District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

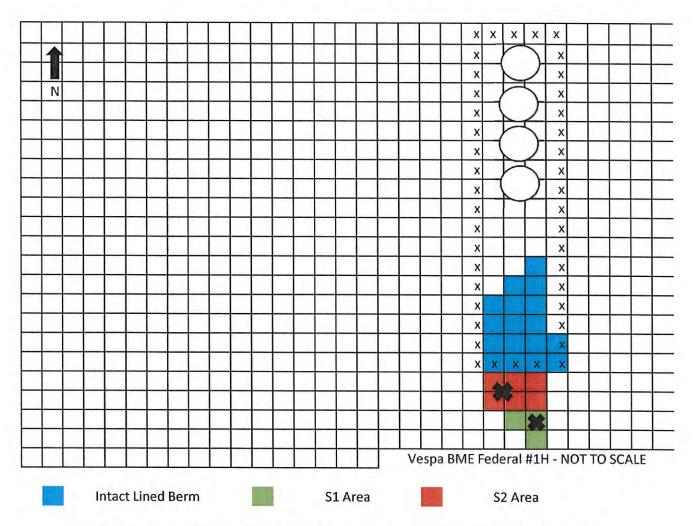
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

			Rele	ase Notifi	cation	and Co	orrective A	ction				
						OPERA'	ГOR	☐ Ir	itial Report		Final Report	
Name of C						Contact			-			
	sources, Inc	; <u>.</u>				Chase Settle						
Address 104 S. 4 th S	Street, Artes	sia, NM 882	10			Telephone 1 575-748-41						
Facility Na	me					Facility Typ	be					
Vespa BM	E Federal #	1H				Battery						
Surface Ov	vner			Mineral 0	Owner			API	No.			
Private				Federal				30-0	05-29095			
				LOC.	ATIO	OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/West Lin	e County			
I	12	15S	31E	2500	South		200	East	Chaves			
				Latitude 3	33.0302	7 Longitud	e <u>-103.76710</u>					
				NA.	TURE	OF REL	EASE					
Type of Rel	ease nd Produced	Water				Volume of		1,100,100	ne Recovered & 6 B/PW			
Source of R		v atci					Hour of Occurrence	1 - Vi - V	nd Hour of D	iscovery	y	
Horizontal I		2. 0				10/11/201			2016; 10:30 A			
Was Immed	iate Notice C		Yes [No □ Not R	Required	If YES, To Whom? d Kristen Lynch, Rick Flores						
By Whom?						Date and Hour						
Robert Ash		1 10					6; 9:01 AM	- 111				
Was a Wate	rcourse Read		Yes 🛭	No		If YES, V N/A	olume Impacting	the Watercourse	-			
		pacted, Descr										
		em and Reme			nipple to	he nushed o	ut by pressure ca	using the release				
Describe Ar	ea Affected	and Cleanup	Action Tak	cen.*								
An approxim	nate area of	54' X 40' was	s affected	within the lined l	berm of the	he battery an	d 55' X 40' on the	e adjacent pad to	the south of	the batte	ery between	
Excavated s	and the gas m	eter house. \	√acuum tri MOCD ani	ick was contract	ed to reco Vertical a	over standing	fluid and a backl delineation sam	noe was dispate	ned to remove	impact	ed soils.	
BTEX (chlo	orides for doc	cumentation).	If initial a	analytical results	for TPH	& BTEX are	under RRAL's (site ranking is 0	a Final Repo	rt, C-14	41 will be	
submitted to	the OCD re	questing clos	ure. If the	analytical result	s are abo	ve the RRAI	's a work plan w	ill be submitted	to the OCD. 1	Depth t	o Ground	
>1000' SIT	10' (approxii FE RANKIN	nately 240', i	Section 12 ed on encl	., T15S-R31E, p	er Trenc	d Map), Wel EOG V Resc	lhead Protection ources, Inc. requ	Area: No, Dis	ance to Surfa	ice Wat	ter Body:	
							knowledge and		oursuant to NI	MOCD	rules and	
regulations	all operators	are required t	to report a	nd/or file certain	release n	otifications a	and perform corre	ctive actions for	releases which	h may	endanger	
public healt	h or the envi	ronment. The	e acceptant	te of a C-141 rep	oort by th	e NMOCD n	narked as "Final I ion that pose a th	Report" does not	relieve the or	erator o	of liability	
or the envir	onment. In a	ddition, NM	OCD accer	otance of a C-14	1 report d	le contamination loes not relie	ve the operator of	reat to ground v	rater, surface v or compliance	water, n	uman neattn	
		ws and/or reg		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			ve me operator of	responsionity .	or compilance	with th	ly other	
	11/6	7					OIL CON	ISERVATION	N DIVIS	ON		
Signature:)-3								7.75		
						Approved by	Environmental S	Specialist:				
Printed Nan	ne: Chase So	ettle				,		- I				
Title: NM	Adv. Enviror	nmental Repre	esentative			Approval Da	nte:	Expirat	Expiration Date:			
E-mail Add	ress: Chase	Settle@eogr	esources.c	om		Conditions of	of Approval:		Attache	ed 🔲		
Date: 12/2	Date: 12/27/2016 Phone: 575-748-4171											

^{*} Attach Additional Sheets If Necessary



Site Ranking is Zero (0). DTGW >100' (approx 240', Section 12, T15S-R31E, Trend Map) All results are ppm, Chlorides for documentation.

Released: 15 B/O & 10 B/PW Recovered: 7 B/O & 6 B/PW Release Date: 10/11/2016

ANALYTICAL DATA

1611464	Sample Area	Sample Date	Sampe Type	Depth	BTEX	GRO	DRO	CHLORIDE
S1-1'	Release Area	10/28/2016	Backhoe	1'	ND	ND	ND	ND
\$1-2'	Release Area	10/28/2016	Backhoe	2'	ND	ND	55	59
S2-1'	Release Area	10/28/2016	Backhoe	, 1'	ND	ND	ND	33
\$2-2'	Release Area	10/28/2016	Backhoe	2'	ND	ND	170	100
S2-3'	Release Area	10/28/2016	Backhoe	3'	ND	ND	93	ND
S2-3.5'	Release Area	10/28/2016	Backhoe	3.5'	ND	ND	76	40

NMOCD will accept data for delineation purposes for 1RP-4475.

REVIEWED

By Olivia Yu at 2:38 pm, Sep 22, 2017



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

November 11, 2016

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

FAX

RE: Vespa BME Federal #1 OrderNo.: 1611464

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 6 sample(s) on 11/1/2016 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 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

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 11/11/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Project: Vespa BME Federal #1

Lab ID: 1611464-001

Client Sample ID: S1-1'

Collection Date: 10/28/2016 8:37:00 AM

Received Date: 11/1/2016 10:00:00 AM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Anal	yst: MRA
Chloride	ND	30	mg/Kg	20	11/10/2016 11:40:08	3 AM 28610
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANIC	S			Anal	yst: TOM
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	11/10/2016 12:29:18	BPM 28597
Surr: DNOP	88.6	70-130	%Rec	1	11/10/2016 12:29:18	3 PM 28597
EPA METHOD 8015D: GASOLINE R	ANGE				Anal	yst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	11/10/2016 11:46:59	AM 28570
Surr: BFB	84.4	68.3-144	%Rec	1	11/10/2016 11:46:59	9 AM 28570
EPA METHOD 8021B: VOLATILES					Anal	yst: NSB
Benzene	ND	0.048	mg/Kg	1	11/10/2016 11:46:59	AM 28570
Toluene	ND	0.048	mg/Kg	1	11/10/2016 11:46:59	AM 28570
Ethylbenzene	ND	0.048	mg/Kg	1	11/10/2016 11:46:59	AM 28570
Xylenes, Total	ND	0.097	mg/Kg	1	11/10/2016 11:46:59	AM 28570
Surr: 4-Bromofluorobenzene	98.0	80-120	%Rec	1	11/10/2016 11:46:59	AM 28570

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. B Analyte detected in the associated Method Blank 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 J ND Not Detected at the Reporting Limit P Sample pH Not In Range RPD outside accepted recovery limits R RL Reporting Detection Limit

W

Sample container temperature is out of limit as specified

% Recovery outside of range due to dilution or matrix

Date Reported: 11/11/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Project: Vespa BME Federal #1

Lab ID: 1611464-002

Client Sample ID: S1-2'

Collection Date: 10/28/2016 8:58:00 AM

Received Date: 11/1/2016 10:00:00 AM

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Anal	yst: MRA
Chloride	59	30	mg/Kg	20	11/10/2016 12:17:22	2 PM 28610
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANIC	S			Anal	yst: TOM
Diesel Range Organics (DRO)	55	10	mg/Kg	1	11/10/2016 12:14:39	PM 28597
Surr: DNOP	84.7	70-130	%Rec	1	11/10/2016 12:14:39	9 PM 28597
EPA METHOD 8015D: GASOLINE RA	ANGE				Anal	yst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/10/2016 12:10:36	6 PM 28570
Surr: BFB	82.1	68.3-144	%Rec	1	11/10/2016 12:10:36	6 PM 28570
EPA METHOD 8021B: VOLATILES					Anal	yst: NSB
Benzene	ND	0.024	mg/Kg	1	11/10/2016 12:10:36	6 PM 28570
Toluene	ND	0.049	mg/Kg	1	11/10/2016 12:10:36	6 PM 28570
Ethylbenzene	ND	0.049	mg/Kg	1	11/10/2016 12:10:30	3 PM 28570
Xylenes, Total	ND	0.098	mg/Kg	1	11/10/2016 12:10:30	6 PM 28570
Surr: 4-Bromofluorobenzene	94.3	80-120	%Rec	1	11/10/2016 12:10:36	6 PM 28570

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

Analytical Report

Lab Order 1611464

Date Reported: 11/11/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Project: Vespa BME Federal #1

Lab ID: 1611464-003

Client Sample ID: S2-1'

Collection Date: 10/28/2016 9:01:00 AM

Received Date: 11/1/2016 10:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	yst: MRA
Chloride	33	30	mg/Kg	20	11/10/2016 6:42:07	PM 28610
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANIC	S			Anal	yst: TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	11/10/2016 12:41:57	PM 28597
Surr; DNOP	82.8	70-130	%Rec	1	11/10/2016 12:41:57	PM 28597
EPA METHOD 8015D: GASOLINE R	RANGE				Anal	yst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/10/2016 12:34:19	PM 28570
Surr; BFB	83.7	68.3-144	%Rec	1	11/10/2016 12:34:19	PM 28570
EPA METHOD 8021B: VOLATILES					Analy	yst: NSB
Benzene	ND	0.024	mg/Kg	1	11/10/2016 12:34:19	PM 28570
Toluene	ND	0.049	mg/Kg	1	11/10/2016 12:34:19	PM 28570
Ethylbenzene	ND	0.049	mg/Kg	1	11/10/2016 12:34:19	PM 28570
Xylenes, Total	ND	0.098	mg/Kg	1	11/10/2016 12:34:19	PM 28570
Surr: 4-Bromofluorobenzene	95.5	80-120	%Rec	1	11/10/2016 12:34:19	PM 28570

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. 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

Date Reported: 11/11/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Project: Vespa BME Federal #1

1611464-004 Lab ID:

Client Sample ID: S2-2'

Collection Date: 10/28/2016 9:03:00 AM

Received Date: 11/1/2016 10:00:00 AM

Analyses	Result	PQL Q	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Anal	yst: MRA
Chloride	100	30	mg/Kg	20	11/10/2016 6:54:32	PM 28610
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANIC	S			Anal	yst: TOM
Diesel Range Organics (DRO)	170	9.6	mg/Kg	1	11/10/2016 12:48:13	3 PM 28597
Surr: DNOP	97.7	70-130	%Rec	1	11/10/2016 12:48:13	3 PM 28597
EPA METHOD 8015D: GASOLINE R	ANGE				Anal	yst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/10/2016 12:57:50	PM 28570
Sum: BFB	82.8	68.3-144	%Rec	1	11/10/2016 12:57:50	PM 28570
EPA METHOD 8021B: VOLATILES					Anal	yst: NSB
Benzene	ND	0.025	mg/Kg	-1	11/10/2016 12:57:50	PM 28570
Toluene	ND	0.049	mg/Kg	1	11/10/2016 12:57:50	PM 28570
Ethylbenzene	ND	0.049	mg/Kg	1	11/10/2016 12:57:50	PM 28570
Xylenes, Total	ND	0.099	mg/Kg	1	11/10/2016 12:57:50	PM 28570
Surr: 4-Bromofluorobenzene	94.3	80-120	%Rec	1	11/10/2016 12:57:50	PM 28570

Matrix: SOIL

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

- Value exceeds Maximum Contaminant Level.
- 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 J
- Sample pH Not In Range
- RL Reporting Detection Limit
- Sample container temperature is out of limit as specified

Date Reported: 11/11/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Vespa BME Federal #1 Project:

Lab ID: 1611464-005 Client Sample ID: S2-3'

Collection Date: 10/28/2016 9:06:00 AM

Received Date: 11/1/2016 10:00:00 AM

Analyses	Result	PQL Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	30	mg/Kg	20	11/10/2016 7:06:57 PM	28610
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANIC	S			Analyst:	TOM
Diesel Range Organics (DRO)	93	10	mg/Kg	1	11/10/2016 1:33:42 PM	28597
Surr: DNOP	97.1	70-130	%Rec	1	11/10/2016 1:33:42 PM	28597
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	11/10/2016 1:21:20 PM	28570
Surr: BFB	83.7	68.3-144	%Rec	1	11/10/2016 1:21:20 PM	28570
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.023	mg/Kg	1	11/10/2016 1:21:20 PM	28570
Toluene	ND	0.047	mg/Kg	1	11/10/2016 1:21:20 PM	28570
Ethylbenzene	ND	0.047	mg/Kg	1	11/10/2016 1:21:20 PM	28570
Xylenes, Total	ND	0.094	mg/Kg	1	11/10/2016 1:21:20 PM	28570
Surr: 4-Bromofluorobenzene	96.6	80-120	%Rec	1	11/10/2016 1:21:20 PM	28570

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

Analytical Report

Lab Order 1611464

Date Reported: 11/11/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Project: Vespa BME Federal #1

1611464-006 Lab ID:

Client Sample ID: S2-3.5'

Collection Date: 10/28/2016 9:26:00 AM

Received Date: 11/1/2016 10:00:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	40	30	mg/Kg	20	11/10/2016 7:19:21 PM	28610
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANIC	S			Analyst:	том
Diesel Range Organics (DRO)	76	9.9	mg/Kg	1	11/10/2016 2:14:15 PM	28597
Surr: DNOP	96.4	70-130	%Rec	1	11/10/2016 2:14:15 PM	28597
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/10/2016 5:39:03 PM	28570
Surr: BFB	84.9	68.3-144	%Rec	1	11/10/2016 5:39:03 PM	28570
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.025	mg/Kg	1	11/10/2016 5:39:03 PM	28570
Toluene	ND	0.049	mg/Kg	1	11/10/2016 5:39:03 PM	28570
Ethylbenzene	ND	0.049	mg/Kg	1	11/10/2016 5:39:03 PM	28570
Xylenes, Total	ND	0.098	mg/Kg	1	11/10/2016 5:39:03 PM	28570
Surr: 4-Bromofluorobenzene	99.3	80-120	%Rec	1	11/10/2016 5:39:03 PM	28570

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 6 of 10 J
- 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#:

1611464

11-Nov-16

Client: Yates Petroleum Corporation
Project: Vespa BME Federal #1

Sample ID MB-28610 SampType: mblk

Batch ID: 28610 RunNo: 38626

Prep Date: 11/10/2016 Analysis Date: 11/10/2016 SeqNo: 1206570 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

TestCode: EPA Method 300.0: Anions

Chloride ND 1.5

Client ID: PBS

Sample ID LCS-28610 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 28610 RunNo: 38626

Prep Date: 11/10/2016 Analysis Date: 11/10/2016 SeqNo: 1206571 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.9 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 7 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#:

1611464

11-Nov-16

	Petroleum Corporation BME Federal #1	
Sample ID LCS-28593	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 28593	RunNo: 38609
Prep Date: 11/10/2016	Analysis Date: 11/10/2016	SeqNo: 1205792 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.1 5.000	81.6 70 130
Sample ID LCS-28593	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 28593	RunNo: 38609
Prep Date: 11/10/2016	Analysis Date: 11/10/2016	SeqNo: 1205793 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.2 5.000	84.9 70 130
Sample ID MB-28593	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 28593	RunNo: 38609
Prep Date: 11/10/2016	Analysis Date: 11/10/2016	SeqNo: 1205794 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	9.0 10.00	90.1 70 130
Sample ID MB-28597	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 28597	RunNo: 38609
Prep Date: 11/10/2016	Analysis Date: 11/10/2016	SeqNo: 1205795 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	8.5 10.00	84.9 70 130
Sample ID LCS-28572	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 28572	RunNo: 38609
Prep Date: 11/9/2016	Analysis Date: 11/10/2016	SeqNo: 1206232 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.5 5.000	89.0 70 130
Sample ID MB-28572	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 28572	RunNo: 38609
Prep Date: 11/9/2016	Analysis Date: 11/10/2016	SeqNo: 1206235 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

Surr: DNOP

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Holding times for preparation or analysis exceeded H

9.3

10.00

Not Detected at the Reporting Limit ND

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

Page 8 of 10

130

P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

70

Hall Environmental Analysis Laboratory, Inc.

WO#:

1611464

11-Nov-16

Client: Project: Yates Petroleum Corporation

Vespa BME Federal #1

Surr: BFB		820		1000		82.3	68.3	144				
Gasoline Range Orga	anics (GRO)	ND	5.0									
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Prep Date: 11/	9/2016	Analysis D	ate: 11	1/10/2016	8	SeqNo: 1	206092	Units: mg/K	g			
Client ID: PBS		Batch ID: 28570 Ru		RunNo: 38598								
Sample ID MB-	28570	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range							

Sample ID LCS-28570	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID: LCSS	Batcl	1D: 28	570	F	RunNo: 3	8598				
Prep Date: 11/9/2016	Analysis D	ate: 1	1/10/2016		SeqNo: 1	206093	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.8	74.6	123			
Surr: BFB	890		1000		88.6	68.3	144			

Sample ID MB-28565	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS	Batch ID: 28565	RunNo: 38598
Prep Date: 11/9/2016	Analysis Date: 11/10/2016	SeqNo: 1206108 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qua
Surr: BFB	850 1000	84.9 68.3 144

Sample ID LCS-28565	SampType: LCS	TestCode: EPA Method 8015	D: Gasoline Range
Client ID: LCSS	Batch ID: 28565	RunNo: 38598	
Prep Date: 11/9/2016	Analysis Date: 11/10/2016	SeqNo: 1206109 Unit	ts: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit Hig	ghLimit %RPD RPDLimit Qual
Surr: BFB	910 1000	91.0 68.3	144

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded H

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

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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#: 1611464

11-Nov-16

Client:	Yates Petroleum Corporation
Project:	Vespa BME Federal #1

Sample ID MB-28570	Samp	Type: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batcl	h ID: 28	570	F	RunNo: 3	8598				
Prep Date: 11/9/2016	Analysis E	Date: 1	1/10/2016	8	SeqNo: 1	206124	Units: mg/K	g		
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								
Sur: 4-Bromofluorobenzene	0.97		1.000		96.9	80	120			

Sample ID LCS-28570	Samp	Type: LC	S '	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 28	570	F	RunNo: 3	8598				
Prep Date: 11/9/2016	Analysis [Date: 1	1/10/2016	8	SeqNo: 1	206125	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	113	75.2	115			
Toluene	1.0	0.050	1.000	0	103	80.7	112			
Ethylbenzene	1.0	0.050	1.000	0	100	78.9	117			
Xylenes, Total	3.0	0.10	3.000	0	99.5	79.2	115			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID MB-28565	SampT	ype: MI	BLK	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batch	D: 28	565	F	RunNo: 3	8598				
Prep Date: 11/9/2016	Analysis D	ate: 1	1/10/2016	8	SeqNo: 1	206416	Units: %Re	C		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			

Sample ID LCS-28565	Samp	Type: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: 28	565	F	RunNo: 3	8598				
Prep Date: 11/9/2016	Analysis [Date: 1	1/10/2016	8	SeqNo: 1	206417	Units: %Re	c		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cur. A Promofuorobonzono	4.4		1.000		100	00	120			

Surr: 4-Bromofluorobenzene

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Holding times for preparation or analysis exceeded H

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

% Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

Analyte detected below quantitation limits

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P Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: EOG/Yates Work O	order Number: 1611464		RcptNo: 1
Received by/date: AJ /// 01/16			
Logged By: Anne Thorne 11/1/2016	3 10:00:00 AM	anne Sham	-
Completed By: Africe Thorne 11/9/2016	3	anne The	
Reviewed By: 11/09/16		0,112 %	
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 preserve	ed? 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 🗹	4-5
and Ton Stool was self.			# of preserved bottles checked
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 📙	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:			
By Whom:	Date Union Date Via: DeMail D	Phone Fax	☐ In Person
Regarding:	, via ewall	THORE I TAX	III CISSII
Client Instructions:	Contract Con		and the second s
17. Additional remarks:	H 54		77 - 10 (10 a a a
18. Cooler Information Cooler No Temp °C Condition Seal Intact	Seal No Seal Date	Signed By	Ĭ ,
1 1.0 Good Yes			and

Soil S2-3.5 Soil S2-3.5 Steel Artesia, NIM 88210	Slient: EOG			X Standard	□ Rush				A	MIL	ANALYSIS		BO	ANALYSIS LABORATORY	ORY	
Second S				Project Name:	2.7		W	in log	×	w.hall	environ	mental	moo.			
Sample Project #: 30-005-20095 Project Project Manager: Sample Project Manager: Chase Settle	failing Addre	ss:			espa BME F	ederal #1		1901 H	awkins	NE .	Albuqu	erque,	NM 87	109		
Container Soil Size Si	05 South 4th	Street Arte	ssia, NM 88210	4		N		Tel. 50	5-345-	3975	Fax	505-34	15-410	_		I
Container Chase Sette Ch	hone #:	575-703-	6537		30-002-2	9095				A	alysis	Reque	sst		- A	
Chase Settle	mail or Fax#		vatespetroleum.com	Project Mana	ger:						(PO:	5				
Time Matrix Sample Request D Container Preservative Time Matrix Sample Sample Container Preservative Time Matrix Sample Container Preservative Time Time Sample Container Preservative Time Time Sample Container Preservative Time Time Sample Sample Time Sample Time Sample Time Sample Time Time Sample Time	NA/QC Packag	:6			Chase Settle				:		S'*C	CB.				
Container Sample: Challes Settle			□ Level 4 (Full Validation)		PO # 205. 07	750		-)d,s	d 7				
Other Other Sample Temperature: Add Type and # Type and # Type Type and # Type and # Type Type and # Type and	coreditation:			Sampler:	Chase Settle						ON,	808				(N
Sample Temperature: 100	J NELAP	27		On Ice:	⊠YYes	□ No					-	/ 'S	(AC			OL
Time Matrix Sample Request ID Type and # Type Tell Type Type Tell Type Type Tell Type Ty	T EDD (Type	1 #		Sample Tem	serature:	100						_				Y) s
8:37a Soil S1-1' 1-4oz. ICE -Cd 1-4oz. ICE 1-4oz. ICE	Date Time		Sample Request ID	Container Type and #	Preservative Type											səlddu8 niA
8:58a Soil S1-2' 1-40z, ICE 702 9:01a Soil S2-1' 1-40z, ICE 703 9:06a Soil S2-3' 1-40z, ICE 704 9:26a Soil S2-3' 1-40z, ICE 704 9:26a Soil S2-3' 1-40z, ICE 704 9:26a Soil S2-3.5' 1-40z, ICE 704 Imme: Relinquismed by: Received by: Count from 11 0 116 100	10/28/2016 8:37a		S1-1'	1 - 40z.	ICE	(O)	×	×			×					
9:01a Soil S2-1' 1 - 4oz. ICE CO3 9:03a Soil S2-2' 1 - 4oz. ICE ZUS 9:06a Soil S2-3' 1 - 4oz. ICE ZUS 9:26a Soil S2-3.5' 1 - 4oz. ICE ZUS 10:26a S2-3.5' 1 - 4oz. ICE ZUS 10:27a S2-3.5' 1 - 4oz. ICE ZUS </td <td>10282018 8:58a</td> <td></td> <td>S1-2'</td> <td>1 - 40z.</td> <td>ICE</td> <td>202</td> <td>×</td> <td>×</td> <td>13</td> <td></td> <td>×</td> <td></td> <td></td> <td>-</td> <td></td> <td></td>	10282018 8:58a		S1-2'	1 - 40z.	ICE	202	×	×	13		×			-		
8:03a Soil S2-2' 1-402. ICE	10/28/2016 9:01a		\$2-1	1 - 4oz.	ICE	503	×	×			×					
9:06a Soil S2-3' 1-40z. ICE 205 9:26a Soil S2-3.5' 1-40z. ICE 205 Time: Relinquished by: 7.00	10/28/2016 9:03а		\$2-2.	1 - 40z.	ICE	692	×	×	-		×					
7.00 Soil S2-3.5' 1-402 ICE CU	10/28/2016 9:06a		S2-3'	1 - 4oz.	ICE	205	×	×			×					
Time: Relinquistred by: A.O. Market by: A.O. Market by: Date Time Count from 11 (01 16 LOS) The Time	10/28/2018 9:26а		\$2-3.5		ICE	50%	×	×			×	,				
Time: Relinquished by: A.00 Received by: Count from 11 0 16 100 The Time Date Time Date Time																2 2
Time: Relinquistred by: A.O. Marie Time Count from 11 0 1 16 1000											-					
Time: Relinquished by: 4.00 A.00 Date Time Date Time																
Time: Relinquished by: 4.00 A.00 Date Time Time Date Time				į												
Time Defendable Darelved hy			2	Received by:	1 June	-3	Rema	rks: Ar	ıalysis	results	by 11/	8/2016	les.			
Time: Kelinquished by: Kedelved by:	-	Relinquished by:	ed by:	Received by:		Date Time	,									