

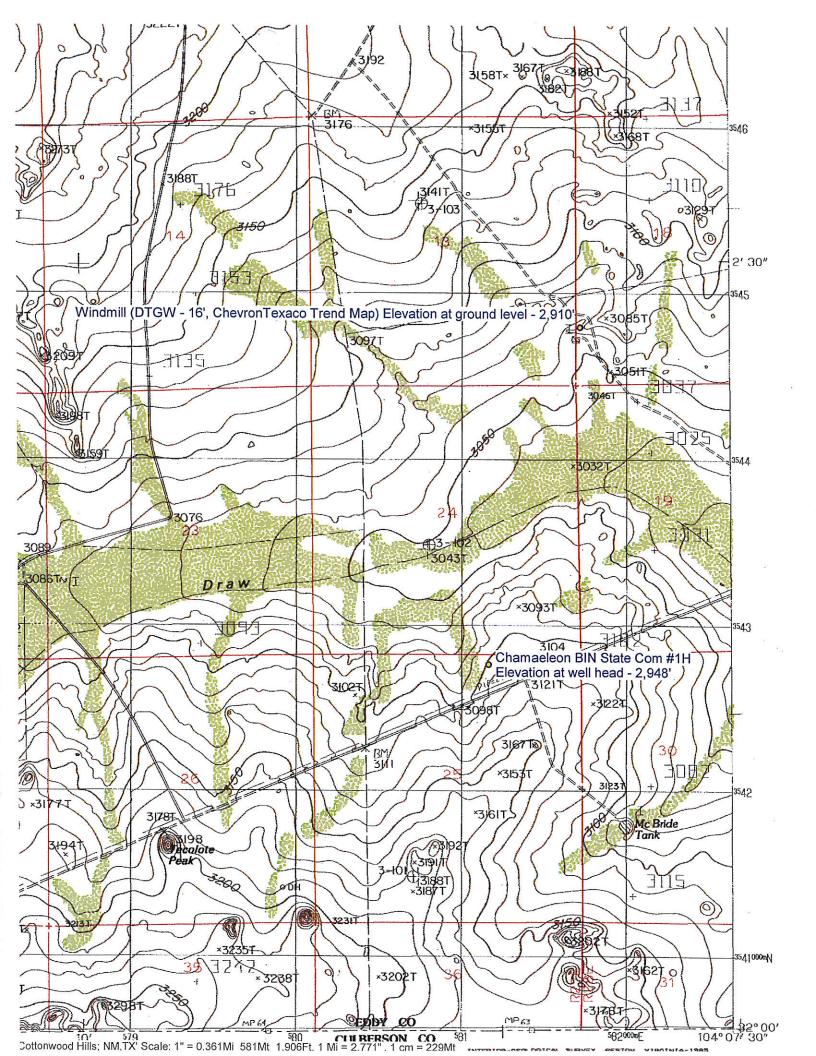
Analytical Report- 1605D68 (Hall)	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
S 0.25	Overspray Area	5/25/2016	Grab/Shovel	3"	ND	ND	310	310	3400
S 0.75	Overspray Area	5/25/2016	Grab/Shovel	9"	ND	ND	500	500	1400
Analytical Report- 1610D85 (Hall)	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
S 0.50	Overspray Area	10/24/2016	Grab/Shovel	6" (18" BSL)					950
S 0.75	Overspray Area	10/24/2016	Grab/Shovel	12" (24" BSL)					1200
Analytical Report- 1701497 (Hall)	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
S 1.50	Overspray Area	1/10/2017	Grab/Auger	18" (30" BSL)					73
S 2.0	Overspray Area	1/10/2017	Grab/Auger	24" (36" BSL)					ND

Site Ranking is Ten (10). Depth to Ground Water 50-99' (approx. 54', per ChevronTexaco Trend Map).

All results are ppm. BSL - Below Surface Level

Released: 15 B/O & 290 B/PW; Recovered: 15 B/O & 290 B/PW. Release Date: 4/25/2016

Impacted soils excavated.





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

January 18, 2017

Robert Asher EOG Resources 105 South Fourth Street Artesia, NM 88210 TEL: (575) 748-4111

FAX

RE: Chamaeleon BIN State Com. #1H

OrderNo.: 1701497

Dear Robert Asher:

Hall Environmental Analysis Laboratory received 2 sample(s) on 1/12/2017 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

Lab Order: 1701497

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 1/18/2017

CLIENT: **EOG Resources** Lab Order: 1701497 Chamaeleon BIN State Com. #1H Project: 1701497-001 Collection Date: 1/10/2017 2:34:00 PM Lab ID: Matrix: SOIL Client Sample ID: S 1.50 Result **PQL Qual Units DF** Date Analyzed **Batch ID** Analyses **EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride 73 30 mg/Kg 20 1/17/2017 12:14:28 AM 29694 Collection Date: 1/10/2017 2:44:00 PM Lab ID: 1701497-002 Client Sample ID: S 2.00 Matrix: SOIL PQL Qual Units DF Date Analyzed Analyses Result Batch ID **EPA METHOD 300.0: ANIONS** Analyst: LGT Chloride ND 30 mg/Kg 20 1/17/2017 1:16:30 AM 29694

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 1 of 2
- 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#:

1701497

18-Jan-17

Client:

EOG Resources

Project:

Chamaeleon BIN State Com. #1H

Sample ID MB-29694

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 29694

RunNo: 40057

Prep Date: 1/13/2017

SeqNo: 1255401

Units: mg/Kg

Analyte

Analysis Date: 1/16/2017 **PQL**

SPK value SPK Ref Val %REC LowLimit

HighLimit %RPD

RPDLimit

Qual

Chloride

ND

Sample ID LCS-29694

SampType: LCS

Client ID: LCSS

Batch ID: 29694

PQL

1.5

RunNo: 40057

Units: mg/Kg

Prep Date: 1/13/2017

Analysis Date: 1/16/2017

SeqNo: 1255402

HighLimit

Analyte

Result

97.3

SPK value SPK Ref Val %REC LowLimit

90

Result

15.00

RPDLimit

Qual

Chloride

110

15

TestCode: EPA Method 300.0: Anions

%RPD

Qualifiers:

S

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

H Holding times for preparation or analysis exceeded

% Recovery outside of range due to dilution or matrix

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

В Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Detection Limit Sample container temperature is out of limit as specified

P

Page 2 of 2



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 Order Number	er: 1701497		RcptNo:	1
Received by/dat	te: $\mathcal{R}\mathcal{E}$	01/12/17	·	*		į
Logged By:	Ashley Gallegos	1/12/2017 9:35:00 AI	М	A		
Completed By:	Ashley Gallegos	1/12/2017 12:57:41 F	РМ	A		İ
Reviewed By:	N	01/12/17		. 0		
Chain of Cus	tody	OUT		*** * * *		
	als intact on sample bottl	es?	Yes []	No []	Not Present	
=======================================	Custody complete?		Yes 🗸	No []	Not Present	
	e sample delivered?		Courier		rot i locolit i i	8
	E		21.1111			
<u>Log In</u>						
4. Was an atte	empt made to cool the sa	amples?	Yes 🗹	No []	NA [.]	
5 More all ser	males see to ad at a to ac-		1773	177	1:3	
O. Wele all sal	ripies received at a temp	perature of >0° C to 6.0°C	Yes 🗸	No 🛄	NA L	
6. Sample(s) in	n proper container(s)?		Yes 🔽	No 🗌		
7 Sufficient sa	mple volume for indicate	ad toot(o)2	200 [00]	No []		
	(except VOA and ONG	\$2.50	Yes 🗸	No []		
12	vative added to bottles?	hoherly bieserved	Yes [7	No 🕍	NA []	
0, 11d0 p100011	ranto added to bottles:		res i i	INO IEI	NA I I	
10.VOA vials ha	ave zero headspace?		Yes []	No 🗀	No VOA Vials 🔽	
11. Were any sa	ample containers receive	ed broken?	Yes 🗀	No 🗹	# of preserved	
40 p			179	F-17	bottles checked	
	work match bottle labels' pancies on chain of cust		Yes V	No ll	for pH: (<2 o	r >12 unless noted)
	correctly identified on C		Yes 🗹	No []	Adjusted?	- 12 dileda floted)
	at analyses were reques		Yes 🗸	No []		
	ding times able to be me		Yes 🗹	No []	Checked by:	21
(if no, notify	customer for authorization	on.)		:		
Special Hand	lling (if applicable)					
	otified of all discrepance		Yes 🗌	Mr. FT	اقتا مند	
I	postpostocuous	23 Auti (III/2 Olde) (Yes	No	NA 🖓	1
38	n Notified:	Date				
By Wh Regan	(A. HARRING TO A CONTRACT OF THE PARTY OF TH	Via:	eMail P	hone [] Fax	[] In Person	
_	Instructions:		ALES PARTIES DE LA CONTRACTION DEL CONTRACTION DE LA CONTRACTION D	N. W. S.	A STATE OF THE PARTY OF THE PAR	
1		***			****	
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18. Cooler Info		on Seal Intact Seal No	Seal Date	Signed By		
1	3.3 Good	Yes	Geal Pale	Oigned by		

4	RY								(N -	10)	() s	Air Bubble:															report
HALL ENVIRONMENTAL	ANALYSIS LABORATORY		60										+					- T		1	+	\dashv	-	-	Remarks: Chlorides Only. Analytical Results by 1/20/2017.		analytical
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1	Z	*	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975							_	EDB (Meth	_					_		_	_	_	\dashv	-	ides		b-confr
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			ı. #1H			_%				% □		HEAL No. 1701497	100-	-005	1862										Date Time R	Date Time	s. This serves as notice of thi
Time:	□ Rush	ä	Chamaeleon BIN State Com. #1H		2	iger:	*				perature: 33	Preservative Type	əol	lce											1	=	accredited laboratorie
Turn-Around Time:	X Standard	Project Name:	Chamaeleon	Project #:	30-015-37942	Project Manager:	Robert Asher	PO# 205632	Sampler: Robert Asher	On Ice:	Sample Temperature: 3	Container Type and #	1 - 4oz.	1 - 4oz.											Received by:	Received by:	contracted to other
Chain-of-Custody Record	ic.		th Street			email: Robert Asher@eogresources.com		☐ Level 4 (Full Validation)				Sample Request ID	S 1.50	\$ 2.00											S S S S S S S S S S S S S S S S S S S	ned by:	If necessary samples submitted to Half Environmental may be subcontracted to other appredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
Cust	urces, In		South 4		217	@eogre				□ Other		Matrix	Soil	Soil											Relingenshed by:	Relinquished by:	Inches submi
nain-of	EOG Resources, Inc.		Mailing Address: 105 South 4th Street	M 88210	Phone #: (575) 748-4217	bert Asher	kage:	, D	on:		ype)	Time	2:34 PM	2:44 PM											Time: 8:31 AM	Time:	if necessary sa
ਹ	Olient:		Mailing Ad	Artesia, NM 88210	Phone #: (email: Rol	QA/QC Package:	X Standard	Accreditation:	O NELAP	☐ EDD (Type)	Date	1/10/17	1/10/17											Date: 1/11/17	Date:	



BREAKS, SPILLS AND LEAKS REPORT

Person Reporting Aron Acosta	Time Reported:	4:30	_ am pm
Person Reported to (Field Supervisor) Owen	Time Reported:	4:35	_ am pm
Environmental Notification Coordinator	Time Reported:		_ am pm
1. LOCATION:			
Name of well or facility: Abundance battery			
Location Section Township	Range County:		·
Surface Owner:	Mineral Owner:	Fee Federal	S tate
2. TIME OF INCIDENT:		*	
Date: 01/16/17 Time:	N/A am pm		
3. SOURCE AND CAUSE: A hammer union had a small hole on the by the H2S.	he side tha cause the lea	kage, the hole was	s cause
4. TYPE OF DISCHARGE Crude Oil Condensate Produced Water Gas	Other rain water in s	ide barrier	×
5. QUANITY:			
Estimated Volumes Discharged: 2 Barrels	of Oil 2	Barrels of Water	
Barrels			
MCF G			
Estimated Volumes Recovered: 2 Barrels Barrels	of Oil 2	Barrels of Water	
6. SITE CHARACTERISTICS:			
Weather Conditions: clear and cool	Soil Type and Condition: the	barrier is lined w	ith plastic
Distance & Direction to fresh water wells or watercourse:			
Secondary Containment type & condition:			
Miscellaneous:			
			THE STATE OF THE PROPERTY OF T
7. IMMEDIATE CORRECTIVE ACTION:		э	
Action and time taken to control incident: Shut wells in preventing	g more fluid from escapi	ng, also closing va	lves to
the horizontal and vertcal units to isolate the hammer union			
-			
	and the conference of the second production of the second		

BREAKS, SPILLS AND LEAKS REPORT

8. SITE ASSESMENT

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

November 03, 2016

Robert Asher Yates Petroleum Corporation 105 South Fourth Street Artesia, NM 88210

TEL: (575) 748-4111

FAX

RE: Chamaeleon BIN State Com 1H

OrderNo.: 1610D85

Dear Robert Asher:

Hall Environmental Analysis Laboratory received 2 sample(s) on 10/27/2016 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 OC 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: 1610D85

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/3/2016

CLIENT:

Yates Petroleum Corporation

Project:

Chamaeleon BIN State Com 1H

Lab Order:

1610D85

Lab ID:

1610D85-001

Collection Date: 10/24/2016 11:07:00 AM

Client Sample ID: S 0.50

Matrix: SOIL

Analyses

Result **PQL Qual Units**

DF Date Analyzed **Batch ID**

EPA METHOD 300.0: ANIONS

950

Result

30 mg/Kg

20 11/1/2016 8:27:42 PM 28393

Analyst: LGT

Lab ID:

Analyses

Chloride

1610D85-002

Collection Date: 10/24/2016 11:17:00 AM

Client Sample ID: S 1.00

Matrix: SOIL PQL Qual Units

DF Date Analyzed

Batch ID

EPA METHOD 300.0: ANIONS

Chloride

1200

75

mg/Kg

11/2/2016 5:59:07 PM

Analyst: MRA

28393

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
- Analyte detected in the associated Method Blank
- E Value above quantitation range
- Analyte detected below quantitation limits J

Page 1 of 2

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1610D85

03-Nov-16

Client:

Yates Petroleum Corporation

Project:

Chamaeleon BIN State Com 1H

Sample ID MB-28393

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID: Prep Date:

PBS

11/1/2016

Batch ID: 28393 Analysis Date: 11/1/2016 RunNo: 38370

SeqNo: 1198745

Units: mg/Kg

HighLimit

RPDLimit

Qual

Analyte Chloride

Result PQL ND

1.5 SampType: Ics

TestCode: EPA Method 300.0: Anions

RunNo: 38370

Prep Date:

Sample ID LCS-28393

Batch ID: 28393

Units: mg/Kg

Client ID:

11/1/2016

LCSS

Analysis Date: 11/1/2016

PQL

1.5

SeqNo: 1198746

HighLimit

%RPD **RPDLimit**

Analyte

SPK value SPK Ref Val %REC

15.00

95.0

90

LowLimit

Qual

Chloride

14

SPK value SPK Ref Val %REC LowLimit

110

%RPD

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Η Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

R RPD outside accepted recovery limits

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

 \mathbf{E} Value above quantitation range

J 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 2 of 2



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 Order N	umber: 1610D85		RcptNo:	
Received by/date: C.O. /0/a	7/10			
Logged By: Ashley Gallegos 10/27/2016 11:0	0:00 AM	A		
Completed By: Ashley Gallegos 10/27/2016 5:23	3:30 PM	A		
Reviewed By:		0		
Chain of Custody	A CONTRACTOR OF THE PROPERTY O	The state of the s		
Custody seals intact on sample bottles?	Yes 🗌	No 🗆	Not Present	
2. Is Chain of Custody complete?	Yes 🗹	No 🗆	Not Present	.90
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 🗹	# - 6	
		_	# of preserved bottles checked	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗔	for pH:	>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 🗌	8	
15. Were all holding times able to be met?	Yes 🗹	No 🗆	Checked by:	
(If no, notify customer for authorization.)				
Special Handling (if applicable)	린			
16. Was client notified of all discrepancies with this order?	Yes 🗌	No 🗆	NA 🗹	
Person Notified:	Date	- Situated Comments		
By Whom:	Via: eMail	Phone Fax	In Person	
Regarding:			- AND	
Client Instructions:				
17. Additional remarks:				
18. Cooler Information				
Cooler No Temp °C Condition Seal Intact Seal	No Seal Date .	Signed By		
1 1.8 Good Yes			I	

ATMENTOGENERAL	ANALYSIS LABORATORY		5						(N 10	\ <u>\</u>	Air Bubbles					•									e e		
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	Z	≸	kins	Tel. 505-345-3975			عبر بريد سياده د	-			EDB (Metho	_							•	_				only			:
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			4901	Tel.							BTEX + MT									-			_	rides		12.7	
			. •	•							TM + X3T8		-		_								-	Chlorides (CI) only, Please.			
	1										Vie	100	600						2					Time		Time	
		=	ı. #1H		*2				J Ne		18년년 기사 르 바	0-	P							,				Date	27/16	· Date	:
ime:	□ Rush		3IN State Con			er:			ert Asher	Siratures:	Preservative Type	NA	¥												10)		r.
Turn-Around Time:	X Standard	Project Name:	Chamaeleon BIN State Com. #1H	Project #:	30-015-37942	Project Manager:	Robert Asher	PO# 205632	Sampler: Robert Asher	Sample Irems		1 - 4oz.	1 - 4oz.				:							Received by:	100	Received by:	
		·		•				dation)		-	st ID.													ď	o :		
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dv R	ration		Street			сош	•	☐ Level 4 (Full Validation)			Sample Request ID		-r										٠	arby.)	3	d by:	
Custo	ım Corpo		South 4tt		117	troleum.		П	□ Other		Matrix	Soil	Soil						-				.:	Relinquished by		Relinquished by:	
Chain-of-Custody Record	s Petrolet		ess: 105	88210	75) 748-42	@yatespe	ige:		٠		Тіте	11:07 AM	11:17 AM											Time:	6 PM	Time:	
Ch	Client: Yates Petroleum Corporation		Mailing Address: 105 South 4th Street	Artesia, NM 88210	Phone #: (575) 748-4217	email: boba@yatespetroleum.com	QA/QC Package:	□ Standard	Accreditation:	□ EDD (Type)	Date	10/24/16	10/24/16											Date:	91/16	Date:	



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

June 07, 2016

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

FAX

RE: Chamaeleon BIB State Com 1H

OrderNo.: 1605D68

Dear Robert Asher:

Hall Environmental Analysis Laboratory received 2 sample(s) on 5/27/2016 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,

Andy Freeman

Laboratory Manager

andist

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1605D68

Date Reported: 6/7/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Project: Chamaeleon BIB State Com 1H

Lab ID: 1605D68-001

Client Sample ID: S 0.25

Collection Date: 5/25/2016 11:40:00 AM

Received Date: 5/27/2016 9:50:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LGT
Chloride	3400	150	mg/Kg	100	6/6/2016 10:31:44 PM	25664
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS				Analyst	: TOM
Diesel Range Organics (DRO)	310	9.4	mg/Kg	1	6/2/2016 8:32:28 AM	25585
Surr: DNOP	92.0	70-130	%Rec	1	6/2/2016 8:32:28 AM	25585
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/1/2016 8:58:15 PM	25568
Surr: BFB	116	80-120	%Rec	1	6/1/2016 8:58:15 PM	25568
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Methyl tert-butyl ether (MTBE)	ND	0.097	mg/Kg	1	6/1/2016 8:58:15 PM	25568
Benzene	ND	0.024	mg/Kg	1	6/1/2016 8:58:15 PM	25568
Toluene	ND	0.048	mg/Kg	1	6/1/2016 8:58:15 PM	25568
Ethylbenzene	ND	0.048	mg/Kg	1	6/1/2016 8:58:15 PM	25568
Xylenes, Total	ND	0.097	mg/Kg	1	6/1/2016 8:58:15 PM	25568
Surr: 4-Bromofluorobenzene	118	80-120	%Rec	1	6/1/2016 8:58:15 PM	25568

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 1 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
 - W Sample container temperature is out of limit as specified

Lab Order 1605D68

Date Reported: 6/7/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum Corporation

Chamaeleon BIB State Com 1H

Lab ID: 1605D68-002

Project:

Matrix: SOIL

Client Sample ID: S 0.75

Collection Date: 5/25/2016 11:50:00 AM Received Date: 5/27/2016 9:50:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LGT
Chloride	1400	75	mg/Kg	50	6/6/2016 10:44:09 PM	25664
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst	:: TOM
Diesel Range Organics (DRO)	500	9.9	mg/Kg	1	6/2/2016 8:59:43 AM	25585
Surr: DNOP	103	70-130	%Rec	1	6/2/2016 8:59:43 AM	25585
EPA METHOD 8015D: GASOLINE RAM	1GE				Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/1/2016 9:21:38 PM	25568
Surr: BFB	117	80-120	%Rec	1	6/1/2016 9:21:38 PM	25568
EPA METHOD 8021B: VOLATILES				8	Analys	: NSB
Methyl tert-butyl ether (MTBE)	ND	0.097	mg/Kg	1	6/1/2016 9:21:38 PM	25568
Benzene	ND	0.024	mg/Kg	1	6/1/2016 9:21:38 PM	25568
Toluene	ND	0.048	mg/Kg	1	6/1/2016 9:21:38 PM	25568
Ethylbenzene	ND	0.048	mg/Kg	1	6/1/2016 9:21:38 PM	25568
Xylenes, Total	ND	0.097	mg/Kg	1	6/1/2016 9:21:38 PM	25568
Surr: 4-Bromofluorobenzene	119	80-120	%Rec	1	6/1/2016 9:21:38 PM	25568

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 2 of 6
- 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#:

1605D68

07-Jun-16

Client:

Yates Petroleum Corporation

Project:

Chamaeleon BIB State Com 1H

Sample ID MB-25664

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 25664

1.5

1.5

RunNo: 34687

HighLimit

Prep Date: 6/3/2016

Analysis Date: 6/3/2016

SPK value SPK Ref Val %REC LowLimit

Units: mg/Kg

Analyte

Result PQL SeqNo: 1069971

%RPD

RPDLimit

Qual

Chloride

ND

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Sample ID LCS-25664

Batch ID: 25664

RunNo: 34687

Prep Date: 6/3/2016

Units: mg/Kg

Analyte

Analysis Date: 6/3/2016

SeqNo: 1069973

%RPD **RPDLimit**

PQL

15.00

96.5

90

LowLimit

110

Chloride

14

Result

0

SPK value SPK Ref Val %REC

HighLimit

Qual

Qualifiers:

Value exceeds Maximum Contaminant Level.

Sample Diluted Due to Matrix D

Holding times for preparation or analysis exceeded Η

Not Detected at the Reporting Limit ND

RPD outside accepted recovery limits R

% Recovery outside of range due to dilution or matrix S

В Analyte detected in the associated Method Blank

E Value above quantitation range

Analyte detected below quantitation limits J

Page 3 of 6

P Sample pH Not In Range

Reporting Detection Limit RL

Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1605D68

07-Jun-16

Client:

Yates Petroleum Corporation

Project:

Chamaeleon BIB State Com 1H

Project: Chamac	ICOII DID 216	- CON	1 111							
Sample ID LCS-25585	SampTy	/pe: LC	S	Test	Code: El	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch	ID: 25	585	R	tunNo: 3	4626				
Prep Date: 5/31/2016	Analysis Da	ate: 6/	1/2016	S	SeqNo: 1	068523	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.8	62.6	124			
Surr: DNOP	4.2		5.000		83.9	70	130			
Sample ID MB-25585	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 25	585	F	RunNo: 3	4626				
Prep Date: 5/31/2016	Analysis Da	ate: 6/	1/2016	8	SeqNo: 1	068524	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	8.6		10.00		86.0	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 4 of 6

- 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#:

1605D68

07-Jun-16

Client:

Yates Petroleum Corporation

1300

1000

Project:	Chamael	eon BIB Sta	ate Cor	n 1H		A					N. 16 A. V. S. 18 C
Sample ID ME	3-25568	SampTy	/pe: ME	BLK	Test	Code: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: PB	38	Batch	ID: 25	568	R	unNo: 3	4598				
Prep Date: 5	/31/2016	Analysis Da	ate: 6/	1/2016	S	eqNo: 1	067457	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Or Surr: BFB	rganics (GRO)	ND 1100	5.0	1000		112	80	120			
Sample ID LC	S-25568	SampTy	ype: LC	:S	Tes	Code: E	PA Method	8015D: Gaso	line Rang	e	
Client ID: LC			ID: 25		F	lunNo: 3	4598				
Prep Date: 5	3/31/2016	Analysis Da	ate: 6/	1/2016	8	SeqNo: 1	067458	Units: mg/K	(g		
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Or	rganics (GRO)	23	5.0	25.00	0	91.1	80	120			
Surr: BFB		1200		1000		125	80	120			S
Sample ID ME	B-25547	SampT	ype: MI	зьк	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	e	
Client ID: PE	38	Batch	ID: 25	547	F	RunNo: 3	4598				
Prep Date: 5	5/27/2016	Analysis D	ate: 6	/1/2016	5	SeqNo: 1	067478	Units: %Re	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		1200		1000		118	80	120			
Sample ID LO	CS-25547	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	je	
Client ID: LC	css	Batch	ID: 25	547	F	RunNo: 3	4598				
Prep Date: 5	5/27/2016	Analysis D	ate: 6	/1/2016	5	SeqNo: 1	067479	Units: %Re	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

Surr: BFB

- 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 ND
- RPD outside accepted recovery limits R
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank В
- E Value above quantitation range

127

80

120

- Analyte detected below quantitation limits J
- Page 5 of 6

s

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

Hall Environmental Analysis Laboratory, Inc.

WO#:

1605D68

07-Jun-16

Client:

Yates Petroleum Corporation

Project:

Chamaeleon BIB State Com 1H

Sample ID MB-25568	SampT	ype: ME	BLK	Test	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	ID: 25	568	R	RunNo: 3	4598				
Prep Date: 5/31/2016	Analysis D	ate: 6/	1/2016	S	SeqNo: 1	067503	Units: mg/K	(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	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		116	80	120			

Sample ID LCS-25568	Tes										
Client ID: LCSS	Batch	1D: 25	568	F							
Prep Date: 5/31/2016	Analysis D	ate: 6/	1/2016	8	SeqNo: 1	067504	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Methyl tert-butyl ether (MTBE)	1.0	0.10	1.000	0	101	61	143				
Benzene	1.0	0.025	1.000	0	103	75.3	123				
Toluene	1.0	0.050	1.000	0	101	80	124				
Ethylbenzene	0.99	0.050	1.000	0	98.9	82.8	121		22		
Xylenes, Total	3.0	0.10	3.000	0	99.3	83.9	122				
Surr: 4-Bromofluorobenzene	1.2		1.000		124	80	120			S	

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

Page 6 of 6



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: Yates Petroleum Corpora Work Order Numbe	r: 1605D68		RcptNo: 1	
Received by/date: JA 05/27/16				
Logged By: Anne Thome 5/27/2016 9:50:00 AM	A	anne Am	_	
Completed By: Anne Thome 5/31/2016		Anne Sham	_	
Reviewed By: 05/31/19		See		
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			
<u>Log In</u>				
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 □	SP.
6. Sample(s) in proper container(s)?	Yes 🗹	No 🗆		
7. Sufficient sample volume for Indicated test(s)?	Yes 🔽	No 🗆		8.1
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 🗹	# 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?	Yes 🗸	No 🗆	Checked by:	
(If no, notify customer for authorization.) 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:			ALIATOVA APARLES	
Client Instructions:				
17. Additional remarks:				
18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No 1 1.7 Good Yes	. Seal Date:	Signed By		

I A FIRST MAN	ANALYSIS LABORATORY	antal.com	Albuquerque, NM 87109	Fax 505-345-4107	uest		300) d 7	· (\v	'\O'	8260B (VOA 8260B (VOA 8270 (Semi-											If necessary, 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.
****	NALYSIS L	www.hallenvironmental.com			alys		-100		(1.4(d 56 tals	EDB (Metho 8310 (PNA d RCRA 8 Me	×	×									contracted data will be clearly
			4901 Hawkins NE	Tel. 505-345-3975				e5)	HGT 4	3E -	BTEX + MTI BTEX + MTI Cotho PPH (Metho	×	×		 4							possibility. Any sub-
			n. #1H			100			ON ALL		HEAL No.	(P	1200						Date Time	10	Date Time	s. This serves as notice of this
Time:	Rush	ė;	Chamaeleon BIB State Com. #1H	*	.2	ager:	Je.		bert Asher	perature.//	Preservative Type	eoj	<u>8</u>							A		ccredited laboratorie
Turn-Around Time:	X Standard	Project Name:	Chamaeleon	Project #:	30-015-37942	Project Manager:	Robert Asher	PO# 205632	Sampler: Robert Asher On Ice: 图 Yes	Sample Temperature:	Container Type and #	1 - 402.	1 - 402.						Received by	Sur. Ma	Received by:	ontracted to other a
Chain-of-Custody Record	ooration		th Street			т.сот		☐ Level 4 (Full Validation) PO# 205632			Sample Request ID	\$ 0.25	\$ 0.75						, A 10	j		ted to Hall Environmental may be subco
-Cust	sum Corp		South 4		4217	oetroleun.			□ Other		Matrix	Soil	Soil						Doğumlari	Ů	Relinquished by:	I mples submitt
nain-of	Yates Petroleum Corporation		ailing Address: 105 South 4th Street	tesia, NM 88210	10ne #: (575) 748-4217	nail: boba@yatespetroleum.com	kage:	á	on:	(bd)	Time	11:40 AM	11:50 AM						Tino.	8:48 AM	Time:	f necessary, sa
Ö	ient: Ya		ailing Ad	tesia, N	ione 样:	nail: bol	VQC Package:	Standard	creditation:	EDD (Type)	Date	3/25/16	1/25/16				,		į	9/16	ig.	