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

1914-2008



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105 SOUTH FOURTH STREET

ARTESIA, NEW MEXICO 88210-2118

TELEPHONE (575) 748-1471

www.yatespetroleum.com

July 9, 2015

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

Re: Glow Worm ALX Federal Battery 30-015-35313 Section 3, T23S-R31E Eddy County, New Mexico 2RP-2996

Mr. Bratcher/Mrs. 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 May 8, 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 August 1, 2015.

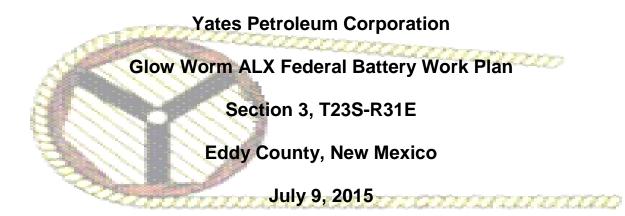
If you have any questions, feel free to call me at (575) 748-4171

Thank you.

YATES PETROLEUM CORPORATION

Chase Settle Environmental Regulatory Agent

Enclosure(s)



I. Location

Take HWY 128 east from Carlsbad, NM, at approximately 17.8 miles turn north on Red Road and go approximately 7.4 miles then turn left on Mills Ranch Road. Take Mills Ranch Road west for approximately 2 miles then turn south on the lease road for approximately $\frac{1}{2}$ a mile before turning east for a $\frac{1}{4}$ mile to arrive at the battery.

II. Background

On May 8, 2015, Yates submitted to the NMOCD District II office a Form C-141 for the release of 5 B/O and 2000 B/PW with 5 B/O and 1620 B/PW recovered. The affected area was approximately 340' X 40' within the lined, bermed battery, 750' X 40' starting at the northeast corner flowing south before turning west and running across the location and into the pasture, 104' X 80' was affected off the northeast corner of the battery by overspray, and 510' X 30' to be impacted off location flowing to the west with one pooling area that was 60' X 120'. Initial delineation samples were taken from the different sampling quadrants of the release (5/20/2015 with representatives from NMOCD onsite, and 5/21/2015) and sent to a NMOCD approved laboratory (6/1/2015 and 6/10/2015, results enclosed).

III. Surface and Ground Water

Area surface geology is Cenozoic Quaternary. The ChevronTexaco Trend Map displays at this location (Section 3, T23S-R31E) that depth to groundwater is approximately 105 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 sandy topsoil with a hard/solid clay layer beneath, providing a low permeability barrier to retard vertical percolation of contaminants into the subsurface.

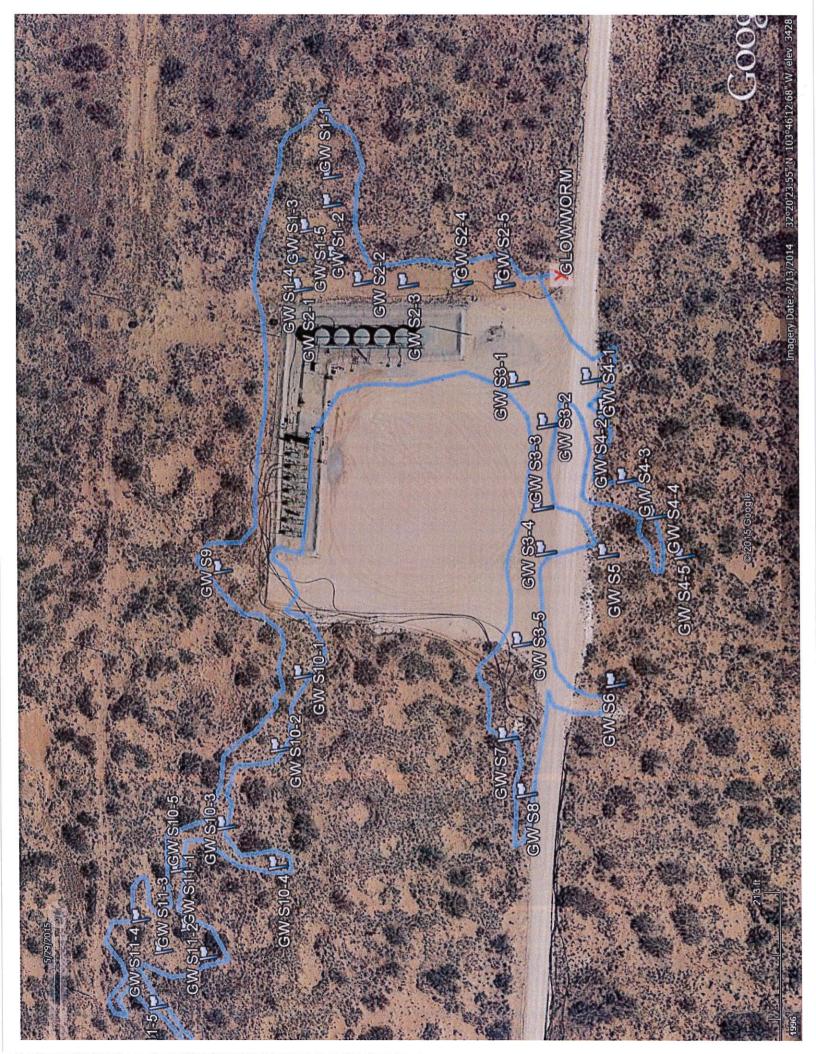
V. Scope of Work

Based on enclosed analytical results and the depth to groundwater (105'), Yates Petroleum Corporation will excavate two (2) feet below soil level (BSL) in the S2 area, excavate to three (3) feet BSL in the S3 and S10 areas, and excavate to four (4) feet in the S4, S6, S7, S8, S9, and S11 areas. All excavated soils will be hauled to a NMOCD approved facility for disposal. Yates will then backfill the excavated areas with caliche to the two (2) foot BSL mark, where the remaining two (2) feet will be backfilled with a topsoil similar to what is already present at the location. Yates will reseed the S2, S4, S6, S7, S8, S9, S10, and S11 areas with BLM LPC Seed Mixture, if remediation finishes after August 15, 2015, then seeding will occur in the 2016 planting season. When remediation work is completed a C-141, Final Report will be submitted to the NMOCD requesting closure of the site.

Glow Worm	ALX Feder	al Battery
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	Glow Worm ALX Federal Battery								
Area	Analysis #	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
S1-1'	H501302	Release Area	5/20/2015	Backhoe	1'	<0.3	<10.0	<10.0	<16.0
S1-3'	H501302	Release Area	5/20/2015	Backhoe	3'	<0.3	<10.0	<10.0	48
S2-1'	H501302	Release Area	5/20/2015	Backhoe	1'	<0.3	<10.0	34.8	5600
S2-2'	H501302	Release Area	5/20/2015	Backhoe	2'	< 0.3	<10.0	<10.0	1760
S2-3'	H501429	Release Area	5/20/2015	Backhoe	3'	N/A	N/A	N/A	112
S3-1'	H501302	Release Area	5/20/2015	Backhoe	1'	< 0.3	<10.0	<10.0	2600
S3-2'	H501302	Release Area	5/20/2015	Backhoe	2'	< 0.3	<10.0	<10.0	2160
S3-3'	H501429	Release Area	5/20/2015	Backhoe	3'	N/A	N/A	N/A	1340
S3-4'	H501429	Release Area	5/20/2015	Backhoe	4'	N/A	N/A	N/A	960
S4-1'	H501302	Release Area	5/20/2015	Backhoe	1'	33.2	633	3160	3880
S4-3'	H501302	Release Area	5/20/2015	Backhoe	3'	54.9	996	3910	3400
S4-5'	H501302	Release Area	5/20/2015	Backhoe	5'	1.86	85.6	807	784
S4-7'	H501429	Release Area	5/20/2015	Backhoe	7'	N/A	N/A	N/A	96
S4-9'	H501429	Release Area	5/20/2015	Backhoe	9'	N/A	N/A	N/A	48
S5-1'	H501302	Release Area	5/20/2015	Backhoe	1'	< 0.3	<10.0	<10.0	64
S5-3'	H501302	Release Area	5/20/2015	Backhoe	3'	< 0.3	<10.0	<10.0	3440
S5-5'	H501429	Release Area	5/20/2015	Backhoe	5'	N/A	N/A	N/A	<16.0
S5-7'	H501429	Release Area	5/20/2015	Backhoe	7'	N/A	N/A	N/A	<16.0
S5-9'	H501429	Release Area	5/20/2015	Backhoe	9'	N/A	Ń/A	Ń/A	256
S6-1'	H501302	Release Area	5/20/2015	Backhoe	1'	< 0.3	<10.0	<10.0	4720
S6-3'	H501302	Release Area	5/20/2015	Backhoe	3'	< 0.3	<10.0	<10.0	4400
S6-5'	H501429	Release Area	5/20/2015	Backhoe	5'	N/A	N/A	N/A	400
S6-7'	H501429	Release Area	5/20/2015	Backhoe	7'	Ń/A	Ń/A	Ń/A	32
S6-9'	H501429	Release Area	5/20/2015	Backhoe	9'	Ń/A	Ń/A	Ń/A	96
S7-1'	H501302	Release Area	5/21/2015	Backhoe	1'	< 0.3	<10.0	<10.0	16400
\$7-3'	H501302	Release Area	5/21/2015	Backhoe	3'	< 0.3	<10.0	<10.0	4560
S7-5'	H501429	Release Area	5/21/2015	Backhoe	5'	N/A	N/A	N/A	96
S7-7'	H501429	Release Area	5/21/2015	Backhoe	7'	Ň/A	Ń/A	Ń/A	<16.0
\$7-9'	H501429	Release Area	5/21/2015	Backhoe	9'	Ň/A	Ń/A	Ń/A	80
S8-1'	H501302	Release Area	5/21/2015	Backhoe	1'	31.4	1440	11900	3840
<u>S8-3'</u>	H501302	Release Area	5/21/2015	Backhoe	3'	< 0.3	<10.0	<10.0	21200
S8-5'	H501429	Release Area	5/21/2015	Backhoe	5'	N/A	N/A	N/A	<16.0
S8-7'	H501429	Release Area	5/21/2015	Backhoe	7'	N/A	Ń/A	Ń/A	64
<u>S8-9'</u>	H501429	Release Area	5/21/2015	Backhoe	9'	Ń/A	Ń/A	Ń/A	48
\$9-1	H501302	Release Area	5/21/2015	Backhoe	1'	< 0.3	<10.0	<10.0	4320
\$9-3'	H501302	Release Area	5/21/2015	Backhoe	3'	< 0.3	<10.0	<10.0	2000
\$9-5'	H501429	Release Area	5/21/2015	Backhoe	5'	N/A	N/A	N/A	112
S9-7'	H501429	Release Area	5/21/2015	Backhoe	7'	N/A	N/A	N/A	<16.0
<u>S9-9'</u>	H501429	Release Area	5/21/2015	Backhoe	9'	N/A	N/A	N/A	96
S10-1	H501302	Release Area	5/21/2015	Backhoe	1'	< 0.3	<10.0		8400
S10-3	H501302	Release Area	5/21/2015	Backhoe	3'	< 0.3	<10.0	<10.0	1360
S10-5	H501429	Release Area	5/21/2015	Backhoe	5'	N/A	N/A	N/A	112
S10-7	H501429	Release Area	5/21/2015	Backhoe	7'	N/A	N/A	N/A	224
S11-1'	H501302	Release Area	5/21/2015	Backhoe	, 1'	< 0.3	<10.0	<10.0	12200
S11-3	H501302	Release Area	5/21/2015	Backhoe	3'	<0.3	<10.0	<10.0	3440
<u>S11-5</u>	H501429	Release Area	5/21/2015	Backhoe	5'	N/A	N/A	N/A	<16.0
S11-7	H501429	Release Area	5/21/2015	Backhoe	7'	N/A	N/A	N/A	<16.0
J /			(0) > 100' (10)						10.0

Site Ranking is Zero (0). >100' (105', Section 3, T23S-R31E, Trend Map All results are ppm. Chlorides for documentation Released: 5 B/O & 2000 B/PW; Recovered: 5 B/O & 1620 B/PW Release Date: 04/27/2015





June 01, 2015

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

RE: GLOW WORM ALX FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/22/15 15:20.

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

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

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	05/22/2015	Sampling Date:	05/20/2015
Reported:	06/01/2015	Sampling Type:	Soil
Project Name:	GLOW WORM ALX FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S 1 - 1' (H501302-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2015	ND	1.80	89.9	2.00	2.19	
Toluene*	<0.050	0.050	05/27/2015	ND	1.93	96.4	2.00	1.99	
Ethylbenzene*	<0.050	0.050	05/27/2015	ND	1.91	95.5	2.00	2.78	
Total Xylenes*	<0.150	0.150	05/27/2015	ND	5.63	93.9	6.00	2.19	
Total BTEX	<0.300	0.300	05/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 %	61-154							
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	05/28/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/26/2015	ND	177	88.3	200	4.29	
DRO >C10-C28	<10.0	10.0	05/26/2015	ND	188	94.0	200	6.98	
Surrogate: 1-Chlorooctane	102 9	47.2-15	7						
Surrogate: 1-Chlorooctadecane	116 %	6 52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/22/2015	Sampling Date:	05/20/2015
Reported:	06/01/2015	Sampling Type:	Soil
Project Name:	GLOW WORM ALX FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S 1 - 3' (H501302-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2015	ND	1.69	84.3	2.00	1.06	
Toluene*	<0.050	0.050	05/27/2015	ND	1.79	89.7	2.00	1.65	
Ethylbenzene*	<0.050	0.050	05/27/2015	ND	1.78	88.9	2.00	3.20	
Total Xylenes*	<0.150	0.150	05/27/2015	ND	5.20	86.7	6.00	3.41	
Total BTEX	<0.300	0.300	05/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 %	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/28/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/26/2015	ND	177	88.3	200	4.29	
DRO >C10-C28	<10.0	10.0	05/26/2015	ND	188	94.0	200	6.98	
Surrogate: 1-Chlorooctane	103 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	113 %	6 52.1-17	6						

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/22/2015	Sampling Date:	05/20/2015
Reported:	06/01/2015	Sampling Type:	Soil
Project Name:	GLOW WORM ALX FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S 2 - 1' (H501302-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2015	ND	1.69	84.3	2.00	1.06	
Toluene*	<0.050	0.050	05/27/2015	ND	1.79	89.7	2.00	1.65	
Ethylbenzene*	<0.050	0.050	05/27/2015	ND	1.78	88.9	2.00	3.20	
Total Xylenes*	<0.150	0.150	05/27/2015	ND	5.20	86.7	6.00	3.41	
Total BTEX	<0.300	0.300	05/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 %	61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	05/28/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/26/2015	ND	177	88.3	200	4.29	
DRO >C10-C28	34.8	10.0	05/26/2015	ND	188	94.0	200	6.98	
Surrogate: 1-Chlorooctane	103 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	118 %	6 52.1-17	6						

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/22/2015	Sampling Date:	05/20/2015
Reported:	06/01/2015	Sampling Type:	Soil
Project Name:	GLOW WORM ALX FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S 2 - 2' (H501302-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2015	ND	1.69	84.3	2.00	1.06	
Toluene*	<0.050	0.050	05/27/2015	ND	1.79	89.7	2.00	1.65	
Ethylbenzene*	<0.050	0.050	05/27/2015	ND	1.78	88.9	2.00	3.20	
Total Xylenes*	<0.150	0.150	05/27/2015	ND	5.20	86.7	6.00	3.41	
Total BTEX	<0.300	0.300	05/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 %	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	05/28/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/26/2015	ND	177	88.3	200	4.29	
DRO >C10-C28	<10.0	10.0	05/26/2015	ND	188	94.0	200	6.98	
Surrogate: 1-Chlorooctane	102 9	47.2-15	7						
Surrogate: 1-Chlorooctadecane	114 9	6 52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/22/2015	Sampling Date:	05/20/2015
Reported:	06/01/2015	Sampling Type:	Soil
Project Name:	GLOW WORM ALX FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S 3 - 1' (H501302-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2015	ND	1.69	84.3	2.00	1.06	
Toluene*	<0.050	0.050	05/27/2015	ND	1.79	89.7	2.00	1.65	
Ethylbenzene*	<0.050	0.050	05/27/2015	ND	1.78	88.9	2.00	3.20	
Total Xylenes*	<0.150	0.150	05/27/2015	ND	5.20	86.7	6.00	3.41	
Total BTEX	<0.300	0.300	05/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 %	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	05/28/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/27/2015	ND	178	88.8	200	1.59	
DRO >C10-C28	<10.0	10.0	05/27/2015	ND	190	94.8	200	1.68	
Surrogate: 1-Chlorooctane	101 9	47.2-15	7						
Surrogate: 1-Chlorooctadecane	116 %	6 52.1-17	,						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/22/2015	Sampling Date:	05/20/2015
Reported:	06/01/2015	Sampling Type:	Soil
Project Name:	GLOW WORM ALX FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S 3 - 2' (H501302-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2015	ND	1.69	84.3	2.00	1.06	
Toluene*	<0.050	0.050	05/27/2015	ND	1.79	89.7	2.00	1.65	
Ethylbenzene*	<0.050	0.050	05/27/2015	ND	1.78	88.9	2.00	3.20	
Total Xylenes*	<0.150	0.150	05/27/2015	ND	5.20	86.7	6.00	3.41	
Total BTEX	<0.300	0.300	05/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 %	61-154							
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	05/28/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	zed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/27/2015	ND	178	88.8	200	1.59	
DRO >C10-C28	<10.0	10.0	05/27/2015	ND	190	94.8	200	1.68	
Surrogate: 1-Chlorooctane	97.7	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	117 %	52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/22/2015	Sampling Date:	05/20/2015
Reported:	06/01/2015	Sampling Type:	Soil
Project Name:	GLOW WORM ALX FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S 4 - 1' (H501302-07)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	05/27/2015	ND	1.69	84.3	2.00	1.06	
Toluene*	7.54	0.200	05/27/2015	ND	1.79	89.7	2.00	1.65	
Ethylbenzene*	6.22	0.200	05/27/2015	ND	1.78	88.9	2.00	3.20	
Total Xylenes*	19.5	0.600	05/27/2015	ND	5.20	86.7	6.00	3.41	
Total BTEX	33.2	1.20	05/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	128	% 61-154	1						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3880	16.0	05/28/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	633	50.0	05/27/2015	ND	178	88.8	200	1.59	
DRO >C10-C28	3160	50.0	05/27/2015	ND	190	94.8	200	1.68	
Surrogate: 1-Chlorooctane	151	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	159	% 52.1-17	6						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/22/2015	Sampling Date:	05/20/2015
Reported:	06/01/2015	Sampling Type:	Soil
Project Name:	GLOW WORM ALX FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S 4 - 3' (H501302-08)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	05/27/2015	ND	1.69	84.3	2.00	1.06	
Toluene*	9.50	0.500	05/27/2015	ND	1.79	89.7	2.00	1.65	
Ethylbenzene*	8.40	0.500	05/27/2015	ND	1.78	88.9	2.00	3.20	
Total Xylenes*	37.0	1.50	05/27/2015	ND	5.20	86.7	6.00	3.41	
Total BTEX	54.9	3.00	05/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	147 :	% 61-154	1						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3400	16.0	05/28/2015	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	996	50.0	05/27/2015	ND	178	88.8	200	1.59	
DRO >C10-C28	3910	50.0	05/27/2015	ND	190	94.8	200	1.68	
Surrogate: 1-Chlorooctane	160	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	153	% 52.1-17	6						

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

Received:	05/22/2015	Sampling Date:	05/20/2015
Reported:	06/01/2015	Sampling Type:	Soil
Project Name:	GLOW WORM ALX FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S 4 - 5' (H501302-09)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2015	ND	1.69	84.3	2.00	1.06	
Toluene*	0.077	0.050	05/27/2015	ND	1.79	89.7	2.00	1.65	
Ethylbenzene*	0.288	0.050	05/27/2015	ND	1.78	88.9	2.00	3.20	
Total Xylenes*	1.49	0.150	05/27/2015	ND	5.20	86.7	6.00	3.41	
Total BTEX	1.86	0.300	05/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	149	% 61-154	1						
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	05/28/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	85.6	10.0	05/27/2015	ND	178	88.8	200	1.59	
DRO >C10-C28	807	10.0	05/27/2015	ND	190	94.8	200	1.68	
Surrogate: 1-Chlorooctane	113 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	124	% 52.1-17	6						

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

Received:	05/22/2015	Sampling Date:	05/20/2015
Reported:	06/01/2015	Sampling Type:	Soil
Project Name:	GLOW WORM ALX FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S 5 - 1' (H501302-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2015	ND	1.69	84.3	2.00	1.06	
Toluene*	<0.050	0.050	05/27/2015	ND	1.79	89.7	2.00	1.65	
Ethylbenzene*	<0.050	0.050	05/27/2015	ND	1.78	88.9	2.00	3.20	
Total Xylenes*	<0.150	0.150	05/27/2015	ND	5.20	86.7	6.00	3.41	
Total BTEX	<0.300	0.300	05/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 %	61-154							
Chloride, SM4500CI-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	05/28/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	alyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/27/2015	ND	178	88.8	200	1.59	
DRO >C10-C28	<10.0	10.0	05/27/2015	ND	190	94.8	200	1.68	
Surrogate: 1-Chlorooctane	95.9 9	47.2-15	7						
Surrogate: 1-Chlorooctadecane	119 %	6 52.1-17	6						

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

Received:	05/22/2015	Sampling Date:	05/20/2015
Reported:	06/01/2015	Sampling Type:	Soil
Project Name:	GLOW WORM ALX FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S 5 - 3' (H501302-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2015	ND	1.69	84.3	2.00	1.06	
Toluene*	<0.050	0.050	05/27/2015	ND	1.79	89.7	2.00	1.65	
Ethylbenzene*	<0.050	0.050	05/27/2015	ND	1.78	88.9	2.00	3.20	
Total Xylenes*	<0.150	0.150	05/27/2015	ND	5.20	86.7	6.00	3.41	
Total BTEX	<0.300	0.300	05/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 %	61-154	1						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	05/28/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/27/2015	ND	178	88.8	200	1.59	
DRO >C10-C28	<10.0	10.0	05/27/2015	ND	190	94.8	200	1.68	
Surrogate: 1-Chlorooctane	107 9	47.2-15	7						
Surrogate: 1-Chlorooctadecane									

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Received:	05/22/2015	Sampling Date:	05/20/2015
Reported:	06/01/2015	Sampling Type:	Soil
Project Name:	GLOW WORM ALX FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S 6 - 1' (H501302-12)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2015	ND	1.69	84.3	2.00	1.06	
Toluene*	<0.050	0.050	05/27/2015	ND	1.79	89.7	2.00	1.65	
Ethylbenzene*	<0.050	0.050	05/27/2015	ND	1.78	88.9	2.00	3.20	
Total Xylenes*	<0.150	0.150	05/27/2015	ND	5.20	86.7	6.00	3.41	
Total BTEX	<0.300	0.300	05/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 %	61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	05/28/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/27/2015	ND	178	88.8	200	1.59	
DRO >C10-C28	<10.0	10.0	05/27/2015	ND	190	94.8	200	1.68	
Surrogate: 1-Chlorooctane	101 9	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	115 %	6 52.1-17	1						

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

Received:	05/22/2015	Sampling Date:	05/20/2015
Reported:	06/01/2015	Sampling Type:	Soil
Project Name:	GLOW WORM ALX FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S 6 - 3' (H501302-13)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2015	ND	1.69	84.3	2.00	1.06	
Toluene*	<0.050	0.050	05/27/2015	ND	1.79	89.7	2.00	1.65	
Ethylbenzene*	<0.050	0.050	05/27/2015	ND	1.78	88.9	2.00	3.20	
Total Xylenes*	<0.150	0.150	05/27/2015	ND	5.20	86.7	6.00	3.41	
Total BTEX	<0.300	0.300	05/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 %	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	05/28/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/27/2015	ND	178	88.8	200	1.59	
DRO >C10-C28	<10.0	10.0	05/27/2015	ND	190	94.8	200	1.68	
Surrogate: 1-Chlorooctane	92.0	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	107 9	52.1-17	6						

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

Received:	05/22/2015	Sampling Date:	05/21/2015
Reported:	06/01/2015	Sampling Type:	Soil
Project Name:	GLOW WORM ALX FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S 7 - 1' (H501302-14)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2015	ND	1.69	84.3	2.00	1.06	
Toluene*	<0.050	0.050	05/27/2015	ND	1.79	89.7	2.00	1.65	
Ethylbenzene*	<0.050	0.050	05/27/2015	ND	1.78	88.9	2.00	3.20	
Total Xylenes*	<0.150	0.150	05/27/2015	ND	5.20	86.7	6.00	3.41	
Total BTEX	<0.300	0.300	05/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 %	61-154	!						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16400	16.0	05/28/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/27/2015	ND	178	88.8	200	1.59	
DRO >C10-C28	<10.0	10.0	05/27/2015	ND	190	94.8	200	1.68	
Surrogate: 1-Chlorooctane	102 9	47.2-15	7						
Surrogate: 1-Chlorooctadecane	116 %	6 52.1-17							

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

Received:	05/22/2015	Sampling Date:	05/21/2015
Reported:	06/01/2015	Sampling Type:	Soil
Project Name:	GLOW WORM ALX FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S 7 - 3' (H501302-15)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2015	ND	1.69	84.3	2.00	1.06	
Toluene*	<0.050	0.050	05/27/2015	ND	1.79	89.7	2.00	1.65	
Ethylbenzene*	<0.050	0.050	05/27/2015	ND	1.78	88.9	2.00	3.20	
Total Xylenes*	<0.150	0.150	05/27/2015	ND	5.20	86.7	6.00	3.41	
Total BTEX	<0.300	0.300	05/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 %	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	05/28/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/27/2015	ND	178	88.8	200	1.59	
DRO >C10-C28	<10.0	10.0	05/27/2015	ND	190	94.8	200	1.68	
Surrogate: 1-Chlorooctane	105 9	47.2-15	7						
Surrogate: 1-Chlorooctadecane	119 9	6 52.1-17							

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

Received:	05/22/2015	Sampling Date:	05/21/2015
Reported:	06/01/2015	Sampling Type:	Soil
Project Name:	GLOW WORM ALX FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S 8 - 1' (H501302-16)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	05/27/2015	ND	1.69	84.3	2.00	1.06	
Toluene*	1.64	1.00	05/27/2015	ND	1.79	89.7	2.00	1.65	
Ethylbenzene*	4.58	1.00	05/27/2015	ND	1.78	88.9	2.00	3.20	
Total Xylenes*	25.2	3.00	05/27/2015	ND	5.20	86.7	6.00	3.41	
Total BTEX	31.4	6.00	05/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	135	% 61-154	1						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	05/28/2015	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS			S-0	S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1440	50.0	05/27/2015	ND	178	88.8	200	1.59	
DRO >C10-C28	11900	50.0	05/27/2015	ND	190	94.8	200	1.68	
Surrogate: 1-Chlorooctane	192	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	272	% 52.1-17	6						

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

Received:	05/22/2015	Sampling Date:	05/21/2015
Reported:	06/01/2015	Sampling Type:	Soil
Project Name:	GLOW WORM ALX FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S 8 - 3' (H501302-17)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2015	ND	1.69	84.3	2.00	1.06	
Toluene*	<0.050	0.050	05/27/2015	ND	1.79	89.7	2.00	1.65	
Ethylbenzene*	<0.050	0.050	05/27/2015	ND	1.78	88.9	2.00	3.20	
Total Xylenes*	<0.150	0.150	05/27/2015	ND	5.20	86.7	6.00	3.41	
Total BTEX	<0.300	0.300	05/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 %	% 61-154	!						
Chloride, SM4500CI-B	mg/	'kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21200	16.0	05/28/2015	ND	416	104	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	05/27/2015	ND	178	88.8	200	1.59	
DRO >C10-C28	<10.0	10.0	05/27/2015	ND	190	94.8	200	1.68	
Surrogate: 1-Chlorooctane	101 9	47.2-15	7						
Surrogate: 1-Chlorooctadecane	116 %	52.1-17	6						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	05/22/2015	Sampling Date:	05/21/2015
Reported:	06/01/2015	Sampling Type:	Soil
Project Name:	GLOW WORM ALX FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S 9 - 1' (H501302-18)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2015	ND	1.69	84.3	2.00	1.06	
Toluene*	<0.050	0.050	05/27/2015	ND	1.79	89.7	2.00	1.65	
Ethylbenzene*	<0.050	0.050	05/27/2015	ND	1.78	88.9	2.00	3.20	
Total Xylenes*	<0.150	0.150	05/27/2015	ND	5.20	86.7	6.00	3.41	
Total BTEX	<0.300	0.300	05/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 %	61-154							
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	05/28/2015	ND	416	104	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	05/27/2015	ND	178	88.8	200	1.59	
DRO >C10-C28	<10.0	10.0	05/27/2015	ND	190	94.8	200	1.68	
Surrogate: 1-Chlorooctane	105 9	47.2-15	7						
Surrogate: 1-Chlorooctadecane	119 %	6 52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/22/2015	Sampling Date:	05/21/2015
Reported:	06/01/2015	Sampling Type:	Soil
Project Name:	GLOW WORM ALX FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S 9 - 3' (H501302-19)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2015	ND	1.69	84.3	2.00	1.06	
Toluene*	<0.050	0.050	05/27/2015	ND	1.79	89.7	2.00	1.65	
Ethylbenzene*	<0.050	0.050	05/27/2015	ND	1.78	88.9	2.00	3.20	
Total Xylenes*	<0.150	0.150	05/27/2015	ND	5.20	86.7	6.00	3.41	
Total BTEX	<0.300	0.300	05/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 %	61-154	1						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	05/28/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS	S				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/27/2015	ND	178	88.8	200	1.59	
DRO >C10-C28	<10.0	10.0	05/27/2015	ND	190	94.8	200	1.68	
Surrogate: 1-Chlorooctane	102 9	47.2-15	7						
Surrogate: 1-Chlorooctadecane	118 %	6 52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/22/2015	Sampling Date:	05/21/2015
Reported:	06/01/2015	Sampling Type:	Soil
Project Name:	GLOW WORM ALX FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S 10 - 1' (H501302-20)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2015	ND	1.69	84.3	2.00	1.06	
Toluene*	<0.050	0.050	05/27/2015	ND	1.79	89.7	2.00	1.65	
Ethylbenzene*	<0.050	0.050	05/27/2015	ND	1.78	88.9	2.00	3.20	
Total Xylenes*	<0.150	0.150	05/27/2015	ND	5.20	86.7	6.00	3.41	
Total BTEX	<0.300	0.300	05/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 %	61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8400	16.0	05/28/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/27/2015	ND	178	88.8	200	1.59	
DRO >C10-C28	<10.0	10.0	05/27/2015	ND	190	94.8	200	1.68	
Surrogate: 1-Chlorooctane	104 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	119 %	6 52.1-17	6						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/22/2015	Sampling Date:	05/21/2015
Reported:	06/01/2015	Sampling Type:	Soil
Project Name:	GLOW WORM ALX FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S 10 - 3' (H501302-21)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2015	ND	1.69	84.3	2.00	1.06	
Toluene*	<0.050	0.050	05/27/2015	ND	1.79	89.7	2.00	1.65	
Ethylbenzene*	<0.050	0.050	05/27/2015	ND	1.78	88.9	2.00	3.20	
Total Xylenes*	<0.150	0.150	05/27/2015	ND	5.20	86.7	6.00	3.41	
Total BTEX	<0.300	0.300	05/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 %	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	05/27/2015	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/27/2015	ND	178	88.8	200	1.59	
DRO >C10-C28	<10.0	10.0	05/27/2015	ND	190	94.8	200	1.68	
Surrogate: 1-Chlorooctane	96.9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	117 9	6 52.1-17	6						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/22/2015	Sampling Date:	05/21/2015
Reported:	06/01/2015	Sampling Type:	Soil
Project Name:	GLOW WORM ALX FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S 11 - 1' (H501302-22)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2015	ND	1.83	91.4	2.00	0.634	
Toluene*	<0.050	0.050	05/28/2015	ND	1.87	93.3	2.00	1.71	
Ethylbenzene*	<0.050	0.050	05/28/2015	ND	1.75	87.5	2.00	3.91	
Total Xylenes*	<0.150	0.150	05/28/2015	ND	5.04	84.0	6.00	3.69	
Total BTEX	<0.300	0.300	05/28/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 %	61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12200	16.0	05/27/2015	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/27/2015	ND	178	88.8	200	1.59	
DRO >C10-C28	<10.0	10.0	05/27/2015	ND	190	94.8	200	1.68	
Surrogate: 1-Chlorooctane	107 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	122 %	6 52.1-17	6						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/22/2015	Sampling Date:	05/21/2015
Reported:	06/01/2015	Sampling Type:	Soil
Project Name:	GLOW WORM ALX FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S 11 - 3' (H501302-23)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/28/2015	ND	1.83	91.4	2.00	0.634	
Toluene*	<0.050	0.050	05/28/2015	ND	1.87	93.3	2.00	1.71	
Ethylbenzene*	<0.050	0.050	05/28/2015	ND	1.75	87.5	2.00	3.91	
Total Xylenes*	<0.150	0.150	05/28/2015	ND	5.04	84.0	6.00	3.69	
Total BTEX	<0.300	0.300	05/28/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 %	61-154	!						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	05/27/2015	ND	416	104	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/27/2015	ND	178	88.8	200	1.59	
DRO >C10-C28	<10.0	10.0	05/27/2015	ND	190	94.8	200	1.68	
Surrogate: 1-Chlorooctane	109 9	47.2-15	7						
Surrogate: 1-Chlorooctadecane	126 9	52.1-17	6						

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Celez D. Keine

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.
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 SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

	Relinquished by:	Relinguished by:	I Sor	Relinguished by:		Spacial Instructions:	9 S4-5'			5 S3-2'	S \$3-1'	4 S2-2'			S1-1'	LAB # (lab use only)	ORDER # 1001002	and the	Sampler Signature:	Telephone No: 575-748-4171	City/State/Zip: Artesia,	Company Address: 105 Sou	Comp: (505) 393-232£ Yates Petroleum Corporation	Project Manager: Chase Settle	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240
	Date	Date	5/22/2015	Date															C) NS	8-4171	Artesia, NM 88210	105 South 4th Street	etroleum Corporat	Settle	ORIES bs, NM 88240
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	ne			no												Ending Depth									
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pera	by Sampler/Client Rep. ? by Courier? UPS	Sample Hand Delivered	Labels on container(s) Custody seals on container(s) Custody seals on cooler(s)	VOCs Free of Headspace?	Laboratory Comments:					2	-					Anions (CI, SO4, Alkalinity)	ō	TCLP:		×	205. 0750				ND
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	Relinquished by:	P	Belinningsber hv. 5	Relinguished by:		Special Instructions:	19 S9-3'	15 S9-1'	17 58-3'	16 58-1'	15 ST-3'	14 S7-1'	13 S6-3'	12 S6-1		10 S5-1'	LAB # (lab use only)	ORDER# 100000		(lab use only)	Sampler Signature:	Telephone No: 575-748-4171	City/State/Zip: Artesia, NM 88210	Company Address: 105 South 4th Street	Comp: (505) 393-2326 Yates Petroleum Corporation	Project Manager: Chase Settle	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240
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lemperature Upon Receipt:		by Sampler/Client Rep. ?	Custody seals on container(s) Custody seals on cooler(s)	Labels on container(s)	Sample Containers Intact?	Laboratory Comments:											SAR / ESP / CEC		TOTAL:			X Standard	PO #: 205. 0750				DA
re U		nd D	als of	conta	ntair	Y Co											Metals: As Ag Ba Cd Cr Pb Hg Se	_		1		anda)750	Glo		Glo	NA
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	Relinquished by:		Relinquished hy	Relinquished by:	Special Instructions:						S11-3	-	27 S10-3	20 S10-1'	LAB # (lab use only)	ORDER # 1001000	(lab use only)	Sampler Signature:	Telephone No: 575-748-4171	City/State/Zip: Artesia, NM 88210	Company Address: 105 South 4th Street	Comp: (505) 393-2326 Yates Petroleum Corporation	Project Manager: Chase Settle	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240
	Date	Date	5/22/2015	Date														Ciry	171	M 88210	4th Street	oleum Corporation	ttle	NIES NM 88240
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June 10, 2015

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

RE: GLOW WORM ALX FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/03/15 14:15.

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

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

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	06/03/2015	Sampling Date:	05/20/2015
Reported:	06/10/2015	Sampling Type:	Soil
Project Name:	GLOW WORM ALX FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S2 - 3' (H501429-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/09/2015	ND	416	104	400	3.77	

Sample ID: S3 - 3' (H501429-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	06/09/2015	ND	416	104	400	3.77	

Sample ID: S3 - 4' (H501429-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	06/09/2015	ND	416	104	400	3.77	

Sample ID: S4 - 7' (H501429-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/09/2015	ND	416	104	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/03/2015	Sampling Date:	05/20/2015
Reported:	06/10/2015	Sampling Type:	Soil
Project Name:	GLOW WORM ALX FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S4 - 9' (H501429-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/09/2015	ND	416	104	400	3.77	

Sample ID: S5 - 5' (H501429-06)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/09/2015	ND	416	104	400	3.77		

Sample ID: S5 - 7' (H501429-07)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/09/2015	ND	416	104	400	3.77	

Sample ID: S5 - 9' (H501429-08)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/09/2015	ND	416	104	400	3.77	

Sample ID: S6 - 5' (H501429-09)

Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	06/09/2015	ND	416	104	400	3.77	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/03/2015	Sampling Date:	05/20/2015
Reported:	06/10/2015	Sampling Type:	Soil
Project Name:	GLOW WORM ALX FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S6 - 7' (H501429-10)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/09/2015	ND	416	104	400	3.77	

Sample ID: S6 - 9' (H501429-11)

Chloride, SM4500Cl-B	Analyze	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/09/2015	ND	416	104	400	3.77	

Sample ID: S7 - 5' (H501429-12)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/09/2015	ND	416	104	400	3.77	

Sample ID: S7 - 7' (H501429-13)

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	06/09/2015	ND	416	104	400	3.77	

Sample ID: S7 - 9' (H501429-14)

Chloride, SM4500Cl-B	mg/	′kg	Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/09/2015	ND	416	104	400	3.77	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/03/2015	Sampling Date:	05/21/2015
Reported:	06/10/2015	Sampling Type:	Soil
Project Name:	GLOW WORM ALX FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S8 - 5' (H501429-15)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/09/2015	ND	416	104	400	3.77	

Sample ID: S8 - 7' (H501429-16)

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/09/2015	ND	416	104	400	3.77	

Sample ID: S8 - 9' (H501429-17)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/09/2015	ND	416	104	400	3.77	

Sample ID: S9 - 5' (H501429-18)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/09/2015	ND	416	104	400	3.77	

Sample ID: S9 - 7' (H501429-19)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/09/2015	ND	416	104	400	3.77	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/03/2015	Sampling Date:	05/21/2015
Reported:	06/10/2015	Sampling Type:	Soil
Project Name:	GLOW WORM ALX FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S9 - 9' (H501429-20)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/09/2015	ND	416	104	400	3.77	

Sample ID: S10 - 5' (H501429-21)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/09/2015	ND	416	104	400	3.77	

Sample ID: S10 - 7' (H501429-22)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	06/09/2015	ND	416	104	400	3.77	

Sample ID: S11 - 5' (H501429-23)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/09/2015	ND	416	104	400	3.77	

Sample ID: S11 - 7' (H501429-24)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/09/2015	ND	416	104	400	3.77	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

- ND
 Analyte NOT DETECTED at or above the reporting limit

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

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 7 of 10

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Upo	Ľ,	I Del	s on	f He	Com	-	+	+	+	-	-	-	-	_	_		Metals: As Ag Ba Cd Cr Pb Hg Se	-	_	A		Idaro	50	Glow		low	AL
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Temperature Upon Receipt:	Sd	P.	Labels on container(s) Custody seals on container(s) Custody seals on cooler(s)	VOCs Free of Headspace?	Laboratory Comments: Sample Containers Intact?	F	+	+	+	+	+	-	+	-	-	-+	Semivolatiles BTEX 8021B/5030 or BTEX 8260	+	+	For						Glow Worm ALX Federal Batten	RI
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														FIELD CODE	14 cm	000	0	ature:	: 575-748-4171	Artesia, NM 88210	Company Address: 105 South 4th Street	Compt (505) 393-232t Yates Petroleum Corporation	Jer: Chase Settle	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240
Date	Date	bate Date																S	22	88210	th Street	eum Corporati		™ 88240
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