

WRG

ENTERED



COVER LETTER

Tuesday, January 04, 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

Dear Thurman B. Larsen:

Order No.: 1012455

Hall Environmental Analysis Laboratory, Inc. received 4 sample(s) on 12/13/2010 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.

Reporting limits are determined by EPA methodology.

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", is written over a horizontal line.

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: 04-Jan-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1012455
Project: BZ Strippers
Lab ID: 1012455-01

Client Sample ID: BZ 1-2 OUT
Collection Date: 12/10/2010 8:00:00 AM
Date Received: 12/13/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: MMS
Benzene	76	10		µg/L	10	12/14/2010 4:34:43 AM
Toluene	450	10		µg/L	10	12/14/2010 4:34:43 AM
Ethylbenzene	130	10		µg/L	10	12/14/2010 4:34:43 AM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	12/14/2010 4:34:43 AM
Xylenes, Total	840	20		µg/L	10	12/14/2010 4:34:43 AM
Surr: 4-Bromofluorobenzene	63.1	76.4-106	S	%REC	10	12/14/2010 4:34:43 AM

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: 04-Jan-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1012455
Project: BZ Strippers
Lab ID: 1012455-02

Client Sample ID: BZ 1-2 OUT
Collection Date: 12/11/2010 8:00:00 AM
Date Received: 12/13/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: MMS
Benzene	39	10		µg/L	10	12/14/2010 5:31:04 AM
Toluene	210	10		µg/L	10	12/14/2010 5:31:04 AM
Ethylbenzene	50	10		µg/L	10	12/14/2010 5:31:04 AM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	12/14/2010 5:31:04 AM
Xylenes, Total	350	20		µg/L	10	12/14/2010 5:31:04 AM
Surr: 4-Bromofluorobenzene	94.9	76.4-106		%REC	10	12/14/2010 5:31:04 AM

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: 04-Jan-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1012455
Project: BZ Strippers
Lab ID: 1012455-03

Client Sample ID: BZ 1-2 OUT
Collection Date: 12/12/2010 8:00:00 AM
Date Received: 12/13/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: MMS
Benzene	170	10		µg/L	10	12/14/2010 5:59:07 AM
Toluene	760	10		µg/L	10	12/14/2010 5:59:07 AM
Ethylbenzene	150	10		µg/L	10	12/14/2010 5:59:07 AM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	12/14/2010 5:59:07 AM
Xylenes, Total	1000	20		µg/L	10	12/14/2010 5:59:07 AM
Surr: 4-Bromofluorobenzene	72.3	76.4-106	S	%REC	10	12/14/2010 5:59:07 AM

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: 04-Jan-11

CLIENT:	Western Refining Southwest, Gallup	Client Sample ID:	BZ 1-2 OUT
Lab Order:	1012455	Collection Date:	12/13/2010 9:00:00 AM
Project:	BZ Strippers	Date Received:	12/13/2010
Lab ID:	1012455-04	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: MMS
Benzene	55	10		µg/L	10	12/14/2010 6:27:12 AM
Toluene	330	10		µg/L	10	12/14/2010 6:27:12 AM
Ethylbenzene	98	10		µg/L	10	12/14/2010 6:27:12 AM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	12/14/2010 6:27:12 AM
Xylenes, Total	710	20		µg/L	10	12/14/2010 6:27:12 AM
Surr: 4-Bromofluorobenzene	86.6	76.4-106		%REC	10	12/14/2010 6:27:12 AM

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 |

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: BZ Strippers

Work Order: 1012455

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260: Volatiles Short List

Sample ID: 5ml rb MBLK Batch ID: R42641 Analysis Date: 12/13/2010 12:09:30 PM

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

Sample ID: 100ng lcs LCS Batch ID: R42641 Analysis Date: 12/13/2010 1:06:07 PM

Benzene	22.16	µg/L	1.0	20	0	111	84.6	109			S
Toluene	20.20	µg/L	1.0	20	0	101	81	114			

Sample ID: 100ng LCSD LCSD Batch ID: R42641 Analysis Date: 12/14/2010 4:06:43 AM

Benzene	21.36	µg/L	1.0	20	0	107	84.6	109	3.66	20	
Toluene	21.36	µg/L	1.0	20	0	107	81	114	5.57	20	

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:

12/13/2010

Work Order Number 1012455

Received by: LNM

Sample ID labels checked by:

AG
Initials

Checklist completed by:

[Signature]
Signature

12/13/10
Date

Matrix:

Carrier name: Client drop-off

- 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
- Container/Temp Blank temperature? 2.4° <6° C Acceptable
If given sufficient time to cool.

Number of preserved bottles checked for pH: _____
<2 >12 unless noted below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____



COVER LETTER

Tuesday, January 04, 2011

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

TEL: (505) 722-3833

FAX (505) 722-0210

RE: Benzene Strippers

Order No.: 1012967

Dear Thurman B. Larsen:

Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 12/30/2010 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.

Reporting limits are determined by EPA methodology.

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", is written over a horizontal line.

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: 04-Jan-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1012967
Project: Benzene Strippers
Lab ID: 1012967-01

Client Sample ID: BZ 1-2 OUT
Collection Date: 12/28/2010 8:00:00 AM
Date Received: 12/30/2010
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	1/3/2011 4:27:37 PM
Benzene	230	50		µg/L	50	1/3/2011 4:27:37 PM
Toluene	1300	50		µg/L	50	1/3/2011 4:27:37 PM
Ethylbenzene	390	50		µg/L	50	1/3/2011 4:27:37 PM
Xylenes, Total	2700	100		µg/L	50	1/3/2011 4:27:37 PM
Surr: 4-Bromofluorobenzene	118	81.3-151		%REC	50	1/3/2011 4:27:37 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: 04-Jan-11

CLIENT:	Western Refining Southwest, Gallup	Client Sample ID:	BZ 1-2 OUT
Lab Order:	1012967	Collection Date:	12/29/2010 8:00:00 AM
Project:	Benzene Strippers	Date Received:	12/30/2010
Lab ID:	1012967-02	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	1/4/2011 12:21:53 PM
Benzene	140	50		µg/L	50	1/4/2011 12:21:53 PM
Toluene	570	50		µg/L	50	1/4/2011 12:21:53 PM
Ethylbenzene	140	50		µg/L	50	1/4/2011 12:21:53 PM
Xylenes, Total	980	100		µg/L	50	1/4/2011 12:21:53 PM
Surr: 4-Bromofluorobenzene	116	81.3-151		%REC	50	1/4/2011 12:21:53 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 |

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Benzene Strippers

Work Order: 1012967

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

Sample ID: 5ML RB MBLK Batch ID: R42960 Analysis Date: 1/3/2011 9:26:20 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: R42960 Analysis Date: 1/3/2011 12:27:22 PM

Methyl tert-butyl ether (MTBE)	22.37	µg/L	2.5	20	0	112	75.5	124			
Benzene	22.13	µg/L	1.0	20	0	111	84.7	118			
Toluene	22.33	µg/L	1.0	20	0	112	82	123			
Ethylbenzene	21.90	µg/L	1.0	20	0	109	83	118			
Xylenes, Total	65.69	µg/L	2.0	60	0	109	85.4	119			

Sample ID: 100NG BTEX LCSD LCSD Batch ID: R42960 Analysis Date: 1/3/2011 12:57:23 PM

Methyl tert-butyl ether (MTBE)	23.10	µg/L	2.5	20	0	116	75.5	124	3.22	15.7	
Benzene	21.61	µg/L	1.0	20	0	108	84.7	118	2.35	17.7	
Toluene	21.88	µg/L	1.0	20	0	109	82	123	2.02	21.1	
Ethylbenzene	21.69	µg/L	1.0	20	0	108	83	118	0.945	19	
Xylenes, Total	65.39	µg/L	2.0	60	0	109	85.4	119	0.452	16.5	

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:

12/30/2010

Work Order Number 1012967

Received by:

LNM

LNM

Checklist completed by:

Kenneth Stovins

Signature

12/30/10

Date

Sample ID labels checked by:

Initials

Matrix:

Carrier name: FedEx

- | | | | | |
|---|---|---|---|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> | |
| Custody seals intact on shipping container/cooler? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> | Not Shipped <input type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> | |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Water - VOA vials have zero headspace? | No VOA vials submitted <input type="checkbox"/> | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Number of preserved bottles checked for pH:

_____ |
| Water - Preservation labels on bottle and cap match? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> | |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> | |
| Container/Temp Blank temperature? | 3.5° | <6° C Acceptable | | <2 >12 unless noted below. |

COMMENTS:

If given sufficient time to cool.

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 2

Project Name: BZ STRIPPERS

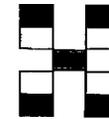
Project #: BZ API OUT

Project Manager: THURMAN LARSON

Sampler: API OPSS

On/ice Yes No

Sample Temperature: 3.5



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)	8021B BTEX-MTBE	Air Bubbles (Y or N)	
12-28-10	8AM	H ₂ O	BZ 1-2 OUT	40ML-3	HCL	1012904													X	
12-29-10	8AM	H ₂ O	BZ 1-2 OUT	40ML-3	HCL														X	

Date: 12-29-10 Time: 0900 Relinquished by: [Signature]

Received by: [Signature] Date: 12/30/10 Time: 1700

Remarks: ALSO CC: HOPE MONZEQ LIO AND KRISTEN VANHORN

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.



COVER LETTER

Tuesday, January 04, 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.: 1101022

Dear Thurman B. Larsen:

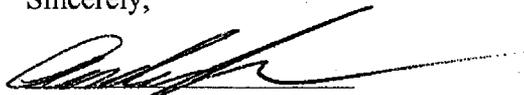
Hall Environmental Analysis Laboratory, Inc. received 5 sample(s) on 1/3/2011 for the analyses presented in the following report.

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.

Reporting limits are determined by EPA methodology.

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: 04-Jan-11

CLIENT: Western Refining Southwest, Gallup	Client Sample ID: BZ 1-2 OUT
Lab Order: 1101022	Collection Date: 12/30/2010 12:00:00 PM
Project: BZ Strippers	Date Received: 1/3/2011
Lab ID: 1101022-01	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	1/3/2011 5:57:53 PM
Benzene	150	50		µg/L	50	1/3/2011 5:57:53 PM
Toluene	650	50		µg/L	50	1/3/2011 5:57:53 PM
Ethylbenzene	150	50		µg/L	50	1/3/2011 5:57:53 PM
Xylenes, Total	1100	100		µg/L	50	1/3/2011 5:57:53 PM
Surr: 4-Bromofluorobenzene	109	81.3-151		%REC	50	1/3/2011 5:57:53 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: 04-Jan-11

CLIENT: Western Refining Southwest, Gallup	Client Sample ID: BZ 1-2 OUT
Lab Order: 1101022	Collection Date: 12/31/2010 8:00:00 AM
Project: BZ Strippers	Date Received: 1/3/2011
Lab ID: 1101022-02	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	1/3/2011 6:27:51 PM
Benzene	390	50		µg/L	50	1/3/2011 6:27:51 PM
Toluene	1300	50		µg/L	50	1/3/2011 6:27:51 PM
Ethylbenzene	370	50		µg/L	50	1/3/2011 6:27:51 PM
Xylenes, Total	2600	100		µg/L	50	1/3/2011 6:27:51 PM
Surr: 4-Bromofluorobenzene	107	81.3-151		%REC	50	1/3/2011 6:27:51 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: 04-Jan-11

CLIENT: Western Refining Southwest, Gallup	Client Sample ID: BZ 1-2 OUT
Lab Order: 1101022	Collection Date: 1/1/2011 4:00:00 PM
Project: BZ Strippers	Date Received: 1/3/2011
Lab ID: 1101022-03	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	1/3/2011 6:57:54 PM
Benzene	970	50		µg/L	50	1/3/2011 6:57:54 PM
Toluene	2000	50		µg/L	50	1/3/2011 6:57:54 PM
Ethylbenzene	280	50		µg/L	50	1/3/2011 6:57:54 PM
Xylenes, Total	2100	100		µg/L	50	1/3/2011 6:57:54 PM
Surr: 4-Bromofluorobenzene	107	81.3-151		%REC	50	1/3/2011 6:57:54 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
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- PQL Practical Quantitation Limit
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- 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: 04-Jan-11

CLIENT: Western Refining Southwest, Gallup	Client Sample ID: BZ 1-2 OUT
Lab Order: 1101022	Collection Date: 1/2/2011 9:00:00 AM
Project: BZ Strippers	Date Received: 1/3/2011
Lab ID: 1101022-04	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	1/3/2011 7:27:52 PM
Benzene	1500	50		µg/L	50	1/3/2011 7:27:52 PM
Toluene	1600	50		µg/L	50	1/3/2011 7:27:52 PM
Ethylbenzene	110	50		µg/L	50	1/3/2011 7:27:52 PM
Xylenes, Total	780	100		µg/L	50	1/3/2011 7:27:52 PM
Surr: 4-Bromofluorobenzene	113	81.3-151		%REC	50	1/3/2011 7:27:52 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: 04-Jan-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1101022
Project: BZ Strippers
Lab ID: 1101022-05

Client Sample ID: BZ 1-2 OUT
Collection Date: 1/3/2011 7:00:00 AM
Date Received: 1/3/2011
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	1/3/2011 7:57:49 PM
Benzene	280	50		µg/L	50	1/3/2011 7:57:49 PM
Toluene	590	50		µg/L	50	1/3/2011 7:57:49 PM
Ethylbenzene	62	50		µg/L	50	1/3/2011 7:57:49 PM
Xylenes, Total	440	100		µg/L	50	1/3/2011 7:57:49 PM
Surr: 4-Bromofluorobenzene	103	81.3-151		%REC	50	1/3/2011 7:57:49 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: 1101022

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML RB		<i>MBLK</i>				Batch ID: R42960	Analysis Date: 1/3/2011 9:26:20 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		<i>LCS</i>				Batch ID: R42960	Analysis Date: 1/3/2011 12:27:22 PM				
Methyl tert-butyl ether (MTBE)	22.37	µg/L	2.5	20	0	112	75.5	124			
Benzene	22.13	µg/L	1.0	20	0	111	84.7	118			
Toluene	22.33	µg/L	1.0	20	0	112	82	123			
Ethylbenzene	21.90	µg/L	1.0	20	0	109	83	118			
Xylenes, Total	65.69	µg/L	2.0	60	0	109	85.4	119			
Sample ID: 100NG BTEX LCSD		<i>LCSD</i>				Batch ID: R42960	Analysis Date: 1/3/2011 12:57:23 PM				
Methyl tert-butyl ether (MTBE)	23.10	µg/L	2.5	20	0	116	75.5	124	3.22	15.7	
Benzene	21.61	µg/L	1.0	20	0	108	84.7	118	2.35	17.7	
Toluene	21.88	µg/L	1.0	20	0	109	82	123	2.02	21.1	
Ethylbenzene	21.69	µg/L	1.0	20	0	108	83	118	0.945	19	
Xylenes, Total	65.39	µg/L	2.0	60	0	109	85.4	119	0.452	16.5	

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **WESTERN REFINING GALLU**

Date Received:

1/3/2011

Work Order Number **1101022**

Received by: **AT**

Checklist completed by:

[Handwritten Signature]
Signature

1/3/11
Date

Sample ID labels checked by:

AG/MG
Initials

Matrix:

Carrier name: Client drop-off

- 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? **2.6°** <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

Mailing Address: Gallup Refinery
RT3 Box 7
Gallup NM 87301

Phone #: 505 722 3833

email or Fax#: 505 722 0210

QA/QC Package:

Standard Level 4 (Full Validation)

Other _____

EDD (Type) _____

Turn-Around Time: No charge

Standard Rush

Project Name: BZ strippers

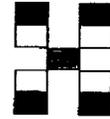
Project #: BZ API-OUT

Project Manager: Thurman Larsen

Sampler: APL operators

Office: ENG

Sample Temperature: 2/11



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	HEALTH	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)
12-30-10	8 AM	H ₂ O	BZ 1-2 OUT	40ml-3	HCL	1												X	
	12 PM																		
12-31-10	8 AM	H ₂ O	BZ 1-2 OUT	40ml-3	HCL	2												X	
1-1-11	4 PM	H ₂ O	BZ 1-2 OUT	40ml-3	HCL	3												X	
1-2-11	9 AM	H ₂ O	BZ 1-2 OUT	40ml-3	HCL	4												X	
1-3-11	7 AM	H ₂ O	BZ 1-2 OUT	40ml-3	HCL	5												X	

Date: 01-03-11 Time: 1310 Relinquished by: [Signature]

Date: 01/03/11 Time: 1310 Received by: [Signature]

Remarks: Also CC Hope Monzeah
Kristen VanHorn

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.



COVER LETTER

Friday, January 07, 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

Dear Thurman B. Larsen:

Order No.: 1101164

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 1/6/2011 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.

Reporting limits are determined by EPA methodology.

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: 07-Jan-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1101164
Project: BZ Strippers
Lab ID: 1101164-01

Client Sample ID: BZ 1-2 OUT
Collection Date: 1/4/2011 10:00:00 AM
Date Received: 1/6/2011
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	1/6/2011 5:18:12 PM
Benzene	200	50		µg/L	50	1/6/2011 5:18:12 PM
Toluene	600	50		µg/L	50	1/6/2011 5:18:12 PM
Ethylbenzene	96	50		µg/L	50	1/6/2011 5:18:12 PM
Xylenes, Total	740	100		µg/L	50	1/6/2011 5:18:12 PM
Surr: 4-Bromofluorobenzene	121	81.3-151		%REC	50	1/6/2011 5:18:12 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: 1101164

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML RB		<i>MBLK</i>									
						Batch ID: R43022	Analysis Date: 1/6/2011 10:01:13 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		<i>LCS</i>									
						Batch ID: R43022	Analysis Date: 1/6/2011 9:20:45 PM				
Methyl tert-butyl ether (MTBE)	24.44	µg/L	2.5	20	0	122	75.5	124			
Benzene	21.59	µg/L	1.0	20	0	108	84.7	118			
Toluene	22.29	µg/L	1.0	20	0	111	82	123			
Ethylbenzene	22.10	µg/L	1.0	20	0	110	83	118			
Xylenes, Total	66.91	µg/L	2.0	60	0	112	85.4	119			
Sample ID: 100NG BTEX LCSD		<i>LCSD</i>									
						Batch ID: R43022	Analysis Date: 1/6/2011 9:50:52 PM				
Methyl tert-butyl ether (MTBE)	23.51	µg/L	2.5	20	0	118	75.5	124	3.85	15.7	
Benzene	21.14	µg/L	1.0	20	0	106	84.7	118	2.11	17.7	
Toluene	21.34	µg/L	1.0	20	0	107	82	123	4.35	21.1	
Ethylbenzene	20.87	µg/L	1.0	20	0	104	83	118	5.70	19	
Xylenes, Total	63.85	µg/L	2.0	60	0	106	85.4	119	4.67	16.5	

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:

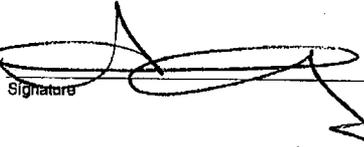
1/6/2011

Work Order Number 1101164

Received by:

MMG

Checklist completed by:


Signature

1/6/11
Date

Sample ID labels checked by:


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?

4.5°

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____



COVER LETTER

Monday, January 10, 2011

Ed Riege
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

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

RE: BZ Strippers

Order No.: 1101211

Dear Ed Riege:

Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 1/7/2011 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.

Reporting limits are determined by EPA methodology.

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

Sincerely,

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: 10-Jan-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1101211
Project: BZ Strippers
Lab ID: 1101211-01

Client Sample ID: BZ 1-2 OUT
Collection Date: 1/5/2011 10:00:00 AM
Date Received: 1/7/2011
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	1/7/2011 3:56:38 PM
Benzene	150	50		µg/L	50	1/7/2011 3:56:38 PM
Toluene	490	50		µg/L	50	1/7/2011 3:56:38 PM
Ethylbenzene	89	50		µg/L	50	1/7/2011 3:56:38 PM
Xylenes, Total	670	100		µg/L	50	1/7/2011 3:56:38 PM
Surr: 4-Bromofluorobenzene	121	81.3-151		%REC	50	1/7/2011 3:56:38 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: 10-Jan-11

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1101211
 Project: BZ Strippers
 Lab ID: 1101211-02

Client Sample ID: BZ 1-2 OUT
 Collection Date: 1/6/2011 9:00:00 AM
 Date Received: 1/7/2011
 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	1/7/2011 4:56:47 PM
Benzene	81	50		µg/L	50	1/7/2011 4:56:47 PM
Toluene	210	50		µg/L	50	1/7/2011 4:56:47 PM
Ethylbenzene	ND	50		µg/L	50	1/7/2011 4:56:47 PM
Xylenes, Total	100	100		µg/L	50	1/7/2011 4:56:47 PM
Surr: 4-Bromofluorobenzene	115	81.3-151		%REC	50	1/7/2011 4:56:47 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: 1101211

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	---------	---------	------	----------	-----------	------	----------	------

Method: EPA Method 8021B: Volatiles

Sample ID: 5ML RB MBLK Batch ID: R43048 Analysis Date: 1/7/2011 10:07:07 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: R43048 Analysis Date: 1/7/2011 2:56:51 PM

Methyl tert-butyl ether (MTBE)	21.48	µg/L	2.5	20	0	107	75.5	124			
Benzene	20.84	µg/L	1.0	20	0	104	84.7	118			
Toluene	20.94	µg/L	1.0	20	0	105	82	123			
Ethylbenzene	20.72	µg/L	1.0	20	0	104	83	118			
Xylenes, Total	63.68	µg/L	2.0	60	0	106	85.4	119			

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:

1/7/2011

Work Order Number 1101211

Received by: MMG

Checklist completed by:

Signature

Date

Sample ID labels checked by:

Initials

dam

1/7/11

Matrix:

Carrier name: FedEx

- | | | | | |
|---|---|---|--------------------------------------|---|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> | |
| Custody seals intact on shipping container/cooler? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> | Not Shipped <input type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Water - VOA vials have zero headspace? | No VOA vials submitted <input type="checkbox"/> | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Number of preserved bottles checked for pH: _____
<2 >12 unless noted below. |
| Water - Preservation labels on bottle and cap match? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| Container/Temp Blank temperature? | 3.2° | <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

Turn-Around Time: No Charge

Client: Western - Refining

Standard Rush

Mailing Address: Gallup Refining

Project Name: B2 Strippers

Gallup Nm 87301

Project #: B2 APL - OUT

Phone #: 505-722-3833

Project Manager: Thurman Larson

email or Fax#: 505 722-0210

QA/QC Package:
 Standard Level 4 (Full Validation)

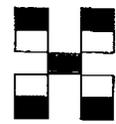
Sampler: RYDN, FIDUK

Accreditation
 NELAP Other _____

On Ice: Yes No

EDD (Type) _____

Sample Temperature: 32°



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)	8021B BTEX-MTBE	Air Bubbles (Y or N)	
1-5-11	10:00	H ₂ O	B2 1-2 OUT	40ML-3	HCL	101211													X	
1-6-11	9:00A	H ₂ O	B2 1-2 OUT	40 ml-3	HCL														X	

Date: 1-6-11 Time: 9:00A Relinquished by: Frank R
 Date: 1-6-11 Time: 12:00 Relinquished by: Alan

Received by: Alan Date: 1-6-11 Time: 0900
 Received by: Michelle Garcia Date: 1/7/11 Time: 9:10

Remarks: Also cc: Hope Monzeglio AND Kristen Vanhorn

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.



COVER LETTER

Wednesday, January 12, 2011

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

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

RE: Benzene Strippers

Order No.: 1101265

Dear Thurman B. Larsen:

Hall Environmental Analysis Laboratory, Inc. received 4 sample(s) on 1/10/2011 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.

Reporting limits are determined by EPA methodology.

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", is written over a horizontal line.

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: 12-Jan-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1101265
Project: Benzene Strippers
Lab ID: 1101265-01

Client Sample ID: BZ1-2OUT
Collection Date: 1/10/2011 8:00:00 AM
Date Received: 1/10/2011
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	1/11/2011 11:04:46 PM
Benzene	80	50		µg/L	50	1/11/2011 11:04:46 PM
Toluene	280	50		µg/L	50	1/11/2011 11:04:46 PM
Ethylbenzene	ND	50		µg/L	50	1/11/2011 11:04:46 PM
Xylenes, Total	390	100		µg/L	50	1/11/2011 11:04:46 PM
Surr: 4-Bromofluorobenzene	121	81.3-151		%REC	50	1/11/2011 11:04:46 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: 12-Jan-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1101265
Project: Benzene Strippers
Lab ID: 1101265-02

Client Sample ID: BZ1-2OUT
Collection Date: 1/9/2011 8:30:00 AM
Date Received: 1/10/2011
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	1/11/2011 11:34:54 PM
Benzene	140	50		µg/L	50	1/11/2011 11:34:54 PM
Toluene	440	50		µg/L	50	1/11/2011 11:34:54 PM
Ethylbenzene	77	50		µg/L	50	1/11/2011 11:34:54 PM
Xylenes, Total	630	100		µg/L	50	1/11/2011 11:34:54 PM
Surr: 4-Bromofluorobenzene	131	81.3-151		%REC	50	1/11/2011 11:34:54 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: 12-Jan-11

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1101265
 Project: Benzene Strippers
 Lab ID: 1101265-03

Client Sample ID: BZ1-2OUT
 Collection Date: 1/8/2011 9:00:00 AM
 Date Received: 1/10/2011
 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	1/12/2011 12:05:00 AM
Benzene	68	50		µg/L	50	1/12/2011 12:05:00 AM
Toluene	190	50		µg/L	50	1/12/2011 12:05:00 AM
Ethylbenzene	ND	50		µg/L	50	1/12/2011 12:05:00 AM
Xylenes, Total	300	100		µg/L	50	1/12/2011 12:05:00 AM
Surr: 4-Bromofluorobenzene	122	81.3-151		%REC	50	1/12/2011 12:05:00 AM

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: 12-Jan-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1101265
Project: Benzene Strippers
Lab ID: 1101265-04

Client Sample ID: BZ1-2OUT
Collection Date: 1/7/2011 9:00:00 AM
Date Received: 1/10/2011
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	1/12/2011 12:34:56 AM
Benzene	220	50		µg/L	50	1/12/2011 12:34:56 AM
Toluene	1100	50		µg/L	50	1/12/2011 12:34:56 AM
Ethylbenzene	340	50		µg/L	50	1/12/2011 12:34:56 AM
Xylenes, Total	2500	100		µg/L	50	1/12/2011 12:34:56 AM
Surr: 4-Bromofluorobenzene	132	81.3-151		%REC	50	1/12/2011 12:34:56 AM

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: Benzene Strippers

Work Order: 1101265

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML RB		<i>MBLK</i>									
						Batch ID: R43084	Analysis Date: 1/11/2011 9:12:13 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		<i>LCS</i>									
						Batch ID: R43084	Analysis Date: 1/11/2011 8:04:06 PM				
Methyl tert-butyl ether (MTBE)	23.58	µg/L	2.5	20	0	118	75.5	124			
Benzene	21.93	µg/L	1.0	20	0	110	84.7	118			
Toluene	22.25	µg/L	1.0	20	0	111	82	123			
Ethylbenzene	21.73	µg/L	1.0	20	0	109	83	118			
Xylenes, Total	66.46	µg/L	2.0	60	0	111	85.4	119			
Sample ID: 100NG BTEX LCSD		<i>LCSD</i>									
						Batch ID: R43084	Analysis Date: 1/11/2011 8:34:15 PM				
Methyl tert-butyl ether (MTBE)	23.09	µg/L	2.5	20	0	115	75.5	124	2.11	15.7	
Benzene	21.16	µg/L	1.0	20	0	106	84.7	118	3.55	17.7	
Toluene	21.17	µg/L	1.0	20	0	106	82	123	4.96	21.1	
Ethylbenzene	20.75	µg/L	1.0	20	0	104	83	118	4.59	19	
Xylenes, Total	62.98	µg/L	2.0	60	0	105	85.4	119	5.38	16.5	

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: 1/10/2011

Work Order Number 1101265

Received by: AMG

Sample ID labels checked by:

Checklist completed by: Michelle Garcia / 1/10/11
Signature Date

1/10/2011
Initials [Signature]

Matrix: Carrier name: Client drop-off

- 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
- Container/Temp Blank temperature? 1.3° <6° C Acceptable
If given sufficient time to cool.

Number of preserved bottles checked for pH: _____
<2 >12 unless noted below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

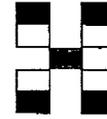
Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Western Refining
Gallup Refinery
 Mailing Address: R3 Box 7
Gallup NM 87301
 Phone #: 505 722 3833
 email or Fax#: 505 722 0210
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Other _____
 EDD (Type) _____

Turn-Around Time: NO CHARGE
 Standard Rush
 Project Name: BZ strippers
 Project #: BZ API out
 Project Manager: Thurman Larsen
 Sampler: API-OPER
 On Ice: YES NO
 Sample Temperature: 10.205



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-MTB	Air Bubbles (Y or N)
1-10-11	8:00A	H2O	BZ1-2OUT	40ml-3	HCL	- 1												X	
1-09-11	8:30A	H2O	BZ1-2OUT	40ml-3	HCL	- 2												X	
1-08-11	9:00A	H2O	BZ1-2OUT	40ml-3	HCL	- 3												X	
1-07-11	9:00A	H2O	BZ1-2OUT	40ml-3	HCL	- 4												X	

Date: 1-10-11 Time: 8:00A Relinquished by: Jeri Saucedo
 Received by: Janice Joo Date: 1-10-11 Time: 9:30A
 Date: 1-10-11 Time: 1:10 pm Relinquished by: [Signature]
 Received by: [Signature] Date: 1/10/11 Time: 1:09

Remarks: ALSO cc: Hope Monzeglio
And
Kristen Vanhorn

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.



COVER LETTER

Friday, January 14, 2011

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

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

RE: Benzene Strippers

Order No.: 1101376

Dear Thurman B. Larsen:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 1/13/2011 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.

Reporting limits are determined by EPA methodology.

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: 14-Jan-11

CLIENT:	Western Refining Southwest, Gallup	Client Sample ID:	BZ 1-2OUT
Lab Order:	1101376	Collection Date:	1/11/2011 8:00:00 AM
Project:	Benzene Strippers	Date Received:	1/13/2011
Lab ID:	1101376-01	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: MMS
Benzene	200	50		µg/L	50	1/14/2011 1:52:14 PM
Toluene	750	50		µg/L	50	1/14/2011 1:52:14 PM
Ethylbenzene	220	50		µg/L	50	1/14/2011 1:52:14 PM
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	50	1/14/2011 1:52:14 PM
Xylenes, Total	1500	100		µg/L	50	1/14/2011 1:52:14 PM
Surr: 1,2-Dichloroethane-d4	94.1	77.7-113		%REC	50	1/14/2011 1:52:14 PM
Surr: 4-Bromofluorobenzene	92.2	76.4-106		%REC	50	1/14/2011 1:52:14 PM
Surr: Dibromofluoromethane	66.6	91.6-125	S	%REC	50	1/14/2011 1:52:14 PM
Surr: Toluene-d8	104	92.3-107		%REC	50	1/14/2011 1:52:14 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 |

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Benzene Strippers

Work Order: 1101376

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260: Volatiles Short List

Sample ID: b1 *MBLK* **Batch ID:** R43160 **Analysis Date:** 1/14/2011 10:55:50 AM

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

Sample ID: 100ng lcs *LCS* **Batch ID:** R43160 **Analysis Date:** 1/14/2011 12:55:43 PM

Benzene	18.51	µg/L	1.0	20	0	92.5	84.6	109			
Toluene	20.96	µg/L	1.0	20	0	105	81	114			

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name WESTERN REFINING GALLU

Date Received:

1/13/2011

Work Order Number 1101376

Received by: LNM

Checklist completed by: Michele Caci 1/13/11
Signature Date

Sample ID labels checked by: MG/AG
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? 4.7° <6° C Acceptable
If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

COVER LETTER

Friday, January 21, 2011

Ed Riege
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

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

RE: BZ Strippers

Order No.: 1101433

Dear Ed Riege:

Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 1/14/2011 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.

Reporting limits are determined by EPA methodology.

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: 21-Jan-11

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1101433
 Project: BZ Strippers
 Lab ID: 1101433-01

Client Sample ID: BZ 1-2 OUT
 Collection Date: 1/13/2011 8:00:00 AM
 Date Received: 1/14/2011
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Methyl tert-butyl ether (MTBE)	ND	130		µg/L	50	1/15/2011 11:22:44 AM
Benzene	310	50		µg/L	50	1/15/2011 11:22:44 AM
Toluene	1100	50		µg/L	50	1/15/2011 11:22:44 AM
Ethylbenzene	260	50		µg/L	50	1/15/2011 11:22:44 AM
Xylenes, Total	1900	100		µg/L	50	1/15/2011 11:22:44 AM
Surr: 4-Bromofluorobenzene	126	81.3-151		%REC	50	1/15/2011 11:22:44 AM

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: 21-Jan-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1101433
Project: BZ Strippers
Lab ID: 1101433-02

Client Sample ID: BZ 1-2 OUT
Collection Date: 1/12/2011 9:00:00 AM
Date Received: 1/14/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	500		µg/L	200	1/17/2011 9:17:12 PM
Benzene	22000	200	E	µg/L	200	1/17/2011 9:17:12 PM
Toluene	38000	200	E	µg/L	200	1/17/2011 9:17:12 PM
Ethylbenzene	4800	200		µg/L	200	1/17/2011 9:17:12 PM
Xylenes, Total	27000	400		µg/L	200	1/17/2011 9:17:12 PM
Surr: 4-Bromofluorobenzene	137	81.3-151		%REC	200	1/17/2011 9:17:12 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: 1101433

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

Sample ID: 5ML RB *MBLK* Batch ID: R43161 Analysis Date: 1/14/2011 9:23:15 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: 5ML RB *MBLK* Batch ID: R43188 Analysis Date: 1/17/2011 9:24:03 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: b 22 *MBLK* Batch ID: R43188 Analysis Date: 1/17/2011 7:46:46 PM

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: R43161 Analysis Date: 1/15/2011 12:52:56 PM

Methyl tert-butyl ether (MTBE)	22.02	µg/L	2.5	20	0	110	75.5	124
Benzene	20.76	µg/L	1.0	20	0	104	84.7	118
Toluene	21.74	µg/L	1.0	20	0	109	82	123
Ethylbenzene	20.41	µg/L	1.0	20	0	102	83	118
Xylenes, Total	65.01	µg/L	2.0	60	0	108	85.4	119

Sample ID: 100NG BTEX LCS *LCS* Batch ID: R43188 Analysis Date: 1/17/2011 4:46:15 PM

Methyl tert-butyl ether (MTBE)	23.15	µg/L	2.5	20	0	116	75.5	124
Benzene	21.71	µg/L	1.0	20	0	109	84.7	118
Toluene	22.24	µg/L	1.0	20	0	111	82	123
Ethylbenzene	22.60	µg/L	1.0	20	0	113	83	118
Xylenes, Total	69.18	µg/L	2.0	60	0	115	85.4	119

Sample ID: 100NG BTEX LCS *LCS* Batch ID: R43188 Analysis Date: 1/18/2011 2:18:05 AM

Methyl tert-butyl ether (MTBE)	22.58	µg/L	2.5	20	0	113	75.5	124
Benzene	21.05	µg/L	1.0	20	0	105	84.7	118
Toluene	21.65	µg/L	1.0	20	0	108	82	123
Ethylbenzene	21.81	µg/L	1.0	20	0	109	83	118
Xylenes, Total	66.34	µg/L	2.0	60	0	111	85.4	119

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:

1/14/2011

Work Order Number **1101433**

Received by: **LNM**

Checklist completed by:

[Handwritten Signature]

Sample ID labels checked by:

[Handwritten Initials: AJ]

Signature

Date

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
- Container/Temp Blank temperature? **2.2°** <6° C Acceptable
If given sufficient time to cool.

Number of preserved bottles checked for pH: _____
<2 >12 unless noted below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____



COVER LETTER

Friday, January 21, 2011

Ed Riege
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

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

RE: BZ Strippers

Order No.: 1101468

Dear Ed Riege:

Hall Environmental Analysis Laboratory, Inc. received 4 sample(s) on 1/17/2011 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.

Reporting limits are determined by EPA methodology.

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", is written over a horizontal line.

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: 21-Jan-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1101468
Project: BZ Strippers
Lab ID: 1101468-01

Client Sample ID: BZ 1-2 OUT
Collection Date: 1/15/2011 10:30:00 PM
Date Received: 1/17/2011
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	1/17/2011 9:47:24 PM
Benzene	1100	50		µg/L	50	1/17/2011 9:47:24 PM
Toluene	1900	50		µg/L	50	1/17/2011 9:47:24 PM
Ethylbenzene	160	50		µg/L	50	1/17/2011 9:47:24 PM
Xylenes, Total	1200	100		µg/L	50	1/17/2011 9:47:24 PM
Surr: 4-Bromofluorobenzene	131	81.3-151		%REC	50	1/17/2011 9:47:24 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: 21-Jan-11

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1101468
 Project: BZ Strippers
 Lab ID: 1101468-02

Client Sample ID: BZ 1-2 OUT
 Collection Date: 1/16/2011 1:00:00 PM
 Date Received: 1/17/2011
 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	1/17/2011 10:17:31 PM
Benzene	330	50		µg/L	50	1/17/2011 10:17:31 PM
Toluene	700	50		µg/L	50	1/17/2011 10:17:31 PM
Ethylbenzene	74	50		µg/L	50	1/17/2011 10:17:31 PM
Xylenes, Total	580	100		µg/L	50	1/17/2011 10:17:31 PM
Surr: 4-Bromofluorobenzene	128	81.3-151		%REC	50	1/17/2011 10:17:31 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: 21-Jan-11

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1101468
 Project: BZ Strippers
 Lab ID: 1101468-03

Client Sample ID: BZ 1-2 OUT
 Collection Date: 1/17/2011 8:00:00 AM
 Date Received: 1/17/2011
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	500		µg/L	200	1/17/2011 10:47:37 PM
Benzene	600	200		µg/L	200	1/17/2011 10:47:37 PM
Toluene	1800	200		µg/L	200	1/17/2011 10:47:37 PM
Ethylbenzene	290	200		µg/L	200	1/17/2011 10:47:37 PM
Xylenes, Total	2400	400		µg/L	200	1/17/2011 10:47:37 PM
Surr: 4-Bromofluorobenzene	138	81.3-151		%REC	200	1/17/2011 10:47:37 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: 21-Jan-11

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1101468
 Project: BZ Strippers
 Lab ID: 1101468-04

Client Sample ID: BZ 1-2 OUT
 Collection Date: 1/14/2011 8:00:00 AM
 Date Received: 1/17/2011
 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	1/17/2011 11:17:42 PM
Benzene	78	50		µg/L	50	1/17/2011 11:17:42 PM
Toluene	530	50		µg/L	50	1/17/2011 11:17:42 PM
Ethylbenzene	110	50		µg/L	50	1/17/2011 11:17:42 PM
Xylenes, Total	860	100		µg/L	50	1/17/2011 11:17:42 PM
Surr: 4-Bromofluorobenzene	136	81.3-151		%REC	50	1/17/2011 11:17:42 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: 1101468

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	---------	---------	------	----------	-----------	------	----------	------

Method: EPA Method 8021B: Volatiles

Sample ID: 5ML RB *MBLK* Batch ID: R43188 Analysis Date: 1/17/2011 9:24:03 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: b 22 *MBLK* Batch ID: R43188 Analysis Date: 1/17/2011 7:46:46 PM

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: R43188 Analysis Date: 1/17/2011 4:46:15 PM

Methyl tert-butyl ether (MTBE)	23.15	µg/L	2.5	20	0	116	75.5	124			
Benzene	21.71	µg/L	1.0	20	0	109	84.7	118			
Toluene	22.24	µg/L	1.0	20	0	111	82	123			
Ethylbenzene	22.60	µg/L	1.0	20	0	113	83	118			
Xylenes, Total	69.18	µg/L	2.0	60	0	115	85.4	119			

Sample ID: 100NG BTEX LCS *LCS* Batch ID: R43188 Analysis Date: 1/18/2011 2:18:05 AM

Methyl tert-butyl ether (MTBE)	22.58	µg/L	2.5	20	0	113	75.5	124			
Benzene	21.05	µg/L	1.0	20	0	105	84.7	118			
Toluene	21.65	µg/L	1.0	20	0	108	82	123			
Ethylbenzene	21.81	µg/L	1.0	20	0	109	83	118			
Xylenes, Total	66.34	µg/L	2.0	60	0	111	85.4	119			

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: **1/17/2011**

Work Order Number **1101468**

Received by: **AT**

Checklist completed by: *[Signature]* 1/17/11

Sample ID labels checked by: *[Signature]*

Initials

Matrix:

Carrier name: Client drop-off

- 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? *1/17/11 AT* Yes No N/A *AT 1/17/11*
- 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
- Container/Temp Blank temperature? **4.4°** <6° C Acceptable
If given sufficient time to cool.

Number of preserved bottles checked for pH: _____
<2 >12 unless noted below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____



COVER LETTER

Friday, January 21, 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.: 1101544

Dear Thurman B. Larsen:

Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 1/19/2011 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.

Reporting limits are determined by EPA methodology.

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: 21-Jan-11

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1101544
 Project: BZ Strippers
 Lab ID: 1101544-01

Client Sample ID: BZ I-2 OUT
 Collection Date: 1/17/2011 2:30:00 PM
 Date Received: 1/19/2011
 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	1/19/2011 6:06:13 PM
Benzene	620	50		µg/L	50	1/19/2011 6:06:13 PM
Toluene	1700	50		µg/L	50	1/19/2011 6:06:13 PM
Ethylbenzene	270	50		µg/L	50	1/19/2011 6:06:13 PM
Xylenes, Total	2100	100		µg/L	50	1/19/2011 6:06:13 PM
Surr: 4-Bromofluorobenzene	122	81.3-151		%REC	50	1/19/2011 6:06:13 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: 21-Jan-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1101544
Project: BZ Strippers
Lab ID: 1101544-02

Client Sample ID: BZ 1-2 OUT
Collection Date: 1/18/2011 10:15:00 AM
Date Received: 1/19/2011
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	1/19/2011 6:36:19 PM
Benzene	460	50		µg/L	50	1/19/2011 6:36:19 PM
Toluene	1100	50		µg/L	50	1/19/2011 6:36:19 PM
Ethylbenzene	160	50		µg/L	50	1/19/2011 6:36:19 PM
Xylenes, Total	1300	100		µg/L	50	1/19/2011 6:36:19 PM
Surr: 4-Bromofluorobenzene	148	81.3-151		%REC	50	1/19/2011 6:36:19 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: 1101544

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	---------	---------	------	----------	-----------	------	----------	------

Method: EPA Method 8021B: Volatiles

Sample ID: 5ML RB *MBLK* Batch ID: R43218 Analysis Date: 1/19/2011 9:03:36 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: R43218 Analysis Date: 1/19/2011 8:06:21 PM

Methyl tert-butyl ether (MTBE)	22.36	µg/L	2.5	20	0	112	75.5	124			
Benzene	20.86	µg/L	1.0	20	0	104	84.7	118			
Toluene	21.15	µg/L	1.0	20	0	106	82	123			
Ethylbenzene	20.82	µg/L	1.0	20	0	104	83	118			
Xylenes, Total	64.31	µg/L	2.0	60	0	107	85.4	119			

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: 1/19/2011

Work Order Number 1101544

Received by: AMG

Checklist completed by: [Signature]

1/19/11 Date

Sample ID labels checked by: [Initials] 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?

3.6° <6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____



COVER LETTER

Friday, January 21, 2011

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

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

RE: Benzene Strippers

Order No.: 1101606

Dear Thurman B. Larsen:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 1/20/2011 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.

Reporting limits are determined by EPA methodology.

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", is written over a horizontal line.

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: 21-Jan-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1101606
Project: Benzene Strippers
Lab ID: 1101606-01

Client Sample ID: BZ 1-2 OUT
Collection Date: 1/19/2011 9:18:00 AM
Date Received: 1/20/2011
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	1/20/2011 5:32:42 PM
Benzene	ND	50		µg/L	50	1/20/2011 5:32:42 PM
Toluene	140	50		µg/L	50	1/20/2011 5:32:42 PM
Ethylbenzene	ND	50		µg/L	50	1/20/2011 5:32:42 PM
Xylenes, Total	110	100		µg/L	50	1/20/2011 5:32:42 PM
Surr: 4-Bromofluorobenzene	127	81.3-151		%REC	50	1/20/2011 5:32:42 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
- II 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: Benzene Strippers

Work Order: 1101606

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	---------	---------	------	----------	-----------	------	----------	------

Method: EPA Method 8021B: Volatiles

Sample ID: 5ML RB *MBLK* **Batch ID:** R43256 **Analysis Date:** 1/20/2011 9:02:55 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:** R43256 **Analysis Date:** 1/20/2011 1:32:10 PM

Methyl tert-butyl ether (MTBE)	23.11	µg/L	2.5	20	0	116	75.5	124			
Benzene	21.80	µg/L	1.0	20	0	109	84.7	118			
Toluene	22.47	µg/L	1.0	20	0	112	82	123			
Ethylbenzene	22.18	µg/L	1.0	20	0	111	83	118			
Xylenes, Total	68.20	µg/L	2.0	60	0	114	85.4	119			

Qualifiers:

- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- II 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**

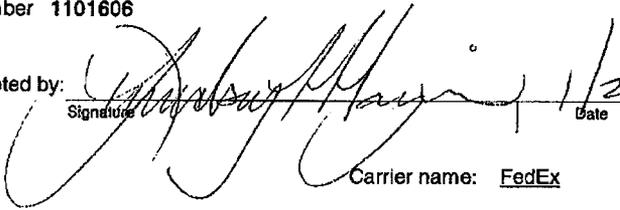
Date Received:

1/20/2011

Work Order Number **1101606**

Received by: **MMG**

Checklist completed by:


Signature _____ Date **1/20/11**

Sample ID labels checked by:


Initials

Matrix:

Carrier name: FedEx

- | | | | | |
|---|---|---|---|---|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> | |
| Custody seals intact on shipping container/cooler? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> | Not Shipped <input type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Water - VOA vials have zero headspace? | No VOA vials submitted <input type="checkbox"/> | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Number of preserved bottles checked for pH: _____ |
| Water - Preservation labels on bottle and cap match? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> | |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> | |
| Container/Temp Blank temperature? | 3.4° | <i><6° C Acceptable</i> | | <i><2 >12 unless noted below.</i> |

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Turn-Around Time: **NO Charge**

Standard Rush

Project Name: **BZ Strippers**

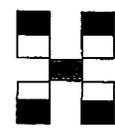
Project #: **BZ API OUT**

Project Manager: **Thurman Larsen**

Sampler: _____

On-site: YES NO

Sample Temperature: **34**



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

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)

Other _____

EDD (Type) _____

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALS	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)	
1-19-11	9:15 AM	H ₂ O	BZ 1-2 out	40 mL-3	HCL	Original													X	

Date: **1-19-11** Time: **9:54 AM** Relinquished by: **R: L**

Date: _____ Time: _____ Relinquished by: _____

Received by: **Michelle Garcia** Date: **1/20/11** Time: **9:15**

Received by: _____ Date: _____ Time: _____

Remarks: **also cc: Hope Monzeglio and Kristen Vanhorn**

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 noted on the analytical report.



COVER LETTER

Thursday, January 27, 2011

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

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

RE: Benzene Strippers

Order No.: 1101712

Dear Thurman B. Larsen:

Hall Environmental Analysis Laboratory, Inc. received 4 sample(s) on 1/24/2011 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.

Reporting limits are determined by EPA methodology.

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", is written over a horizontal line.

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: 27-Jan-11

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1101712
 Project: Benzene Strippers
 Lab ID: 1101712-01

Client Sample ID: BZ 1-2 Out
 Collection Date: 1/20/2011 9:45:00 AM
 Date Received: 1/24/2011
 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	1/25/2011 4:05:55 PM
Benzene	370	50		µg/L	50	1/25/2011 4:05:55 PM
Toluene	760	50		µg/L	50	1/25/2011 4:05:55 PM
Ethylbenzene	81	50		µg/L	50	1/25/2011 4:05:55 PM
Xylenes, Total	590	100		µg/L	50	1/25/2011 4:05:55 PM
Surr: 4-Bromofluorobenzene	111	81.3-151		%REC	50	1/25/2011 4:05:55 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: 27-Jan-11

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1101712
 Project: Benzene Strippers
 Lab ID: 1101712-02

Client Sample ID: BZ 1-2 Out
 Collection Date: 1/21/2011 8:00:00 PM
 Date Received: 1/24/2011
 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	1/25/2011 4:36:06 PM
Benzene	ND	50		µg/L	50	1/25/2011 4:36:06 PM
Toluene	93	50		µg/L	50	1/25/2011 4:36:06 PM
Ethylbenzene	ND	50		µg/L	50	1/25/2011 4:36:06 PM
Xylenes, Total	ND	100		µg/L	50	1/25/2011 4:36:06 PM
Surr: 4-Bromofluorobenzene	122	81.3-151		%REC	50	1/25/2011 4:36:06 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: 27-Jan-11

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1101712
 Project: Benzene Strippers
 Lab ID: 1101712-03

Client Sample ID: BZ 1-2 Out
 Collection Date: 1/22/2011 8:00:00 AM
 Date Received: 1/24/2011
 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	1/25/2011 5:06:14 PM
Benzene	58	50		µg/L	50	1/25/2011 5:06:14 PM
Toluene	120	50		µg/L	50	1/25/2011 5:06:14 PM
Ethylbenzene	ND	50		µg/L	50	1/25/2011 5:06:14 PM
Xylenes, Total	ND	100		µg/L	50	1/25/2011 5:06:14 PM
Surr: 4-Bromofluorobenzene	119	81.3-151		%REC	50	1/25/2011 5:06:14 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: 27-Jan-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1101712
Project: Benzene Strippers
Lab ID: 1101712-04

Client Sample ID: BZ 1-2 Out
Collection Date: 1/23/2011 8:30:00 AM
Date Received: 1/24/2011
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	1/25/2011 5:36:24 PM
Benzene	ND	50		µg/L	50	1/25/2011 5:36:24 PM
Toluene	78	50		µg/L	50	1/25/2011 5:36:24 PM
Ethylbenzene	ND	50		µg/L	50	1/25/2011 5:36:24 PM
Xylenes, Total	ND	100		µg/L	50	1/25/2011 5:36:24 PM
Surr: 4-Bromofluorobenzene	124	81.3-151		%REC	50	1/25/2011 5:36:24 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: Benzene Strippers

Work Order: 1101712

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

Sample ID: 5ML RB MBLK Batch ID: R43329 Analysis Date: 1/25/2011 9:37:47 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: R43329 Analysis Date: 1/25/2011 12:08:31 PM

Methyl tert-butyl ether (MTBE)	23.28	µg/L	2.5	20	0	116	75.5	124			
Benzene	21.88	µg/L	1.0	20	0	109	84.7	118			
Toluene	22.42	µg/L	1.0	20	0	112	82	123			
Ethylbenzene	22.05	µg/L	1.0	20	0	110	83	118			
Xylenes, Total	67.26	µg/L	2.0	60	0	112	85.4	119			

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name WESTERN REFINING GALLU

Date Received:

1/24/2011

Work Order Number 1101712

Received by: KMS

[Signature]

Checklist completed by: Michael Paris 1/24/11
Signature Date

Sample ID labels checked by: _____
Initials

Matrix: Carrier name: Client drop-off

- 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? 3.1° <6° C Acceptable
If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

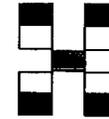
Comments: _____

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)
 Other _____
 EDD (Type) _____

Turn-Around Time: no charge
 Standard Rush
 Project Name: _____
BZ Strippers
 Project #: _____
BZ API out
 Project Manager: _____
Thurman Larsen
 Sampler: APLOREBLOS
 Office: 263
 Sample Temperature: 3



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		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)	
1-20-11	9:45	H2O	BZ 1-2 out	40ML-3	HCL	1													X	
1-21-11	8pm	H2O	BZ 1-2 out	40ML-3	HCL	2													X	
1-22-11	8 ⁰⁰ /A	H2O	BZ 1-2 out	40ML-3	HCL	3													X	
1-23-11	8 ³⁰ /A	H2O	BZ 1-2 out	40ML-3	HCL	4													X	

Date: 01-24-11 Time: 0900 Relinquished by: [Signature]
 Date: 1-24-11 Time: 1:15pm Relinquished by: [Signature]

Received by: [Signature] Date: 1/24/11 Time: 9:00 AM
 Received by: [Signature] Date: 1/24/11 Time: 13:15

Remarks: also CC: Hope Monzeglio and Kristen Vanhorn

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.



COVER LETTER

Thursday, February 03, 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.: 1101847

Dear Thurman B. Larsen:

Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 1/27/2011 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.

Reporting limits are determined by EPA methodology.

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", is written over a horizontal line.

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: 03-Feb-11

CLIENT: Western Refining Southwest, Gallup	Client Sample ID: BZ 1-2 OUT
Lab Order: 1101847	Collection Date: 1/24/2011 2:30:00 AM
Project: BZ Strippers	Date Received: 1/27/2011
Lab ID: 1101847-01	Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	50		µg/L	50	2/1/2011 8:13:49 AM
Toluene	ND	50		µg/L	50	2/1/2011 8:13:49 AM
Ethylbenzene	ND	50		µg/L	50	2/1/2011 8:13:49 AM
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	50	2/1/2011 8:13:49 AM
Xylenes, Total	ND	100		µg/L	50	2/1/2011 8:13:49 AM
Surr: 4-Bromofluorobenzene	108	76.4-108	S	%REC	50	2/1/2011 8:13:49 AM

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: 03-Feb-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1101847
Project: BZ Strippers
Lab ID: 1101847-02

Client Sample ID: BZ 1-2 OUT
Collection Date: 1/25/2011 1:00:00 PM
Date Received: 1/27/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	50		µg/L	50	2/1/2011 8:39:44 AM
Toluene	54	50		µg/L	50	2/1/2011 8:39:44 AM
Ethylbenzene	ND	50		µg/L	50	2/1/2011 8:39:44 AM
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	50	2/1/2011 8:39:44 AM
Xylenes, Total	ND	100		µg/L	50	2/1/2011 8:39:44 AM
Surr: 1,2-Dichloroethane-d4	108	77.7-113		%REC	50	2/1/2011 8:39:44 AM
Surr: 4-Bromofluorobenzene	103	78.4-106		%REC	50	2/1/2011 8:39:44 AM
Surr: Dibromofluoromethane	120	91.6-125		%REC	50	2/1/2011 8:39:44 AM
Surr: Toluene-d8	109	92.3-107	S	%REC	50	2/1/2011 8:39:44 AM

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: 1101847

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260: Volatiles Short List

Sample ID: 5ml-rb *MBLK* Batch ID: R43459 Analysis Date: 1/31/2011 11:07:44 AM

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

Sample ID: b4 *MBLK* Batch ID: R43459 Analysis Date: 1/31/2011 10:13:13 PM

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

Sample ID: 100ng ics *LCS* Batch ID: R43459 Analysis Date: 1/31/2011 12:00:15 PM

Benzene	21.48	µg/L	1.0	20	0	107	84.6	109
Toluene	20.92	µg/L	1.0	20	0	105	81	114

Sample ID: 100ng ics2 *LCS* Batch ID: R43459 Analysis Date: 1/31/2011 11:05:32 PM

Benzene	20.15	µg/L	1.0	20	0	101	84.6	109
Toluene	19.65	µg/L	1.0	20	0	98.2	81	114

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: **1/27/2011**

Work Order Number **1101847**

Received by: **AMG**

Checklist completed by: _____

[Signature]
Signature

1/27/11
Date

Sample ID labels checked by: _____

[Initials]
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? **3.3°** <6° C Acceptable
If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____



COVER LETTER

Thursday, February 03, 2011

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

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

RE: Benzene Strippers

Dear Thurman B. Larsen:

Order No.: 1101870

Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 1/28/2011 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.

Reporting limits are determined by EPA methodology.

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: 03-Feb-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1101870
Project: Benzene Strippers
Lab ID: 1101870-01

Client Sample ID: BZ 1-2 OUT
Collection Date: 1/26/2011 8:00:00 AM
Date Received: 1/28/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: RAA
Benzene	590	50		µg/L	50	2/1/2011 9:05:38 AM
Toluene	1000	50		µg/L	50	2/1/2011 9:05:38 AM
Ethylbenzene	120	50		µg/L	50	2/1/2011 9:05:38 AM
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	50	2/1/2011 9:05:38 AM
Xylenes, Total	690	100		µg/L	50	2/1/2011 9:05:38 AM
Surr: 1,2-Dichloroethane-d4	107	77.7-113		%REC	50	2/1/2011 9:05:38 AM
Surr: 4-Bromofluorobenzene	96.4	76.4-106		%REC	50	2/1/2011 9:05:38 AM
Surr: Dibromofluoromethane	120	91.6-125		%REC	50	2/1/2011 9:05:38 AM
Surr: Toluene-d8	108	92.3-107	S	%REC	50	2/1/2011 9:05:38 AM

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: 03-Feb-11

CLIENT: Western Refining Southwest, Gallup	Client Sample ID: BZ 1-2 OUT
Lab Order: 1101870	Collection Date: 1/27/2011 8:00:00 AM
Project: Benzene Strippers	Date Received: 1/28/2011
Lab ID: 1101870-02	Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: RAA
Benzene	570	50		µg/L	50	2/1/2011 9:31:32 AM
Toluene	940	50		µg/L	50	2/1/2011 9:31:32 AM
Ethylbenzene	110	50		µg/L	50	2/1/2011 9:31:32 AM
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	50	2/1/2011 9:31:32 AM
Xylenes, Total	680	100		µg/L	50	2/1/2011 9:31:32 AM
Surr: 1,2-Dichloroethane-d4	111	77.7-113		%REC	50	2/1/2011 9:31:32 AM
Surr: 4-Bromofluorobenzene	96.7	76.4-106		%REC	50	2/1/2011 9:31:32 AM
Surr: Dibromofluoromethane	124	91.6-125		%REC	50	2/1/2011 9:31:32 AM
Surr: Toluene-d8	106	92.3-107		%REC	50	2/1/2011 9:31:32 AM

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: Benzene Strippers

Work Order: 1101870

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	---------	---------	------	----------	-----------	------	----------	------

Method: EPA Method 8260: Volatiles Short List

Sample ID: 6ml-rb *MBLK* Batch ID: R43459 Analysis Date: 1/31/2011 11:07:44 AM

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

Sample ID: b4 *MBLK* Batch ID: R43459 Analysis Date: 1/31/2011 10:13:13 PM

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

Sample ID: 100ng lcs *LCS* Batch ID: R43459 Analysis Date: 1/31/2011 12:00:15 PM

Benzene	21.48	µg/L	1.0	20	0	107	84.6	109
Toluene	20.92	µg/L	1.0	20	0	105	81	114

Sample ID: 100ng lcs2 *LCS* Batch ID: R43459 Analysis Date: 1/31/2011 11:05:32 PM

Benzene	20.15	µg/L	1.0	20	0	101	84.6	109
Toluene	19.65	µg/L	1.0	20	0	98.2	81	114

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:

1/28/2011

Work Order Number 1101870

Received by:

MMG

Checklist completed by:

Signature: Michael C. ... Date: 1/28/11

Sample ID labels checked by:

Initials: MMG

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? 1.6° <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)

Other _____

EDD (Type) _____

Turn-Around Time: No Charge

Standard Rush

Project Name: B2 Strippers

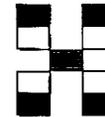
Project #: B2 API-OUT

Project Manager: Thurman Larsen

Sampler: _____

On-site: YES NO

Sample Temperature: _____



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	PH	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)	8021B BTEX-MTBE	Air Bubbles (Y or N)
1-24-11	7:30 AM	H₂O	B2 1-2 OUT	40 ML-3	HCL	-												X	
1-24-11	8:00 AM	H₂O	B2 1-2 OUT	40 ML-3	HCL	-												X	
1-26-11	8 AM	H ₂ O	B2-1-2 OUT	40 ML-3	HCL	- 1												X	
1-27-11	8 AM	H ₂ O	B2 1-2 OUT	40 ML-3	HCL	- 2												X	

Date: 1-27-11 Time: 9:30 AM Relinquished by: SOE ORR
 Date: 1-27-11 Time: 8:30 Received by: Alan [Signature]

Date: 1-27-11 Time: 12:00 Relinquished by: Alan [Signature]
 Date: 1/28/11 Time: 9:00 Received by: Michelle [Signature]

Remarks: Also: Hope Monzeglio AND Kristen Vanhorn

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.



COVER LETTER

Thursday, February 03, 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

Dear Thurman B. Larsen:

Order No.: 1101935

Hall Environmental Analysis Laboratory, Inc. received 3 sample(s) on 1/31/2011 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.

Reporting limits are determined by EPA methodology.

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", is written over a horizontal line.

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: 03-Feb-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1101935
Project: BZ Strippers
Lab ID: 1101935-01

Client Sample ID: BZ 1-2 OUT
Collection Date: 1/29/2011 8:00:00 AM
Date Received: 1/31/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: RAA
Benzene	53	50		µg/L	50	2/1/2011 12:14:42 AM
Toluene	110	50		µg/L	50	2/1/2011 12:14:42 AM
Ethylbenzene	ND	50		µg/L	50	2/1/2011 12:14:42 AM
Xylenes, Total	110	100		µg/L	50	2/1/2011 12:14:42 AM
Surr: 1,2-Dichloroethane-d4	99.6	77.7-113		%REC	50	2/1/2011 12:14:42 AM
Surr: 4-Bromofluorobenzene	100	76.4-106		%REC	50	2/1/2011 12:14:42 AM
Surr: Dibromofluoromethane	98.6	91.6-125		%REC	50	2/1/2011 12:14:42 AM
Surr: Toluene-d8	97.4	92.3-107		%REC	50	2/1/2011 12:14:42 AM

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: 03-Feb-11

CLIENT: Western Refining Southwest, Gallup	Client Sample ID: BZ 1-2 OUT
Lab Order: 1101935	Collection Date: 1/30/2011 8:00:00 AM
Project: BZ Strippers	Date Received: 1/31/2011
Lab ID: 1101935-02	Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: RAA
Benzene	62	50		µg/L	50	2/1/2011 12:42:07 AM
Toluene	110	50		µg/L	50	2/1/2011 12:42:07 AM
Ethylbenzene	ND	50		µg/L	50	2/1/2011 12:42:07 AM
Xylenes, Total	ND	100		µg/L	50	2/1/2011 12:42:07 AM
Surr: 1,2-Dichloroethane-d4	97.7	77.7-113		%REC	50	2/1/2011 12:42:07 AM
Surr: 4-Bromofluorobenzene	100	76.4-106		%REC	50	2/1/2011 12:42:07 AM
Surr: Dibromofluoromethane	98.5	91.6-125		%REC	50	2/1/2011 12:42:07 AM
Surr: Toluene-d8	100	92.3-107		%REC	50	2/1/2011 12:42:07 AM

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: 03-Feb-11

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1101935
 Project: BZ Strippers
 Lab ID: 1101935-03

Client Sample ID: BZ 1-2 OUT
 Collection Date: 1/31/2011 8:00:00 AM
 Date Received: 1/31/2011
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: RAA
Benzene	ND	50		µg/L	50	2/1/2011 1:09:32 AM
Toluene	ND	50		µg/L	50	2/1/2011 1:09:32 AM
Ethylbenzene	ND	50		µg/L	50	2/1/2011 1:09:32 AM
Xylenes, Total	ND	100		µg/L	50	2/1/2011 1:09:32 AM
Surr: 1,2-Dichloroethane-d4	96.6	77.7-113		%REC	50	2/1/2011 1:09:32 AM
Surr: 4-Bromofluorobenzene	100	76.4-106		%REC	50	2/1/2011 1:09:32 AM
Surr: Dibromofluoromethane	98.9	91.6-125		%REC	50	2/1/2011 1:09:32 AM
Surr: Toluene-d8	98.6	92.3-107		%REC	50	2/1/2011 1:09:32 AM

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: 1101935

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	---------	---------	------	----------	-----------	------	----------	------

Method: EPA Method 8260: Volatiles Short List

Sample ID: b8 *MBLK* Batch ID: R43440 Analysis Date: 1/31/2011 9:30:07 PM

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 lcs3 *LCS* Batch ID: R43440 Analysis Date: 1/31/2011 12:48:41 PM

Benzene	18.18	µg/L	1.0	20	0	90.9	84.6	109			
Toluene	19.00	µg/L	1.0	20	0	95.0	81	114			

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **WESTERN REFINING GALLU**

Date Received: **1/31/2011**

Work Order Number **1101935**

Received by: **AMG**

Checklist completed by: _____

Signature

Date

Sample ID labels checked by: _____

Initials

Matrix:

Carrier name: Client drop-off

- | | | | | |
|---|---|---|---|---|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> | |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> | Not Shipped <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Water - VOA vials have zero headspace? | No VOA vials submitted <input type="checkbox"/> | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Number of preserved bottles checked for pH: _____
<2 >12 unless noted below. |
| Water - Preservation labels on bottle and cap match? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> | |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> | |
| Container/Temp Blank temperature? | 3.4° | <6° C Acceptable | | |

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

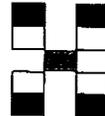
Chain-of-Custody Record

Turn-Around Time: **NO CHARGE**

Standard Rush

Project Name: **BZ STRIPPERS**

Project #: **BZ API-OUT**



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

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)

Other _____

EDD (Type) _____

Project Manager: **THURMAN LARSON**

Sampler: **APLOPP, CHRIS**

Office: **ALBU**

Sample Temperature: _____

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL #	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)	8021B BTEX-MTBE	Air Bubbles (Y or N)
1-29-11	8AM	H ₂ O	BZ 1-2 OUT	40ML-3	HCL	10085												X	
1-30-11	8AM	H ₂ O	BZ 1-2 OUT	40ML-3	HCL													X	
1-31-11	8AM	H ₂ O	BZ 1-2 OUT	40ML-3	HCL													X	
1-28-11	N/A	N/A	Flow Diverted To Tank 35 Due To Forming Issue No Flow To Strippers	N/A	N/A														

Date: 1-21-11 Time: 8AM Relinquished by: **CHRIS MULLEN**

Date: 1-31-11 Time: 8AM Received by: **Alison R**

Date: 1-31-11 Time: 12:15 Relinquished by: **Alison R**

Date: 1-31-11 Time: 12:15 Received by: **[Signature]**

Remarks: **ALSO CC: HOPE MONZEOGLIO AND KRISTEN VANHORN**

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.



COVER LETTER

Monday, February 07, 2011

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

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

RE: Benzene Strippers

Order No.: 1102104

Dear Thurman B. Larsen:

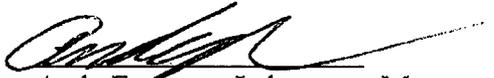
Hall Environmental Analysis Laboratory, Inc. received 3 sample(s) on 2/4/2011 for the analyses presented in the following report.

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.

Reporting limits are determined by EPA methodology.

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: 07-Feb-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1102104
Project: Benzene Strippers
Lab ID: 1102104-01

Client Sample ID: BZ 1-2 OUT
Collection Date: 2/1/2011 8:00:00 AM
Date Received: 2/4/2011
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	2/5/2011 3:33:15 AM
Benzene	ND	50		µg/L	50	2/5/2011 3:33:15 AM
Toluene	ND	50		µg/L	50	2/5/2011 3:33:15 AM
Ethylbenzene	ND	50		µg/L	50	2/5/2011 3:33:15 AM
Xylenes, Total	ND	100		µg/L	50	2/5/2011 3:33:15 AM
Surr: 4-Bromofluorobenzene	113	81.3-151		%REC	50	2/5/2011 3:33:15 AM

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: 07-Feb-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1102104
Project: Benzene Strippers
Lab ID: 1102104-02

Client Sample ID: BZ 1-2 OUT
Collection Date: 2/2/2011 8:00:00 AM
Date Received: 2/4/2011
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	2/5/2011 4:03:25 AM
Benzene	ND	50		µg/L	50	2/5/2011 4:03:25 AM
Toluene	ND	50		µg/L	50	2/5/2011 4:03:25 AM
Ethylbenzene	ND	50		µg/L	50	2/5/2011 4:03:25 AM
Xylenes, Total	ND	100		µg/L	50	2/5/2011 4:03:25 AM
Surr: 4-Bromofluorobenzene	106	81.3-151		%REC	50	2/5/2011 4:03:25 AM

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: 07-Feb-11

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1102104
 Project: Benzene Strippers
 Lab ID: 1102104-03

Client Sample ID: BZ 1-2 OUT
 Collection Date: 2/3/2011 8:00:00 AM
 Date Received: 2/4/2011
 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	2/5/2011 4:33:28 AM
Benzene	ND	50		µg/L	50	2/5/2011 4:33:28 AM
Toluene	53	50		µg/L	50	2/5/2011 4:33:28 AM
Ethylbenzene	ND	50		µg/L	50	2/5/2011 4:33:28 AM
Xylenes, Total	ND	100		µg/L	50	2/5/2011 4:33:28 AM
Surr: 4-Bromofluorobenzene	115	81.3-151		%REC	50	2/5/2011 4:33:28 AM

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: Benzene Strippers

Work Order: 1102104

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	---------	---------	------	----------	-----------	------	----------	------

Method: EPA Method 8021B: Volatiles

Sample ID: B *MBLK*

Batch ID: R43522 **Analysis Date:** 2/4/2011 12:45:57 PM

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: R43522 **Analysis Date:** 2/4/2011 12:15:56 PM

Methyl tert-butyl ether (MTBE)	23.40	µg/L	2.5	20	0	117	75.5	124			
Benzene	22.52	µg/L	1.0	20	0	113	84.7	118			
Toluene	23.17	µg/L	1.0	20	0	116	82	123			
Ethylbenzene	23.01	µg/L	1.0	20	0	115	83	118			
Xylenes, Total	69.35	µg/L	2.0	60	0	116	85.4	119			

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:

2/4/2011

Work Order Number 1102104

Received by: LNM

Checklist completed by:

Signature: [Handwritten Signature] Date: 2/4/11

Sample ID labels checked by:

Initials: [Handwritten 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? 3.1° <6° C Acceptable If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

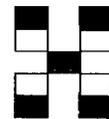
Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: WESTERN - Refining
Gollop Refinery
 Mailing Address: RT 3 Box 7
Gollop 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 Laisen
 Sampler: API OPERATORS
 Sample Temperature: _____



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	Notes
02-01-11	0800	H2O	BZ 1-2 OUT	40ml-3	HCL	-1
02-02-11	0800	H2O	BZ 1-2 OUT	40ml-3	HCL	-2
02-03-11	0800	H2O	BZ 1-2 OUT	40ml-3	HCL	-3
		H2O	BZ 1-2 OUT	40ml-3	HCL	

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)
											X	
											X	
											X	

Date: 02-03-11 Time: 1200 Relinquished by: [Signature]
 Received by: [Signature] Date: 2/4/11 Time: 1000
 Date: _____ Time: _____ Relinquished by: _____
 Received by: _____ Date: _____ Time: _____

Remarks: Also CC HOPE MONZCILLIO
KRISTEN VAN HON

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.



COVER LETTER

Wednesday, February 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: Benzene Strippers

Dear Thurman B. Larsen:

Order No.: 1102140

Hall Environmental Analysis Laboratory, Inc. received 4 sample(s) on 2/7/2011 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.

Reporting limits are determined by EPA methodology.

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: 09-Feb-11

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1102140
 Project: Benzene Strippers
 Lab ID: 1102140-01

Client Sample ID: BZ 1-2 Out
 Collection Date: 2/6/2011 8:00:00 AM
 Date Received: 2/7/2011
 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	2/7/2011 3:19:51 PM
Benzene	50	50		µg/L	50	2/7/2011 3:19:51 PM
Toluene	82	50		µg/L	50	2/7/2011 3:19:51 PM
Ethylbenzene	ND	50		µg/L	50	2/7/2011 3:19:51 PM
Xylenes, Total	ND	100		µg/L	50	2/7/2011 3:19:51 PM
Surr: 4-Bromofluorobenzene	92.2	81.3-151		%REC	50	2/7/2011 3:19:51 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: 09-Feb-11

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1102140
 Project: Benzene Strippers
 Lab ID: 1102140-02

Client Sample ID: BZ 1-2 Out
 Collection Date: 2/5/2011 9:00:00 AM
 Date Received: 2/7/2011
 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	2/7/2011 4:17:44 PM
Benzene	ND	50		µg/L	50	2/7/2011 4:17:44 PM
Toluene	ND	50		µg/L	50	2/7/2011 4:17:44 PM
Ethylbenzene	ND	50		µg/L	50	2/7/2011 4:17:44 PM
Xylenes, Total	ND	100		µg/L	50	2/7/2011 4:17:44 PM
Surr: 4-Bromofluorobenzene	101	81.3-151		%REC	50	2/7/2011 4:17:44 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: 09-Feb-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1102140
Project: Benzene Strippers
Lab ID: 1102140-03

Client Sample ID: BZ 1-2 Out
Collection Date: 2/4/2011 9:00:00 AM
Date Received: 2/7/2011
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	2/7/2011 4:46:39 PM
Benzene	220	50		µg/L	50	2/7/2011 4:46:39 PM
Toluene	600	50		µg/L	50	2/7/2011 4:46:39 PM
Ethylbenzene	76	50		µg/L	50	2/7/2011 4:46:39 PM
Xylenes, Total	460	100		µg/L	50	2/7/2011 4:46:39 PM
Surr: 4-Bromofluorobenzene	103	81.3-151		%REC	50	2/7/2011 4:46:39 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

Hall Environmental Analysis Laboratory, Inc.

Date: 09-Feb-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1102140
Project: Benzene Strippers
Lab ID: 1102140-04

Client Sample ID: BZ 1-2 Out
Collection Date: 2/7/2011 8:00:00 AM
Date Received: 2/7/2011
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	2/7/2011 5:15:29 PM
Benzene	63	50		µg/L	50	2/7/2011 5:15:29 PM
Toluene	150	50		µg/L	50	2/7/2011 5:15:29 PM
Ethylbenzene	ND	50		µg/L	50	2/7/2011 5:15:29 PM
Xylenes, Total	150	100		µg/L	50	2/7/2011 5:15:29 PM
Surr: 4-Bromofluorobenzene	103	81.3-151		%REC	50	2/7/2011 5:15:29 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: Benzene Strippers

Work Order: 1102140

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	---------	---------	------	----------	-----------	------	----------	------

Method: EPA Method 8021B: Volatiles

Sample ID: 5ML RB *MBLK* Batch ID: R43539 Analysis Date: 2/7/2011 8:24:22 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: R43539 Analysis Date: 2/7/2011 12:44:36 PM

Methyl tert-butyl ether (MTBE)	21.82	µg/L	2.5	20	0.4422	107	75.5	124			
Benzene	20.46	µg/L	1.0	20	0.1922	101	84.7	118			
Toluene	20.85	µg/L	1.0	20	0	104	82	123			
Ethylbenzene	20.84	µg/L	1.0	20	0	104	83	118			
Xylenes, Total	63.20	µg/L	2.0	60	0	105	85.4	119			

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:

2/7/2011

Work Order Number 1102140

Received by: AMG

Checklist completed by:

Signature

[Handwritten Signature]

Date

Sample ID labels checked by:

[Handwritten Initials]
Initials

2/7/11

Matrix:

Carrier name: Client drop-off

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	Number of preserved bottles checked for pH:
Water - Preservation labels on bottle and cap match?	Yes	No	N/A ✓	
Water - pH acceptable upon receipt?	Yes	No	N/A ✓	<2 >12 unless noted below.
Container/Temp Blank temperature?	3.0°	<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

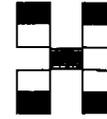
Turn-Around Time: No charge
 Standard Rush 24 hr.

Project Name: BZ strippers

Project #: BZ API-OUT

Project Manager: Thurman Larsen

Sampler: On-site 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

Client: Western Refining

Mailing Address: Gallup Refinery
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)
 Other _____
 EDD (Type) _____

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type		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 BTEX-MTBE	Air Bubbles (Y or N)
2-1-11	0800	H₂O	BZ 1-2 OUT	40ml-3	HCL	1													
2-1-11	0800	H₂O	BZ 1-2 OUT	40ml-3	HCL	1													
2-1-11	0800	H ₂ O	BZ 1-2 OUT	40ml-3	HCL	1												X	
2-5-11	0900	H ₂ O	BZ 1-2 OUT	40ml-3	HCL	2												X	
2-4-11	0900	H ₂ O	BZ 1-2 OUT	40ml-3	HCL	3												X	
2-7-11	8:00	H ₂ O	B-2 1-2 OUT	40ml-3	HCL	4												X	

Date: 2-7-11 Time: 9:10 Relinquished by: [Signature]

Date: 2-07-11 Time: 10:11 Relinquished by: [Signature]

Date: 2-7-11 Time: 12:54 Relinquished by: [Signature]

Received by: [Signature] Date: 2/7/11 Time: 12:58

Remarks: Also ccg Hope Monzeglio AND Kristen Vanhorn

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.



COVER LETTER

Monday, February 14, 2011

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

TEL: (505) 722-3833

FAX (505) 722-0210

RE: Benzene Strippers

Dear Thurman B. Larsen:

Order No.: 1102255

Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 2/10/2011 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.

Reporting limits are determined by EPA methodology.

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: 14-Feb-11

CLIENT: Western Refining Southwest, Gallup
Project: Benzene Strippers

Lab Order: 1102255

Lab ID: 1102255-01

Collection Date: 2/7/2011 8:00:00 AM

Client Sample ID: BZ 1-2 OUT

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	2/10/2011 11:45:41 PM
Benzene	66	50		µg/L	50	2/10/2011 11:45:41 PM
Toluene	190	50		µg/L	50	2/10/2011 11:45:41 PM
Ethylbenzene	ND	50		µg/L	50	2/10/2011 11:45:41 PM
Xylenes, Total	180	100		µg/L	50	2/10/2011 11:45:41 PM
Surr: 4-Bromofluorobenzene	128	81.3-151		%REC	50	2/10/2011 11:45:41 PM

Lab ID: 1102255-02

Collection Date: 2/8/2011 8:00:00 AM

Client Sample ID: BZ 1-2 OUT

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	2/11/2011 12:15:44 AM
Benzene	86	50		µg/L	50	2/11/2011 12:15:44 AM
Toluene	410	50		µg/L	50	2/11/2011 12:15:44 AM
Ethylbenzene	120	50		µg/L	50	2/11/2011 12:15:44 AM
Xylenes, Total	900	100		µg/L	50	2/11/2011 12:15:44 AM
Surr: 4-Bromofluorobenzene	129	81.3-151		%REC	50	2/11/2011 12:15:44 AM

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: Benzene Strippers

Work Order: 1102255

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

Sample ID: 5ML RB MBLK Batch ID: R43604 Analysis Date: 2/10/2011 9:08:42 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: R43604 Analysis Date: 2/10/2011 11:41:39 AM

Methyl tert-butyl ether (MTBE)	24.87	µg/L	2.5	20	0	124	75.5	124			S
Benzene	22.58	µg/L	1.0	20	0	113	84.7	118			
Toluene	23.45	µg/L	1.0	20	0	117	82	123			
Ethylbenzene	23.00	µg/L	1.0	20	0	115	83	118			
Xylenes, Total	69.47	µg/L	2.0	60	0	116	85.4	119			

Sample ID: 100NG BTEX LCSD LCSD Batch ID: R43604 Analysis Date: 2/10/2011 12:11:40 PM

Methyl tert-butyl ether (MTBE)	24.73	µg/L	2.5	20	0	124	75.5	124	0.565	15.7	
Benzene	22.16	µg/L	1.0	20	0	111	84.7	118	1.86	17.7	
Toluene	22.88	µg/L	1.0	20	0	114	82	123	2.45	21.1	
Ethylbenzene	22.59	µg/L	1.0	20	0	113	83	118	1.82	19	
Xylenes, Total	67.97	µg/L	2.0	60	0	113	85.4	119	2.19	16.5	

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:

2/10/2011

Work Order Number 1102255

Received by: LNM

Checklist completed by:

Signature: [Handwritten Signature] Date: 2/10/11

Sample ID labels checked by:

Initials: [Handwritten 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?

6.3°

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____



COVER LETTER

Monday, February 14, 2011

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

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

RE: Benzene Strippers

Dear Thurman B. Larsen:

Order No.: 1102332

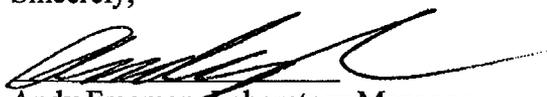
Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 2/11/2011 for the analyses presented in the following report.

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.

Reporting limits are determined by EPA methodology.

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: 14-Feb-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1102332
Project: Benzene Strippers
Lab ID: 1102332-01**Client Sample ID:** BZ 1-2 OUT
Collection Date: 2/10/2011 8:00:00 AM
Date Received: 2/11/2011
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	2/11/2011 6:14:41 PM
Benzene	ND	50		µg/L	50	2/11/2011 6:14:41 PM
Toluene	82	50		µg/L	50	2/11/2011 6:14:41 PM
Ethylbenzene	ND	50		µg/L	50	2/11/2011 6:14:41 PM
Xylenes, Total	ND	100		µg/L	50	2/11/2011 6:14:41 PM
Surr: 4-Bromofluorobenzene	116	81.3-151		%REC	50	2/11/2011 6:14:41 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: Benzene Strippers

Work Order: 1102332

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

Sample ID: 5ML RB *MBLK* **Batch ID:** R43626 **Analysis Date:** 2/11/2011 9:14:30 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:** R43626 **Analysis Date:** 2/11/2011 2:44:00 PM

Methyl tert-butyl ether (MTBE)	25.21	µg/L	2.5	20	0	126	75.5	124			S
Benzene	21.87	µg/L	1.0	20	0	109	84.7	118			
Toluene	22.34	µg/L	1.0	20	0	112	82	123			
Ethylbenzene	22.06	µg/L	1.0	20	0	110	83	118			
Xylenes, Total	67.41	µg/L	2.0	60	0	112	85.4	119			

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name WESTERN REFINING GALLU

Date Received:

2/11/2011

Work Order Number 1102332

Received by: MMG

Checklist completed by:

M. M. Garcia 2/11/11
Signature Date

Sample ID labels checked by:

MMG
Initials

Matrix:

Carrier name: FedEx

- | | | | | |
|---|---|---|---|---|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> | |
| Custody seals intact on shipping container/cooler? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> | Not Shipped <input type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| All samples received within holding time? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | | Number of preserved bottles checked for pH: _____

<2 >12 unless noted below. |
| Water - VOA vials have zero headspace? | No VOA vials submitted <input type="checkbox"/> | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Water - Preservation labels on bottle and cap match? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> | |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> | |
| Container/Temp Blank temperature? | 4.6° | <6° C Acceptable
if given sufficient time to cool. | | |

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

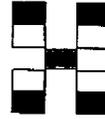
Comments: _____

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) 727-0210
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Other _____
 EDD (Type) _____

Turn-Around Time: NOV 19
 Standard Rush
 Project Name: _____
BZ Strippers
 Project #: _____
BZ API outlet
 Project Manager: _____
Thurman Larson
 Sampler: _____
 Sample Temperature: _____



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 + TMBE'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 BTEX - MTBE	Air Bubbles (Y or N)
2-10-11	8:00am	H ₂ O	40ML-3 BZ H ₂ O out	40ML-3	HCL	02332												X	
2-09-11	8:00am	H ₂ O	NO Flow to BZ Stripper Flow Diverted to Tank 35	NA	N/A														

Date: 2-10-11	Time: 8:57am	Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date: 2-10-11	Time: 8:57
Date: 2-10-11	Time: 12:00	Relinquished by: <u>[Signature]</u>	Received by: <u>[Signature]</u>	Date: 2/11/11	Time: 11:05

Remarks: also cc: Hope Monzeglio and Kristen Vanhorn

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.



COVER LETTER

Thursday, February 17, 2011

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

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

RE: Benzene Strippers

Dear Thurman B. Larsen:

Order No.: 1102382

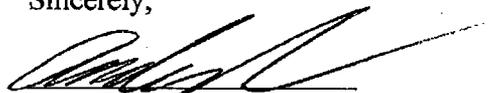
Hall Environmental Analysis Laboratory, Inc. received 4 sample(s) on 2/14/2011 for the analyses presented in the following report.

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.

Reporting limits are determined by EPA methodology.

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: 17-Feb-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1102382
Project: Benzene Strippers
Lab ID: 1102382-01

Client Sample ID: BZ 1-2 OUT
Collection Date: 2/10/2011 8:00:00 AM
Date Received: 2/14/2011
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	2/14/2011 11:57:42 PM
Benzene	ND	50		µg/L	50	2/14/2011 11:57:42 PM
Toluene	69	50		µg/L	50	2/14/2011 11:57:42 PM
Ethylbenzene	ND	50		µg/L	50	2/14/2011 11:57:42 PM
Xylenes, Total	ND	100		µg/L	50	2/14/2011 11:57:42 PM
Surr: 4-Bromofluorobenzene	113	81.3-151		%REC	50	2/14/2011 11:57:42 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: 17-Feb-11

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1102382
 Project: Benzene Strippers
 Lab ID: 1102382-02

Client Sample ID: BZ 1-2 OUT
 Collection Date: 2/11/2011 8:00:00 AM
 Date Received: 2/14/2011
 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	2/15/2011 12:27:40 AM
Benzene	55	50		µg/L	50	2/15/2011 12:27:40 AM
Toluene	96	50		µg/L	50	2/15/2011 12:27:40 AM
Ethylbenzene	ND	50		µg/L	50	2/15/2011 12:27:40 AM
Xylenes, Total	ND	100		µg/L	50	2/15/2011 12:27:40 AM
Surr: 4-Bromofluorobenzene	128	81.3-151		%REC	50	2/15/2011 12:27:40 AM

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: 17-Feb-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1102382
Project: Benzene Strippers
Lab ID: 1102382-03

Client Sample ID: BZ 1-2 OUT
Collection Date: 2/12/2011 8:00:00 AM
Date Received: 2/14/2011
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	2/15/2011 12:57:35 AM
Benzene	ND	50		µg/L	50	2/15/2011 12:57:35 AM
Toluene	ND	50		µg/L	50	2/15/2011 12:57:35 AM
Ethylbenzene	ND	50		µg/L	50	2/15/2011 12:57:35 AM
Xylenes, Total	ND	100		µg/L	50	2/15/2011 12:57:35 AM
Surr: 4-Bromofluorobenzene	112	81.3-151		%REC	50	2/15/2011 12:57:35 AM

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: 17-Feb-11

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1102382
 Project: Benzene Strippers
 Lab ID: 1102382-04

Client Sample ID: BZ 1-2 OUT
 Collection Date: 2/13/2011 8:00:00 AM
 Date Received: 2/14/2011
 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	2/15/2011 1:27:46 AM
Benzene	66	50		µg/L	50	2/15/2011 1:27:46 AM
Toluene	310	50		µg/L	50	2/15/2011 1:27:46 AM
Ethylbenzene	ND	50		µg/L	50	2/15/2011 1:27:46 AM
Xylenes, Total	ND	100		µg/L	50	2/15/2011 1:27:46 AM
Surr: 4-Bromofluorobenzene	119	81.3-151		%REC	50	2/15/2011 1:27:46 AM

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: Benzene Strippers

Work Order: 1102382

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

Sample ID: 5ML RB

MBLK

Batch ID: R43653 Analysis Date: 2/14/2011 9:32:34 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: R43653 Analysis Date: 2/14/2011 4:26:34 PM

Methyl tert-butyl ether (MTBE)	23.95	µg/L	2.5	20	0	120	75.5	124			
Benzene	22.19	µg/L	1.0	20	0	111	84.7	118			
Toluene	22.16	µg/L	1.0	20	0	111	82	123			
Ethylbenzene	21.71	µg/L	1.0	20	0	109	83	118			
Xylenes, Total	66.26	µg/L	2.0	60	0	110	85.4	119			

Qualifiers:

E Estimated value

H Holding times for preparation or analysis exceeded

J Analyte detected below quantitation limits

NC Non-Chlorinated

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name WESTERN REFINING GALLU

Date Received: 2/14/2011

Work Order Number 1102382

Received by: MMG

Checklist completed by:

Signature: [Handwritten Signature] Date: 02/14/11

Sample ID labels checked by:

Initials: [Handwritten Initials]

Matrix: Carrier name: Client drop-off

- 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? 1.6° <6° C Acceptable If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

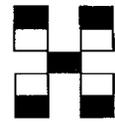
Comments: _____

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 Laisen
Sampler: API OPERATEIS
On Site: YES NO
Sample Temperature: _____



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)	
2-10-11	0800	H2O	BZ 1-200T	40ML-3	HCL	1102382													X	
2-11-11	0800	H2O	BZ 1-200T	40ML-3	HCL														X	
2-12-11	0800	H2O	BZ 1-200T	40ML-3	HCL														X	
2-13-11	0800	H2O	BZ 1-200T	40ML-3	HCL														X	

Date: 02/14/11 Time: 1:00 Relinquished by: [Signature]
Date: _____ Time: _____ Relinquished by: _____

Received by: [Signature] Date: 2/14/11 Time: 1310
Received by: _____ Date: _____ Time: _____

Remarks: ALSO CC HOPE MONZEGNO
KIRSTEN VAN BOIN

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.



COVER LETTER

Tuesday, February 22, 2011

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

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

RE: Benzene Strippers

Order No.: 1102528

Dear Thurman B. Larsen:

Hall Environmental Analysis Laboratory, Inc. received 3 sample(s) on 2/17/2011 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.

Reporting limits are determined by EPA methodology.

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', is written over a horizontal line.

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: 22-Feb-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1102528
Project: Benzene Strippers
Lab ID: 1102528-01

Client Sample ID: BZ 1-2 OUT
Collection Date: 2/14/2011 8:00:00 AM
Date Received: 2/17/2011
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	2/17/2011 4:11:39 PM
Benzene	ND	50		µg/L	50	2/17/2011 4:11:39 PM
Toluene	54	50		µg/L	50	2/17/2011 4:11:39 PM
Ethylbenzene	ND	50		µg/L	50	2/17/2011 4:11:39 PM
Xylenes, Total	ND	100		µg/L	50	2/17/2011 4:11:39 PM
Surr: 4-Bromofluorobenzene	128	81.3-151		%REC	50	2/17/2011 4:11:39 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

Hall Environmental Analysis Laboratory, Inc.

Date: 22-Feb-11

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1102528
 Project: Benzene Strippers
 Lab ID: 1102528-02

Client Sample ID: BZ 1-2 OUT
 Collection Date: 2/15/2011 8:00:00 AM
 Date Received: 2/17/2011
 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	2/17/2011 4:41:55 PM
Benzene	ND	50		µg/L	50	2/17/2011 4:41:55 PM
Toluene	54	50		µg/L	50	2/17/2011 4:41:55 PM
Ethylbenzene	ND	50		µg/L	50	2/17/2011 4:41:55 PM
Xylenes, Total	ND	100		µg/L	50	2/17/2011 4:41:55 PM
Surr: 4-Bromofluorobenzene	108	81.3-151		%REC	50	2/17/2011 4:41:55 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: 22-Feb-11

CLIENT: Western Refining Southwest, Gallup
Lab Order: 1102528
Project: Benzene Strippers
Lab ID: 1102528-03

Client Sample ID: BZ 1-2 OUT
Collection Date: 2/16/2011 8:00:00 AM
Date Received: 2/17/2011
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	2/17/2011 5:11:54 PM
Benzene	ND	50		µg/L	50	2/17/2011 5:11:54 PM
Toluene	ND	50		µg/L	50	2/17/2011 5:11:54 PM
Ethylbenzene	ND	50		µg/L	50	2/17/2011 5:11:54 PM
Xylenes, Total	ND	100		µg/L	50	2/17/2011 5:11:54 PM
Surr: 4-Bromofluorobenzene	127	81.3-151		%REC	50	2/17/2011 5:11:54 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: Benzene Strippers

Work Order: 1102528

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

Sample ID: 5ML RB

MBLK

Batch ID: R43718 **Analysis Date:** 2/17/2011 9:12:19 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: R43718 **Analysis Date:** 2/17/2011 12:51:41 PM

Methyl tert-butyl ether (MTBE)	24.72	µg/L	2.5	20	0	124	97.6	132			
Benzene	21.87	µg/L	1.0	20	0	109	93.4	120			
Toluene	22.22	µg/L	1.0	20	0	111	96.2	122			
Ethylbenzene	21.71	µg/L	1.0	20	0	109	95	121			
Xylenes, Total	66.38	µg/L	2.0	60	0	111	97.6	122			

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:

2/17/2011

Work Order Number 1102528

Received by: AMG

Checklist completed by:

[Signature] 2/17/11
Signature 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
- Container/Temp Blank temperature? **2.9°** <6° C Acceptable
If given sufficient time to cool.

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

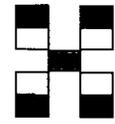
Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Wester-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 Strippas
 Project #: BZ API-OUT
 Project Manager: Thurman Larson
 Sampler: API OPER.
 On ice: Yes No
 Sample Temperature: 16.29



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 + TMBE'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)	
2-14-11	08:00	H ₂ O	BZ1-2 OUT	40ML-3	HCL	1102528													X	
2-15-11	08:00	H ₂ O	BZ1-2 OUT	40ML-3	HCL														X	
2-16-11	08:00	H ₂ O	BZ1-2 OUT	40ML-3	HCL														Y	

Date: 02-16-11 Time: 12:00 pm Relinquished by: [Signature]
 Received by: [Signature] Date: 2/17/11 Time: 9:25
 Date: _____ Time: _____ Relinquished by: _____
 Received by: [Signature] Date: 2/17/11 Time: _____

Remarks: Also, cc: HOPE MONZECADO
&
KRISTEN VANHON

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.