



Gallup

May 2011

ENTERED

benzene exceedance

COVER LETTER

Monday, May 09, 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 Strippers

Order No.: 1105290

Dear Thurman B. Larsen:

Hall Environmental Analysis Laboratory, Inc. received 3 sample(s) on 5/6/2011 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,

A handwritten signature in black ink, appearing to read "Andy Freeman".

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: 09-May-11

CLIENT:	Western Refining Southwest, Gallup	Client Sample ID:	BZ 1-2 OUT
Lab Order:	1105290	Collection Date:	5/3/2011 8:00:00 AM
Project:	BZ Strippers	Date Received:	5/6/2011
Lab ID:	1105290-01	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	5/6/2011 3:43:07 PM
Benzene	200	50		µg/L	50	5/6/2011 3:43:07 PM
Toluene	320	50		µg/L	50	5/6/2011 3:43:07 PM
Ethylbenzene	ND	50		µg/L	50	5/6/2011 3:43:07 PM
Xylenes, Total	170	100		µg/L	50	5/6/2011 3:43:07 PM
Surr: 4-Bromofluorobenzene	111	96.8-145		%REC	50	5/6/2011 3:43:07 PM

Qualifiers:

- | | |
|--|--|
| * Value exceeds Maximum Contaminant Level | B Analyte detected in the associated Method Blank |
| E Estimated value | H Holding times for preparation or analysis exceeded |
| J Analyte detected below quantitation limits | MCL Maximum Contaminant Level |
| NC Non-Chlorinated | ND Not Detected at the Reporting Limit |
| PQL Practical Quantitation Limit | S Spike recovery outside accepted recovery limits |

Hall Environmental Analysis Laboratory, Inc.

Date: 09-May-11

CLIENT:	Western Refining Southwest, Gallup	Client Sample ID:	BZ 1-2 OUT
Lab Order:	1105290	Collection Date:	5/4/2011 8:00:00 AM
Project:	BZ Strippers	Date Received:	5/6/2011
Lab ID:	1105290-02	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	5/6/2011 4:13:11 PM
Benzene	450	50		µg/L	50	5/6/2011 4:13:11 PM
Toluene	910	50		µg/L	50	5/6/2011 4:13:11 PM
Ethylbenzene	100	50		µg/L	50	5/6/2011 4:13:11 PM
Xylenes, Total	680	100		µg/L	50	5/6/2011 4:13:11 PM
Surr: 4-Bromofluorobenzene	115	96.8-145		%REC	50	5/6/2011 4:13:11 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level	B Analyte detected in the associated Method Blank
E Estimated value	H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits	MCL Maximum Contaminant Level
NC Non-Chlorinated	ND Not Detected at the Reporting Limit
PQL Practical Quantitation Limit	S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 09-May-11

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1105290
 Project: BZ Strippers
 Lab ID: 1105290-03

Client Sample ID: BZ 1-2 OUT
~~Collection Date: 5/5/2011 8:00:00 AM~~
 Date Received: 5/6/2011
 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	5/6/2011 4:43:15 PM
Benzene	520	50		µg/L	50	5/6/2011 4:43:15 PM
Toluene	1000	50		µg/L	50	5/6/2011 4:43:15 PM
Ethylbenzene	100	50		µg/L	50	5/6/2011 4:43:15 PM
Xylenes, Total	650	100		µg/L	50	5/6/2011 4:43:15 PM
Surr: 4-Bromofluorobenzene	112	96.8-145		%REC	50	5/6/2011 4:43:15 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 Strippers

Work Order: 1105290

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: 5ML RB MBLK Batch ID: R45195 Analysis Date: 5/6/2011 8:31:21 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 LCS Batch ID: R45195 Analysis Date: 5/6/2011 7:44:23 PM

Methyl tert-butyl ether (MTBE)	20.23	µg/L	2.5	20	0	101	97.6	132		
Benzene	21.53	µg/L	1.0	20	0	108	93.4	120		
Toluene	23.12	µg/L	1.0	20	0	116	96.2	122		
Ethylbenzene	20.83	µg/L	1.0	20	0	104	95	121		
Xylenes, Total	66.02	µg/L	2.0	60	0	110	97.6	122		

Sample ID: 100NG BTEX LCSD LCSD Batch ID: R45195 Analysis Date: 5/6/2011 8:14:31 PM

Methyl tert-butyl ether (MTBE)	19.86	µg/L	2.5	20	0	99.3	97.6	132	1.81	10.6
Benzene	21.27	µg/L	1.0	20	0	106	93.4	120	1.22	10.1
Toluene	22.29	µg/L	1.0	20	0	111	96.2	122	3.66	14.3
Ethylbenzene	20.49	µg/L	1.0	20	0	102	95	121	1.66	15.5
Xylenes, Total	64.84	µg/L	2.0	60	0	108	97.6	122	1.81	10.4

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name WESTERN REFINING GALLU

Date Received:

5/6/2011

Work Order Number 1105290

Received by: AMG

Checklist completed by:

[Signature]
Signature

5/6/11
Date

Sample ID labels checked by:

MG
Initials

Matrix:

Carrier name: FedEx

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present Not Shipped
- Custody seals intact on sample bottles? Yes No N/A
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Water - VOA vials have zero headspace? No VOA vials submitted Yes No
- Water - Preservation labels on bottle and cap match? Yes No N/A
- Water - pH acceptable upon receipt? Yes No N/A

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

Container/Temp Blank temperature?

5.0°

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: WESTERN REFINING

GALLUP REFINERY

Mailing Address: RT 3 BOX 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

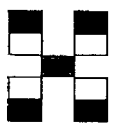
Project Manager:

THURMAN LARSON

Sampler: JDO

On Ice: Yes No

Sample Temperature: 50



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)	
5-3-11	8AM	H ₂ O	BZ1-2 OUT	40ML-3	HCL	11052910													X	
5-4-11	8AM	H ₂ O	BZ 1-2 OUT	40ML-3	HCL														X	
5-5-11	8AM	H ₂ O	BZ1-2 OUT	40ML-3	HCL														X	

Date: 5-5-11 Time: 1200 Relinquished by: *[Signature]*

Received by: *[Signature]* Date: 5/6/11 Time: 9:50

Remarks: ALSO CC: HOPE MONZEGO + KRISTIN 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.