

Analytical Report-		Sample		····					l
1304B34 (Hall)	Sample Area	Date	Sample Type	Depth	BTEX	GRO	DRO	TOTAL	Chlorides
	Release Area -		-	-					
Comp-01.0 A	Α	4/18/2013	Comp/Backhoe	12"	ND	ND	ND	ND	14000
	Release Area -	,							
Comp-02.0 A	Α	4/18/2013	Comp/Backhoe	24"	ND	ND	ND	ND .	4400
	Release Area -								
Comp-03.0 A	Α	4/13/2013	Comp/Backhoe	36"	ND	ND	ND	ND	1300
	Release Area -								
Comp-01.0 B	В	4/13/2013	Comp/Backhoe	12"	ND	, ND	ND	ND	11000
	Release Area -)			
Comp-02.0 B	В	_4/13/2013	Comp/Backhoe	24"	ND	ND	ND	ND	3300
	Release Area -		1	<u> </u>		-			
Comp-03_0 B	В	4/13/2013	Comp/Backhoe	36"	ND	ND	ND	ND	850

Site Ranking is Ten (10). Depth to Ground Water 50-99' (approx. 90', per Trend Map).

All results are ppm. X - Sample Points BLS - Below Surface Level

Impacted soils to be excavated

Released (2 releases): 130 B/PW; Recovered: 119 B/PW. Release Date: 3/22/2013 & 4/1/2013



Bonbon BNNState Com.#1-H

30-015-36913

Section 27, T25S-R28E

Eddy County, NM

SAMPLE DIAGRAM (Not to Scale)

Xenco Laboratories# 1304B34 Report Date: 5/2/2013

Prepared by Robert Asher Environmental Regulatory Agent



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

May 02, 2013

Robert Asher

Yates Petroleum 105 South 4th Artesia, NM 88210

TEL: (575) 748-4217

FAX

RE: Bonbon BNN State Com. #1-H

OrderNo.: 1304B34

Dear Robert Asher:

Hall Environmental Analysis Laboratory received 6 sample(s) on 4/24/2013 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. 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. 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.

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 1304B34 Date Reported: 5/2/2013

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: Comp-01.0A

CLIENT: Yates Petroleum Bonbon BNN State Com. #1-H Project: Collection Date: 4/18/2013 10:40:00 AM

Lab ID: 1304B34-001 Matrix: SOIL Received Date: 4/24/2013 9:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RAN	GE-ORGANICS-				-Analyst: GSA
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/1/2013 5:09:58 AM
Surr: DNOP	116	63-147	%REC	1	5/1/2013 5:09:58 AM
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/30/2013 2:08:12 PM
Surr: BFB	91.0	80-120	%REC	1	4/30/2013 2:08:12 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.047	mg/Kg	1	4/30/2013 2:08:12 PM
Toluene	ND	0.047	mg/Kg	1	4/30/2013 2:08:12 PM
Ethylbenzene	ND	0.047	mg/Kg	1	4/30/2013 2:08:12 PM
Xylenes, Total	ND	0.095	mg/Kg	1	4/30/2013 2:08:12 PM
Surr: 4-Bromofluorobenzene	101	80-120	%REC	1	4/30/2013 2:08:12 PM
EPA METHOD 300.0: ANIONS					Analyst: JRR
Chloride	14000	750	mg/Kg	500	4/30/2013 7:50:32 PM

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH greater than 2
- Reporting Detection Limit

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits

Analytical Report Lab Order 1304B34

Date Reported: 5/2/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum

Client Sample ID: Comp-02.0A

Project: Bonbon BNN State Com. #1-H

Collection Date: 4/18/2013 10:50:00 AM

Lab ID: 1304B34-002

Received Date: 4/24/2013 9:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analyst: GSA
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/1/2013 5:37:23 AM
Surr: DNOP	144	63-147	%REC	1	5/1/2013 5:37:23 AM
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/30/2013 2:36:58 PM
Surr: BFB	90.1	80-120	%REC	1	4/30/2013 2:36:58 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.047	mg/Kg	1	4/30/2013 2:36:58 PM
Toluene	ND	0.047	mg/Kg	1	4/30/2013 2:36:58 PM
Ethylbenzene	ND	0.047	mg/Kg	1	4/30/2013 2:36:58 PM
Xylenes, Total	ND	0.094	mg/Kg	1	4/30/2013 2:36:58 PM
Surr: 4-Bromofluorobenzene	99.5	80-120	%REC	1	4/30/2013 2:36:58 PM
EPA METHOD 300.0: ANIONS					Analyst: JRR
Chloride	4400	150	mg/Kg	100	4/30/2013 12:11:15 PM

Matrix: SOIL

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

1

S Spike Recovery outside accepted recovery limits 2 of 10

Analytical Report

Lab Order 1304B34

Date Reported: 5/2/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum

Client Sample ID: Comp-03.0A

Project:

Bonbon BNN State Com. #1-H

Collection Date: 4/18/2013 11:00:00 AM

Lab ID:

1304B34-003

Matrix: SOIL

Received Date: 4/24/2013 9:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS		 		Analyst: GSA
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/1/2013 6:04:29 AM
Surr: DNOP	110	63-147	%REC	1	5/1/2013 6:04:29 AM
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/30/2013 3:05:33 PM
Surr: BFB	89.9	80-120	%REC	1	4/30/2013 3:05:33 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.047	mg/Kg	1	4/30/2013 3:05:33 PM
Toluene	ND	0.047	mg/Kg	1	4/30/2013 3:05:33 PM
Ethylbenzene	ND	0.047	mg/Kg	1	4/30/2013 3:05:33 PM
Xylenes, Total	ND	0.094	mg/Kg	1	4/30/2013 3:05:33 PM
Surr: 4-Bromofluorobenzene	99.3	80-120	%REC	1	4/30/2013 3:05:33 PM
EPA METHOD 300.0: ANIONS					Analyst: JRR
Chloride	1300	150	mg/Kg	100	4/30/2013 12:23:40 PM

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits 3 of 10

Analytical Report Lab Order 1304B34

Date Reported: 5/2/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum

Client Sample ID: Comp-01.0B

Project:

Bonbon BNN State Com. #1-H

Collection Date: 4/18/2013 11:20:00 AM

Lab ID:

1304B34-004

Matrix: SOIL

Received Date: 4/24/2013 9:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analyst: GSA
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/1/2013 6:31:48 AM
Surr: DNOP	139	63-147	%REC	1	5/1/2013 6:31:48 AM
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/30/2013 3:34:11 PM
Surr: BFB	90.3	80-120	%REC	1	4/30/2013 3:34:11 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.047	mg/Kg	1	4/30/2013 3:34:11 PM
Toluene	ND	0.047	mg/Kg	1	4/30/2013 3:34:11 PM
Ethylbenzene	ND	0.047	mg/Kg	1	4/30/2013 3:34:11 PM
Xylenes, Total	ND	0.095	mg/Kg	1	4/30/2013 3:34:11 PM
Surr: 4-Bromofluorobenzene	99.7	80-120	%REC	1	4/30/2013 3:34:11 PM
EPA METHOD 300.0: ANIONS					Analyst: JRR
Chloride	11000	300	mg/Kg	200	4/30/2013 7:13:19 PM

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits
- P Sample pH greater than 2
- Reporting Detection Limit

- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit ND
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits

Analytical Report

Lab Order 1304B34 Date Reported: 5/2/2013

Hall Environmental Analysis Laboratory, Inc.

Bonbon BNN State Com. #1-H

CLIENT: Yates Petroleum

Project:

Lab ID:

Client Sample ID: Comp-02.0B

Collection Date: 4/18/2013 11:20:00 AM

1304B34-005 Matrix: SOIL Received Date: 4/24/2013 9:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS		-		Analyst: GSA
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/1/2013 6:58:58 AM
Surr: DNOP	136	63-147	%REC	1	5/1/2013 6:58:58 AM
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/30/2013 4:02:48 PM
Surr: BFB	89.3	80-120	%REC	1	4/30/2013 4:02:48 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.049	mg/Kg	1	4/30/2013 4:02:48 PM
Toluene	ND	0.049	mg/Kg	1	4/30/2013 4:02:48 PM
Ethylbenzene	ND	0.049	mg/Kg	1	4/30/2013 4:02:48 PM
Xylenes, Total	ND	0.098	mg/Kg	1	4/30/2013 4:02:48 PM
Surr: 4-Bromofluorobenzene	98.0	80-120	%REC	1	4/30/2013 4:02:48 PM
EPA METHOD 300.0: ANIONS					Analyst: JRR
Chloride	3300	300	mg/Kg	200	4/30/2013 1:00:54 PM

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits
- P Sample pH greater than 2
- Reporting Detection Limit

- Analyte detected in the associated Method Blank В
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits 5 of 10 S

Analytical Report Lab Order 1304B34

Date Reported: 5/2/2013

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Yates Petroleum

Client Sample ID: Comp-03.0B

Project:

Bonbon BNN State Com. #1-H

Collection Date: 4/18/2013 11:30:00 AM

Lab ID:

1304B34-006

Matrix: SOIL

Received Date: 4/24/2013 9:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analyst: GSA
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/1/2013 7:25:55 AM
Surr: DNOP	86.8	63-147	%REC	1	5/1/2013 7:25:55 AM
EPA METHOD 8015D: GASOLINE RA	NGE		7		Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/30/2013 4:31:28 PM
Surr: BFB	89.1	80-120	%REC	1	4/30/2013 4:31:28 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.047	mg/Kg	1	4/30/2013 4:31:28 PM
Toluene	ND	0.047	mg/Kg	1	4/30/2013 4:31:28 PM
Ethylbenzene	ND	0.047	mg/Kg	1	4/30/2013 4:31:28 PM
Xylenes, Total	ND	0.094	mg/Kg	1	4/30/2013 4:31:28 PM
Surr: 4-Bromofluorobenzene	99.0	80-120	%REC	1	4/30/2013 4:31:28 PM
EPA METHOD 300.0: ANIONS					Analyst: JRR
Chloride	850	30	mg/Kg	20	4/30/2013 8:27:47 PM

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- Analyte detected below quantitation limits
- P Sample pH greater than 2
- Reporting Detection Limit RL

- Analyte detected in the associated Method Blank В
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits

OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#:

1304B34 02-May-13

Client:

Yates Petroleum

Project:

Bonbon BNN State Com. #1-H

Sample ID MB-7223

SampType: MBLK

SPK value SPK Ref Val %REC LowLimit

Client ID: PBS

Batch ID: 7223

RunNo: 10222

Prep Date: 4/30/2013 Analysis Date: 4/30/2013

Result

SeqNo: 291571

Units: mg/Kg HighLimit

RPDLimit %RPD

Qual

Analyte Chloride

ND 1.5

PQL

Sample ID LCS-7223

SampType: LCS

TestCode: EPA Method 300.0: Anions

TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 7223

RunNo: 10222

Prep Date: 4/30/2013

Analysis Date: 4/30/2013

SeqNo: 291572

Units: mg/Kg

Analyte

LowLimit

RPDLimit Qual

Chloride

15

PQL SPK value SPK Ref Val 1.5 15.00

%REC 0 96.8

90

%RPD **HighLimit** 110

Sample ID 1304B05-002AMS

SampType: MS

Result

93

TestCode: EPA Method 300.0: Anions

Client ID:

BatchQC

Batch ID: 7223

RunNo: 10222

Units: mg/Kg

Prep Date:

Client ID:

Prep Date:

4/30/2013

Analysis Date: 4/30/2013

SeqNo: 291590

Qual

Analyte

PQL

7.5

SPK value SPK Ref Val 15.00 77.89

%REC LowLimit 101

HighLimit 117 %RPD **RPDLimit** Qual

Chloride

Sample ID 1304B05-002AMSD

SampType: MSD

TestCode: EPA Method 300.0: Anions

RunNo: 10222

64.4

Analyte Chloride

BatchQC 4/30/2013

Batch ID: 7223 Analysis Date: 4/30/2013

PQL

7.5

SeqNo: 291591

Units: mg/Kg HighLimit

%RPD

RPDLimit

Page 7 of 10

Result 93

SPK value SPK Ref Val

15.00

%REC 77.89

LowLimit 101

64.4

0.0387 117

20

Value exceeds Maximum Contaminant Level.

Value above quantitation range E

Analyte detected below quantitation limits

P Sample pH greater than 2 RL Reporting Detection Limit Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Spike Recovery outside accepted recovery limits

Qualifiers:

R RPD outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1304B34

02-May-13

Client:

Yates Petroleum

Project:	Bonbon F	BNN State	Com. #	#1-H							
Sample ID	MB-7211	SampT	ype: M	BLK	Tes	tCode: E	PA Method	8015D: Dies	sel Range (Organics	······································
Client ID:	PBS	Batch	ID: 72	:11	F	RunNo: 10208					
Prep Date:	4/29/2013	Analysis D	ate: 4	/30/2013	\$	SeqNo: 2	91165	Units: mg/l	Kg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	ND	10								
Surr: DNOP		9.6		10.00		95.8	63	147			
Sample ID	LCS-7211	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID:	LCSS	Batch	ID: 72	11	F	RunNo: 1	0208				
Prep Date:	4/29/2013	Analysis D	ate: 4/	30/2013	S	SeqNo: 2	91166	Units: mg/l	K g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	49	10	50.00	0	97.9	47.4	122			
Surr: DNOP		4.8		5.000		96.1	63	147			
Sample ID	1304B05-001AMS	SampT	ype: MS	3	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID:	BatchQC	Batch	ID: 72	11	F	RunNo: 1	0223				
Prep Date:	4/29/2013	Analysis D	ate: 4/	30/2013	S	SeqNo: 2	91657	Units: mg/l	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	74	10	50.40	12.21	123	12.6	148			
Surr: DNOP		7.5		5.040		148	63	147			s
Sample ID	1304B05-001AMSE) SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015D: Dies	el Range C	Organics	•
Client ID:	BatchQC	Batch	ID: 72	11	R	tunNo: 10	0223				
Prep Date:	4/29/2013	Analysis Da	ate: 5/	1/2013	S	eqNo: 29	91658	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
•)rganics (DRO)	68	10	50.25	12.21	112	12.6	148	7.96	22.5	
Surr: DNOP		6.8		5.025		135	63	147	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1304B34

02-May-13

Client:

Yates Petroleum

Project:

Bonbon BNN State Com. #1-H

Sample ID	MB-7205	SampT	ype: MI	BLK	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	je	
Client ID:	PBS	Batch	1D: 72	05	F	RunNo: 1	0203				
Prep Date:	4/29/2013	Analysis D	ate: 4	/30/2013	\$	SeqNo: 2	91389	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		91.2	80	120			
Sample ID	LCS-7205	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	le .	
Client ID:	LCSS	Batch	ID: 72	05	F	RunNo: 1	0203				
Prep Date:	4/29/2013	Analysis D	ate: 4/	30/2013	\$	SeqNo: 2	91391	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	Organics (GRO)	25	5.0	25.00	0	99.5	62.6	136			
Surr: BFB		990		1000		99.3	80	120			
Sample ID	1304B09-002AMS	SampT	ype: MS	3	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	-
Client ID:	BatchQC	Batch	ID: 72	05	F	RunNo: 1	0203				
Prep Date:	4/29/2013	Analysis D	ate: 4/	30/2013	8	SeqNo: 2	91403	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	Organics (GRO)	28	4.8	23.97	0	115	70	130			
Surr: BFB		950		958.8		99.1	80	120			
Sample ID	1304B09-002AMSI	SD SampType: MSD			Tes	TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	Databoo	Datab	ID: 72	05	_	unNo: 4	0000				

Sample ID 1304B09-002AM	ISD SampT	ype: MS	SD	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BatchQC	Batch	1D: 72	05	RunNo: 10203						
Prep Date: 4/29/2013	Analysis D	ate: 4/	30/2013	8	SeqNo: 2	91410	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.8	23.95	0	108	70	130	6.70	22.1	
Surr: BFB	960		957.9		101	80	120	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1304B34

02-May-13

Client:

Yates Petroleum

Project:

Bonbon BNN State Com. #1-H

Sample ID MB-7205	Samp	Type: Mi	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batc	Batch ID: 7205 Analysis Date: 4/30/2013			RunNo: 1	0203				
Prep Date: 4/29/2013	Analysis [SeqNo: 291444			(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID LCS-7205	SampT	Type: LC	S	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch	h ID: 72	05	F	RunNo: 1	0203				
Prep Date: 4/29/2013	Analysis D)ate: 4/	/30/2013	S	SeqNo: 291445			Units: mg/Kg		
Analyte	Result PQL SPK value			SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	105	80	120			
Toluene	1.0	0.050	1.000	0	103	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 4-Bromofluorobenzene	1.1	1.1 1.000			105	80	120			

Sample ID 1304B09-001AM	S Samp	Type: MS	3	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: BatchQC	Bato	h ID: 72	05	F	RunNo: 1	0203				
Prep Date: 4/29/2013	Analysis I	Date: 4/	30/2013	5	SeqNo: 2	91453	Units: mg/h	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.049	0.9766	0.01522	109	67.2	113			
Toluene	1.1	0.049	0.9766	0	110	62.1	116			
Ethylbenzene	1.1	0.049	0.9766	0	112	67.9	127			
Xylenes, Total	3.2	0.098	2.930	0	110	60.6	134			
Surr: 4-Bromofluorobenzene	1.0		0.9766		107	80	120			

Sample ID 1304B09-001AN	ISD SampT	ype: MS	SD	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: BatchQC	Batch	ID: 72 0	05	F	RunNo: 1	0203				
Prep Date: 4/29/2013	Analysis D	ate: 4/	30/2013	8	SeqNo: 2	91454	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.049	0.9737	0.01522	108	67.2	113	1.80	14.3	
Toluene	1.1	0.049	0.9737	0	109	62.1	116	1.19	15.9	
Ethylbenzene	1.1	0.049	0.9737	0	109	67.9	127	2.89	14.4	
Xylenes, Total	3.1	0.097	2.921	0	108	60.6	134	2.79	12.6	
Surr: 4-Bromofluorobenzene	1.0		0.9737		105	80	120	0	0	

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range E

Analyte detected below quantitation limits

Sample pH greater than 2

RL Reporting Detection Limit

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded Н

Spike Recovery outside accepted recovery limits

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquergue, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List Website: www.hallenvironmental.con

Client Name: Yates Petroleum Corporat Work Order Number	er: 1304B34		RcptNo:	1
Received by/date: 092413				
Logged By: Ashley Gallegos 4/24/2013 9:00:00 All	v A	A		ļ
Completed By: Ashley Gallegos 4/29/2013 1:59:38 PM	v I	A		
Reviewed By: 16 84/29/2013		U		
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?	<u>FedEx</u>			
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 🗹	# of preserved	
40-	r	\square	bottles checked	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No L	for pH: (<2 o	r >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗆	Adjusted?	
14. Is it clear what analyses were requested?	Yes 🗹	No 🗆		
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No 🗆	Checked by:	
,		•		
Special Handling (if applicable)				
16. Was client notified of all discrepancies with this order?	Yes 🗆	No 🗆	NA 🗹	_
Person Notified: Date:	4. 4			
By Whom: Via:	eMail [Phone 🔲 Fax	☐ In Person	
Regarding:	to the second of the second to	No. Concession of the con-		
Client Instructions:				
17. Additional remarks:				
	Seal Date	Signed By		
1 4.3 Good Yes				

Mailing Address: 105 S. Fourth Street Artesia, NM 88210 Phone #: 575-748-4217 email or Fax#: boba@yatespetroleu OAGC Package: Standard Accreditation: NELAP
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