



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

April 25, 2016

Amber Griffin

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

RE: State CO SWD System (Johnston BE Battery)

OrderNo.: 1604667

Dear Amber Griffin:

Hall Environmental Analysis Laboratory received 24 sample(s) on 4/15/2016 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1604667

Date Reported: 4/25/2016

CLIENT: Yates Petroleum Corporation

Client Sample ID: 1-1'

Project: State CO SWD System (Johnston BE Bat

Collection Date: 4/13/2016 1:24:00 PM

Lab ID: 1604667-001

Matrix: SOIL

Received Date: 4/15/2016 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/19/2016 2:50:37 PM	24846
Surr: DNOP	77.0	70-130		%Rec	1	4/19/2016 2:50:37 PM	24846
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/18/2016 10:27:43 PM	24839
Surr: BFB	94.2	80-120		%Rec	1	4/18/2016 10:27:43 PM	24839
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/18/2016 10:27:43 PM	24839
Toluene	ND	0.047		mg/Kg	1	4/18/2016 10:27:43 PM	24839
Ethylbenzene	ND	0.047		mg/Kg	1	4/18/2016 10:27:43 PM	24839
Xylenes, Total	ND	0.095		mg/Kg	1	4/18/2016 10:27:43 PM	24839
Surr: 4-Bromofluorobenzene	94.5	80-120		%Rec	1	4/18/2016 10:27:43 PM	24839

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1604667

Date Reported: 4/25/2016

CLIENT: Yates Petroleum Corporation

Client Sample ID: 1-2'

Project: State CO SWD System (Johnston BE Bat

Collection Date: 4/13/2016 1:27:00 PM

Lab ID: 1604667-002

Matrix: SOIL

Received Date: 4/15/2016 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/19/2016 3:12:00 PM	24846
Surr: DNOP	75.8	70-130		%Rec	1	4/19/2016 3:12:00 PM	24846
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/18/2016 10:51:13 PM	24839
Surr: BFB	95.4	80-120		%Rec	1	4/18/2016 10:51:13 PM	24839
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	4/18/2016 10:51:13 PM	24839
Toluene	ND	0.047		mg/Kg	1	4/18/2016 10:51:13 PM	24839
Ethylbenzene	ND	0.047		mg/Kg	1	4/18/2016 10:51:13 PM	24839
Xylenes, Total	ND	0.093		mg/Kg	1	4/18/2016 10:51:13 PM	24839
Surr: 4-Bromofluorobenzene	95.0	80-120		%Rec	1	4/18/2016 10:51:13 PM	24839

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1604667

Date Reported: 4/25/2016

CLIENT: Yates Petroleum Corporation

Client Sample ID: 1-3'

Project: State CO SWD System (Johnston BE Bat

Collection Date: 4/13/2016 1:28:00 PM

Lab ID: 1604667-003

Matrix: SOIL

Received Date: 4/15/2016 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/19/2016 3:33:36 PM	24846
Surr: DNOP	76.3	70-130		%Rec	1	4/19/2016 3:33:36 PM	24846
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/18/2016 11:14:44 PM	24839
Surr: BFB	94.3	80-120		%Rec	1	4/18/2016 11:14:44 PM	24839
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	4/18/2016 11:14:44 PM	24839
Toluene	ND	0.047		mg/Kg	1	4/18/2016 11:14:44 PM	24839
Ethylbenzene	ND	0.047		mg/Kg	1	4/18/2016 11:14:44 PM	24839
Xylenes, Total	ND	0.094		mg/Kg	1	4/18/2016 11:14:44 PM	24839
Surr: 4-Bromofluorobenzene	93.7	80-120		%Rec	1	4/18/2016 11:14:44 PM	24839

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1604667

Date Reported: 4/25/2016

CLIENT: Yates Petroleum Corporation

Client Sample ID: 1-4'

Project: State CO SWD System (Johnston BE Bat

Collection Date: 4/13/2016 1:31:00 PM

Lab ID: 1604667-004

Matrix: SOIL

Received Date: 4/15/2016 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/19/2016 3:55:04 PM	24846
Surr: DNOP	76.2	70-130		%Rec	1	4/19/2016 3:55:04 PM	24846
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/19/2016 12:35:32 PM	24839
Surr: BFB	97.2	80-120		%Rec	1	4/19/2016 12:35:32 PM	24839
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	0.038	0.023		mg/Kg	1	4/19/2016 12:35:32 PM	24839
Toluene	ND	0.046		mg/Kg	1	4/19/2016 12:35:32 PM	24839
Ethylbenzene	ND	0.046		mg/Kg	1	4/19/2016 12:35:32 PM	24839
Xylenes, Total	ND	0.092		mg/Kg	1	4/19/2016 12:35:32 PM	24839
Surr: 4-Bromofluorobenzene	96.6	80-120		%Rec	1	4/19/2016 12:35:32 PM	24839

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1604667

Date Reported: 4/25/2016

CLIENT: Yates Petroleum Corporation

Client Sample ID: 1-5'

Project: State CO SWD System (Johnston BE Bat

Collection Date: 4/13/2016 1:34:00 PM

Lab ID: 1604667-005

Matrix: SOIL

Received Date: 4/15/2016 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/19/2016 4:16:43 PM	24846
Surr: DNOP	76.9	70-130		%Rec	1	4/19/2016 4:16:43 PM	24846
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/19/2016 12:59:11 PM	24839
Surr: BFB	95.1	80-120		%Rec	1	4/19/2016 12:59:11 PM	24839
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/19/2016 12:59:11 PM	24839
Toluene	ND	0.047		mg/Kg	1	4/19/2016 12:59:11 PM	24839
Ethylbenzene	ND	0.047		mg/Kg	1	4/19/2016 12:59:11 PM	24839
Xylenes, Total	ND	0.095		mg/Kg	1	4/19/2016 12:59:11 PM	24839
Surr: 4-Bromofluorobenzene	94.9	80-120		%Rec	1	4/19/2016 12:59:11 PM	24839

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1604667

Date Reported: 4/25/2016

CLIENT: Yates Petroleum Corporation

Client Sample ID: 1-6'

Project: State CO SWD System (Johnston BE Bat

Collection Date: 4/13/2016 1:37:00 PM

Lab ID: 1604667-006

Matrix: SOIL

Received Date: 4/15/2016 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/19/2016 4:38:10 PM	24846
Surr: DNOP	73.1	70-130		%Rec	1	4/19/2016 4:38:10 PM	24846
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/19/2016 1:22:52 PM	24839
Surr: BFB	95.3	80-120		%Rec	1	4/19/2016 1:22:52 PM	24839
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/19/2016 1:22:52 PM	24839
Toluene	ND	0.049		mg/Kg	1	4/19/2016 1:22:52 PM	24839
Ethylbenzene	ND	0.049		mg/Kg	1	4/19/2016 1:22:52 PM	24839
Xylenes, Total	ND	0.098		mg/Kg	1	4/19/2016 1:22:52 PM	24839
Surr: 4-Bromofluorobenzene	95.6	80-120		%Rec	1	4/19/2016 1:22:52 PM	24839

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1604667

Date Reported: 4/25/2016

CLIENT: Yates Petroleum Corporation

Client Sample ID: 1-7'

Project: State CO SWD System (Johnston BE Bat

Collection Date: 4/13/2016 1:40:00 PM

Lab ID: 1604667-007

Matrix: SOIL

Received Date: 4/15/2016 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/19/2016 4:59:52 PM	24846
Surr: DNOP	75.0	70-130		%Rec	1	4/19/2016 4:59:52 PM	24846
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/19/2016 1:59:04 AM	24840
Surr: BFB	94.6	80-120		%Rec	1	4/19/2016 1:59:04 AM	24840
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/19/2016 1:59:04 AM	24840
Toluene	ND	0.050		mg/Kg	1	4/19/2016 1:59:04 AM	24840
Ethylbenzene	ND	0.050		mg/Kg	1	4/19/2016 1:59:04 AM	24840
Xylenes, Total	ND	0.099		mg/Kg	1	4/19/2016 1:59:04 AM	24840
Surr: 4-Bromofluorobenzene	94.7	80-120		%Rec	1	4/19/2016 1:59:04 AM	24840

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1604667

Date Reported: 4/25/2016

CLIENT: Yates Petroleum Corporation

Client Sample ID: 1-8'

Project: State CO SWD System (Johnston BE Bat

Collection Date: 4/13/2016 1:45:00 PM

Lab ID: 1604667-008

Matrix: SOIL

Received Date: 4/15/2016 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/19/2016 5:21:23 PM	24846
Surr: DNOP	72.9	70-130		%Rec	1	4/19/2016 5:21:23 PM	24846
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/19/2016 2:33:44 PM	24840
Surr: BFB	91.7	80-120		%Rec	1	4/19/2016 2:33:44 PM	24840
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/19/2016 2:33:44 PM	24840
Toluene	ND	0.049		mg/Kg	1	4/19/2016 2:33:44 PM	24840
Ethylbenzene	ND	0.049		mg/Kg	1	4/19/2016 2:33:44 PM	24840
Xylenes, Total	ND	0.099		mg/Kg	1	4/19/2016 2:33:44 PM	24840
Surr: 4-Bromofluorobenzene	92.7	80-120		%Rec	1	4/19/2016 2:33:44 PM	24840

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1604667

Date Reported: 4/25/2016

CLIENT: Yates Petroleum Corporation

Client Sample ID: 1-9'

Project: State CO SWD System (Johnston BE Bat

Collection Date: 4/13/2016 1:48:00 PM

Lab ID: 1604667-009

Matrix: SOIL

Received Date: 4/15/2016 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/19/2016 5:43:03 PM	24846
Surr: DNOP	72.8	70-130		%Rec	1	4/19/2016 5:43:03 PM	24846
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/19/2016 2:45:54 AM	24840
Surr: BFB	94.9	80-120		%Rec	1	4/19/2016 2:45:54 AM	24840
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/19/2016 2:45:54 AM	24840
Toluene	ND	0.050		mg/Kg	1	4/19/2016 2:45:54 AM	24840
Ethylbenzene	ND	0.050		mg/Kg	1	4/19/2016 2:45:54 AM	24840
Xylenes, Total	ND	0.099		mg/Kg	1	4/19/2016 2:45:54 AM	24840
Surr: 4-Bromofluorobenzene	94.3	80-120		%Rec	1	4/19/2016 2:45:54 AM	24840

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: 1-10'

Project: State CO SWD System (Johnston BE Bat

Collection Date: 4/13/2016 1:53:00 PM

Lab ID: 1604667-010

Matrix: SOIL

Received Date: 4/15/2016 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/19/2016 6:04:37 PM	24846
Surr: DNOP	73.5	70-130		%Rec	1	4/19/2016 6:04:37 PM	24846
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/19/2016 3:09:20 AM	24840
Surr: BFB	93.4	80-120		%Rec	1	4/19/2016 3:09:20 AM	24840
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/19/2016 3:09:20 AM	24840
Toluene	ND	0.050		mg/Kg	1	4/19/2016 3:09:20 AM	24840
Ethylbenzene	ND	0.050		mg/Kg	1	4/19/2016 3:09:20 AM	24840
Xylenes, Total	ND	0.10		mg/Kg	1	4/19/2016 3:09:20 AM	24840
Surr: 4-Bromofluorobenzene	91.5	80-120		%Rec	1	4/19/2016 3:09:20 AM	24840

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1604667

Date Reported: 4/25/2016

CLIENT: Yates Petroleum Corporation

Client Sample ID: 2-1'

Project: State CO SWD System (Johnston BE Bat

Collection Date: 4/13/2016 2:10:00 PM

Lab ID: 1604667-011

Matrix: SOIL

Received Date: 4/15/2016 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/20/2016 8:26:22 PM	24847
Surr: DNOP	89.8	70-130		%Rec	1	4/20/2016 8:26:22 PM	24847
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/19/2016 3:32:59 AM	24840
Surr: BFB	101	80-120		%Rec	1	4/19/2016 3:32:59 AM	24840
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	0.081	0.023		mg/Kg	1	4/19/2016 3:32:59 AM	24840
Toluene	0.15	0.046		mg/Kg	1	4/19/2016 3:32:59 AM	24840
Ethylbenzene	0.11	0.046		mg/Kg	1	4/19/2016 3:32:59 AM	24840
Xylenes, Total	ND	0.093		mg/Kg	1	4/19/2016 3:32:59 AM	24840
Surr: 4-Bromofluorobenzene	97.6	80-120		%Rec	1	4/19/2016 3:32:59 AM	24840

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

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Client Sample ID: 2-2'

Project: State CO SWD System (Johnston BE Bat

Collection Date: 4/13/2016 2:12:00 PM

Lab ID: 1604667-012

Matrix: SOIL

Received Date: 4/15/2016 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/20/2016 8:48:15 PM	24847
Surr: DNOP	87.8	70-130		%Rec	1	4/20/2016 8:48:15 PM	24847
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/19/2016 3:56:34 AM	24840
Surr: BFB	95.7	80-120		%Rec	1	4/19/2016 3:56:34 AM	24840
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	0.14	0.025		mg/Kg	1	4/19/2016 3:56:34 AM	24840
Toluene	0.12	0.049		mg/Kg	1	4/19/2016 3:56:34 AM	24840
Ethylbenzene	ND	0.049		mg/Kg	1	4/19/2016 3:56:34 AM	24840
Xylenes, Total	ND	0.098		mg/Kg	1	4/19/2016 3:56:34 AM	24840
Surr: 4-Bromofluorobenzene	95.2	80-120		%Rec	1	4/19/2016 3:56:34 AM	24840

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1604667

Date Reported: 4/25/2016

CLIENT: Yates Petroleum Corporation

Client Sample ID: 2-3'

Project: State CO SWD System (Johnston BE Bat

Collection Date: 4/13/2016 2:14:00 PM

Lab ID: 1604667-013

Matrix: SOIL

Received Date: 4/15/2016 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	4/20/2016 9:10:03 PM	24847
Surr: DNOP	89.1	70-130		%Rec	1	4/20/2016 9:10:03 PM	24847
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/19/2016 4:20:07 AM	24840
Surr: BFB	93.9	80-120		%Rec	1	4/19/2016 4:20:07 AM	24840
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	4/19/2016 4:20:07 AM	24840
Toluene	ND	0.046		mg/Kg	1	4/19/2016 4:20:07 AM	24840
Ethylbenzene	ND	0.046		mg/Kg	1	4/19/2016 4:20:07 AM	24840
Xylenes, Total	ND	0.092		mg/Kg	1	4/19/2016 4:20:07 AM	24840
Surr: 4-Bromofluorobenzene	93.1	80-120		%Rec	1	4/19/2016 4:20:07 AM	24840

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1604667

Date Reported: 4/25/2016

CLIENT: Yates Petroleum Corporation

Client Sample ID: 2-4'

Project: State CO SWD System (Johnston BE Bat

Collection Date: 4/13/2016 2:18:00 PM

Lab ID: 1604667-014

Matrix: SOIL

Received Date: 4/15/2016 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/20/2016 9:31:54 PM	24847
Surr: DNOP	87.3	70-130		%Rec	1	4/20/2016 9:31:54 PM	24847
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/19/2016 3:44:11 PM	24840
Surr: BFB	96.2	80-120		%Rec	1	4/19/2016 3:44:11 PM	24840
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	0.028	0.025		mg/Kg	1	4/19/2016 3:44:11 PM	24840
Toluene	ND	0.049		mg/Kg	1	4/19/2016 3:44:11 PM	24840
Ethylbenzene	ND	0.049		mg/Kg	1	4/19/2016 3:44:11 PM	24840
Xylenes, Total	ND	0.098		mg/Kg	1	4/19/2016 3:44:11 PM	24840
Surr: 4-Bromofluorobenzene	99.0	80-120		%Rec	1	4/19/2016 3:44:11 PM	24840

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1604667

Date Reported: 4/25/2016

CLIENT: Yates Petroleum Corporation

Client Sample ID: 2-5'

Project: State CO SWD System (Johnston BE Bat

Collection Date: 4/13/2016 2:20:00 PM

Lab ID: 1604667-015

Matrix: SOIL

Received Date: 4/15/2016 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/20/2016 9:53:39 PM	24847
Surr: DNOP	87.6	70-130		%Rec	1	4/20/2016 9:53:39 PM	24847
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/19/2016 4:07:43 PM	24840
Surr: BFB	95.2	80-120		%Rec	1	4/19/2016 4:07:43 PM	24840
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/19/2016 4:07:43 PM	24840
Toluene	ND	0.047		mg/Kg	1	4/19/2016 4:07:43 PM	24840
Ethylbenzene	ND	0.047		mg/Kg	1	4/19/2016 4:07:43 PM	24840
Xylenes, Total	ND	0.095		mg/Kg	1	4/19/2016 4:07:43 PM	24840
Surr: 4-Bromofluorobenzene	96.8	80-120		%Rec	1	4/19/2016 4:07:43 PM	24840

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1604667

Date Reported: 4/25/2016

CLIENT: Yates Petroleum Corporation

Client Sample ID: 2-6'

Project: State CO SWD System (Johnston BE Bat

Collection Date: 4/13/2016 2:22:00 PM

Lab ID: 1604667-016

Matrix: SOIL

Received Date: 4/15/2016 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	4/20/2016 10:15:33 PM	24847
Surr: DNOP	88.4	70-130		%Rec	1	4/20/2016 10:15:33 PM	24847
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/19/2016 4:31:08 PM	24840
Surr: BFB	95.3	80-120		%Rec	1	4/19/2016 4:31:08 PM	24840
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	4/19/2016 4:31:08 PM	24840
Toluene	ND	0.046		mg/Kg	1	4/19/2016 4:31:08 PM	24840
Ethylbenzene	ND	0.046		mg/Kg	1	4/19/2016 4:31:08 PM	24840
Xylenes, Total	ND	0.092		mg/Kg	1	4/19/2016 4:31:08 PM	24840
Surr: 4-Bromofluorobenzene	96.9	80-120		%Rec	1	4/19/2016 4:31:08 PM	24840

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1604667

Date Reported: 4/25/2016

CLIENT: Yates Petroleum Corporation

Client Sample ID: 2-7'

Project: State CO SWD System (Johnston BE Bat

Collection Date: 4/13/2016 2:26:00 PM

Lab ID: 1604667-017

Matrix: SOIL

Received Date: 4/15/2016 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/20/2016 10:37:15 PM	24847
Surr: DNOP	80.6	70-130		%Rec	1	4/20/2016 10:37:15 PM	24847
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/19/2016 8:25:44 PM	24840
Surr: BFB	94.4	80-120		%Rec	1	4/19/2016 8:25:44 PM	24840
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/19/2016 8:25:44 PM	24840
Toluene	ND	0.049		mg/Kg	1	4/19/2016 8:25:44 PM	24840
Ethylbenzene	ND	0.049		mg/Kg	1	4/19/2016 8:25:44 PM	24840
Xylenes, Total	ND	0.098		mg/Kg	1	4/19/2016 8:25:44 PM	24840
Surr: 4-Bromofluorobenzene	95.1	80-120		%Rec	1	4/19/2016 8:25:44 PM	24840

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1604667

Date Reported: 4/25/2016

CLIENT: Yates Petroleum Corporation

Client Sample ID: 2-8'

Project: State CO SWD System (Johnston BE Bat

Collection Date: 4/13/2016 2:29:00 PM

Lab ID: 1604667-018

Matrix: SOIL

Received Date: 4/15/2016 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/20/2016 10:59:01 PM	24847
Surr: DNOP	82.9	70-130		%Rec	1	4/20/2016 10:59:01 PM	24847
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/19/2016 8:49:09 PM	24840
Surr: BFB	94.3	80-120		%Rec	1	4/19/2016 8:49:09 PM	24840
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	4/19/2016 8:49:09 PM	24840
Toluene	ND	0.046		mg/Kg	1	4/19/2016 8:49:09 PM	24840
Ethylbenzene	ND	0.046		mg/Kg	1	4/19/2016 8:49:09 PM	24840
Xylenes, Total	ND	0.092		mg/Kg	1	4/19/2016 8:49:09 PM	24840
Surr: 4-Bromofluorobenzene	94.9	80-120		%Rec	1	4/19/2016 8:49:09 PM	24840

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1604667

Date Reported: 4/25/2016

CLIENT: Yates Petroleum Corporation

Client Sample ID: 2-9'

Project: State CO SWD System (Johnston BE Bat

Collection Date: 4/13/2016 2:32:00 PM

Lab ID: 1604667-019

Matrix: SOIL

Received Date: 4/15/2016 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	4/20/2016 11:20:41 PM	24847
Surr: DNOP	85.0	70-130		%Rec	1	4/20/2016 11:20:41 PM	24847
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/19/2016 9:12:43 PM	24840
Surr: BFB	93.6	80-120		%Rec	1	4/19/2016 9:12:43 PM	24840
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	0.024	0.023		mg/Kg	1	4/19/2016 9:12:43 PM	24840
Toluene	ND	0.047		mg/Kg	1	4/19/2016 9:12:43 PM	24840
Ethylbenzene	ND	0.047		mg/Kg	1	4/19/2016 9:12:43 PM	24840
Xylenes, Total	ND	0.093		mg/Kg	1	4/19/2016 9:12:43 PM	24840
Surr: 4-Bromofluorobenzene	94.0	80-120		%Rec	1	4/19/2016 9:12:43 PM	24840

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1604667

Date Reported: 4/25/2016

CLIENT: Yates Petroleum Corporation

Client Sample ID: 2-10'

Project: State CO SWD System (Johnston BE Bat

Collection Date: 4/13/2016 2:36:00 PM

Lab ID: 1604667-020

Matrix: SOIL

Received Date: 4/15/2016 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/20/2016 11:42:31 PM	24847
Surr: DNOP	83.0	70-130		%Rec	1	4/20/2016 11:42:31 PM	24847
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	4/19/2016 9:36:17 PM	24840
Surr: BFB	94.4	80-120		%Rec	1	4/19/2016 9:36:17 PM	24840
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	0.040	0.023		mg/Kg	1	4/19/2016 9:36:17 PM	24840
Toluene	ND	0.046		mg/Kg	1	4/19/2016 9:36:17 PM	24840
Ethylbenzene	ND	0.046		mg/Kg	1	4/19/2016 9:36:17 PM	24840
Xylenes, Total	ND	0.093		mg/Kg	1	4/19/2016 9:36:17 PM	24840
Surr: 4-Bromofluorobenzene	93.7	80-120		%Rec	1	4/19/2016 9:36:17 PM	24840

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1604667

Date Reported: 4/25/2016

CLIENT: Yates Petroleum Corporation

Client Sample ID: 3-1'

Project: State CO SWD System (Johnston BE Bat

Collection Date: 4/13/2016 2:55:00 PM

Lab ID: 1604667-021

Matrix: SOIL

Received Date: 4/15/2016 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/21/2016 12:04:03 AM	24847
Surr: DNOP	84.2	70-130		%Rec	1	4/21/2016 12:04:03 AM	24847
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	4/19/2016 9:59:49 PM	24840
Surr: BFB	94.6	80-120		%Rec	1	4/19/2016 9:59:49 PM	24840
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/19/2016 9:59:49 PM	24840
Toluene	ND	0.048		mg/Kg	1	4/19/2016 9:59:49 PM	24840
Ethylbenzene	ND	0.048		mg/Kg	1	4/19/2016 9:59:49 PM	24840
Xylenes, Total	ND	0.096		mg/Kg	1	4/19/2016 9:59:49 PM	24840
Surr: 4-Bromofluorobenzene	94.3	80-120		%Rec	1	4/19/2016 9:59:49 PM	24840

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1604667

Date Reported: 4/25/2016

CLIENT: Yates Petroleum Corporation

Client Sample ID: 3-2'

Project: State CO SWD System (Johnston BE Bat

Collection Date: 4/13/2016 2:56:00 PM

Lab ID: 1604667-022

Matrix: SOIL

Received Date: 4/15/2016 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/21/2016 12:25:47 AM	24847
Surr: DNOP	92.1	70-130		%Rec	1	4/21/2016 12:25:47 AM	24847
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/19/2016 10:23:17 PM	24840
Surr: BFB	95.3	80-120		%Rec	1	4/19/2016 10:23:17 PM	24840
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/19/2016 10:23:17 PM	24840
Toluene	ND	0.049		mg/Kg	1	4/19/2016 10:23:17 PM	24840
Ethylbenzene	ND	0.049		mg/Kg	1	4/19/2016 10:23:17 PM	24840
Xylenes, Total	ND	0.099		mg/Kg	1	4/19/2016 10:23:17 PM	24840
Surr: 4-Bromofluorobenzene	95.4	80-120		%Rec	1	4/19/2016 10:23:17 PM	24840

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1604667

Date Reported: 4/25/2016

CLIENT: Yates Petroleum Corporation

Client Sample ID: 3-3'

Project: State CO SWD System (Johnston BE Bat

Collection Date: 4/13/2016 2:57:00 PM

Lab ID: 1604667-023

Matrix: SOIL

Received Date: 4/15/2016 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/21/2016 12:47:21 AM	24847
Surr: DNOP	95.3	70-130		%Rec	1	4/21/2016 12:47:21 AM	24847
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/19/2016 10:46:44 PM	24840
Surr: BFB	92.9	80-120		%Rec	1	4/19/2016 10:46:44 PM	24840
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	4/19/2016 10:46:44 PM	24840
Toluene	ND	0.047		mg/Kg	1	4/19/2016 10:46:44 PM	24840
Ethylbenzene	ND	0.047		mg/Kg	1	4/19/2016 10:46:44 PM	24840
Xylenes, Total	ND	0.095		mg/Kg	1	4/19/2016 10:46:44 PM	24840
Surr: 4-Bromofluorobenzene	91.5	80-120		%Rec	1	4/19/2016 10:46:44 PM	24840

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1604667

Date Reported: 4/25/2016

CLIENT: Yates Petroleum Corporation

Client Sample ID: 3-4'

Project: State CO SWD System (Johnston BE Bat

Collection Date: 4/13/2016 3:00:00 PM

Lab ID: 1604667-024

Matrix: SOIL

Received Date: 4/15/2016 9:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/21/2016 1:09:01 AM	24847
Surr: DNOP	100	70-130		%Rec	1	4/21/2016 1:09:01 AM	24847
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/19/2016 11:10:15 PM	24840
Surr: BFB	93.8	80-120		%Rec	1	4/19/2016 11:10:15 PM	24840
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	4/19/2016 11:10:15 PM	24840
Toluene	ND	0.050		mg/Kg	1	4/19/2016 11:10:15 PM	24840
Ethylbenzene	ND	0.050		mg/Kg	1	4/19/2016 11:10:15 PM	24840
Xylenes, Total	ND	0.10		mg/Kg	1	4/19/2016 11:10:15 PM	24840
Surr: 4-Bromofluorobenzene	93.5	80-120		%Rec	1	4/19/2016 11:10:15 PM	24840

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1604667

25-Apr-16

Client: Yates Petroleum Corporation
Project: State CO SWD System (Johnston BE Battery)

Sample ID MB-24846	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 24846		RunNo: 33618							
Prep Date: 4/18/2016	Analysis Date: 4/19/2016		SeqNo: 1035550		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.2		10.00		92.5	70	130			

Sample ID LCS-24846	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 24846		RunNo: 33618							
Prep Date: 4/18/2016	Analysis Date: 4/19/2016		SeqNo: 1035611		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.7	65.8	136			
Surr: DNOP	4.6		5.000		92.5	70	130			

Sample ID LCS-24847	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 24847		RunNo: 33653							
Prep Date: 4/19/2016	Analysis Date: 4/20/2016		SeqNo: 1036419		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.3	65.8	136			
Surr: DNOP	3.8		5.000		76.5	70	130			

Sample ID LCS-24873	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 24873		RunNo: 33653							
Prep Date: 4/19/2016	Analysis Date: 4/20/2016		SeqNo: 1036420		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.8		5.000		75.2	70	130			

Sample ID LCS-24874	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 24874		RunNo: 33653							
Prep Date: 4/19/2016	Analysis Date: 4/20/2016		SeqNo: 1036421		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.7		5.000		74.9	70	130			

Sample ID MB-24847	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 24847		RunNo: 33653							
Prep Date: 4/19/2016	Analysis Date: 4/20/2016		SeqNo: 1036422		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	7.4		10.00		73.9	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1604667

25-Apr-16

Client: Yates Petroleum Corporation
Project: State CO SWD System (Johnston BE Battery)

Sample ID MB-24873	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 24873		RunNo: 33653							
Prep Date: 4/19/2016	Analysis Date: 4/20/2016		SeqNo: 1036423				Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.3		10.00		72.9	70	130			

Sample ID MB-24874	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 24874		RunNo: 33653							
Prep Date: 4/19/2016	Analysis Date: 4/20/2016		SeqNo: 1036424				Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.3		10.00		83.3	70	130			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1604667

25-Apr-16

Client: Yates Petroleum Corporation
Project: State CO SWD System (Johnston BE Battery)

Sample ID MB-24836	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 24836		RunNo: 33600							
Prep Date: 4/15/2016	Analysis Date: 4/18/2016		SeqNo: 1033974		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	930		1000		93.4	80	120			

Sample ID LCS-24836	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 24836		RunNo: 33600							
Prep Date: 4/15/2016	Analysis Date: 4/18/2016		SeqNo: 1033975		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		100	80	120			

Sample ID MB-24839	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 24839		RunNo: 33600							
Prep Date: 4/15/2016	Analysis Date: 4/18/2016		SeqNo: 1033995		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		93.5	80	120			

Sample ID LCS-24839	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 24839		RunNo: 33600							
Prep Date: 4/15/2016	Analysis Date: 4/18/2016		SeqNo: 1033996		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	86.8	80	120			
Surr: BFB	1000		1000		101	80	120			

Sample ID MB-24840	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 24840		RunNo: 33642							
Prep Date: 4/16/2016	Analysis Date: 4/19/2016		SeqNo: 1035835		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	930		1000		93.4	80	120			

Sample ID LCS-24840	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 24840		RunNo: 33642							
Prep Date: 4/16/2016	Analysis Date: 4/19/2016		SeqNo: 1035836		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.2	80	120			
Surr: BFB	1000		1000		102	80	120			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1604667

25-Apr-16

Client: Yates Petroleum Corporation
Project: State CO SWD System (Johnston BE Battery)

Sample ID MB-24836	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 24836		RunNo: 33600							
Prep Date: 4/15/2016	Analysis Date: 4/18/2016		SeqNo: 1034018				Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.96		1.000		96.3	80	120			

Sample ID LCS-24836	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 24836		RunNo: 33600							
Prep Date: 4/15/2016	Analysis Date: 4/18/2016		SeqNo: 1034019				Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID MB-24839	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 24839		RunNo: 33600							
Prep Date: 4/15/2016	Analysis Date: 4/18/2016		SeqNo: 1034033				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.7	80	120			

Sample ID LCS-24839	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 24839		RunNo: 33600							
Prep Date: 4/15/2016	Analysis Date: 4/18/2016		SeqNo: 1034034				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	100	75.3	123			
Toluene	0.93	0.050	1.000	0	93.3	80	124			
Ethylbenzene	0.90	0.050	1.000	0	90.0	82.8	121			
Xylenes, Total	2.7	0.10	3.000	0	89.4	83.9	122			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID MB-24840	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 24840		RunNo: 33642							
Prep Date: 4/16/2016	Analysis Date: 4/19/2016		SeqNo: 1035876				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1604667

25-Apr-16

Client: Yates Petroleum Corporation
Project: State CO SWD System (Johnston BE Battery)

Sample ID MB-24840	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 24840		RunNo: 33642							
Prep Date: 4/16/2016	Analysis Date: 4/19/2016		SeqNo: 1035876		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.95		1.000		94.9	80	120			

Sample ID LCS-24840	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 24840		RunNo: 33642							
Prep Date: 4/16/2016	Analysis Date: 4/19/2016		SeqNo: 1035884		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.1	75.3	123			
Toluene	0.87	0.050	1.000	0	87.4	80	124			
Ethylbenzene	0.89	0.050	1.000	0	88.5	82.8	121			
Xylenes, Total	2.7	0.10	3.000	0	88.6	83.9	122			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.9	80	120			

Qualifiers:

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

Sample Log-In Check List

Client Name: **Yates Petroleum Corpora**

Work Order Number: **1604667**

RcptNo: **1**

Received by/date: *JA* **04/15/16**
 Logged By: **Joe Archuleta** **4/15/2016 9:25:00 AM**
 Completed By: **Joe Archuleta** **4/15/2016 11:14:40 AM**
 Reviewed By: *JA* **04/15/16**

JA
JA

Chain of Custody

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

Log In

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

Special Handling (if applicable)

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

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.3	Good	Yes			

Chain-of-Custody Record

Client: Yates Petroleum Corporation

Project Name:

State CO SWD System (Johnston BE Battery)

Project #: 4/12/15 Release

Project Manager: Amber Griffin

PO # 205-2020

Sampler: Amber Griffin *AG*

On Ice: Yes No

Sample Temperature: 43

HEAL No. 1604667

Container Type and #

Preservative Type

Ice

mailing Address:

05 South 4th Street Artesia, NM 88210

phone #: 575-513-8799 or 575-748-4111

mail or Fax#: agriffin@yatespetroleum.com

QA/QC Package: Level 4 (Full Validation)

Accreditation: NELAP Other

EDD (Type)

Date

Time

Matrix

Sample Request ID

2-3'

2-4'

2-5'

2-6'

2-7'

2-8'

2-9'

2-10'

3-1'

3-2'

3-3'

3-4'

3-4'

Date:

Time:

Relinquished by:

Amber Griffin

Date:

Time:

Relinquished by:

Amber Griffin

Date:

Time:

Received by:

J.P. Ant

Standard Need by: 4/21/2016

Project Name:

State CO SWD System (Johnston BE Battery)

Project #: 4/12/15 Release

Project Manager: Amber Griffin

PO # 205-2020

Sampler: Amber Griffin *AG*

On Ice: Yes No

Sample Temperature: 43

HEAL No. 1604667

Container Type and #

Preservative Type

Ice

mailing Address:

05 South 4th Street Artesia, NM 88210

phone #: 575-513-8799 or 575-748-4111

mail or Fax#: agriffin@yatespetroleum.com

QA/QC Package: Level 4 (Full Validation)

Accreditation: NELAP Other

EDD (Type)

Date

Time

Matrix

Sample Request ID

2-3'

2-4'

2-5'

2-6'

2-7'

2-8'

2-9'

2-10'

3-1'

3-2'

3-3'

3-4'

3-4'

Date:

Time:

Relinquished by:

Amber Griffin

Date:

Time:

Relinquished by:

Amber Griffin

Date:

Time:

Received by:

J.P. Ant

Standard Need by: 4/21/2016

Project Name:

State CO SWD System (Johnston BE Battery)

Project #: 4/12/15 Release

Project Manager: Amber Griffin

PO # 205-2020

Sampler: Amber Griffin *AG*

On Ice: Yes No

Sample Temperature: 43

HEAL No. 1604667

Container Type and #

Preservative Type

Ice

mailing Address:

05 South 4th Street Artesia, NM 88210

phone #: 575-513-8799 or 575-748-4111

mail or Fax#: agriffin@yatespetroleum.com

QA/QC Package: Level 4 (Full Validation)

Accreditation: NELAP Other

EDD (Type)

Date

Time

Matrix

Sample Request ID

2-3'

2-4'

2-5'

2-6'

2-7'

2-8'

2-9'

2-10'

3-1'

3-2'

3-3'

3-4'

3-4'

Date:

Time:

Relinquished by:

Amber Griffin

Date:

Time:

Relinquished by:

Amber Griffin

Date:

Time:

Received by:

J.P. Ant

Standard Need by: 4/21/2016

Project Name:

State CO SWD System (Johnston BE Battery)

Project #: 4/12/15 Release

Project Manager: Amber Griffin

PO # 205-2020

Sampler: Amber Griffin *AG*

On Ice: Yes No

Sample Temperature: 43

HEAL No. 1604667

Container Type and #

Preservative Type

Ice

mailing Address:

05 South 4th Street Artesia, NM 88210

phone #: 575-513-8799 or 575-748-4111

mail or Fax#: agriffin@yatespetroleum.com

QA/QC Package: Level 4 (Full Validation)

Accreditation: NELAP Other

EDD (Type)

Date

Time

Matrix

Sample Request ID

2-3'

2-4'

2-5'

2-6'

2-7'

2-8'

2-9'

2-10'

3-1'

3-2'

3-3'

3-4'

3-4'

Date:

Time:

Relinquished by:

Amber Griffin

Date:

Time:

Relinquished by:

Amber Griffin

Date:

Time:

Received by:

J.P. Ant

Date:

Time:

Received by:

J.P. Ant

Date:

Time:

Received by:

J.P. Ant

Date:

Time:

Received by: