

Monzeglio, Hope, NMENV

EMNRD

From: Rajen, Gaurav [Gaurav.Rajen@wnr.com]
Sent: Thursday, February 19, 2009 4:29 PM
To: Monzeglio, Hope, NMENV
Cc: Cobrain, Dave, NMENV; Jones, Brad A., EMNRD
Subject: RE: Benzene results

Dear Hope:

The IDs got switched unfortunately. I should have pointed that out right away. Sorry, the lab had called us – we decided not to change the IDs in the lab reports as the Chain-of-custody would not have matched the times of sample collection. One of our environmental technicians collected the sample and made an error in the ID labels.

You are right! The levels always drop off by a factor of ten and more from what comes in: in is always higher than out, consistently since we started sampling. This was a simple ID label error by the sampler – you will note it is for all analytes, not just benzene.

I had made a note in a summary table I prepare, and forgot to add the note to my e-mail when I sent you the laboratory reports.

Best regards,

Raj

From: Monzeglio, Hope, NMENV [mailto:hope.monzeglio@state.nm.us]
Sent: Thursday, February 19, 2009 4:12 PM
To: Rajen, Gaurav
Cc: Cobrain, Dave, NMENV; Jones, Brad A., EMNRD
Subject: RE: Benzene results

Raj

I have a question for the samples collected on 2/11/09 from Benzene Stripper 3. Would there be an error in these results as there is more benzene coming out of stripper 3 than going into it; 3rd BZ Stripper-IN is 1,800 ug/l and 3rd BZ Stripper-OUT is 39,000 ug/l. Let me know your thoughts.

Thanks

Hope

From: Rajen, Gaurav [mailto:Gaurav.Rajen@wnr.com]
Sent: Thursday, February 19, 2009 3:34 PM
To: Monzeglio, Hope, NMENV
Cc: Riege, Ed; Chavez, Carl J, EMNRD
Subject: Benzene results

Dear Hope:

It is a pleasure to send you our recent sampling results for benzene levels in the influent and effluent to our benzene strippers.

With my best regards,

Raj

This inbound email has been scanned by the MessageLabs Email Security System.

2/19/2009

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This inbound email has been scanned by the MessageLabs Email Security System.



COVER LETTER

Thursday, February 19, 2009

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

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

RE: Bz Strippers

Dear Gaurav Rajen:

Order No.: 0902136

Hall Environmental Analysis Laboratory, Inc. received 4 sample(s) on 2/13/2009 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. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't 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, Business Manager
Nancy McDuffie, Laboratory Manager

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



Hall Environmental Analysis Laboratory, Inc.

Date: 19-Feb-09

CLIENT: Western Refining Southwest, Gallup
 Project: Bz Strippers

Lab Order: 0902136

Lab ID: 0902136-01

Collection Date: 2/11/2009 11:40:00 AM

Matrix: AQUEOUS

Client Sample ID: 3RD BZ Stripper-~~IN~~^{OUT}

H.M. → *Memo Switched*

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Analyst: DAM						
EPA METHOD 8021B: VOLATILES						
Methyl tert-butyl ether (MTBE)	ND	130		µg/L	50	2/17/2009 3:57:40 PM
Benzene	1800	50		µg/L	50	2/17/2009 3:57:40 PM
Toluene	1900	50		µg/L	50	2/17/2009 3:57:40 PM
Ethylbenzene	130	50		µg/L	50	2/17/2009 3:57:40 PM
Xylenes, Total	950	100		µg/L	50	2/17/2009 3:57:40 PM
Surr: 4-Bromofluorobenzene	86.9	65.9-130		%REC	50	2/17/2009 3:57:40 PM

Lab ID: 0902136-02

Collection Date: 2/11/2009 12:00:00 PM

Matrix: AQUEOUS

Client Sample ID: 3RD BZ Stripper-~~OUT~~^{IN}

H.M. → *Memo Switched*

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Analyst: DAM						
EPA METHOD 8021B: VOLATILES						
Methyl tert-butyl ether (MTBE)	ND	1300		µg/L	500	2/14/2009 7:28:17 AM
Benzene	39000	500		µg/L	500	2/14/2009 7:28:17 AM
Toluene	36000	500		µg/L	500	2/14/2009 7:28:17 AM
Ethylbenzene	2100	500		µg/L	500	2/14/2009 7:28:17 AM
Xylenes, Total	14000	1000		µg/L	500	2/14/2009 7:28:17 AM
Surr: 4-Bromofluorobenzene	92.3	65.9-130		%REC	500	2/14/2009 7:28:17 AM

Lab ID: 0902136-03

Collection Date: 2/11/2009 12:30:00 PM

Matrix: AQUEOUS

Client Sample ID: BZ Stripper 1&2 IN

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Analyst: DAM						
EPA METHOD 8021B: VOLATILES						
Methyl tert-butyl ether (MTBE)	ND	500		µg/L	200	2/14/2009 7:58:36 AM
Benzene	12000	200		µg/L	200	2/14/2009 7:58:36 AM
Toluene	17000	200		µg/L	200	2/14/2009 7:58:36 AM
Ethylbenzene	1500	200		µg/L	200	2/14/2009 7:58:36 AM
Xylenes, Total	9400	400		µg/L	200	2/14/2009 7:58:36 AM
Surr: 4-Bromofluorobenzene	103	65.9-130		%REC	200	2/14/2009 7:58:36 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 19-Feb-09

CLIENT: Western Refining Southwest, Gallup **Lab Order:** 0902136
Project: Bz Strippers

Lab ID: 0902136-04 **Collection Date:** 2/11/2009 12:45:00 PM
Client Sample ID: BZ Stripper 1&2 OUT **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: DAM
EPA METHOD 8021B: VOLATILES						
Methyl tert-butyl ether (MTBE)	ND	130		µg/L	50	2/14/2009 8:28:59 AM
Benzene	1800	50		µg/L	50	2/14/2009 8:28:59 AM
Toluene	3200	50		µg/L	50	2/14/2009 8:28:59 AM
Ethylbenzene	550	50		µg/L	50	2/14/2009 8:28:59 AM
Xylenes, Total	3400	100		µg/L	50	2/14/2009 8:28:59 AM
Surr: 4-Bromofluorobenzene	99.3	65.9-130		%REC	50	2/14/2009 8:28:59 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
ND Not Detected at the Reporting Limit RL Reporting Limit
S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
 Project: Bz Strippers

Work Order: 0902136

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

Batch ID: R32412 Analysis Date: 2/13/2009 10:02:46 AM

Sample ID: 5ML RB

MBLK

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						

Batch ID: R32412 Analysis Date: 2/14/2009 3:52:52 AM

Sample ID: 100NG BTEX LCS

LCS

Methyl tert-butyl ether (MTBE)	21.56	µg/L	2.5	108	51.2	138			
Benzene	19.28	µg/L	1.0	96.4	85.9	113			
Toluene	20.43	µg/L	1.0	101	86.4	113			
Ethylbenzene	21.19	µg/L	1.0	106	83.5	118			
Xylenes, Total	64.55	µg/L	2.0	108	83.4	122			

Batch ID: R32412 Analysis Date: 2/14/2009 4:23:20 AM

Sample ID: 100NG BTEX LCSD

LCSD

Methyl tert-butyl ether (MTBE)	21.24	µg/L	2.5	106	51.2	138	1.48	28	
Benzene	19.00	µg/L	1.0	95.0	85.9	113	1.44	27	
Toluene	19.72	µg/L	1.0	97.2	86.4	113	3.52	19	
Ethylbenzene	20.69	µg/L	1.0	103	83.5	118	2.37	10	
Xylenes, Total	63.27	µg/L	2.0	105	83.4	122	2.00	13	

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name WESTERN REFINING GALLU

Date Received:

2/13/2009

Work Order Number 0902136

Received by: ARS

Checklist completed by:

Signature

[Handwritten Signature]

Date

2/13/09

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

Container/Temp Blank temperature?

11°

<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 9**

Gallup NM 87301

Phone #: **505 722 3227**

email or Fax#: **505 722 3833**

QA/QC Package:

- Standard Level 4 (Full Validation)
 Other _____
 EDD (Type) _____

Turn-Around Time:

- Standard Rush

Project Name:

Bz Strippers

Project #:

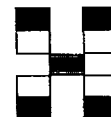
Project Manager:

GRAUVA RAJEN

Sampler: **ALVIN DORSEY**

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	HEALING 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)	
02-11-09	1140		3 rd Bz Stripper IN	3-40ML	HCL	090213													X	
02-11-09	1200		3 rd Bz Stripper OUT	3-40ML	HCL														X	
02-11-09	1230		Bz Stripper 12-2 IN	3-40ML	HCL														X	
02-11-09	1245		Bz Stripper 12-2 OUT	3-40ML	HCL														X	

Date: 02-12-09	Time: 12:00	Relinquished by: <i>Alvin R</i>	Received by: <i>[Signature]</i>	Date: 2/13/09	Time: 9:35	Remarks:
Date:	Time:	Relinquished by:	Received by:	Date:	Time:	

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, February 13, 2009

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.: 0902030

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 8 sample(s) on 2/4/2009 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. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,



Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

NM Lab # NM9425

AZ license # AZ0682

ORELAP Lab # NM100001

Texas Lab# T104704424-08-TX



CLIENT: Western Refining Southwest, Gallup
Project: Benzene Strippers
Lab Order: 0902030

CASE NARRATIVE

The pH was greater than 2.0 for samples: 3rd Bz Stripper In and 3rd Bz stripper out collected 2/3/2009

Hall Environmental Analysis Laboratory, Inc.

Date: 13-Feb-09

CLIENT: Western Refining Southwest, Gallup
Project: Benzene Strippers

Lab Order: 0902030

Lab ID: 0902030-01
Client Sample ID: 3RD BZ Stripper-IN

Collection Date: 1/29/2009 2:20:00 PM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: DAM
EPA METHOD 8021B: VOLATILES						
Methyl tert-butyl ether (MTBE)	ND	2500		µg/L	1000	2/5/2009 10:12:59 PM
Benzene	27000	1000		µg/L	1000	2/5/2009 10:12:59 PM
Toluene	80000	1000		µg/L	1000	2/5/2009 10:12:59 PM
Ethylbenzene	22000	1000		µg/L	1000	2/5/2009 10:12:59 PM
Xylenes, Total	140000	2000		µg/L	1000	2/5/2009 10:12:59 PM
Surr: 4-Bromofluorobenzene	106	65.9-130		%REC	1000	2/5/2009 10:12:59 PM

Lab ID: 0902030-02
Client Sample ID: 3RD BZ Stripper-OUT

Collection Date: 1/29/2009 2:50:00 PM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: DAM
EPA METHOD 8021B: VOLATILES						
Methyl tert-butyl ether (MTBE)	ND	1300		µg/L	500	2/6/2009 12:23:26 PM
Benzene	7400	500		µg/L	500	2/6/2009 12:23:26 PM
Toluene	37000	500		µg/L	500	2/6/2009 12:23:26 PM
Ethylbenzene	15000	500		µg/L	500	2/6/2009 12:23:26 PM
Xylenes, Total	92000	1000		µg/L	500	2/6/2009 12:23:26 PM
Surr: 4-Bromofluorobenzene	89.7	65.9-130		%REC	500	2/6/2009 12:23:26 PM

Lab ID: 0902030-03
Client Sample ID: BZ Stripper 1&2 IN

Collection Date: 1/29/2009 8:45:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: DAM
EPA METHOD 8021B: VOLATILES						
Methyl tert-butyl ether (MTBE)	ND	500		µg/L	200	2/6/2009 12:53:59 PM
Benzene	7600	200		µg/L	200	2/6/2009 12:53:59 PM
Toluene	11000	200		µg/L	200	2/6/2009 12:53:59 PM
Ethylbenzene	770	200		µg/L	200	2/6/2009 12:53:59 PM
Xylenes, Total	4800	400		µg/L	200	2/6/2009 12:53:59 PM
Surr: 4-Bromofluorobenzene	92.8	65.9-130		%REC	200	2/6/2009 12:53:59 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 13-Feb-09

CLIENT: Western Refining Southwest, Gallup
 Project: Benzene Strippers

Lab Order: 0902030

Lab ID: 0902030-04
 Client Sample ID: BZ Stripper 1&2 OUT

Collection Date: 1/29/2009 9:20:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						
Methyl tert-butyl ether (MTBE)	ND	130		µg/L	50	2/5/2009 11:44:26 PM
Benzene	980	50		µg/L	50	2/5/2009 11:44:26 PM
Toluene	1700	50		µg/L	50	2/5/2009 11:44:26 PM
Ethylbenzene	180	50		µg/L	50	2/5/2009 11:44:26 PM
Xylenes, Total	1200	100		µg/L	50	2/5/2009 11:44:26 PM
Surr: 4-Bromofluorobenzene	89.4	65.9-130		%REC	50	2/5/2009 11:44:26 PM

Lab ID: 0902030-05
 Client Sample ID: 3RD BZ Stripper-IN

Collection Date: 2/3/2009 7:50:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						
Methyl tert-butyl ether (MTBE)	ND	2500		µg/L	1000	2/6/2009 12:15:02 AM
Benzene	33000	1000		µg/L	1000	2/6/2009 12:15:02 AM
Toluene	45000	1000		µg/L	1000	2/6/2009 12:15:02 AM
Ethylbenzene	6200	1000		µg/L	1000	2/6/2009 12:15:02 AM
Xylenes, Total	41000	2000		µg/L	1000	2/6/2009 12:15:02 AM
Surr: 4-Bromofluorobenzene	88.8	65.9-130		%REC	1000	2/6/2009 12:15:02 AM

Lab ID: 0902030-06
 Client Sample ID: 3RD BZ Stripper-OUT

Collection Date: 2/3/2009 8:20:00 AM
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						
Methyl tert-butyl ether (MTBE)	ND	250		µg/L	100	2/6/2009 12:45:35 AM
Benzene	7300	100		µg/L	100	2/6/2009 12:45:35 AM
Toluene	9700	100		µg/L	100	2/6/2009 12:45:35 AM
Ethylbenzene	1500	100		µg/L	100	2/6/2009 12:45:35 AM
Xylenes, Total	9500	200		µg/L	100	2/6/2009 12:45:35 AM
Surr: 4-Bromofluorobenzene	98.7	65.9-130		%REC	100	2/6/2009 12:45:35 AM

Qualifiers: * Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
 RL Reporting Limit

Hall Environmental Analysis Laboratory, Inc.

Date: 13-Feb-09

CLIENT: Western Refining Southwest, Gallup
Project: Benzene Strippers

Lab Order: 0902030

Lab ID: 0902030-07
Client Sample ID: BZ Stripper 1&2 IN

Collection Date: 2/3/2009 9:30:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: DAM
Methyl tert-butyl ether (MTBE)	ND	500		µg/L	200	2/6/2009 1:16:01 AM
Benzene	9000	200		µg/L	200	2/6/2009 1:16:01 AM
Toluene	13000	200		µg/L	200	2/6/2009 1:16:01 AM
Ethylbenzene	1100	200		µg/L	200	2/6/2009 1:16:01 AM
Xylenes, Total	6700	400		µg/L	200	2/6/2009 1:16:01 AM
Surr: 4-Bromofluorobenzene	95.0	65.9-130		%REC	200	2/6/2009 1:16:01 AM

Lab ID: 0902030-08
Client Sample ID: BZ Stripper 1&2 OUT

Collection Date: 2/3/2009 10:00:00 AM
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	2/6/2009 1:46:24 AM
Benzene	1000	50		µg/L	50	2/6/2009 1:46:24 AM
Toluene	2000	50		µg/L	50	2/6/2009 1:46:24 AM
Ethylbenzene	260	50		µg/L	50	2/6/2009 1:46:24 AM
Xylenes, Total	1800	100		µg/L	50	2/6/2009 1:46:24 AM
Surr: 4-Bromofluorobenzene	98.8	65.9-130		%REC	50	2/6/2009 1:46:24 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Benzene Strippers

Work Order: 0902030

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8021B: Volatiles				Batch ID: R32305		Analysis Date: 2/5/2009 10:32:55 AM			
Sample ID: 5ML RB		<i>MBLK</i>							
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: R32305		Analysis Date: 2/6/2009 3:17:51 AM			
Methyl tert-butyl ether (MTBE)	19.52	µg/L	2.5	97.6	51.2	138			
Benzene	19.93	µg/L	1.0	99.6	85.9	113			
Toluene	20.79	µg/L	1.0	101	86.4	113			
Ethylbenzene	21.32	µg/L	1.0	107	83.5	118			
Xylenes, Total	66.40	µg/L	2.0	111	83.4	122			
Sample ID: 100NG BTEX LCSD		<i>LCSD</i>		Batch ID: R32305		Analysis Date: 2/6/2009 3:48:14 AM			
Methyl tert-butyl ether (MTBE)	20.17	µg/L	2.5	101	51.2	138	3.24	28	
Benzene	19.76	µg/L	1.0	98.8	85.9	113	0.836	27	
Toluene	20.73	µg/L	1.0	101	86.4	113	0.289	19	
Ethylbenzene	21.07	µg/L	1.0	105	83.5	118	1.17	10	
Xylenes, Total	65.45	µg/L	2.0	109	83.4	122	1.44	13	

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name WESTERN REFINING GALLU


Date Received:

2/4/2009

Work Order Number 0902030

Received by: TLS

Checklist completed by:

Signature 

Date 2/4/09

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? 4° <6° C Acceptable
If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

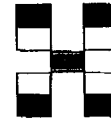
Comments: _____

Corrective Action _____

Chain-of-Custody Record

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

Turn-Around Time:
 Standard Rush _____
 Project Name:
BZ STRIPPERS
 Project #:
 Project Manager:
GAURAV RAJEN
 Sampler: ALVIN DORSEY
 Office: 2045
 Sample Temperature: 4



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)	
1-29-09	2:20	A1	3 rd Bz Stripper IN	340ml	HCl	1													X	
1-29-09	2:50		3 rd Bz Stripper OUT	340ml	HCl	2													X	
1-29-09	0845		Bz Stripper 122 IN	340ml	HCl	3													X	
1-29-09	0920		Bz Stripper 122 OUT	340ml	HCl	4													X	
02-03-09	0750		3 rd Bz Stripper IN	340ml	HCl	5													X	
02-03-09	0820		3 rd Bz Stripper OUT	340ml	HCl	6													X	
02-03-09	0930		Bz Stripper 122 IN	340ml	HCl	7													X	
02-03-09	1000		Bz Stripper 122 OUT	340ml	HCl	8													X	

Date: 02-03-09 Time: 12:00 Relinquished by: [Signature]
 Received by: [Signature] Date: 2/4/09 Time: 900

Remarks: