
Ethylbenzene*	1.29	0.200	04/03/2014	ND	2.47	124	2.00	1.10	
Total Xylenes*	13.3	0.600	04/03/2014	ND	7.08	118	6.00	0.890	
Total BTEX	15.3	1.20	04/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 166 % 89.4-126

Chloride, SM4500CI-B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	04/03/2014	ND	400	100	400	0.00	
TPH 8015M		mg/kg	Analyzed By: ms					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	368	10.0	04/03/2014	ND	194	97.1	200	0.486	
DRO >C10-C28	5710	10.0	04/03/2014	ND	207	104	200	5.18	

Surrogate: 1-Chlorooctane 151 % 65.2-140

Surrogate: 1-Chlorooctadecane 232 % 63.6-154

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Artesia NM, 88210
Fax To: (505) 748-4635

Received: 04/01/2014
Reported: 04/07/2014
Project Name: AGAVE AAJ STATE #1
Project Number: 205750
Project Location: AGAVE AAJ STATE #1

Sampling Date: 03/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2-14' (H400968-06)

BTEX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	04/03/2014	ND	2.59	129	2.00	1.32	
Toluene*	<0.200	0.200	04/03/2014	ND	2.50	125	2.00	0.955	
Ethylbenzene*	0.660	0.200	04/03/2014	ND	2.47	124	2.00	1.10	
Total Xylenes*	6.00	0.600	04/03/2014	ND	7.08	118	6.00	0.890	
Total BTEX	6.66	1.20	04/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PII) 161 % 89.4-126

Chloride, SM4500CI-B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	04/03/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg	Analyzed By: ms					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	211	10.0	04/03/2014	ND	194	97.1	200	0.486	
DRO >C10-C28	4680	10.0	04/03/2014	ND	207	104	200	5.18	

Surrogate: 1-Chlorooctane 161 % 65.2-140

Surrogate: 1-Chlorooctadecane 209 % 63.6-154

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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: 04/01/2014
Reported: 04/07/2014
Project Name: AGAVE AAJ STATE #1
Project Number: 205750
Project Location: AGAVE AAJ STATE #1

Sampling Date: 03/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2-15' (H400968-07)

BTX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	04/03/2014	ND	2.59	129	2.00	1.32	
Toluene*	0.517	0.100	04/03/2014	ND	2.50	125	2.00	0.955	
Ethylbenzene*	1.86	0.100	04/03/2014	ND	2.47	124	2.00	1.10	
Total Xylenes*	17.0	0.300	04/03/2014	ND	7.08	118	6.00	0.890	
Total BTX	19.4	0.600	04/03/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 192 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	04/03/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg	Analyzed By: ms					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	177	10.0	04/03/2014	ND	194	97.1	200	0.486	
DRO >C10-C28	3130	10.0	04/03/2014	ND	207	104	200	5.18	

Surrogate: 1-Chlorooctane 127 % 65.2-140

Surrogate: 1-Chlorooctadecane 178 % 63.6-154

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

Received: 04/01/2014
Reported: 04/07/2014
Project Name: AGAVE AAJ STATE #1
Project Number: 205750
Project Location: AGAVE AAJ STATE #1

Sampling Date: 03/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2-16' (H400968-08)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2014	ND	2.01	100	2.00	1.39	
Toluene*	0.084	0.050	04/04/2014	ND	1.92	95.8	2.00	2.21	
Ethylbenzene*	0.327	0.050	04/04/2014	ND	1.91	95.3	2.00	0.140	
Total Xylenes*	2.92	0.150	04/04/2014	ND	5.49	91.6	6.00	0.369	
Total BTEX	3.33	0.300	04/04/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 203 % 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	768	16.0	04/03/2014	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	93.7	10.0	04/03/2014	ND	194	97.1	200	0.486	
DRO >C10-C28	2010	10.0	04/03/2014	ND	207	104	200	5.18	

Surrogate: 1-Chlorooctane 127 % 65.2-140

Surrogate: 1-Chlorooctadecane 139 % 63.6-154

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

Received: 04/01/2014
Reported: 04/07/2014
Project Name: AGAVE AAJ STATE #1
Project Number: 205750
Project Location: AGAVE AAJ STATE #1

Sampling Date: 03/28/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2-17' (H400968-09)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2014	ND	2.01	100	2.00	1.39	
Toluene*	0.138	0.050	04/04/2014	ND	1.92	95.8	2.00	2.21	
Ethylbenzene*	0.471	0.050	04/04/2014	ND	1.91	95.3	2.00	0.140	
Total Xylenes*	4.03	0.150	04/04/2014	ND	5.49	91.6	6.00	0.369	
Total BTEX	4.64	0.300	04/04/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 213 % 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	880	16.0	04/03/2014	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	114	10.0	04/03/2014	ND	194	97.1	200	0.486	
DRO >C10-C28	2550	10.0	04/03/2014	ND	207	104	200	5.18	

Surrogate: 1-Chlorooctane 129 % 65.2-140

Surrogate: 1-Chlorooctadecane 140 % 63.6-154

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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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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CARDINAL 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:

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

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Project Name: Agave AAJ State #1

Project #:

Project Loc: Agave AAJ State #1

PO #: 205750

ORDER #: **H4009168**

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:		
1	S2-9'							3/28/2014	11:30 AM					1								
2	S2-10'							3/28/2014	11:30 AM					1								
3	S2-11'							3/28/2014	11:30 AM					1								
4	S2-12'							3/28/2014	11:30 AM					1								
5	S2-13'							3/28/2014	11:30 AM					1								
6	S2-14'							3/28/2014	11:30 AM					1								
7	S2-15'							3/28/2014	11:30					1								
8	S2-16'							3/28/2014	11:30					1								
9	S2-17'							3/28/2014	11:30 AM					1								

Reinquired by:	Date	Time	Received by:	Date	Time	Received by:	Date	Time
	4-1-14			4/1/14	3:30			

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