

**ENTERED****Van Horn, Kristen, NMENV**

From: Rajen, Gaurav [Gaurav.Rajen@wnr.com]
Sent: Monday, April 05, 2010 9:47 AM
To: Van Horn, Kristen, NMENV
Subject: FW: Flow rate data for March 2010 at inlet to AL-1; from AL-2 to EP-1, and at Benzene Stripper 3

From: Rajen, Gaurav
Sent: Monday, April 05, 2010 9:44 AM
To: 'Van Horn, Kristen, NMENV'; Monzeglio, Hope, NMENV
Cc: 'Chavez, Carl J, EMNRD'; Cobrain, Dave, NMENV; Riege, Ed; Turri, Mark; Allen, Ann
Subject: Flow rate data for March 2010 at inlet to AL-1, from AL-2 to EP-1, and at Benzene Stripper 3

Dear Kristen:

It is a pleasure to send to you our flow rate data for March, 2010.

We monitor the flows from Aeration Lagoon- 2 (AL-2) to Evaporation Pond -1 (EP-1) by measuring the height in a flume six times a day and then using an average height for the day. Measured in this way, the average flow from AL-2 to EP-1 in March 2010 was 274 GPM; the maximum daily flow was 362 GPM, and the minimum daily flow was 172 GPM. (Note: after the strippers, flow goes into AL-1, then into AL-2, and then enters EP-1.)

Flows through the three strippers and into AL-1 at the lagoons' area are being monitored continuously using electronic flow meters. These flows were as follows: average flows for the month – 163 GPM; maximum daily flow – 206 GPM; minimum daily flow – 130 GPM. It appears that by taking six discrete readings in the flume and averaging these, we are overestimating the flows – as the flows into AL-1 should equal the flows going from AL-2 to EP-1: we should not have more flow leaving than entering. Due to the accuracy of the electronic flow meters, it is felt that these are the true flows and should be used for record-keeping purposes.

For the benzene stripper 3 in our process area, in March only our Desalter effluent was routed to this stripper. The Desalter effluent is approximately 4.5% of our crude charge rates, and for March this works out to approximately 28 GPM as the monthly average flow rate. As our crude charge rate varied through March, we estimate that the minimum and maximum average daily flow rates through the benzene stripper 3 were 20 GPM and 30 GPM for the month of March 2010.

Best regards,

Raj

4/5/2010

Van Horn, Kristen, NMENV

From: Rajen, Gaurav [Gaurav.Rajen@wnr.com]
Sent: Monday, April 05, 2010 9:57 AM
To: Van Horn, Kristen, NMENV
Cc: Chavez, Carl J, EMNRD; Cobrain, Dave, NMENV; Riege, Ed; Turri, Mark; Allen, Ann; Monzeglio, Hope, NMENV
Subject: Benzene results for March 29 and 30, 2010 - outlet of strippers at the lagoons
Attachments: March 29, 2010.pdf; March 30, 2010.pdf

Dear Kristen:

Please find attached our latest benzene results for March 29 and 30, 2010 (0.042 and 0.54 ppm, respectively), in the outlet of the combined strippers at the lagoons.

Best regards,

Raj

Gaurav Rajen, Ph.D.
Environmental Engineer
Gallup Refinery, Western Refining
Tel: 505-722-0227

Safety starts with "S", but always begins with "You"



COVER LETTER

Thursday, April 01, 2010

Gaurav Rajen
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301
TEL: (505) 722-3833
FAX (505) 722-0210

RE: BZ Samples

Order No.: 1003734

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 4 sample(s) on 3/31/2010 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: 01-Apr-10

CLIENT: Western Refining Southwest, Gallup
 Project: BZ Samples

Lab Order: 1003734

Lab ID: 1003734-01
 Client Sample ID: BZ 3 IN

Collection Date: 3/29/2010 9:00:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	1300		µg/L	500	3/31/2010 4:59:30 PM
Benzene	32000	500		µg/L	500	3/31/2010 4:59:30 PM
Toluene	27000	500		µg/L	500	3/31/2010 4:59:30 PM
Ethylbenzene	1500	500		µg/L	500	3/31/2010 4:59:30 PM
Xylenes, Total	8400	1000		µg/L	500	3/31/2010 4:59:30 PM
Surr: 4-Bromofluorobenzene	104	65.9-130		%REC	500	3/31/2010 4:59:30 PM

Lab ID: 1003734-02
 Client Sample ID: BZ 3 OUT

Collection Date: 3/29/2010 9:15:00 AM
 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	3/31/2010 5:29:55 PM
Benzene	1100	50		µg/L	50	3/31/2010 5:29:55 PM
Toluene	1000	50		µg/L	50	3/31/2010 5:29:55 PM
Ethylbenzene	69	50		µg/L	50	3/31/2010 5:29:55 PM
Xylenes, Total	440	100		µg/L	50	3/31/2010 5:29:55 PM
Surr: 4-Bromofluorobenzene	108	65.9-130		%REC	50	3/31/2010 5:29:55 PM

Lab ID: 1003734-03
 Client Sample ID: BZ 1-2 IN

Collection Date: 3/29/2010 9:30:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	630		µg/L	250	3/31/2010 6:00:16 PM
Benzene	2500	250		µg/L	250	3/31/2010 6:00:16 PM
Toluene	4200	250		µg/L	250	3/31/2010 6:00:16 PM
Ethylbenzene	390	250		µg/L	250	3/31/2010 6:00:16 PM
Xylenes, Total	2400	500		µg/L	250	3/31/2010 6:00:16 PM
Surr: 4-Bromofluorobenzene	98.7	65.9-130		%REC	250	3/31/2010 6:00:16 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: 01-Apr-10

CLIENT: Western Refining Southwest, Gallup
Project: BZ Samples

Lab Order: 1003734

Lab ID: 1003734-04
Client Sample ID: BZ 1-2 OUT

Collection Date: 3/29/2010 9:40:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	20	3/31/2010 6:30:41 PM
Benzene	42	20		µg/L	20	3/31/2010 6:30:41 PM
Toluene	130	20		µg/L	20	3/31/2010 6:30:41 PM
Ethylbenzene	28	20		µg/L	20	3/31/2010 6:30:41 PM
Xylenes, Total	210	40		µg/L	20	3/31/2010 6:30:41 PM
Surr: 4-Bromofluorobenzene	93.8	65.9-130		%REC	20	3/31/2010 6:30:41 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: BZ Samples

Work Order: 1003734

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

Sample ID: 5ML RB

MBLK

Batch ID: R38013 **Analysis Date:** 3/31/2010 9:03:13 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

LCS

Batch ID: R38013 **Analysis Date:** 4/1/2010 4:07:21 AM

Methyl tert-butyl ether (MTBE)	19.96	µg/L	2.5	20	0	99.8	51.2	138			
Benzene	20.39	µg/L	1.0	20	0	102	85.9	113			
Toluene	19.94	µg/L	1.0	20	0	99.7	86.4	113			
Ethylbenzene	19.80	µg/L	1.0	20	0.12	98.4	83.5	118			
Xylenes, Total	60.66	µg/L	2.0	60	0	101	83.4	122			

Sample ID: 100NG BTEX LCSD

LCSD

Batch ID: R38013 **Analysis Date:** 4/1/2010 4:37:36 AM

Methyl tert-butyl ether (MTBE)	19.44	µg/L	2.5	20	0	97.2	51.2	138	2.66	28	
Benzene	20.34	µg/L	1.0	20	0	102	85.9	113	0.246	27	
Toluene	20.23	µg/L	1.0	20	0	101	86.4	113	1.44	19	
Ethylbenzene	19.99	µg/L	1.0	20	0.12	99.4	83.5	118	0.975	10	
Xylenes, Total	61.32	µg/L	2.0	60	0	102	83.4	122	1.07	13	

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:

3/31/2010

Work Order Number 1003734

Received by: TLS

Checklist completed by:

Signature

[Handwritten Signature]

Date

3/31/10

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? Yes 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? **5.3°** <6° C Acceptable

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

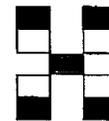
Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: WESTERN-REFINING
Gallup Refinery
 Mailing Address: RT 3 Box 9
Gallup NM 87301
 Phone #: 505 722 3227
 email or Fax#: 505 722 3839
 QA/QC Package:
 Standard Level 4 (Full Validation)
 Other _____
 EDD (Type) _____

Turn-Around Time:
 Standard Rush _____
 Project Name: BZ Samples
 Project #:
 Project Manager: GAUTAU - ROJEN
 Sampler: ALVIN DORSEY
 Onsite: YES NO
 Sample Temperature: 53



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 ID	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-MTBC	Air Bubbles (Y or N)	
03-29-10	0900	AA	BZ 3 IN	40ml-3	HCl	1003834													X	
03-29-10	0915		BZ 3 OUT	40ml-3	HCl														X	
03-29-10	0930		BZ 1-2 IN	40ml-3	HCl														X	
03-29-10	0940		BZ 1-2 OUT	40ml-3	HCl														X	

Date: 03-30-10 Time: _____ Relinquished by: Alvin

Received by: [Signature] Date: 3/31/10 Time: 901

Remarks: NO charge - RUSH FOR BZ 1-2 OUT
CC HOPE MON 2 EQ
KRISTIN VAN HORN CHECK WITH ADDY

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, April 01, 2010

Gaurav Rajen
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

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

RE: Benzene Strippers

Dear Gaurav Rajen:

Order No.: 1003735

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 3/31/2010 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,



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: 01-Apr-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1003735
 Project: Benzene Strippers
 Lab ID: 1003735-01

Client Sample ID: BZ 1-2 OUT
 Collection Date: 3/30/2010 8:00:00 AM
 Date Received: 3/31/2010
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	20	3/31/2010 7:01:03 PM
Benzene	540	20		µg/L	20	3/31/2010 7:01:03 PM
Toluene	1000	20		µg/L	20	3/31/2010 7:01:03 PM
Ethylbenzene	130	20		µg/L	20	3/31/2010 7:01:03 PM
Xylenes, Total	940	40		µg/L	20	3/31/2010 7:01:03 PM
Surr: 4-Bromofluorobenzene	114	65.9-130		%REC	20	3/31/2010 7:01:03 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: 1003735

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML RB		<i>MBLK</i>									
						Batch ID: R38013	Analysis Date: 3/31/2010 9:03:13 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: R38013	Analysis Date: 4/1/2010 4:07:21 AM				
Methyl tert-butyl ether (MTBE)	19.96	µg/L	2.5	20	0	99.8	51.2	138			
Benzene	20.39	µg/L	1.0	20	0	102	85.9	113			
Toluene	19.94	µg/L	1.0	20	0	99.7	86.4	113			
Ethylbenzene	19.80	µg/L	1.0	20	0.12	98.4	83.5	118			
Xylenes, Total	60.66	µg/L	2.0	60	0	101	83.4	122			
Sample ID: 100NG BTEX LCSD		<i>LCSD</i>									
						Batch ID: R38013	Analysis Date: 4/1/2010 4:37:36 AM				
Methyl tert-butyl ether (MTBE)	19.44	µg/L	2.5	20	0	97.2	51.2	138	2.66	28	
Benzene	20.34	µg/L	1.0	20	0	102	85.9	113	0.246	27	
Toluene	20.23	µg/L	1.0	20	0	101	86.4	113	1.44	19	
Ethylbenzene	19.99	µg/L	1.0	20	0.12	99.4	83.5	118	0.975	10	
Xylenes, Total	61.32	µg/L	2.0	60	0	102	83.4	122	1.07	13	

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

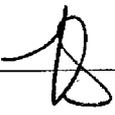
Client Name **WESTERN REFINING GALLU**

Date Received:

3/31/2010

Work Order Number **1003735**

Received by: **TLS**

Checklist completed by:  _____
Signature | Date

Sample ID labels checked by: **TS**
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: _____
<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? | 5.3° | <i><6° C Acceptable</i> | | |

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Van Horn, Kristen, NMENV

From: Rajen, Gaurav [Gaurav.Rajen@wnr.com]
Sent: Tuesday, March 30, 2010 8:26 AM
To: Van Horn, Kristen, NMENV
Cc: Chavez, Carl J, EMNRD; Cobrain, Dave, NMENV; Riege, Ed; Turri, Mark; Allen, Ann; Monzeglio, Hope, NMENV
Subject: Benzene results for March 23 and 24, 2010 - outlet of strippers at the lagoons
Attachments: march 23, 2010.pdf; March 24, 2010.pdf

Dear Kristen:

Please find attached our latest benzene results for March 23 and 24, 2010 (0.07 and 0.099 ppm, respectively), in the outlet of the combined strippers at the lagoons.

Best regards,

Raj

Gaurav Rajen, Ph.D.
Environmental Engineer
Gallup Refinery, Western Refining
Tel: 505-722-0227

Safety starts with "S", but always begins with "You"

COVER LETTER

Monday, March 29, 2010

Gaurav Rajen
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-3833

FAX (505) 722-0210

RE: Benzene Strippers

Dear Gaurav Rajen:

Order No.: 1003603

Hall Environmental Analysis Laboratory, Inc. received 4 sample(s) on 3/25/2010 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,



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: 29-Mar-10

CLIENT: Western Refining Southwest, Gallup
Project: Benzene Strippers

Lab Order: 1003603

Lab ID: 1003603-01

Collection Date: 3/23/2010 11:00:00 AM

Client Sample ID: BZ 3 IN

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: NSB
EPA METHOD 8021B: VOLATILES						
Methyl tert-butyl ether (MTBE)	ND	1300		µg/L	500	3/25/2010 2:46:05 PM
Benzene	2800	500		µg/L	500	3/25/2010 2:46:05 PM
Toluene	8300	500		µg/L	500	3/25/2010 2:46:05 PM
Ethylbenzene	960	500		µg/L	500	3/25/2010 2:46:05 PM
Xylenes, Total	5400	1000		µg/L	500	3/25/2010 2:46:05 PM
Surr: 4-Bromofluorobenzene	93.5	65.9-130		%REC	500	3/25/2010 2:46:05 PM

Lab ID: 1003603-02

Collection Date: 3/23/2010 11:15:00 AM

Client Sample ID: BZ 3 OUT

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: NSB
EPA METHOD 8021B: VOLATILES						
Methyl tert-butyl ether (MTBE)	ND	130		µg/L	50	3/25/2010 3:16:29 PM
Benzene	920	50		µg/L	50	3/25/2010 3:16:29 PM
Toluene	1200	50		µg/L	50	3/25/2010 3:16:29 PM
Ethylbenzene	190	50		µg/L	50	3/25/2010 3:16:29 PM
Xylenes, Total	1200	100		µg/L	50	3/25/2010 3:16:29 PM
Surr: 4-Bromofluorobenzene	109	65.9-130		%REC	50	3/25/2010 3:16:29 PM

Lab ID: 1003603-03

Collection Date: 3/23/2010 11:40:00 AM

Client Sample ID: BZ 1-2 IN

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: NSB
EPA METHOD 8021B: VOLATILES						
Methyl tert-butyl ether (MTBE)	ND	630		µg/L	250	3/25/2010 3:46:44 PM
Benzene	23000	250		µg/L	250	3/25/2010 3:46:44 PM
Toluene	21000	250		µg/L	250	3/25/2010 3:46:44 PM
Ethylbenzene	1700	250		µg/L	250	3/25/2010 3:46:44 PM
Xylenes, Total	10000	500		µg/L	250	3/25/2010 3:46:44 PM
Surr: 4-Bromofluorobenzene	106	65.9-130		%REC	250	3/25/2010 3:46:44 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: 29-Mar-10

CLIENT: Western Refining Southwest, Gallup
 Project: Benzene Strippers

Lab Order: 1003603

Lab ID: 1003603-04
 Client Sample ID: BZ 1-2 OUT

Collection Date: 3/23/2010 11:50:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	20	3/25/2010 4:17:06 PM
Benzene	70	20		µg/L	20	3/25/2010 4:17:06 PM
Toluene	360	20		µg/L	20	3/25/2010 4:17:06 PM
Ethylbenzene	91	20		µg/L	20	3/25/2010 4:17:06 PM
Xylenes, Total	610	40		µg/L	20	3/25/2010 4:17:06 PM
Surr: 4-Bromofluorobenzene	104	65.9-130		%REC	20	3/25/2010 4:17:06 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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Benzene Strippers

Work Order: 1003603

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

Method: EPA Method 8021B: Volatiles

Sample ID: 5ML RB

MBLK

Batch ID: R37933 Analysis Date: 3/25/2010 8:08:53 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: R37933 Analysis Date: 3/25/2010 7:49:37 PM

Methyl tert-butyl ether (MTBE)	20.72	µg/L	2.5	20	0	104	51.2	138			
Benzene	21.09	µg/L	1.0	20	0	105	85.9	113			
Toluene	20.45	µg/L	1.0	20	0	102	86.4	113			
Ethylbenzene	20.53	µg/L	1.0	20	0.126	102	83.5	118			
Xylenes, Total	62.21	µg/L	2.0	60	0	104	83.4	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: **3/25/2010**

Work Order Number **1003603**

Received by: **TLS**

Checklist completed by: _____

Signature



3/25/10

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
- Container/Temp Blank temperature? **3.4°** <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: _____

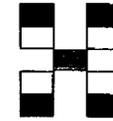
Comments: _____

Corrective Action _____

Chain-of-Custody Record

Turn-Around Time:

Standard Rush



**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 9**
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) _____

Project Name: **BZ STRIPPERS**
 Project #: _____
WEEKLY
 Project Manager: **GIAVIAU, RAJEN**

Sampler: _____
 Sample Temperature: _____

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	SEALED	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)	
03-23-10	1100	ag ^s	BZ 3 IN			093-103														
03-23-10	1115		BZ 3 OUT																	
03-23-10	1140		BZ 1-2 IN																	
03-23-10	1150		BZ 1-2 OUT																	

Date: **03-24-10** Time: **12:00** Relinquished by: **Alan [Signature]**

Received by: **[Signature]** Date: **3/25/10** Time: **9:00**

Remarks: **NO CHARGE - RUSH FOR BZ 1-2 OUT**
ALSO CC HOPE MOUNZEGO
KRISTEN VAN HORN (check with)

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, March 26, 2010

Gaurav Rajen
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

TEL: (505) 722-3833

FAX (505) 722-0210

RE: Benzene Strippers

Order No.: 1003604

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 3/25/2010 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: 26-Mar-10

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: BZ 1-2 OUT

Lab Order: 1003604

Collection Date: 3/24/2010 8:00:00 AM

Project: Benzene Strippers

Date Received: 3/25/2010

Lab ID: 1003604-01

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	20	3/25/2010 4:47:25 PM
Benzene	99	20		µg/L	20	3/25/2010 4:47:25 PM
Toluene	280	20		µg/L	20	3/25/2010 4:47:25 PM
Ethylbenzene	50	20		µg/L	20	3/25/2010 4:47:25 PM
Xylenes, Total	370	40		µg/L	20	3/25/2010 4:47:25 PM
Surr: 4-Bromofluorobenzene	106	65.9-130		%REC	20	3/25/2010 4:47:25 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: 1003604

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML RB		MBLK			Batch ID: R37933		Analysis Date: 3/25/2010 8:08:53 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: R37933		Analysis Date: 3/25/2010 7:49:37 PM				
Methyl tert-butyl ether (MTBE)	20.72	µg/L	2.5	20	0	104	51.2	138			
Benzene	21.09	µg/L	1.0	20	0	105	85.9	113			
Toluene	20.45	µg/L	1.0	20	0	102	86.4	113			
Ethylbenzene	20.53	µg/L	1.0	20	0.126	102	83.5	118			
Xylenes, Total	62.21	µg/L	2.0	60	.0	104	83.4	122			

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:

3/25/2010

Work Order Number **1003604**

Received by: **TLS**

Initials

Checklist completed by:

Signature

18

Date

3/25/10

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: _____
<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° | <i><6° C Acceptable</i>
If given sufficient time to cool. | | |

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Van Horn, Kristen, NMENV

From: Rajen, Gaurav [Gaurav.Rajen@wnr.com]
Sent: Tuesday, March 23, 2010 3:04 PM
To: Monzeglio, Hope, NMENV; Van Horn, Kristen, NMENV
Cc: Chavez, Carl J, EMNRD; Cobrain, Dave, NMENV; Riege, Ed; Turri, Mark; Allen, Ann
Subject: Benzene results for March 16, 2010 - outlet of strippers at the lagoons
Attachments: March 16, 2010.pdf

Dear Kristen and Hope:

Please find attached our latest benzene results for March 16 (0.029 ppm in the outlet of the combined strippers at the lagoons).

Best regards,

Raj

Gaurav Rajen, Ph.D.
Environmental Engineer
Gallup Refinery, Western Refining
Tel: 505-722-0227

Safety starts with "S", but always begins with "You"



COVER LETTER

Tuesday, March 23, 2010

Gaurav Rajen
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301

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

RE: Benzene Strippers

Order No.: 1003410

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 3/17/2010 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: 23-Mar-10

CLIENT: Western Refining Southwest, Gallup
 Lab Order: 1003410
 Project: Benzene Strippers
 Lab ID: 1003410-01

Client Sample ID: BZ 1-2 OUT
 Collection Date: 3/16/2010 1:00:00 PM
 Date Received: 3/17/2010
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	20	3/22/2010 11:50:26 AM
Benzene	29	20		µg/L	20	3/22/2010 11:50:26 AM
Toluene	150	20		µg/L	20	3/22/2010 11:50:26 AM
Ethylbenzene	48	20		µg/L	20	3/22/2010 11:50:26 AM
Xylenes, Total	320	40		µg/L	20	3/22/2010 11:50:26 AM
Surr: 4-Bromofluorobenzene	110	65.9-130		%REC	20	3/22/2010 11:50:26 AM

Analyst: NSB

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: 1003410

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML RB		<i>MBLK</i>									
Batch ID: R37855 Analysis Date: 3/22/2010 8:48:05 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-II		<i>LCS</i>									
Batch ID: R37855 Analysis Date: 3/22/2010 11:20:06 AM											
Methyl tert-butyl ether (MTBE)	20.63	µg/L	2.5	20	0	103	51.2	138			
Benzene	19.16	µg/L	1.0	20	0	95.8	85.9	113			
Toluene	18.26	µg/L	1.0	20	0	91.3	86.4	113			
Ethylbenzene	18.27	µg/L	1.0	20	0	91.4	83.5	118			
Xylenes, Total	55.62	µg/L	2.0	60	0	92.7	83.4	122			
Sample ID: 100NG BTEX LCS		<i>LCS</i>									
Batch ID: R37855 Analysis Date: 3/22/2010 3:24:40 PM											
Methyl tert-butyl ether (MTBE)	20.46	µg/L	2.5	20	0	102	51.2	138			
Benzene	20.10	µg/L	1.0	20	0	101	85.9	113			
Toluene	19.30	µg/L	1.0	20	0	96.5	86.4	113			
Ethylbenzene	19.67	µg/L	1.0	20	0	98.3	83.5	118			
Xylenes, Total	59.02	µg/L	2.0	60	0	98.4	83.4	122			
Sample ID: 100NG BTEX LCSD		<i>LCSD</i>									
Batch ID: R37855 Analysis Date: 3/22/2010 3:55:07 PM											
Methyl tert-butyl ether (MTBE)	19.90	µg/L	2.5	20	0	99.5	51.2	138	2.78	28	
Benzene	19.59	µg/L	1.0	20	0	98.0	85.9	113	2.58	27	
Toluene	18.57	µg/L	1.0	20	0	92.8	86.4	113	3.89	19	
Ethylbenzene	18.59	µg/L	1.0	20	0	92.9	83.5	118	5.65	10	
Xylenes, Total	56.39	µg/L	2.0	60	0	94.0	83.4	122	4.56	13	

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:

3/17/2010

Work Order Number **1003410**

Received by: **ARS**

Sample ID labels checked by:

Initials

Checklist completed by:

Signature

3/17/10
Date

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? | 5.3° | <i><6° C Acceptable</i>
If given sufficient time to cool. | | <i><2 >12 unless noted below.</i> |

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

