

May 2011

Gallup



ENTERED
BENZENE EXCEEDANCE

COVER LETTER

Thursday, May 19, 2011

Thurman B. Larsen
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-3833
FAX (505) 722-0210

RE: BZ Stippers

Order No.: 1105645

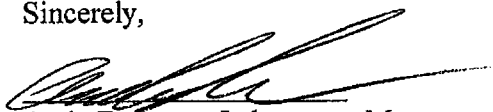
Dear Thurman B. Larsen:

Hall Environmental Analysis Laboratory, Inc. received 5 sample(s) on 5/16/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. 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.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,


Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX



Hall Environmental Analysis Laboratory, Inc.

Date: 19-May-11

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1105645
 Project: BZ Stippers
 Lab ID: 1105645-02

Client Sample ID: BZ 1-2 OUT
 Collection Date: 5/13/2011 8:00:00 AM
 Date Received: 5/16/2011
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	130		µg/L	50	5/16/2011 5:59:52 PM
Benzene	220	50		µg/L	50	5/16/2011 5:59:52 PM
Toluene	580	50		µg/L	50	5/16/2011 5:59:52 PM
Ethylbenzene	68	50		µg/L	50	5/16/2011 5:59:52 PM
Xylenes, Total	420	100		µg/L	50	5/16/2011 5:59:52 PM
Surr. 4-Bromofluorobenzene	110	96.8-145		%REC	50	5/16/2011 5:59:52 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

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

Hall Environmental Analysis Laboratory, Inc.

Date: 19-May-11

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1105645
 Project: BZ Stippers
 Lab ID: 1105645-04

Client Sample ID: BZ 1-2 OUT
 Collection Date: ~~5/15/2011 8:00:00 AM~~
 Date Received: 5/16/2011
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	130		µg/L	50	5/16/2011 6:57:39 PM
Benzene	640	50		µg/L	50	5/16/2011 6:57:39 PM
Toluene	1400	50		µg/L	50	5/16/2011 6:57:39 PM
Ethylbenzene	110	50		µg/L	50	5/16/2011 6:57:39 PM
Xylenes, Total	700	100		µg/L	50	5/16/2011 6:57:39 PM
Surr: 4-Bromofluorobenzene	115	96.8-145		%REC	50	5/16/2011 6:57:39 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: BZ Stippers

Work Order: 1105645

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8021B: Volatiles

Sample ID: B MBLK Batch ID: R45368 Analysis Date: 5/16/2011 11:33:26 AM

Methyl tert-butyl ether (MTBE)	ND	µg/L	2.5								
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	2.0								

Sample ID: 100NG BTEX LCS LCSD Batch ID: R45368 Analysis Date: 5/16/2011 11:04:28 AM

Methyl tert-butyl ether (MTBE)	18.64	µg/L	2.5	20	0	93.2	97.6	132			S
Benzene	18.61	µg/L	1.0	20	0	93.1	93.4	120			S
Toluene	19.25	µg/L	1.0	20	0.2646	94.9	96.2	122			S
Ethylbenzene	19.39	µg/L	1.0	20	0.2758	95.6	95	121			S
Xylenes, Total	58.41	µg/L	2.0	60	0	97.4	97.6	122			S

Sample ID: 100NG BTEX LCSD LCSD Batch ID: R45368 Analysis Date: 5/16/2011 5:02:00 PM

Methyl tert-butyl ether (MTBE)	18.29	µg/L	2.5	20	0	91.5	97.6	132	1.86	10.6	S
Benzene	18.99	µg/L	1.0	20	0	94.9	93.4	120	2.00	10.1	S
Toluene	19.17	µg/L	1.0	20	0.2646	94.5	96.2	122	0.429	14.3	S
Ethylbenzene	19.11	µg/L	1.0	20	0.2758	94.2	95	121	1.47	15.5	S
Xylenes, Total	57.39	µg/L	2.0	60	0	95.7	97.6	122	1.76	10.4	S

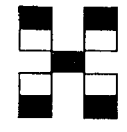
Qualifiers:

- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- NC Non-Chlorinated
- R RPD outside accepted recovery limits

Chain-of-Custody Record

Client: Western - Refinery
Gallup Refinery
 Mailing Address: Rt. 3, Bx 7
Gallup, NM 87301
 Phone #: 505-722-3833
 email or Fax#: 505-722-0210
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Accreditation
 NELAP Other _____
 EDD (Type) _____

Turn-Around Time: NO Charge
 Standard Rush
 Project Name: BZ Strippers
 Project #: BZ API-OUT
 Project Manager: Thurman Larsen
 Sampler: Mullan, RY
 Or Ice: Yes No
 Sample Temperature: 23



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	8021 B BTEX-MTBE	Air Bubbles (Y or N)	
05-12-11	11:00A	H2O	BZ 1-2 OUT	40ML-3	HCL	1													X	
05-13-11	8:00A	H2O	BZ 1-2 OUT	40ML-3	HCL	2													X	
05-14-11	1:00P	H2O	BZ 1-2 OUT	40ML-3	HCL	3													X	
05-15-11	8:00A	H2O	BZ 1-2 OUT	40ML-3	HCL	4													X	
05-16-11	8:00A	H2O	BZ 1-2 OUT	40ML-3	HCL	5													X	

Date: 5/16/11 Time: 12:50 Relinquished by: [Signature]
 Received by: [Signature] Date: 05/16/11 Time: 12:50
 Date: _____ Time: _____ Relinquished by: _____
 Received by: _____ Date: _____ Time: _____

Remarks: Assoc: Hope Monrealio
Kristen Van Horn

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.