# **RECEIVED**

State of New Mexi By JKeyes at 2:09 pm, Feb 08, 2016

Energy Minerals and Natural

Oil Conservation Division 1220 South St. Francis Dr.

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

811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240

District II

1220 S. St. Fran	cis Dr., Sant	a Fe, NM 8750	5	Santa	Fe,	NM 875	05						
Her Charle Driver Hallen Her Sterrick Color of the	HTTP://www.homen.com/		Releas	se Notificati	ion	and Co	rrective A	ction			ANTICO MODELLO		
					(	OPERAT	OR		✓ Initia	al Report	$\boxtimes$	Fina	l Report
Name of Co					C	ontact							rioport
Yates Petro	leum Corp	oration				hase Settle							
Address		-:- NIN ( 000	110			elephone N							
104 S. 4 <sup>th</sup> St Facility Nar		sia, Nivi 882	:10			75-748-417							
Lotus ALT					1 2571.50	Facility Type Well							
Surface Ow	ner	- middle andress construction		Mineral Owne	er								
State				State					30-025-				
				LOCATI	ON	OF REI	EASE						
Unit Letter	Section	Township	Range Fo			outh Line	Feet from the	East/W	est Line	County			
M	32	22S	32E 48	80' So	uth		330'	West		Lea			
				<b>Latitude</b> 32.34	197	Longitude	-103.70373						
				NATUR	RE C	OF RELI	EASE						
Type of Rele						Volume of	Release			Recovered			
Crude Oil and Source of Re		Water			-	5 B/O, 5 B	PW our of Occurrence		4 B/O, 4 1				The second
Flow Line	icasc					1/23/2016;		1/23/2016	nd Hour of Discovery 016: AM				
Was Immedia	ate Notice					If YES, To Whom?							
		L	Yes N	lo 🛛 Not Requii	red							u a contra	
By Whom?						Date and H	lour						
Was a Water	course Rea		Yes 🛛 N	lo		If YES, Vo N/A	olume Impacting t	he Wate	ercourse.				
			ribe Fully.* N								-		
			edial Action T		1	1. O !'	W II 1 1						
				g a bullet through to bair the line and ex				n, vacuu	ım truck w	as dispatche	d to re	trieve	
Describe Are approximatel	a Affected y 25' X 35	and Cleanup 'immediately	Action Taken, south of the f	* An approximate a low line. Well was acted soils. Excava	te area	a of 208' X : t-in, vacuun	25' was affected of truck was dispart	tched to	retrieve sta	anding fluid,	and a	backh	oe
delineation s	amples will	be taken and	l analysis ran f	or TPH & BTEX (	(chlor	ides for doc	umentation). If is	nitial ana	alytical res	ults for TPH	& BT	EX are	e under
				ill be submitted to ound Water: >10									
				Body: >1000', SI									.a
I hereby cert	ify that the	information g	given above is	true and complete	to the	e best of my	knowledge and u	ınderstar	nd that purs	suant to NM	OCD r	ules a	nd
regulations a	ll operators	are required	to report and/o	or file certain relea	se not	tifications an	nd perform correc	ctive acti	ions for rel	eases which	may e	ndang	er
should their	operations	nonment. In	adequately in	of a C-141 report by vestigate and reme	y tne . ediate	contaminati	on that pose a thr	eport a	oes not rei	ieve the ope	rator o	f liabil ıman h	ity ealth
or the enviro	nment. In	addition, NM	OCD acceptar	ice of a C-141 repo	ort do	es not reliev	e the operator of	responsi	bility for c	ompliance v	vith an	v othe	r
		ws and/or reg					_						
		1					OIL CON	SERV	ATION	DIVISIO	<u>N(</u>		
Signature:									1	lou			
Printed Nam	e: Chase S	ettle			A	approved by	Environmental S	pecialist	t: Jamit	=Viye^ 			
Title: NM E	Invironmen	tal Regulator	y Agent		A	approval Da	te: 02/08/2016	]	Expiration	Date: ///			
E-mail Addr	ess: csettle	@yatespetrol	leum.com		_ c	Conditions o	f Approval:			Attached			

///

Phone: 575-748-4171

\* Attach Additional Sheets If Necessary

Date: 2/5/2016

nJXK1603950602 pJXK1603950760

1RP 4170



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

OrderNo.: 1601B17

February 05, 2016

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

FAX

RE: Lotus ALT State #9

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 6 sample(s) on 1/29/2016 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 <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> 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 qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

#### Lab Order 1601B17

Date Reported: 2/5/2016

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Yates Petroleum Corporation

Project: Lotus ALT State #9

Lab ID: 1601B17-001

Client Sample ID: S1-1'

Collection Date: 1/26/2016 8:05:00 AM

Received Date: 1/29/2016 9:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	t: LGT
Chloride	ND	30	mg/Kg	20	2/1/2016 8:38:36 PM	23515
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analyst	t: <b>KJH</b>
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	2/3/2016 4:11:57 PM	23511
Surr: DNOP	121	70-130	%Rec	1	2/3/2016 4:11:57 PM	23511
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/1/2016 8:04:56 PM	23477
Surr: BFB	92.3	66.2-112	%Rec	1	2/1/2016 8:04:56 PM	23477
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Methyl tert-butyl ether (MTBE)	ND	0.095	mg/Kg	1	2/2/2016 12:07:49 PM	23477
Benzene	ND	0.047	mg/Kg	1	2/2/2016 12:07:49 PM	23477
Toluene	ND	0.047	mg/Kg	1	2/2/2016 12:07:49 PM	23477
Ethylbenzene	ND	0.047	mg/Kg	1	2/2/2016 12:07:49 PM	23477
Xylenes, Total	ND	0.095	mg/Kg	1	2/2/2016 12:07:49 PM	23477
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	2/2/2016 12:07:49 PM	23477

Matrix: SOIL

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

#### Qualifiers: Value exceeds Maximum Contaminant Level. Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix E Value above quantitation range Analyte detected below quantitation limits Page 1 of 10 H Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit Sample pH Not In Range RPD outside accepted recovery limits Reporting Detection Limit RL % Recovery outside of range due to dilution or matrix Sample container temperature is out of limit as specified

### Lab Order 1601B17

Date Reported: 2/5/2016

## Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Yates Petroleum Corporation

Project: Lotus ALT State #9

Lab ID: 10

1601B17-002

LT State #9

Matrix: SOIL

Client Sample ID: S1-2'

Collection Date: 1/26/2016 8:10:00 AM

Received Date: 1/29/2016 9:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LGT
Chloride	ND	30	mg/Kg	20	2/1/2016 8:51:01 PM	23515
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analyst	: KJH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	2/3/2016 5:16:17 PM	23511
Surr: DNOP	104	70-130	%Rec	1	2/3/2016 5:16:17 PM	23511
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/1/2016 8:28:20 PM	23477
Surr: BFB	93.1	66.2-112	%Rec	1	2/1/2016 8:28:20 PM	23477
<b>EPA METHOD 8021B: VOLATILES</b>					Analys	t: NSB
Methyl tert-butyl ether (MTBE)	ND	0.094	mg/Kg	1	2/2/2016 12:31:25 PM	23477
Benzene	ND	0.047	mg/Kg	1	2/2/2016 12:31:25 PM	23477
Toluene	ND	0.047	mg/Kg	1	2/2/2016 12:31:25 PM	23477
Ethylbenzene	ND	0.047	mg/Kg	1	2/2/2016 12:31:25 PM	23477
Xylenes, Total	ND	0.094	mg/Kg	1	2/2/2016 12:31:25 PM	23477
Surr: 4-Bromofluorobenzene	105	80-120	%Rec	1	2/2/2016 12:31:25 PM	23477

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

- 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 Page 2 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1601B17

Date Reported: 2/5/2016

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Yates Petroleum Corporation

Project: Lotus ALT State #9

Lab ID: 1601B17-003

Client Sample ID: S2-1'

Collection Date: 1/26/2016 8:25:00 AM

Received Date: 1/29/2016 9:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS	XIII				Analys	t: LGT
Chloride	ND	30	mg/Kg	20	2/1/2016 9:03:26 PM	23515
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analys	t: <b>KJH</b>
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	2/3/2016 5:37:30 PM	23511
Surr: DNOP	100	70-130	%Rec	1	2/3/2016 5:37:30 PM	23511
EPA METHOD 8015D: GASOLINE RAN	<b>IGE</b>				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/1/2016 8:51:49 PM	23477
Surr: BFB	91.0	66.2-112	%Rec	1	2/1/2016 8:51:49 PM	23477
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Methyl tert-butyl ether (MTBE)	ND	0.094	mg/Kg	1	2/2/2016 1:18:30 PM	23477
Benzene	ND	0.047	mg/Kg	1	2/2/2016 1:18:30 PM	23477
Toluene	ND	0.047	mg/Kg	1	2/2/2016 1:18:30 PM	23477
Ethylbenzene	ND	0.047	mg/Kg	1	2/2/2016 1:18:30 PM	23477
Xylenes, Total	ND	0.094	mg/Kg	1	2/2/2016 1:18:30 PM	23477
Surr: 4-Bromofluorobenzene	102	80-120	%Rec	1	2/2/2016 1:18:30 PM	23477

Matrix: SOIL

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

- 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 Page 3 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

#### Lab Order 1601B17

Date Reported: 2/5/2016

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Yates Petroleum Corporation

Project: Lotus ALT State #9

Lab ID: 1601B17-004 Client Sample ID: S2-2'

Collection Date: 1/26/2016 8:30:00 AM

Received Date: 1/29/2016 9:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: <b>LGT</b>
Chloride	ND	30	mg/Kg	20	2/1/2016 9:15:51 PM	23515
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANIC	S			Analys	t: <b>KJH</b>
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	2/3/2016 5:58:49 PM	23511
Surr: DNOP	101	70-130	%Rec	1	2/3/2016 5:58:49 PM	23511
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	2/1/2016 9:15:14 PM	23477
Surr: BFB	88.9	66.2-112	%Rec	1	2/1/2016 9:15:14 PM	23477
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Methyl tert-butyl ether (MTBE)	ND	0.092	mg/Kg	1	2/2/2016 1:42:07 PM	23477
Benzene	ND	0.046	mg/Kg	1	2/2/2016 1:42:07 PM	23477
Toluene	ND	0.046	mg/Kg	1	2/2/2016 1:42:07 PM	23477
Ethylbenzene	ND	0.046	mg/Kg	1	2/2/2016 1:42:07 PM	23477
Xylenes, Total	ND	0.092	mg/Kg	1	2/2/2016 1:42:07 PM	23477
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	2/2/2016 1:42:07 PM	23477

Matrix: SOIL

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

- 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
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 4 of 10
- P Sample pH Not In Range
- Reporting Detection Limit RL
- Sample container temperature is out of limit as specified

#### Lab Order 1601B17

Date Reported: 2/5/2016

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Yates Petroleum Corporation

Project: Lotus ALT State #9

Lab ID: 1601B17-005

Calla

Matrix: SOIL

Collection Date: 1/26/2016 8:40:00 AM

Client Sample ID: S3-1'

Received Date: 1/29/2016 9:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	280	30	mg/Kg	20	2/1/2016 9:28:16 PM	23515
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANIC	S			Analys	t: <b>KJH</b>
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	2/3/2016 6:19:50 PM	23511
Surr: DNOP	114	70-130	%Rec	1	2/3/2016 6:19:50 PM	23511
EPA METHOD 8015D: GASOLINE RAN	IGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/1/2016 9:38:43 PM	23477
Surr: BFB	90.3	66.2-112	%Rec	1	2/1/2016 9:38:43 PM	23477
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Methyl tert-butyl ether (MTBE)	ND	0.095	mg/Kg	1	2/2/2016 2:05:36 PM	23477
Benzene	ND	0.048	mg/Kg	1	2/2/2016 2:05:36 PM	23477
Toluene	ND	0.048	mg/Kg	1	2/2/2016 2:05:36 PM	23477
Ethylbenzene	ND	0.048	mg/Kg	1	2/2/2016 2:05:36 PM	23477
Xylenes, Total	ND	0.095	mg/Kg	1	2/2/2016 2:05:36 PM	23477
Surr: 4-Bromofluorobenzene	103	80-120	%Rec	1	2/2/2016 2:05:36 PM	23477

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

- 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 Page 5 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1601B17

Date Reported: 2/5/2016

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Yates Petroleum Corporation

Project: Lotus ALT State #9

Lab ID: 1601B17-006 Client Sample ID: S3-2'

Collection Date: 1/26/2016 8:45:00 AM

Received Date: 1/29/2016 9:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LGT
Chloride	280	30	mg/Kg	20	2/1/2016 9:40:42 PM	23515
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S			Analyst	: KJH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	2/3/2016 6:40:59 PM	23511
Surr: DNOP	110	70-130	%Rec	1	2/3/2016 6:40:59 PM	23511
EPA METHOD 8015D: GASOLINE RAI	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/1/2016 10:02:12 PM	23477
Surr: BFB	93.1	66.2-112	%Rec	1	2/1/2016 10:02:12 PM	23477
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Methyl tert-butyl ether (MTBE)	ND	0.094	mg/Kg	1	2/2/2016 9:30:24 PM	23477
Benzene	ND	0.047	mg/Kg	1	2/2/2016 9:30:24 PM	23477
Toluene	ND	0.047	mg/Kg	1	2/2/2016 9:30:24 PM	23477
Ethylbenzene	ND	0.047	mg/Kg	1	2/2/2016 9:30:24 PM	23477
Xylenes, Total	ND	0.094	mg/Kg	1	2/2/2016 9:30:24 PM	23477
Surr: 4-Bromofluorobenzene	110	80-120	%Rec	1	2/2/2016 9:30:24 PM	23477

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits Page 6 of 10
- P Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

WO#:

1601B17

05-Feb-16

Client:

Yates Petroleum Corporation

Project:

Lotus ALT State #9

Sample ID MB-23515

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 23515

RunNo: 31841

Prep Date: 2/1/2016

Analysis Date: 2/1/2016

SeqNo: 974435

Units: mg/Kg

%RPD **RPDLimit** 

Qual

Analyte Chloride

Result PQL ND 1.5

SampType: LCS

TestCode: EPA Method 300.0: Anions

HighLimit

Client ID: LCSS

Sample ID LCS-23515

Batch ID: 23515

**PQL** 

1.5

RunNo: 31841

Units: mg/Kg

Prep Date: 2/1/2016

Analysis Date: 2/1/2016

SeqNo: 974436 %REC

HighLimit %RPD **RPDLimit** 

Analyte

Result

15.00

SPK value SPK Ref Val

94.1

LowLimit

Qual

Chloride

14

SPK value SPK Ref Val %REC LowLimit

110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

S % Recovery outside of range due to dilution or matrix В Analyte detected in the associated Method Blank

E Value above quantitation range

Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 7 of 10

### Hall Environmental Analysis Laboratory, Inc.

WO#:

1601B17

05-Feb-16

Client:

Yates Petroleum Corporation

Project:

Lotus ALT State #9

Sample ID MB-23551	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch II	D: <b>235</b>	551	R	RunNo: 3	1874				
Prep Date: 2/3/2016	Analysis Date	e: <b>2/</b> 3	3/2016	S	SeqNo: 9	75374	Units: %Red	;		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.8		10.00		98.0	70	130			

Sample ID LCS-	23551	SampTy	pe: LC	S	Test	tCode: El	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: LCS	S	Batch	ID: <b>23</b>	551	R	RunNo: 3	1874				
Prep Date: 2/3/	2016	Analysis Da	ite: 2/	3/2016	S	SeqNo: 9	75375	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.8		5.000		95.3	70	130			

Sample ID MB-23511	SampT	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch	n ID: 23	511	R	tunNo: 3	1874					
Prep Date: 2/1/2016	Analysis D	ate: 2/	3/2016	S	SeqNo: 9	75961	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Surr: DNOP	10		10.00		104	70	130				

Sample ID LCS-23511	SampT	ype: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch	ID: <b>23</b>	511	R	RunNo: 3	1874				
Prep Date: 2/1/2016	Analysis D	ate: 2/	3/2016	S	SeqNo: 9	75962	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57	10	50.00	0	113	65.8	136			
Surr: DNOP	6.0		5.000		120	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

Page 8 of 10

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

WO#:

1601B17

05-Feb-16

Client:

Yates Petroleum Corporation

Project: Lotus A	LT State #9		
Sample ID MB-23477	SampType: MBLK	TestCode: EPA Method 8	015D: Gasoline Range
Client ID: PBS	Batch ID: 23477	RunNo: 31822	
Prep Date: 1/29/2016	Analysis Date: 2/1/2016	SeqNo: 974200	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	910 1000	91.1 66.2	112
Sample ID LCS-23477	SampType: LCS	TestCode: EPA Method 8	015D: Gasoline Range
Client ID: LCSS	Batch ID: 23477	RunNo: 31822	
Prep Date: 1/29/2016	Analysis Date: 2/1/2016	SeqNo: 974202	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 95.9 79.6	122
Surr: BFB	1000 1000	99.8 66.2	112
Sample ID MB-23504	SampType: MBLK	TestCode: EPA Method 8	015D: Gasoline Range
Client ID: PBS	Batch ID: 23504	RunNo: 31851	
Prep Date: 2/1/2016	Analysis Date: 2/2/2016	SeqNo: 974988	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: BFB	930 1000	93.2 66.2	112
Sample ID LCS-23504	SampType: LCS	TestCode: EPA Method 8	8015D: Gasoline Range
Client ID: LCSS	Batch ID: 23504	RunNo: 31851	
Prep Date: 2/1/2016	Analysis Date: 2/2/2016	SeqNo: 974989	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: BFB	980 1000	98.0 66.2	112

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- S % Recovery outside of range due to dilution or matrix
- В Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Page 9 of 10

- P Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1601B17

05-Feb-16

Client:

Yates Petroleum Corporation

Project:

Lotus ALT State #9

Sample ID MB-23477	SampType: MBLK TestCode: EPA Method 8021B: Volatiles									
Client ID: PBS	Batch	n ID: 234	477	R	RunNo: 3	1822				
Prep Date: 1/29/2016	Analysis D	)ate: <b>2</b> /	1/2016	S	SeqNo: 9	74231	Units: mg/k	<b>(</b> g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10								
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			
Sample ID LCS-23477	Samp1	ype: LC	s	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Sample ID LCS-23477 Client ID: LCSS	100	ype: <b>LC</b>			tCode: EI		8021B: Vola	tiles		
AND THE CONTRACT OF STREET	100	n ID: <b>23</b> 4	477	F		1822	8021B: Vola Units: mg/F			
Client ID: LCSS	Batcl	n ID: <b>23</b> 4	477 1/2016	F	RunNo: 3	1822			RPDLimit	Qual
Client ID: LCSS Prep Date: 1/29/2016	Batcl Analysis D	n ID: 234 Date: 2/	477 1/2016	F	RunNo: 3 SeqNo: 9	1822 74232	Units: mg/h	⟨g	RPDLimit	Qual S
Client ID: LCSS Prep Date: 1/29/2016 Analyte	Batcl Analysis D Result	n ID: <b>23</b> 4 Date: <b>2</b> /	<b>477</b> <b>1/2016</b> SPK value	SPK Ref Val	RunNo: 3 SeqNo: 9 %REC	1822 74232 LowLimit	Units: mg//	⟨g	RPDLimit	
Client ID: LCSS Prep Date: 1/29/2016 Analyte Methyl tert-butyl ether (MTBE)	Batch Analysis D Result 1.3	PQL 0.10	477 1/2016 SPK value 1.000	SPK Ref Val	RunNo: 3 SeqNo: 9 %REC 126	1822 74232 LowLimit 67.2	Units: mg/F HighLimit 121	⟨g	RPDLimit	
Client ID: LCSS Prep Date: 1/29/2016 Analyte Methyl tert-butyl ether (MTBE) Benzene	Batcl Analysis E Result 1.3 1.1	PQL 0.10 0.050	477 1/2016 SPK value 1.000 1.000	SPK Ref Val 0 0	RunNo: 3 SeqNo: 9 %REC 126 113	1822 74232 LowLimit 67.2 80	Units: mg/k HighLimit 121 120	⟨g	RPDLimit	
Client ID: LCSS Prep Date: 1/29/2016 Analyte Methyl tert-butyl ether (MTBE) Benzene Toluene	Batcl Analysis E Result 1.3 1.1	PQL 0.10 0.050 0.050	477 1/2016 SPK value 1.000 1.000	SPK Ref Val 0 0 0	RunNo: 3 SeqNo: 9 %REC 126 113 114	1822 74232 LowLimit 67.2 80 80	Units: mg/k HighLimit 121 120 120	⟨g	RPDLimit	

Sample ID MB-23504	SampT	ype: Mi	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles	. 71.6-19-19-20-1-1-1	
Client ID: PBS	Batch	ID: 23	504	F	RunNo: 3	1851				
Prep Date: 2/1/2016	Analysis D	ate: 2	2/2016	S	SeqNo: 9	75028	Units: %Red	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000	31820 <b>H</b> 01 - 3000	113	80	120			

Sample ID LCS-23504	SampT	ype: LC	cs	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batch	ID: 23	504	F	RunNo: 3	1851				
Prep Date: 2/1/2016	Analysis D	ate: 2	/2/2016	8	SeqNo: 9	75029	Units: %Re	С		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.2		1 000		117	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

Page 10 of 10

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified



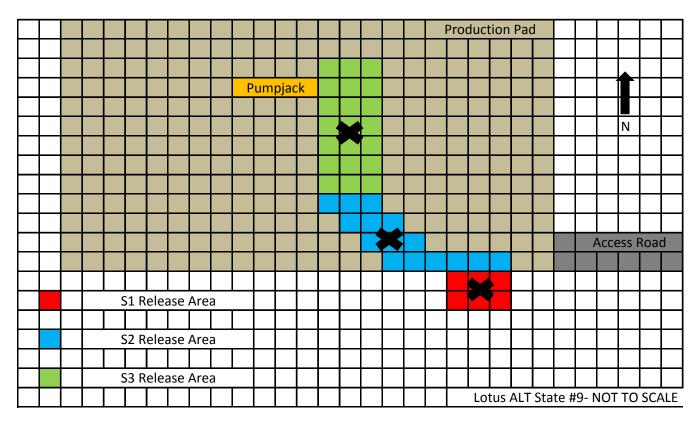
Hall Environmental Analysis Laboratory 1901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

## Sample Log-In Check List

Client Name: Yates Petroleum Corpora Work Order Num	ber: 1601B17	Committee Commit	RcptNo. 1
Received by/date: 5A 01/29/16		E Studen	
Logged By: Lindsay Mangin 1/29/2016 9:00:00	AM	JulyHlago	
Completed By: Lindsay Mangin 1/29/2016 1:38:08	PM	July Hogo	
Reviewed By: 01/24/16			
Chain of Custody			
1. Custody seals intact on sample bottles?	Yes 🗸	No 🗆	Not Present
2. Is Chain of Custody complete?	Yes 🗸	No 🗆	Not Present
3. How was the sample delivered?	Courier		
Log In			
4. Was an attempt made to cool the samples?	Yes 🗸	No 🗌	NA 🗌
5. Were all samples received at a temperature of >0° 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 🗸	# stances od
		1221	# of preserved bottles checked
12. Does paperwork match bottle labels?	Yes 🗸	No 🗔	for pH: (<2 or >12 unless noted)
(Note discrepancies on chain of custody)  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)	Fil	F-1	The state of the s
16. Was client notified of all discrepancies with this order?	Yes 🗔	No L	NA 🗹
Person Notified: Da	ate		
By Whorn: Vi	a: eMail l	Phone Fax	In Person
Regarding:	HEREN HEREN PROSPERSON OF THE CHARLES AND	Harting at Contracts Spring Property Commencer	and a second control of the control
Client Instructions.			
17. Additional remarks:			
18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal N 1 1.0 Good Yes	c   Seal Date	Signed By	

Chai	n-of-C	Chain-of-Custody Record	I urn-Around	 				I	ALL	HALL ENVIRONMENTAL	Z	8	Σ	EN	E	;	
ient: Yate	s Peroleur	Yates Petroleum Corporation	X Standard	□ Rush		U		K	MA	ANALYSIS LABORATORY	S	A	Š	Z	Ō	>	
			Project Name.	89				=	ww.ha	www.hallenvironmental.com	onmer	ntal.co	E				
ailing Address:	ess:			Lotus ALT State #9	late #9		4901 F	4901 Hawkins NE	s NE	- Albu	Albuquerque, NM 87109	Z S	M 871	60			
South 4t	5 South 4th Street Artesia, NM	rtesia, NM 88210	Project #;				Tel. 5	Tel. 505-345-3975	-3975		Fax 505-345-4107	-345	4107				1
Tone #:	575-70	575-703-6537		30-025-37661	7661					Analysis Request	is Re	sanb					16
nail or Fax#:		csettle@yatespetroleum.com	Project Manager:	ger:							A description		-		partine (control	4	
A/OC Package:				Chase Settle			Association .					- I thank and a second	LUA-	wit			
Standard		☐ Level 4 (Full Validation)		PO # 205, 0750	750												
creditation:			Sampler:	Chase Settle		-							and the street				(N
NELAP	□ Other	er		X Yes	⊡ No					5		o describedados	(AC				10
EDD (Type)	(e)		Sample Temperature:	erature: 1.(		MARKE PROPERTY.	·			U]ii		-	)/\-l	alatja (a <sup>tr</sup> i l <sup>a</sup> lat	AND THE RESERVE		1) 9
Date Time	ne Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	TM + X3T8	BTEX # Metho	rtaM) H9T	ottaM) 803 AN9) 0168	M 8 AADA	O,T) snoinA oite99 f808	OV) 80858	m98) 0758	SOUND THE PROPERTY OF THE PROP			Air Bubbles
8:2016 8:05A	A Soil	S1-1.	1 - 402.	ICE	100	×	×			×					Traslandusi no Si un		
26.2016 8:10A		S1-2'	1 - 40z.	ICE	700-	×	×			×					odeniji (Kilinana)		
26.2016 8:25A	- marity districts	\$2-1*	1 - 402.	ICE	-033	×	×			×				+	_		
25/2016 8:30A		S2-2.	1 - 402.	ICE	-031	×	×		-	×					-		
26/2016 8:40A		S3-1,	1 - 40z.	ICE	-05	×	×		_	×				-	$\dashv$		
26/2016 8:45A		\$3-2.	1 - 40z.	ICE	-BC	×	×		$\dashv$	×	$\perp$				-		
<u></u>															in the second second	USBAN	
Mana/fun anticaramite	. С. Баралия — Устания <b>п</b>																
							CALLETT PROPERTY.							and the Salaton States	-		
ite: Time: 1/16 8:00/4	Relinquished by	1	Received by:	the same	1 Date Time	Remarks:	arks:		-						-		
te: Time:	b	Relinquished by:	Received by:		/ Date Time												1440
If heree	sary, samples	If hereesary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	contracted to other ac	credited laboratoric	es. This serves as notice of thi	s possibil	ty. Anys	ub-confra	cted data	will be c	early not	ated on	the ans	lyncal re	Door		



Sample ID	Analytical ID	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	Chlorides
S1-1 <sup>'</sup>	1601B 17	1/26/2016	Hand Auger	1'	ND	ND	ND	ND
S1-2 <sup>'</sup>	1601B 17	1/26/2016	Hand Auger	2'	ND	ND	ND	ND
S2-1 <sup>'</sup>	1601B 17	1/26/2016	Hand Auger	1'	ND	ND	ND	ND
S2-2 <sup>'</sup>	1601B 17	1/26/2016	Hand Auger	2'	ND	ND	ND	ND
S3-1 <sup>'</sup>	1601B 17	1/26/2016	Hand Auger	1'	ND	ND	ND	280
S3-2 <sup>'</sup>	1601B 17	1/26/2016	Hand Auger	2'	ND	ND	ND	280

Site Ranking is Zero (0). DTGW >100' (approx 325', Section 32, T22S-R32E, Trend Map) All results are ppm (chlorides for documentation).

Released: 5 B/O, 5 B/PW; Recovered: 4 B/O, 4 B/PW Release Date: 01/23/2016

