GRCC

Monzeglio, Hope, NMENV

From: Rajen, Gaurav [Gaurav.Rajen@wnr.com]
Sent: Thursday, May 28, 2009 1:54 PM
To: Monzeglio, Hope, NMENV; Jones, Brad A., EMNRD
Cc: Cobrain, Dave, NMENV; Riege, Ed; Turri, Mark
Subject: Benzene results for April, 2009
Attachments: April 2.pdf; April 6.pdf; April 17.pdf; April 20.pdf; April 30.pdf

Dear Hope:

It is a pleasure to send you our flow rate data and benzene strippers' analytical data for the month of April, 2009.

The analytical data are attached in the reports we have received from Hall Environmental Laboratory. You will note in the attached reports (as also for January, February and March 2009) that MTBE levels have consistently always been at non-detection levels. We are working with the laboratory to improve the detection levels as you have requested.

Through the benzene strippers 1 and 2 after the New API Separator (NAPIS), our average flow rate for the month of April 2009 in gallons per minutes was 212 GPM (with a maximum of approximately 301 GPM and a minimum of 166 GPM). We measure these flows by logging the depth in a 60 degrees trapezoidal flume approximately 6 times a day, and then averaging the depth readings, and using the flume's calibration curve to estimate the flow rate.

For the benzene stripper 3 in our process area, in April only our Desalter effluent was routed to this stripper. Previously, we have sent you details of other units that can be routed at times. The Desalter effluents are approximately 4.5% of our crude charge rates, and for April this works out to approximately 18 GPM as the monthly average flow rate. As our crude charge rate varied through April, we estimate that the minimum and maximum average daily flow rates through the benzene stripper 3 varied between 16 GPM and 20 GPM for the month of April, 2009.

Best regards,

Raj

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

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Wednesday, April 15, 2009

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

TEL: (505) 722-0227
FAX (505) 722-0210

RE: Qtrly Method 8260B Air Quality Permit 0633-m7

Order No.: 0904113

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 4 sample(s) on 4/8/2009 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

ACCREDITED IN ACCORDANCE WITH nelac

4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109
505.345.3975 ■ Fax 505.345.4107
www.hallenvironmental.com

Hall Environmental Analysis Laboratory, Inc. **Date:** *15-Apr-09*

CLIENT:	Western Refining Southwest, Gallup	
Project:	Qtrly Method 8260B Air Quality Permit 0633-m	**CASE NARRATIVE**
Lab Order:	0904113	

The Benzene stripper 1 and 2 (in and out) both had pHs >2.

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Apr-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Bz Stripper 1&2 IN
Lab Order:	0904113	**Collection Date:**	4/2/2009 10:00:00 AM
Project:	Qtrly Method 8260B Air Quality Permit 0633-m	**Date Received:**	4/8/2009
Lab ID:	0904113-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	2400	50		µg/L	50	4/13/2009 6:07:51 PM
Toluene	6700	200		µg/L	200	4/13/2009 5:39:12 PM
Ethylbenzene	510	50		µg/L	50	4/13/2009 6:07:51 PM
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,2,4-Trimethylbenzene	520	50		µg/L	50	4/13/2009 6:07:51 PM
1,3,5-Trimethylbenzene	160	50		µg/L	50	4/13/2009 6:07:51 PM
1,2-Dichloroethane (EDC)	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,2-Dibromoethane (EDB)	ND	50		µg/L	50	4/13/2009 6:07:51 PM
Naphthalene	280	100		µg/L	50	4/13/2009 6:07:51 PM
1-Methylnaphthalene	ND	200		µg/L	50	4/13/2009 6:07:51 PM
2-Methylnaphthalene	230	200		µg/L	50	4/13/2009 6:07:51 PM
Acetone	2600	500		µg/L	50	4/13/2009 6:07:51 PM
Bromobenzene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
Bromodichloromethane	ND	50		µg/L	50	4/13/2009 6:07:51 PM
Bromoform	ND	50		µg/L	50	4/13/2009 6:07:51 PM
Bromomethane	ND	50		µg/L	50	4/13/2009 6:07:51 PM
2-Butanone	ND	500		µg/L	50	4/13/2009 6:07:51 PM
Carbon disulfide	ND	500		µg/L	50	4/13/2009 6:07:51 PM
Carbon Tetrachloride	ND	50		µg/L	50	4/13/2009 6:07:51 PM
Chlorobenzene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
Chloroethane	ND	100		µg/L	50	4/13/2009 6:07:51 PM
Chloroform	ND	50		µg/L	50	4/13/2009 6:07:51 PM
Chloromethane	ND	50		µg/L	50	4/13/2009 6:07:51 PM
2-Chlorotoluene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
4-Chlorotoluene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
cis-1,2-DCE	ND	50		µg/L	50	4/13/2009 6:07:51 PM
cis-1,3-Dichloropropene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,2-Dibromo-3-chloropropane	ND	100		µg/L	50	4/13/2009 6:07:51 PM
Dibromochloromethane	ND	50		µg/L	50	4/13/2009 6:07:51 PM
Dibromomethane	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,2-Dichlorobenzene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,3-Dichlorobenzene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,4-Dichlorobenzene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
Dichlorodifluoromethane	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,1-Dichloroethane	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,1-Dichloroethene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,2-Dichloropropane	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,3-Dichloropropane	ND	50		µg/L	50	4/13/2009 6:07:51 PM
2,2-Dichloropropane	ND	100		µg/L	50	4/13/2009 6:07:51 PM
1,1-Dichloropropene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
Hexachlorobutadiene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
2-Hexanone	ND	500		µg/L	50	4/13/2009 6:07:51 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
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Apr-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Bz Stripper 1&2 IN
Lab Order:	0904113	**Collection Date:**	4/2/2009 10:00:00 AM
Project:	Qtrly Method 8260B Air Quality Permit 0633-m	**Date Received:**	4/8/2009
Lab ID:	0904113-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Isopropylbenzene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
4-Isopropyltoluene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
4-Methyl-2-pentanone	ND	500		µg/L	50	4/13/2009 6:07:51 PM
Methylene Chloride	ND	150		µg/L	50	4/13/2009 6:07:51 PM
n-Butylbenzene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
n-Propylbenzene	68	50		µg/L	50	4/13/2009 6:07:51 PM
sec-Butylbenzene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
Styrene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
tert-Butylbenzene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,1,1,2-Tetrachloroethane	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,1,2,2-Tetrachloroethane	ND	100		µg/L	50	4/13/2009 6:07:51 PM
Tetrachloroethene (PCE)	ND	50		µg/L	50	4/13/2009 6:07:51 PM
trans-1,2-DCE	ND	50		µg/L	50	4/13/2009 6:07:51 PM
trans-1,3-Dichloropropene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,2,3-Trichlorobenzene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,2,4-Trichlorobenzene	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,1,1-Trichloroethane	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,1,2-Trichloroethane	ND	50		µg/L	50	4/13/2009 6:07:51 PM
Trichloroethene (TCE)	ND	50		µg/L	50	4/13/2009 6:07:51 PM
Trichlorofluoromethane	ND	50		µg/L	50	4/13/2009 6:07:51 PM
1,2,3-Trichloropropane	ND	100		µg/L	50	4/13/2009 6:07:51 PM
Vinyl chloride	ND	50		µg/L	50	4/13/2009 6:07:51 PM
Xylenes, Total	3000	75		µg/L	50	4/13/2009 6:07:51 PM
Surr: 1,2-Dichloroethane-d4	90.0	68.1-123		%REC	50	4/13/2009 6:07:51 PM
Surr: 4-Bromofluorobenzene	101	53.2-145		%REC	50	4/13/2009 6:07:51 PM
Surr: Dibromofluoromethane	90.0	68.5-119		%REC	50	4/13/2009 6:07:51 PM
Surr: Toluene-d8	89.1	64-131		%REC	50	4/13/2009 6:07:51 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
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Apr-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Bz Stripper 1&2 OUT
Lab Order:	0904113	**Collection Date:**	4/2/2009 10:15:00 AM
Project:	Qtrly Method 8260B Air Quality Permit 0633-m	**Date Received:**	4/8/2009
Lab ID:	0904113-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	180	20		µg/L	20	4/13/2009 6:36:28 PM
Toluene	590	20		µg/L	20	4/13/2009 6:36:28 PM
Ethylbenzene	75	20		µg/L	20	4/13/2009 6:36:28 PM
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,2,4-Trimethylbenzene	210	20		µg/L	20	4/13/2009 6:36:28 PM
1,3,5-Trimethylbenzene	68	20		µg/L	20	4/13/2009 6:36:28 PM
1,2-Dichloroethane (EDC)	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,2-Dibromoethane (EDB)	ND	20		µg/L	20	4/13/2009 6:36:28 PM
Naphthalene	100	40		µg/L	20	4/13/2009 6:36:28 PM
1-Methylnaphthalene	96	80		µg/L	20	4/13/2009 6:36:28 PM
2-Methylnaphthalene	190	80		µg/L	20	4/13/2009 6:36:28 PM
Acetone	3000	200		µg/L	20	4/13/2009 6:36:28 PM
Bromobenzene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
Bromodichloromethane	ND	20		µg/L	20	4/13/2009 6:36:28 PM
Bromoform	ND	20		µg/L	20	4/13/2009 6:36:28 PM
Bromomethane	ND	20		µg/L	20	4/13/2009 6:36:28 PM
2-Butanone	ND	200		µg/L	20	4/13/2009 6:36:28 PM
Carbon disulfide	ND	200		µg/L	20	4/13/2009 6:36:28 PM
Carbon Tetrachloride	ND	20		µg/L	20	4/13/2009 6:36:28 PM
Chlorobenzene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
Chloroethane	ND	40		µg/L	20	4/13/2009 6:36:28 PM
Chloroform	ND	20		µg/L	20	4/13/2009 6:36:28 PM
Chloromethane	ND	20		µg/L	20	4/13/2009 6:36:28 PM
2-Chlorotoluene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
4-Chlorotoluene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
cis-1,2-DCE	ND	20		µg/L	20	4/13/2009 6:36:28 PM
cis-1,3-Dichloropropene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,2-Dibromo-3-chloropropane	ND	40		µg/L	20	4/13/2009 6:36:28 PM
Dibromochloromethane	ND	20		µg/L	20	4/13/2009 6:36:28 PM
Dibromomethane	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,2-Dichlorobenzene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,3-Dichlorobenzene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,4-Dichlorobenzene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
Dichlorodifluoromethane	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,1-Dichloroethane	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,1-Dichloroethene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,2-Dichloropropane	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,3-Dichloropropane	ND	20		µg/L	20	4/13/2009 6:36:28 PM
2,2-Dichloropropane	ND	40		µg/L	20	4/13/2009 6:36:28 PM
1,1-Dichloropropene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
Hexachlorobutadiene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
2-Hexanone	ND	200		µg/L	20	4/13/2009 6:36:28 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
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Apr-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Bz Stripper 1&2 OUT
Lab Order:	0904113	**Collection Date:**	4/2/2009 10:15:00 AM
Project:	Qtrly Method 8260B Air Quality Permit 0633-m	**Date Received:**	4/8/2009
Lab ID:	0904113-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Isopropylbenzene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
4-Isopropyltoluene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
4-Methyl-2-pentanone	ND	200		µg/L	20	4/13/2009 6:36:28 PM
Methylene Chloride	ND	60		µg/L	20	4/13/2009 6:36:28 PM
n-Butylbenzene	36	20		µg/L	20	4/13/2009 6:36:28 PM
n-Propylbenzene	26	20		µg/L	20	4/13/2009 6:36:28 PM
sec-Butylbenzene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
Styrene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
tert-Butylbenzene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,1,1,2-Tetrachloroethane	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,1,2,2-Tetrachloroethane	ND	40		µg/L	20	4/13/2009 6:36:28 PM
Tetrachloroethene (PCE)	ND	20		µg/L	20	4/13/2009 6:36:28 PM
trans-1,2-DCE	ND	20		µg/L	20	4/13/2009 6:36:28 PM
trans-1,3-Dichloropropene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,2,3-Trichlorobenzene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,2,4-Trichlorobenzene	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,1,1-Trichloroethane	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,1,2-Trichloroethane	ND	20		µg/L	20	4/13/2009 6:36:28 PM
Trichloroethene (TCE)	ND	20		µg/L	20	4/13/2009 6:36:28 PM
Trichlorofluoromethane	ND	20		µg/L	20	4/13/2009 6:36:28 PM
1,2,3-Trichloropropane	ND	40		µg/L	20	4/13/2009 6:36:28 PM
Vinyl chloride	ND	20		µg/L	20	4/13/2009 6:36:28 PM
Xylenes, Total	550	30		µg/L	20	4/13/2009 6:36:28 PM
Surr: 1,2-Dichloroethane-d4	84.4	68.1-123		%REC	20	4/13/2009 6:36:28 PM
Surr: 4-Bromofluorobenzene	104	53.2-145		%REC	20	4/13/2009 6:36:28 PM
Surr: Dibromofluoromethane	96.4	68.5-119		%REC	20	4/13/2009 6:36:28 PM
Surr: Toluene-d8	94.1	64-131		%REC	20	4/13/2009 6:36:28 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
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Apr-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	3rd Bz Stripper IN
Lab Order:	0904113	**Collection Date:**	4/2/2009 10:45:00 AM
Project:	Qtrly Method 8260B Air Quality Permit 0633-m	**Date Received:**	4/8/2009
Lab ID:	0904113-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	30000	800		µg/L	800	4/13/2009 7:05:06 PM
Toluene	31000	800		µg/L	800	4/13/2009 7:05:06 PM
Ethylbenzene	1200	100		µg/L	100	4/13/2009 7:33:44 PM
Methyl tert-butyl ether (MTBE)	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,2,4-Trimethylbenzene	960	100		µg/L	100	4/13/2009 7:33:44 PM
1,3,5-Trimethylbenzene	340	100		µg/L	100	4/13/2009 7:33:44 PM
1,2-Dichloroethane (EDC)	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,2-Dibromoethane (EDB)	ND	100		µg/L	100	4/13/2009 7:33:44 PM
Naphthalene	390	200		µg/L	100	4/13/2009 7:33:44 PM
1-Methylnaphthalene	ND	400		µg/L	100	4/13/2009 7:33:44 PM
2-Methylnaphthalene	ND	400		µg/L	100	4/13/2009 7:33:44 PM
Acetone	2000	1000		µg/L	100	4/13/2009 7:33:44 PM
Bromobenzene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
Bromodichloromethane	ND	100		µg/L	100	4/13/2009 7:33:44 PM
Bromoform	ND	100		µg/L	100	4/13/2009 7:33:44 PM
Bromomethane	ND	100		µg/L	100	4/13/2009 7:33:44 PM
2-Butanone	ND	1000		µg/L	100	4/13/2009 7:33:44 PM
Carbon disulfide	ND	1000		µg/L	100	4/13/2009 7:33:44 PM
Carbon Tetrachloride	ND	100		µg/L	100	4/13/2009 7:33:44 PM
Chlorobenzene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
Chloroethane	ND	200		µg/L	100	4/13/2009 7:33:44 PM
Chloroform	ND	100		µg/L	100	4/13/2009 7:33:44 PM
Chloromethane	ND	100		µg/L	100	4/13/2009 7:33:44 PM
2-Chlorotoluene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
4-Chlorotoluene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
cis-1,2-DCE	ND	100		µg/L	100	4/13/2009 7:33:44 PM
cis-1,3-Dichloropropene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,2-Dibromo-3-chloropropane	ND	200		µg/L	100	4/13/2009 7:33:44 PM
Dibromochloromethane	ND	100		µg/L	100	4/13/2009 7:33:44 PM
Dibromomethane	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,2-Dichlorobenzene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,3-Dichlorobenzene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,4-Dichlorobenzene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
Dichlorodifluoromethane	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,1-Dichloroethane	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,1-Dichloroethene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,2-Dichloropropane	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,3-Dichloropropane	ND	100		µg/L	100	4/13/2009 7:33:44 PM
2,2-Dichloropropane	ND	200		µg/L	100	4/13/2009 7:33:44 PM
1,1-Dichloropropene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
Hexachlorobutadiene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
2-Hexanone	ND	1000		µg/L	100	4/13/2009 7:33:44 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
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
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Hall Environmental Analysis Laboratory, Inc.

Date: *15-Apr-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	3rd Bz Stripper IN
Lab Order:	0904113	**Collection Date:**	4/2/2009 10:45:00 AM
Project:	Qtrly Method 8260B Air Quality Permit 0633-m	**Date Received:**	4/8/2009
Lab ID:	0904113-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Isopropylbenzene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
4-Isopropyltoluene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
4-Methyl-2-pentanone	ND	1000		µg/L	100	4/13/2009 7:33:44 PM
Methylene Chloride	ND	300		µg/L	100	4/13/2009 7:33:44 PM
n-Butylbenzene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
n-Propylbenzene	120	100		µg/L	100	4/13/2009 7:33:44 PM
sec-Butylbenzene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
Styrene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
tert-Butylbenzene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,1,1,2-Tetrachloroethane	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,1,2,2-Tetrachloroethane	ND	200		µg/L	100	4/13/2009 7:33:44 PM
Tetrachloroethene (PCE)	ND	100		µg/L	100	4/13/2009 7:33:44 PM
trans-1,2-DCE	ND	100		µg/L	100	4/13/2009 7:33:44 PM
trans-1,3-Dichloropropene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,2,3-Trichlorobenzene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,2,4-Trichlorobenzene	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,1,1-Trichloroethane	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,1,2-Trichloroethane	ND	100		µg/L	100	4/13/2009 7:33:44 PM
Trichloroethene (TCE)	ND	100		µg/L	100	4/13/2009 7:33:44 PM
Trichlorofluoromethane	ND	100		µg/L	100	4/13/2009 7:33:44 PM
1,2,3-Trichloropropane	ND	200		µg/L	100	4/13/2009 7:33:44 PM
Vinyl chloride	ND	100		µg/L	100	4/13/2009 7:33:44 PM
Xylenes, Total	9000	150		µg/L	100	4/13/2009 7:33:44 PM
Surr: 1,2-Dichloroethane-d4	90.9	68.1-123		%REC	100	4/13/2009 7:33:44 PM
Surr: 4-Bromofluorobenzene	111	53.2-145		%REC	100	4/13/2009 7:33:44 PM
Surr: Dibromofluoromethane	81.0	68.5-119		%REC	100	4/13/2009 7:33:44 PM
Surr: Toluene-d8	80.1	64-131		%REC	100	4/13/2009 7:33:44 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
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Apr-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	3rd BZ Stripper OUT
Lab Order:	0904113	**Collection Date:**	4/2/2009 11:00:00 AM
Project:	Qtrly Method 8260B Air Quality Permit 0633-m	**Date Received:**	4/8/2009
Lab ID:	0904113-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **HL**
Benzene	4100	50		µg/L	50	4/13/2009 8:02:23 PM
Toluene	3900	50		µg/L	50	4/13/2009 8:02:23 PM
Ethylbenzene	230	10		µg/L	10	4/13/2009 8:31:00 PM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,2,4-Trimethylbenzene	200	10		µg/L	10	4/13/2009 8:31:00 PM
1,3,5-Trimethylbenzene	75	10		µg/L	10	4/13/2009 8:31:00 PM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	4/13/2009 8:31:00 PM
Naphthalene	150	20		µg/L	10	4/13/2009 8:31:00 PM
1-Methylnaphthalene	87	40		µg/L	10	4/13/2009 8:31:00 PM
2-Methylnaphthalene	110	40		µg/L	10	4/13/2009 8:31:00 PM
Acetone	1700	100		µg/L	10	4/13/2009 8:31:00 PM
Bromobenzene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
Bromodichloromethane	ND	10		µg/L	10	4/13/2009 8:31:00 PM
Bromoform	ND	10		µg/L	10	4/13/2009 8:31:00 PM
Bromomethane	ND	10		µg/L	10	4/13/2009 8:31:00 PM
2-Butanone	120	100		µg/L	10	4/13/2009 8:31:00 PM
Carbon disulfide	ND	100		µg/L	10	4/13/2009 8:31:00 PM
Carbon Tetrachloride	ND	10		µg/L	10	4/13/2009 8:31:00 PM
Chlorobenzene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
Chloroethane	ND	20		µg/L	10	4/13/2009 8:31:00 PM
Chloroform	ND	10		µg/L	10	4/13/2009 8:31:00 PM
Chloromethane	ND	10		µg/L	10	4/13/2009 8:31:00 PM
2-Chlorotoluene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
4-Chlorotoluene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
cis-1,2-DCE	ND	10		µg/L	10	4/13/2009 8:31:00 PM
cis-1,3-Dichloropropene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	4/13/2009 8:31:00 PM
Dibromochloromethane	ND	10		µg/L	10	4/13/2009 8:31:00 PM
Dibromomethane	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,2-Dichlorobenzene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,3-Dichlorobenzene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,4-Dichlorobenzene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
Dichlorodifluoromethane	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,1-Dichloroethane	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,1-Dichloroethene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,2-Dichloropropane	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,3-Dichloropropane	ND	10		µg/L	10	4/13/2009 8:31:00 PM
2,2-Dichloropropane	ND	20		µg/L	10	4/13/2009 8:31:00 PM
1,1-Dichloropropene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
Hexachlorobutadiene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
2-Hexanone	ND	100		µg/L	10	4/13/2009 8:31:00 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
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Apr-09*

CLIENT: Western Refining Southwest, Gallup
Lab Order: 0904113
Project: Qtrly Method 8260B Air Quality Permit 0633-m
Lab ID: 0904113-04

Client Sample ID: 3rd BZ Stripper OUT
Collection Date: 4/2/2009 11:00:00 AM
Date Received: 4/8/2009
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
						Analyst: HL
EPA METHOD 8260B: VOLATILES						
Isopropylbenzene	20	10		µg/L	10	4/13/2009 8:31:00 PM
4-Isopropyltoluene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
4-Methyl-2-pentanone	ND	100		µg/L	10	4/13/2009 8:31:00 PM
Methylene Chloride	ND	30		µg/L	10	4/13/2009 8:31:00 PM
n-Butylbenzene	13	10		µg/L	10	4/13/2009 8:31:00 PM
n-Propylbenzene	24	10		µg/L	10	4/13/2009 8:31:00 PM
sec-Butylbenzene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
Styrene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
tert-Butylbenzene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	4/13/2009 8:31:00 PM
Tetrachloroethene (PCE)	ND	10		µg/L	10	4/13/2009 8:31:00 PM
trans-1,2-DCE	ND	10		µg/L	10	4/13/2009 8:31:00 PM
trans-1,3-Dichloropropene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,1,1-Trichloroethane	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,1,2-Trichloroethane	ND	10		µg/L	10	4/13/2009 8:31:00 PM
Trichloroethene (TCE)	ND	10		µg/L	10	4/13/2009 8:31:00 PM
Trichlorofluoromethane	ND	10		µg/L	10	4/13/2009 8:31:00 PM
1,2,3-Trichloropropane	ND	20		µg/L	10	4/13/2009 8:31:00 PM
Vinyl chloride	ND	10		µg/L	10	4/13/2009 8:31:00 PM
Xylenes, Total	1800	15		µg/L	10	4/13/2009 8:31:00 PM
Surr: 1,2-Dichloroethane-d4	91.5	68.1-123		%REC	10	4/13/2009 8:31:00 PM
Surr: 4-Bromofluorobenzene	98.0	53.2-145		%REC	10	4/13/2009 8:31:00 PM
Surr: Dibromofluoromethane	80.7	68.5-119		%REC	50	4/13/2009 8:02:23 PM
Surr: Toluene-d8	93.9	64-131		%REC	10	4/13/2009 8:31:00 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
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: Qtrly Method 8260B Air Quality Permit 0633-m **Work Order:** 0904113

Method: EPA Method 8260B: VOLATILES
Sample ID: 5ml rb *MBLK* Batch ID: **R33223** Analysis Date: 4/13/2009 8:34:24 AM

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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						
1,2,4-Trimethylbenzene	ND	µg/L	1.0						
1,3,5-Trimethylbenzene	ND	µg/L	1.0						
1,2-Dichloroethane (EDC)	ND	µg/L	1.0						
1,2-Dibromoethane (EDB)	ND	µg/L	1.0						
Naphthalene	ND	µg/L	2.0						
1-Methylnaphthalene	ND	µg/L	4.0						
2-Methylnaphthalene	ND	µg/L	4.0						
Acetone	ND	µg/L	10						
Bromobenzene	ND	µg/L	1.0						
Bromodichloromethane	ND	µg/L	1.0						
Bromoform	ND	µg/L	1.0						
Bromomethane	ND	µg/L	1.0						
2-Butanone	ND	µg/L	10						
Carbon disulfide	ND	µg/L	10						
Carbon Tetrachloride	ND	µg/L	1.0						
Chlorobenzene	ND	µg/L	1.0						
Chloroethane	ND	µg/L	2.0						
Chloroform	ND	µg/L	1.0						
Chloromethane	ND	µg/L	1.0						
2-Chlorotoluene	ND	µg/L	1.0						
4-Chlorotoluene	ND	µg/L	1.0						
cis-1,2-DCE	ND	µg/L	1.0						
cis-1,3-Dichloropropene	ND	µg/L	1.0						
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0						
Dibromochloromethane	ND	µg/L	1.0						
Dibromomethane	ND	µg/L	1.0						
1,2-Dichlorobenzene	ND	µg/L	1.0						
1,3-Dichlorobenzene	ND	µg/L	1.0						
1,4-Dichlorobenzene	ND	µg/L	1.0						
Dichlorodifluoromethane	ND	µg/L	1.0						
1,1-Dichloroethane	ND	µg/L	1.0						
1,1-Dichloroethene	ND	µg/L	1.0						
1,2-Dichloropropane	ND	µg/L	1.0						
1,3-Dichloropropane	ND	µg/L	1.0						
2,2-Dichloropropane	ND	µg/L	2.0						
1,1-Dichloropropene	ND	µg/L	1.0						
Hexachlorobutadiene	ND	µg/L	1.0						
2-Hexanone	ND	µg/L	10						
Isopropylbenzene	ND	µg/L	1.0						
4-Isopropyltoluene	ND	µg/L	1.0						

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Qtrly Method 8260B Air Quality Permit 0633-m **Work Order:** 0904113

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: 5ml rb		*MBLK*			Batch ID:	**R33223**	Analysis Date:	4/13/2009 8:34:24 AM	
4-Methyl-2-pentanone	ND	µg/L	10						
Methylene Chloride	ND	µg/L	3.0						
n-Butylbenzene	ND	µg/L	1.0						
n-Propylbenzene	ND	µg/L	1.0						
sec-Butylbenzene	ND	µg/L	1.0						
Styrene	ND	µg/L	1.0						
tert-Butylbenzene	ND	µg/L	1.0						
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0						
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0						
Tetrachloroethene (PCE)	ND	µg/L	1.0						
trans-1,2-DCE	ND	µg/L	1.0						
trans-1,3-Dichloropropene	ND	µg/L	1.0						
1,2,3-Trichlorobenzene	ND	µg/L	1.0						
1,2,4-Trichlorobenzene	ND	µg/L	1.0						
1,1,1-Trichloroethane	ND	µg/L	1.0						
1,1,2-Trichloroethane	ND	µg/L	1.0						
Trichloroethene (TCE)	ND	µg/L	1.0						
Trichlorofluoromethane	ND	µg/L	1.0						
1,2,3-Trichloropropane	ND	µg/L	2.0						
Vinyl chloride	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	1.5						
Sample ID: 100ng lcs		*LCS*			Batch ID:	**R33223**	Analysis Date:	4/13/2009 9:31:27 AM	
Benzene	17.68	µg/L	1.0	88.4	88	116			
Toluene	18.72	µg/L	1.0	93.6	82.9	112			
Chlorobenzene	21.82	µg/L	1.0	109	71.4	133			
1,1-Dichloroethene	21.49	µg/L	1.0	107	97.9	140			
Trichloroethene (TCE)	18.38	µg/L	1.0	91.9	90.5	112			

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: 4/8/2009

Work Order Number 0904113

Received by: TLS

Sample ID labels checked by: TS
Initials

Checklist completed by: _____ Signature 4/8/09 Date

Matrix:

Carrier name: UPS

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?	5°	*<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 3833
email or Fax#: 505 722 0210
QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)
☐ Other
☐ EDD (Type)

Turn-Around Time:
☐ Standard ☐ Rush

Project Name: QUARTERLY METHOD 8260B 2ND QT
AIR QUALITY PERMIT 0633-M7
Project #:

Project Manager: GAURAV, RAJEN

Sampler: ALVIN DORSEY
On Ice: ☒ Yes ☐ No
Sample Temperature: 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. 0904113	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) All VOC	8270 (Semi-VOA)					Air Bubbles (Y or N)
04-02-09	1000	Air	Bz Stripper 1&2 IN	3-40 ml	HCl	1										X						
04-02-09	1015		Bz Stripper 1&2 OUT	3-40 ml	HCl	2										X						
04-02-09	1045		3rd Bz Stripper IN	3-40 ml	HCl	3										X						
04-02-09	1100		3rd Bz Stripper OUT	3-40 ml	HCl	4										X						

Date:	Time:	Relinquished by:	Received by:	Date	Time
4-07-09 ~~4-6-09~~	12:00	Alvin D			
Date:	Time:	Relinquished by:	Received by:	4/3/09	1030

Remarks:

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.

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Wednesday, April 22, 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

Order No.: 0904114

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 4 sample(s) on 4/8/2009 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

ACCREDITED IN ACCORDANCE WITH nelac

4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109
505.345.3975 ■ Fax 505.345.4107
www.hallenvironmental.com

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Apr-09*

CLIENT: Western Refining Southwest, Gallup
Project: BZ Strippers
Lab Order: 0904114

Lab ID: 0904114-01
Client Sample ID: 3RD BZ Stripper-IN
Collection Date: 4/6/2009 9:15:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Methyl tert-butyl ether (MTBE)	ND	2500		µg/L	1000	4/15/2009 11:54:45 AM
Benzene	37000	1000		µg/L	1000	4/15/2009 11:54:45 AM
Toluene	41000	1000		µg/L	1000	4/15/2009 11:54:45 AM
Ethylbenzene	1700	1000		µg/L	1000	4/15/2009 11:54:45 AM
Xylenes, Total	12000	2000		µg/L	1000	4/15/2009 11:54:45 AM
Surr: 4-Bromofluorobenzene	92.9	65.9-130		%REC	1000	4/15/2009 11:54:45 AM

Lab ID: 0904114-02
Client Sample ID: 3RD BZ Stripper-OUT
Collection Date: 4/6/2009 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	130		µg/L	50	4/15/2009 12:25:19 PM
Benzene	8900	200		µg/L	200	4/16/2009 11:40:34 AM
Toluene	8500	200		µg/L	200	4/16/2009 11:40:34 AM
Ethylbenzene	290	50		µg/L	50	4/15/2009 12:25:19 PM
Xylenes, Total	2300	100		µg/L	50	4/15/2009 12:25:19 PM
Surr: 4-Bromofluorobenzene	97.7	65.9-130		%REC	50	4/15/2009 12:25:19 PM

Lab ID: 0904114-03
Client Sample ID: BZ Stripper 1&2 IN
Collection Date: 4/6/2009 9:55:00 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	4/15/2009 12:55:53 PM
Benzene	11000	200		µg/L	200	4/15/2009 12:55:53 PM
Toluene	20000	400		µg/L	400	4/16/2009 12:11:01 PM
Ethylbenzene	1300	200		µg/L	200	4/15/2009 12:55:53 PM
Xylenes, Total	8300	400		µg/L	200	4/15/2009 12:55:53 PM
Surr: 4-Bromofluorobenzene	96.7	65.9-130		%REC	200	4/15/2009 12:55:53 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
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *22-Apr-09*

CLIENT: Western Refining Southwest, Gallup
Project: BZ Strippers

Lab Order: 0904114

Lab ID: 0904114-04
Client Sample ID: BZ Stripper 1&2 OUT

Collection Date: 4/6/2009 10:10:00 AM
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	4/15/2009 1:26:14 PM
Benzene	3900	50		µg/L	50	4/15/2009 1:26:14 PM
Toluene	12000	200		µg/L	200	4/16/2009 12:41:38 PM
Ethylbenzene	1200	50		µg/L	50	4/15/2009 1:26:14 PM
Xylenes, Total	7400	100		µg/L	50	4/15/2009 1:26:14 PM
Surr: 4-Bromofluorobenzene	111	65.9-130		%REC	50	4/15/2009 1:26:14 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
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:** 0904114

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles									
Sample ID: 5ML RB		*MBLK*			Batch ID:	**R33261**	Analysis Date:		4/15/2009 9:22:06 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:	**R33261**	Analysis Date:		4/16/2009 4:50:43 AM
Methyl tert-butyl ether (MTBE)	18.77	µg/L	2.5	93.9	51.2	138			
Benzene	20.72	µg/L	1.0	104	85.9	113			
Toluene	21.35	µg/L	1.0	107	86.4	113			
Ethylbenzene	20.68	µg/L	1.0	103	83.5	118			
Xylenes, Total	60.64	µg/L	2.0	101	83.4	122			
Sample ID: 100NG BTEX LCSD		*LCSD*			Batch ID:	**R33261**	Analysis Date:		4/16/2009 5:21:06 AM
Methyl tert-butyl ether (MTBE)	19.31	µg/L	2.5	96.5	51.2	138	2.80	28	
Benzene	20.83	µg/L	1.0	104	85.9	113	0.539	27	
Toluene	21.22	µg/L	1.0	106	86.4	113	0.601	19	
Ethylbenzene	20.69	µg/L	1.0	103	83.5	118	0.0290	10	
Xylenes, Total	61.03	µg/L	2.0	102	83.4	122	0.638	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: 4/8/2009

Work Order Number 0904114

Received by: TLS

Sample ID labels checked by: _____ Initials

Checklist completed by: _____ Signature 4/8/09 Date

Matrix: Carrier name: UPS

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?	5°	*<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 3833
email or Fax#: 505 722 0210
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
On Ice: ☒ Yes ☐ No
Sample Temperature: 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. 0904111	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 BETEX-MTBE				Air Bubbles (Y or N)
04-06-09	0915	Aq	3rd Bz Stripper-IN			1												X				
04-06-09	0930		3rd Bz Stripper-OUT			2												X				
04-06-09	0955		Bz Stripper 1&2 IN			3												X				
04-06-09	1010		Bz Stripper 1&2 OUT			4												X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
4-07-09	12:00	[signature]	[signature]	4/8/09	1030
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks:

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.

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Thursday, May 07, 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

Order No.: 0904337

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 4 sample(s) on 4/21/2009 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

ACCREDITED IN ACCORDANCE WITH nelac

4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109
505.345.3975 ■ Fax 505.345.4107
www.hallenvironmental.com

Hall Environmental Analysis Laboratory, Inc.

Date: *07-May-09*

CLIENT: Western Refining Southwest, Gallup
Project: BZ Strippers
Lab Order: 0904337

Lab ID: 0904337-01
Client Sample ID: 3RD BZ Stripper-IN
Collection Date: 4/17/2009 8:00:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: HL
Benzene	8200000	200000		µg/L	200000	4/29/2009 4:52:43 PM
Toluene	2500000	40000		µg/L	40000	4/29/2009 5:23:01 PM
Ethylbenzene	2600	100		µg/L	100	4/28/2009 8:21:04 PM
Methyl tert-butyl ether (MTBE)	ND	100		µg/L	100	4/28/2009 8:21:04 PM
Xylenes, Total	12000	200		µg/L	100	4/28/2009 8:21:04 PM
Surr: 4-Bromofluorobenzene	99.7	80.4-119		%REC	100	4/28/2009 8:21:04 PM

Lab ID: 0904337-02
Client Sample ID: 3RD BZ Stripper-OUT
Collection Date: 4/17/2009 8:15:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: HL
Benzene	120000	2000	H	µg/L	2000	5/1/2009 2:49:33 PM
Toluene	130000	2000	H	µg/L	2000	5/1/2009 2:49:33 PM
Ethylbenzene	260	20		µg/L	20	4/28/2009 9:19:18 PM
Methyl tert-butyl ether (MTBE)	ND	20		µg/L	20	4/28/2009 9:19:18 PM
Xylenes, Total	1100	40		µg/L	20	4/28/2009 9:19:18 PM
Surr: 4-Bromofluorobenzene	104	80.4-119		%REC	20	4/28/2009 9:19:18 PM

Lab ID: 0904337-03
Client Sample ID: BZ Stripper 1&2 IN
Collection Date: 4/17/2009 9:10:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: HL
Benzene	33000	500		µg/L	500	4/29/2009 6:50:47 PM
Toluene	22000	250		µg/L	250	4/28/2009 9:48:22 PM
Ethylbenzene	160	50		µg/L	50	4/28/2009 10:17:19 PM
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	50	4/28/2009 10:17:19 PM
Xylenes, Total	920	100		µg/L	50	4/28/2009 10:17:19 PM
Surr: 4-Bromofluorobenzene	96.4	80.4-119		%REC	50	4/28/2009 10:17:19 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
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *07-May-09*

CLIENT: Western Refining Southwest, Gallup
Project: BZ Strippers

Lab Order: 0904337

Lab ID: 0904337-04
Client Sample ID: BZ Stripper 1&2 OUT

Collection Date: 4/17/2009 9:20:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: HL
Benzene	18000	400		µg/L	400	4/29/2009 7:19:55 PM
Toluene	17000	400		µg/L	400	4/29/2009 7:19:55 PM
Ethylbenzene	180	50		µg/L	50	4/28/2009 10:46:28 PM
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	50	4/28/2009 10:46:28 PM
Xylenes, Total	1100	100		µg/L	50	4/28/2009 10:46:28 PM
Surr: 4-Bromofluorobenzene	94.9	80.4-119		%REC	50	4/28/2009 10:46:28 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
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: 0904337

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260: Volatiles Short List									
Sample ID: 5ml rb		*MBLK*			Batch ID:	**R33452**	Analysis Date:	4/28/2009 10:38:31 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: 5ml rb		*MBLK*			Batch ID:	**R33464**	Analysis Date:	4/29/2009 1:40:24 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: 5ml rb		*MBLK*			Batch ID:	**R33496**	Analysis Date:	5/1/2009 8:54:14 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: 100ng lcs		*LCS*			Batch ID:	**R33452**	Analysis Date:	4/28/2009 11:36:45 AM	
Benzene	21.00	µg/L	1.0	105	86.8	120			
Toluene	20.22	µg/L	1.0	101	64.1	127			
Sample ID: 100ng lcs_b		*LCS*			Batch ID:	**R33464**	Analysis Date:	4/29/2009 3:53:13 PM	
Benzene	22.00	µg/L	1.0	110	86.8	120			
Toluene	18.99	µg/L	1.0	95.0	64.1	127			
Sample ID: 100ng lcs_b		*LCS*			Batch ID:	**R33496**	Analysis Date:	5/1/2009 10:58:26 AM	
Benzene	19.52	µg/L	1.0	97.6	86.8	120			
Toluene	19.53	µg/L	1.0	97.7	64.1	127			

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: 4/21/2009

Work Order Number 0904337

Received by: AT

Sample ID labels checked by: _____ Initials

Checklist completed by: _____ Signature 4/21/09 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°	*<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 3833
email or Fax#: 505 722 0210

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

On Ice: ☑ Yes ☐ No

Sample Temperature: 2

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. 0904334	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)
04-17-09	0800	Air	3rd Bz Stripper-IN	3-40ml		1												X				
04-17-09	0815		3rd Bz Stripper-OUT	3-40 ml		2												X				
04-17-09	0910		Bz Stripper 12 IN	3-40 ml		3												X				
04-17-09	0920		Bz Stripper 12 OUT	3-40 ml		4												X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
04-21-09		Alvin		4/21/09	1610
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks:

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

COVER LETTER

Friday, May 01, 2009

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

TEL: (505) 722-0227
FAX (505) 722-0210

RE: Qtrly Method 8260B Air Quality Permit 0633-M7

Order No.: 0904335

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 4 sample(s) on 4/21/2009 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

ACCREDITED IN ACCORDANCE WITH nelac

4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109
505.345.3975 ■ Fax 505.345.4107
www.hallenvironmental.com

Hall Environmental Analysis Laboratory, Inc.

Date: *01-May-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	3RD Bz Stripper-IN
Lab Order:	0904335	**Collection Date:**	4/20/2009 8:15:00 AM
Project:	Qtrly Method 8260B Air Quality Permit 0633-M	**Date Received:**	4/21/2009
Lab ID:	0904335-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	43000	800		µg/L	800	4/24/2009 5:52:03 PM
Toluene	32000	500		µg/L	500	4/24/2009 3:30:36 AM
Ethylbenzene	1300	50		µg/L	50	4/24/2009 3:59:18 AM
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	50	4/24/2009 3:59:18 AM
1,2,4-Trimethylbenzene	690	50		µg/L	50	4/24/2009 3:59:18 AM
1,3,5-Trimethylbenzene	270	50		µg/L	50	4/24/2009 3:59:18 AM
1,2-Dichloroethane (EDC)	ND	50		µg/L	50	4/24/2009 3:59:18 AM
1,2-Dibromoethane (EDB)	ND	50		µg/L	50	4/24/2009 3:59:18 AM
Naphthalene	200	100		µg/L	50	4/24/2009 3:59:18 AM
1-Methylnaphthalene	ND	200		µg/L	50	4/24/2009 3:59:18 AM
2-Methylnaphthalene	ND	200		µg/L	50	4/24/2009 3:59:18 AM
Acetone	1900	500		µg/L	50	4/24/2009 3:59:18 AM
Bromobenzene	ND	50		µg/L	50	4/24/2009 3:59:18 AM
Bromodichloromethane	ND	50		µg/L	50	4/24/2009 3:59:18 AM
Bromoform	ND	50		µg/L	50	4/24/2009 3:59:18 AM
Bromomethane	ND	50		µg/L	50	4/24/2009 3:59:18 AM
2-Butanone	ND	500		µg/L	50	4/24/2009 3:59:18 AM
Carbon disulfide	ND	500		µg/L	50	4/24/2009 3:59:18 AM
Carbon Tetrachloride	ND	50		µg/L	50	4/24/2009 3:59:18 AM
Chlorobenzene	ND	50		µg/L	50	4/24/2009 3:59:18 AM
Chloroethane	ND	100		µg/L	50	4/24/2009 3:59:18 AM
Chloroform	ND	50		µg/L	50	4/24/2009 3:59:18 AM
Chloromethane	ND	50		µg/L	50	4/24/2009 3:59:18 AM
2-Chlorotoluene	ND	50		µg/L	50	4/24/2009 3:59:18 AM
4-Chlorotoluene	ND	50		µg/L	50	4/24/2009 3:59:18 AM
cis-1,2-DCE	ND	50		µg/L	50	4/24/2009 3:59:18 AM
cis-1,3-Dichloropropene	ND	50		µg/L	50	4/24/2009 3:59:18 AM
1,2-Dibromo-3-chloropropane	ND	100		µg/L	50	4/24/2009 3:59:18 AM
Dibromochloromethane	ND	50		µg/L	50	4/24/2009 3:59:18 AM
Dibromomethane	ND	50		µg/L	50	4/24/2009 3:59:18 AM
1,2-Dichlorobenzene	ND	50		µg/L	50	4/24/2009 3:59:18 AM
1,3-Dichlorobenzene	ND	50		µg/L	50	4/24/2009 3:59:18 AM
1,4-Dichlorobenzene	ND	50		µg/L	50	4/24/2009 3:59:18 AM
Dichlorodifluoromethane	ND	50		µg/L	50	4/24/2009 3:59:18 AM
1,1-Dichloroethane	ND	50		µg/L	50	4/24/2009 3:59:18 AM
1,1-Dichloroethene	ND	50		µg/L	50	4/24/2009 3:59:18 AM
1,2-Dichloropropane	ND	50		µg/L	50	4/24/2009 3:59:18 AM
1,3-Dichloropropane	ND	50		µg/L	50	4/24/2009 3:59:18 AM
2,2-Dichloropropane	ND	100		µg/L	50	4/24/2009 3:59:18 AM
1,1-Dichloropropene	ND	50		µg/L	50	4/24/2009 3:59:18 AM
Hexachlorobutadiene	ND	50		µg/L	50	4/24/2009 3:59:18 AM
2-Hexanone	ND	500		µg/L	50	4/24/2009 3:59:18 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		

Hall Environmental Analysis Laboratory, Inc.

Date: *01-May-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	3RD Bz Stripper-IN
Lab Order:	0904335	**Collection Date:**	4/20/2009 8:15:00 AM
Project:	Qtrly Method 8260B Air Quality Permit 0633-M	**Date Received:**	4/21/2009
Lab ID:	0904335-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Isopropylbenzene	120	50		µg/L	50	4/24/2009 3:59:18 AM
4-Isopropyltoluene	ND	50		µg/L	50	4/24/2009 3:59:18 AM
4-Methyl-2-pentanone	ND	500		µg/L	50	4/24/2009 3:59:18 AM
Methylene Chloride	ND	150		µg/L	50	4/24/2009 3:59:18 AM
n-Butylbenzene	ND	50		µg/L	50	4/24/2009 3:59:18 AM
n-Propylbenzene	120	50		µg/L	50	4/24/2009 3:59:18 AM
sec-Butylbenzene	ND	50		µg/L	50	4/24/2009 3:59:18 AM
Styrene	ND	50		µg/L	50	4/24/2009 3:59:18 AM
tert-Butylbenzene	ND	50		µg/L	50	4/24/2009 3:59:18 AM
1,1,1,2-Tetrachloroethane	ND	50		µg/L	50	4/24/2009 3:59:18 AM
1,1,2,2-Tetrachloroethane	ND	100		µg/L	50	4/24/2009 3:59:18 AM
Tetrachloroethene (PCE)	ND	50		µg/L	50	4/24/2009 3:59:18 AM
trans-1,2-DCE	ND	50		µg/L	50	4/24/2009 3:59:18 AM
trans-1,3-Dichloropropene	ND	50		µg/L	50	4/24/2009 3:59:18 AM
1,2,3-Trichlorobenzene	ND	50		µg/L	50	4/24/2009 3:59:18 AM
1,2,4-Trichlorobenzene	ND	50		µg/L	50	4/24/2009 3:59:18 AM
1,1,1-Trichloroethane	ND	50		µg/L	50	4/24/2009 3:59:18 AM
1,1,2-Trichloroethane	ND	50		µg/L	50	4/24/2009 3:59:18 AM
Trichloroethene (TCE)	ND	50		µg/L	50	4/24/2009 3:59:18 AM
Trichlorofluoromethane	ND	50		µg/L	50	4/24/2009 3:59:18 AM
1,2,3-Trichloropropane	ND	100		µg/L	50	4/24/2009 3:59:18 AM
Vinyl chloride	ND	50		µg/L	50	4/24/2009 3:59:18 AM
Xylenes, Total	8500	75		µg/L	50	4/24/2009 3:59:18 AM
Surr: 1,2-Dichloroethane-d4	84.7	68.1-123		%REC	50	4/24/2009 3:59:18 AM
Surr: 4-Bromofluorobenzene	99.9	53.2-145		%REC	50	4/24/2009 3:59:18 AM
Surr: Dibromofluoromethane	92.9	68.5-119		%REC	500	4/24/2009 3:30:36 AM
Surr: Toluene-d8	101	64-131		%REC	50	4/24/2009 3:59:18 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		

Hall Environmental Analysis Laboratory, Inc.

Date: *01-May-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	3RD Bz Stripper-OUT
Lab Order:	0904335	**Collection Date:**	4/20/2009 8:30:00 AM
Project:	Qtrly Method 8260B Air Quality Permit 0633-M	**Date Received:**	4/21/2009
Lab ID:	0904335-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	5200	100		µg/L	100	4/24/2009 6:20:53 PM
Toluene	5900	100		µg/L	100	4/24/2009 6:20:53 PM
Ethylbenzene	90	10		µg/L	10	4/24/2009 4:56:38 AM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	4/24/2009 4:56:38 AM
1,2,4-Trimethylbenzene	63	10		µg/L	10	4/24/2009 4:56:38 AM
1,3,5-Trimethylbenzene	17	10		µg/L	10	4/24/2009 4:56:38 AM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	4/24/2009 4:56:38 AM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	4/24/2009 4:56:38 AM
Naphthalene	40	20		µg/L	10	4/24/2009 4:56:38 AM
1-Methylnaphthalene	ND	40		µg/L	10	4/24/2009 4:56:38 AM
2-Methylnaphthalene	ND	40		µg/L	10	4/24/2009 4:56:38 AM
Acetone	1300	100		µg/L	10	4/24/2009 4:56:38 AM
Bromobenzene	ND	10		µg/L	10	4/24/2009 4:56:38 AM
Bromodichloromethane	ND	10		µg/L	10	4/24/2009 4:56:38 AM
Bromoform	ND	10		µg/L	10	4/24/2009 4:56:38 AM
Bromomethane	ND	10		µg/L	10	4/24/2009 4:56:38 AM
2-Butanone	ND	100		µg/L	10	4/24/2009 4:56:38 AM
Carbon disulfide	ND	100		µg/L	10	4/24/2009 4:56:38 AM
Carbon Tetrachloride	ND	10		µg/L	10	4/24/2009 4:56:38 AM
Chlorobenzene	ND	10		µg/L	10	4/24/2009 4:56:38 AM
Chloroethane	ND	20		µg/L	10	4/24/2009 4:56:38 AM
Chloroform	ND	10		µg/L	10	4/24/2009 4:56:38 AM
Chloromethane	ND	10		µg/L	10	4/24/2009 4:56:38 AM
2-Chlorotoluene	ND	10		µg/L	10	4/24/2009 4:56:38 AM
4-Chlorotoluene	ND	10		µg/L	10	4/24/2009 4:56:38 AM
cis-1,2-DCE	ND	10		µg/L	10	4/24/2009 4:56:38 AM
cis-1,3-Dichloropropene	ND	10		µg/L	10	4/24/2009 4:56:38 AM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	4/24/2009 4:56:38 AM
Dibromochloromethane	ND	10		µg/L	10	4/24/2009 4:56:38 AM
Dibromomethane	ND	10		µg/L	10	4/24/2009 4:56:38 AM
1,2-Dichlorobenzene	ND	10		µg/L	10	4/24/2009 4:56:38 AM
1,3-Dichlorobenzene	ND	10		µg/L	10	4/24/2009 4:56:38 AM
1,4-Dichlorobenzene	ND	10		µg/L	10	4/24/2009 4:56:38 AM
Dichlorodifluoromethane	ND	10		µg/L	10	4/24/2009 4:56:38 AM
1,1-Dichloroethane	ND	10		µg/L	10	4/24/2009 4:56:38 AM
1,1-Dichloroethene	ND	10		µg/L	10	4/24/2009 4:56:38 AM
1,2-Dichloropropane	ND	10		µg/L	10	4/24/2009 4:56:38 AM
1,3-Dichloropropane	ND	10		µg/L	10	4/24/2009 4:56:38 AM
2,2-Dichloropropane	ND	20		µg/L	10	4/24/2009 4:56:38 AM
1,1-Dichloropropene	ND	10		µg/L	10	4/24/2009 4:56:38 AM
Hexachlorobutadiene	ND	10		µg/L	10	4/24/2009 4:56:38 AM
2-Hexanone	ND	100		µg/L	10	4/24/2009 4:56:38 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		

Hall Environmental Analysis Laboratory, Inc.

Date: *01-May-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	3RD Bz Stripper-OUT
Lab Order:	0904335	**Collection Date:**	4/20/2009 8:30:00 AM
Project:	Qtrly Method 8260B Air Quality Permit 0633-M	**Date Received:**	4/21/2009
Lab ID:	0904335-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Isopropylbenzene	ND	10		µg/L	10	4/24/2009 4:56:38 AM
4-Isopropyltoluene	ND	10		µg/L	10	4/24/2009 4:56:38 AM
4-Methyl-2-pentanone	ND	100		µg/L	10	4/24/2009 4:56:38 AM
Methylene Chloride	ND	30		µg/L	10	4/24/2009 4:56:38 AM
n-Butylbenzene	ND	10		µg/L	10	4/24/2009 4:56:38 AM
n-Propylbenzene	ND	10		µg/L	10	4/24/2009 4:56:38 AM
sec-Butylbenzene	ND	10		µg/L	10	4/24/2009 4:56:38 AM
Styrene	ND	10		µg/L	10	4/24/2009 4:56:38 AM
tert-Butylbenzene	ND	10		µg/L	10	4/24/2009 4:56:38 AM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	4/24/2009 4:56:38 AM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	4/24/2009 4:56:38 AM
Tetrachloroethene (PCE)	ND	10		µg/L	10	4/24/2009 4:56:38 AM
trans-1,2-DCE	ND	10		µg/L	10	4/24/2009 4:56:38 AM
trans-1,3-Dichloropropene	ND	10		µg/L	10	4/24/2009 4:56:38 AM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	4/24/2009 4:56:38 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	4/24/2009 4:56:38 AM
1,1,1-Trichloroethane	ND	10		µg/L	10	4/24/2009 4:56:38 AM
1,1,2-Trichloroethane	ND	10		µg/L	10	4/24/2009 4:56:38 AM
Trichloroethene (TCE)	ND	10		µg/L	10	4/24/2009 4:56:38 AM
Trichlorofluoromethane	ND	10		µg/L	10	4/24/2009 4:56:38 AM
1,2,3-Trichloropropane	ND	20		µg/L	10	4/24/2009 4:56:38 AM
Vinyl chloride	ND	10		µg/L	10	4/24/2009 4:56:38 AM
Xylenes, Total	540	15		µg/L	10	4/24/2009 4:56:38 AM
Surr: 1,2-Dichloroethane-d4	89.0	68.1-123		%REC	10	4/24/2009 4:56:38 AM
Surr: 4-Bromofluorobenzene	92.4	53.2-145		%REC	10	4/24/2009 4:56:38 AM
Surr: Dibromofluoromethane	87.4	68.5-119		%REC	100	4/24/2009 6:20:53 PM
Surr: Toluene-d8	93.3	64-131		%REC	10	4/24/2009 4:56:38 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		

Hall Environmental Analysis Laboratory, Inc.

Date: *01-May-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Bz Stripper 1&2-IN
Lab Order:	0904335	**Collection Date:**	4/20/2009 9:25:00 AM
Project:	Qtrly Method 8260B Air Quality Permit 0633-M	**Date Received:**	4/21/2009
Lab ID:	0904335-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	13000	200		µg/L	200	4/24/2009 5:25:20 AM
Toluene	23000	400		µg/L	400	4/24/2009 6:49:35 PM
Ethylbenzene	1600	50		µg/L	50	4/24/2009 5:54:00 AM
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	50	4/24/2009 5:54:00 AM
1,2,4-Trimethylbenzene	1800	50		µg/L	50	4/24/2009 5:54:00 AM
1,3,5-Trimethylbenzene	700	50		µg/L	50	4/24/2009 5:54:00 AM
1,2-Dichloroethane (EDC)	ND	50		µg/L	50	4/24/2009 5:54:00 AM
1,2-Dibromoethane (EDB)	ND	50		µg/L	50	4/24/2009 5:54:00 AM
Naphthalene	470	100		µg/L	50	4/24/2009 5:54:00 AM
1-Methylnaphthalene	300	200		µg/L	50	4/24/2009 5:54:00 AM
2-Methylnaphthalene	460	200		µg/L	50	4/24/2009 5:54:00 AM
Acetone	1100	500		µg/L	50	4/24/2009 5:54:00 AM
Bromobenzene	ND	50		µg/L	50	4/24/2009 5:54:00 AM
Bromodichloromethane	ND	50		µg/L	50	4/24/2009 5:54:00 AM
Bromoform	ND	50		µg/L	50	4/24/2009 5:54:00 AM
Bromomethane	ND	50		µg/L	50	4/24/2009 5:54:00 AM
2-Butanone	ND	500		µg/L	50	4/24/2009 5:54:00 AM
Carbon disulfide	ND	500		µg/L	50	4/24/2009 5:54:00 AM
Carbon Tetrachloride	ND	50		µg/L	50	4/24/2009 5:54:00 AM
Chlorobenzene	ND	50		µg/L	50	4/24/2009 5:54:00 AM
Chloroethane	ND	100		µg/L	50	4/24/2009 5:54:00 AM
Chloroform	ND	50		µg/L	50	4/24/2009 5:54:00 AM
Chloromethane	ND	50		µg/L	50	4/24/2009 5:54:00 AM
2-Chlorotoluene	ND	50		µg/L	50	4/24/2009 5:54:00 AM
4-Chlorotoluene	ND	50		µg/L	50	4/24/2009 5:54:00 AM
cis-1,2-DCE	ND	50		µg/L	50	4/24/2009 5:54:00 AM
cis-1,3-Dichloropropene	ND	50		µg/L	50	4/24/2009 5:54:00 AM
1,2-Dibromo-3-chloropropane	ND	100		µg/L	50	4/24/2009 5:54:00 AM
Dibromochloromethane	ND	50		µg/L	50	4/24/2009 5:54:00 AM
Dibromomethane	ND	50		µg/L	50	4/24/2009 5:54:00 AM
1,2-Dichlorobenzene	ND	50		µg/L	50	4/24/2009 5:54:00 AM
1,3-Dichlorobenzene	ND	50		µg/L	50	4/24/2009 5:54:00 AM
1,4-Dichlorobenzene	ND	50		µg/L	50	4/24/2009 5:54:00 AM
Dichlorodifluoromethane	ND	50		µg/L	50	4/24/2009 5:54:00 AM
1,1-Dichloroethane	ND	50		µg/L	50	4/24/2009 5:54:00 AM
1,1-Dichloroethene	ND	50		µg/L	50	4/24/2009 5:54:00 AM
1,2-Dichloropropane	ND	50		µg/L	50	4/24/2009 5:54:00 AM
1,3-Dichloropropane	ND	50		µg/L	50	4/24/2009 5:54:00 AM
2,2-Dichloropropane	ND	100		µg/L	50	4/24/2009 5:54:00 AM
1,1-Dichloropropene	ND	50		µg/L	50	4/24/2009 5:54:00 AM
Hexachlorobutadiene	ND	50		µg/L	50	4/24/2009 5:54:00 AM
2-Hexanone	ND	500		µg/L	50	4/24/2009 5:54:00 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		

Hall Environmental Analysis Laboratory, Inc.

Date: *01-May-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Bz Stripper 1&2-IN
Lab Order:	0904335	**Collection Date:**	4/20/2009 9:25:00 AM
Project:	Qtrly Method 8260B Air Quality Permit 0633-M	**Date Received:**	4/21/2009
Lab ID:	0904335-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Isopropylbenzene	100	50		µg/L	50	4/24/2009 5:54:00 AM
4-Isopropyltoluene	ND	50		µg/L	50	4/24/2009 5:54:00 AM
4-Methyl-2-pentanone	ND	500		µg/L	50	4/24/2009 5:54:00 AM
Methylene Chloride	ND	150		µg/L	50	4/24/2009 5:54:00 AM
n-Butylbenzene	190	50		µg/L	50	4/24/2009 5:54:00 AM
n-Propylbenzene	350	50		µg/L	50	4/24/2009 5:54:00 AM
sec-Butylbenzene	ND	50		µg/L	50	4/24/2009 5:54:00 AM
Styrene	ND	50		µg/L	50	4/24/2009 5:54:00 AM
tert-Butylbenzene	ND	50		µg/L	50	4/24/2009 5:54:00 AM
1,1,1,2-Tetrachloroethane	ND	50		µg/L	50	4/24/2009 5:54:00 AM
1,1,2,2-Tetrachloroethane	ND	100		µg/L	50	4/24/2009 5:54:00 AM
Tetrachloroethene (PCE)	ND	50		µg/L	50	4/24/2009 5:54:00 AM
trans-1,2-DCE	ND	50		µg/L	50	4/24/2009 5:54:00 AM
trans-1,3-Dichloropropene	ND	50		µg/L	50	4/24/2009 5:54:00 AM
1,2,3-Trichlorobenzene	ND	50		µg/L	50	4/24/2009 5:54:00 AM
1,2,4-Trichlorobenzene	ND	50		µg/L	50	4/24/2009 5:54:00 AM
1,1,1-Trichloroethane	ND	50		µg/L	50	4/24/2009 5:54:00 AM
1,1,2-Trichloroethane	ND	50		µg/L	50	4/24/2009 5:54:00 AM
Trichloroethene (TCE)	ND	50		µg/L	50	4/24/2009 5:54:00 AM
Trichlorofluoromethane	ND	50		µg/L	50	4/24/2009 5:54:00 AM
1,2,3-Trichloropropane	ND	100		µg/L	50	4/24/2009 5:54:00 AM
Vinyl chloride	ND	50		µg/L	50	4/24/2009 5:54:00 AM
Xylenes, Total	10000	75		µg/L	50	4/24/2009 5:54:00 AM
Surr: 1,2-Dichloroethane-d4	88.8	68.1-123		%REC	50	4/24/2009 5:54:00 AM
Surr: 4-Bromofluorobenzene	95.7	53.2-145		%REC	50	4/24/2009 5:54:00 AM
Surr: Dibromofluoromethane	79.4	68.5-119		%REC	200	4/24/2009 5:25:20 AM
Surr: Toluene-d8	96.5	64-131		%REC	50	4/24/2009 5:54:00 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		

Hall Environmental Analysis Laboratory, Inc.

Date: *01-May-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Bz Stripper 1&2-OUT
Lab Order:	0904335	**Collection Date:**	4/20/2009 9:35:00 AM
Project:	Qtrly Method 8260B Air Quality Permit 0633-M	**Date Received:**	4/21/2009
Lab ID:	0904335-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: HL
Benzene	4700	50		µg/L	50	4/24/2009 6:22:45 AM
Toluene	12000	200		µg/L	200	4/28/2009 1:04:27 PM
Ethylbenzene	830	50		µg/L	50	4/24/2009 6:22:45 AM
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	50	4/24/2009 6:22:45 AM
1,2,4-Trimethylbenzene	1200	50		µg/L	50	4/24/2009 6:22:45 AM
1,3,5-Trimethylbenzene	430	50		µg/L	50	4/24/2009 6:22:45 AM
1,2-Dichloroethane (EDC)	ND	50		µg/L	50	4/24/2009 6:22:45 AM
1,2-Dibromoethane (EDB)	ND	50		µg/L	50	4/24/2009 6:22:45 AM
Naphthalene	390	100		µg/L	50	4/24/2009 6:22:45 AM
1-Methylnaphthalene	280	200		µg/L	50	4/24/2009 6:22:45 AM
2-Methylnaphthalene	450	200		µg/L	50	4/24/2009 6:22:45 AM
Acetone	920	500		µg/L	50	4/24/2009 6:22:45 AM
Bromobenzene	ND	50		µg/L	50	4/24/2009 6:22:45 AM
Bromodichloromethane	ND	50		µg/L	50	4/24/2009 6:22:45 AM
Bromoform	ND	50		µg/L	50	4/24/2009 6:22:45 AM
Bromomethane	ND	50		µg/L	50	4/24/2009 6:22:45 AM
2-Butanone	ND	500		µg/L	50	4/24/2009 6:22:45 AM
Carbon disulfide	ND	500		µg/L	50	4/24/2009 6:22:45 AM
Carbon Tetrachloride	ND	50		µg/L	50	4/24/2009 6:22:45 AM
Chlorobenzene	ND	50		µg/L	50	4/24/2009 6:22:45 AM
Chloroethane	ND	100		µg/L	50	4/24/2009 6:22:45 AM
Chloroform	ND	50		µg/L	50	4/24/2009 6:22:45 AM
Chloromethane	ND	50		µg/L	50	4/24/2009 6:22:45 AM
2-Chlorotoluene	ND	50		µg/L	50	4/24/2009 6:22:45 AM
4-Chlorotoluene	ND	50		µg/L	50	4/24/2009 6:22:45 AM
cis-1,2-DCE	ND	50		µg/L	50	4/24/2009 6:22:45 AM
cis-1,3-Dichloropropene	ND	50		µg/L	50	4/24/2009 6:22:45 AM
1,2-Dibromo-3-chloropropane	ND	100		µg/L	50	4/24/2009 6:22:45 AM
Dibromochloromethane	ND	50		µg/L	50	4/24/2009 6:22:45 AM
Dibromomethane	ND	50		µg/L	50	4/24/2009 6:22:45 AM
1,2-Dichlorobenzene	ND	50		µg/L	50	4/24/2009 6:22:45 AM
1,3-Dichlorobenzene	ND	50		µg/L	50	4/24/2009 6:22:45 AM
1,4-Dichlorobenzene	ND	50		µg/L	50	4/24/2009 6:22:45 AM
Dichlorodifluoromethane	ND	50		µg/L	50	4/24/2009 6:22:45 AM
1,1-Dichloroethane	ND	50		µg/L	50	4/24/2009 6:22:45 AM
1,1-Dichloroethene	ND	50		µg/L	50	4/24/2009 6:22:45 AM
1,2-Dichloropropane	ND	50		µg/L	50	4/24/2009 6:22:45 AM
1,3-Dichloropropane	ND	50		µg/L	50	4/24/2009 6:22:45 AM
2,2-Dichloropropane	ND	100		µg/L	50	4/24/2009 6:22:45 AM
1,1-Dichloropropene	ND	50		µg/L	50	4/24/2009 6:22:45 AM
Hexachlorobutadiene	ND	50		µg/L	50	4/24/2009 6:22:45 AM
2-Hexanone	ND	500		µg/L	50	4/24/2009 6:22:45 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		

Hall Environmental Analysis Laboratory, Inc.

Date: *01-May-09*

CLIENT:	Western Refining Southwest, Gallup	**Client Sample ID:**	Bz Stripper 1&2-OUT
Lab Order:	0904335	**Collection Date:**	4/20/2009 9:35:00 AM
Project:	Qtrly Method 8260B Air Quality Permit 0633-M	**Date Received:**	4/21/2009
Lab ID:	0904335-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **HL**
Isopropylbenzene	52	50		µg/L	50	4/24/2009 6:22:45 AM
4-Isopropyltoluene	ND	50		µg/L	50	4/24/2009 6:22:45 AM
4-Methyl-2-pentanone	ND	500		µg/L	50	4/24/2009 6:22:45 AM
Methylene Chloride	ND	150		µg/L	50	4/24/2009 6:22:45 AM
n-Butylbenzene	120	50		µg/L	50	4/24/2009 6:22:45 AM
n-Propylbenzene	200	50		µg/L	50	4/24/2009 6:22:45 AM
sec-Butylbenzene	ND	50		µg/L	50	4/24/2009 6:22:45 AM
Styrene	ND	50		µg/L	50	4/24/2009 6:22:45 AM
tert-Butylbenzene	ND	50		µg/L	50	4/24/2009 6:22:45 AM
1,1,1,2-Tetrachloroethane	ND	50		µg/L	50	4/24/2009 6:22:45 AM
1,1,2,2-Tetrachloroethane	ND	100		µg/L	50	4/24/2009 6:22:45 AM
Tetrachloroethene (PCE)	ND	50		µg/L	50	4/24/2009 6:22:45 AM
trans-1,2-DCE	ND	50		µg/L	50	4/24/2009 6:22:45 AM
trans-1,3-Dichloropropene	ND	50		µg/L	50	4/24/2009 6:22:45 AM
1,2,3-Trichlorobenzene	ND	50		µg/L	50	4/24/2009 6:22:45 AM
1,2,4-Trichlorobenzene	ND	50		µg/L	50	4/24/2009 6:22:45 AM
1,1,1-Trichloroethane	ND	50		µg/L	50	4/24/2009 6:22:45 AM
1,1,2-Trichloroethane	ND	50		µg/L	50	4/24/2009 6:22:45 AM
Trichloroethene (TCE)	ND	50		µg/L	50	4/24/2009 6:22:45 AM
Trichlorofluoromethane	ND	50		µg/L	50	4/24/2009 6:22:45 AM
1,2,3-Trichloropropane	ND	100		µg/L	50	4/24/2009 6:22:45 AM
Vinyl chloride	ND	50		µg/L	50	4/24/2009 6:22:45 AM
Xylenes, Total	5100	75		µg/L	50	4/24/2009 6:22:45 AM
Surr: 1,2-Dichloroethane-d4	84.2	68.1-123		%REC	50	4/24/2009 6:22:45 AM
Surr: 4-Bromofluorobenzene	94.7	53.2-145		%REC	50	4/24/2009 6:22:45 AM
Surr: Dibromofluoromethane	79.3	68.5-119		%REC	50	4/24/2009 6:22:45 AM
Surr: Toluene-d8	83.0	64-131		%REC	50	4/24/2009 6:22:45 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: Qtrly Method 8260B Air Quality Permit 0633-M **Work Order:** 0904335

Method: EPA Method 8260B: VOLATILES
Sample ID: 5ml rb *MBLK* Batch ID: **R33385** Analysis Date: 4/23/2009 5:56:05 PM

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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						
1,2,4-Trimethylbenzene	ND	µg/L	1.0						
1,3,5-Trimethylbenzene	ND	µg/L	1.0						
1,2-Dichloroethane (EDC)	ND	µg/L	1.0						
1,2-Dibromoethane (EDB)	ND	µg/L	1.0						
Naphthalene	ND	µg/L	2.0						
1-Methylnaphthalene	ND	µg/L	4.0						
2-Methylnaphthalene	ND	µg/L	4.0						
Acetone	ND	µg/L	10						
Bromobenzene	ND	µg/L	1.0						
Bromodichloromethane	ND	µg/L	1.0						
Bromoform	ND	µg/L	1.0						
Bromomethane	ND	µg/L	1.0						
2-Butanone	ND	µg/L	10						
Carbon disulfide	ND	µg/L	10						
Carbon Tetrachloride	ND	µg/L	1.0						
Chlorobenzene	ND	µg/L	1.0						
Chloroethane	ND	µg/L	2.0						
Chloroform	ND	µg/L	1.0						
Chloromethane	ND	µg/L	1.0						
2-Chlorotoluene	ND	µg/L	1.0						
4-Chlorotoluene	ND	µg/L	1.0						
cis-1,2-DCE	ND	µg/L	1.0						
cis-1,3-Dichloropropene	ND	µg/L	1.0						
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0						
Dibromochloromethane	ND	µg/L	1.0						
Dibromomethane	ND	µg/L	1.0						
1,2-Dichlorobenzene	ND	µg/L	1.0						
1,3-Dichlorobenzene	ND	µg/L	1.0						
1,4-Dichlorobenzene	ND	µg/L	1.0						
Dichlorodifluoromethane	ND	µg/L	1.0						
1,1-Dichloroethane	ND	µg/L	1.0						
1,1-Dichloroethene	ND	µg/L	1.0						
1,2-Dichloropropane	ND	µg/L	1.0						
1,3-Dichloropropane	ND	µg/L	1.0						
2,2-Dichloropropane	ND	µg/L	2.0						
1,1-Dichloropropene	ND	µg/L	1.0						
Hexachlorobutadiene	ND	µg/L	1.0						
2-Hexanone	ND	µg/L	10						
Isopropylbenzene	ND	µg/L	1.0						
4-Isopropyltoluene	ND	µg/L	1.0						

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Qtrly Method 8260B Air Quality Permit 0633-M **Work Order:** 0904335

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: 5ml rb		*MBLK*			Batch ID:	**R33385**	Analysis Date:	4/23/2009 5:56:05 PM	
4-Methyl-2-pentanone	ND	µg/L	10						
Methylene Chloride	ND	µg/L	3.0						
n-Butylbenzene	ND	µg/L	1.0						
n-Propylbenzene	ND	µg/L	1.0						
sec-Butylbenzene	ND	µg/L	1.0						
Styrene	ND	µg/L	1.0						
tert-Butylbenzene	ND	µg/L	1.0						
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0						
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0						
Tetrachloroethene (PCE)	ND	µg/L	1.0						
trans-1,2-DCE	ND	µg/L	1.0						
trans-1,3-Dichloropropene	ND	µg/L	1.0						
1,2,3-Trichlorobenzene	ND	µg/L	1.0						
1,2,4-Trichlorobenzene	ND	µg/L	1.0						
1,1,1-Trichloroethane	ND	µg/L	1.0						
1,1,2-Trichloroethane	ND	µg/L	1.0						
Trichloroethene (TCE)	ND	µg/L	1.0						
Trichlorofluoromethane	ND	µg/L	1.0						
1,2,3-Trichloropropane	ND	µg/L	2.0						
Vinyl chloride	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	1.5						
Sample ID: 5ml rb		*MBLK*			Batch ID:	**R33416**	Analysis Date:	4/24/2009 8:45:27 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						
1,2,4-Trimethylbenzene	ND	µg/L	1.0						
1,3,5-Trimethylbenzene	ND	µg/L	1.0						
1,2-Dichloroethane (EDC)	ND	µg/L	1.0						
1,2-Dibromoethane (EDB)	ND	µg/L	1.0						
Naphthalene	ND	µg/L	2.0						
1-Methylnaphthalene	ND	µg/L	4.0						
2-Methylnaphthalene	ND	µg/L	4.0						
Acetone	ND	µg/L	10						
Bromobenzene	ND	µg/L	1.0						
Bromodichloromethane	ND	µg/L	1.0						
Bromoform	ND	µg/L	1.0						
Bromomethane	ND	µg/L	1.0						
2-Butanone	ND	µg/L	10						
Carbon disulfide	ND	µg/L	10						
Carbon Tetrachloride	ND	µg/L	1.0						
Chlorobenzene	ND	µg/L	1.0						
Chloroethane	ND	µg/L	2.0						
Chloroform	ND	µg/L	1.0						

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Qtrly Method 8260B Air Quality Permit 0633-M **Work Order:** 0904335

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: 5ml rb		*MBLK*			Batch ID:	**R33416**	Analysis Date:	4/24/2009 8:45:27 AM	
Chloromethane	ND	µg/L	1.0						
2-Chlorotoluene	ND	µg/L	1.0						
4-Chlorotoluene	ND	µg/L	1.0						
cis-1,2-DCE	ND	µg/L	1.0						
cis-1,3-Dichloropropene	ND	µg/L	1.0						
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0						
Dibromochloromethane	ND	µg/L	1.0						
Dibromomethane	ND	µg/L	1.0						
1,2-Dichlorobenzene	ND	µg/L	1.0						
1,3-Dichlorobenzene	ND	µg/L	1.0						
1,4-Dichlorobenzene	ND	µg/L	1.0						
Dichlorodifluoromethane	ND	µg/L	1.0						
1,1-Dichloroethane	ND	µg/L	1.0						
1,1-Dichloroethene	ND	µg/L	1.0						
1,2-Dichloropropane	ND	µg/L	1.0						
1,3-Dichloropropane	ND	µg/L	1.0						
2,2-Dichloropropane	ND	µg/L	2.0						
1,1-Dichloropropene	ND	µg/L	1.0						
Hexachlorobutadiene	ND	µg/L	1.0						
2-Hexanone	ND	µg/L	10						
Isopropylbenzene	ND	µg/L	1.0						
4-Isopropyltoluene	ND	µg/L	1.0						
4-Methyl-2-pentanone	ND	µg/L	10						
Methylene Chloride	ND	µg/L	3.0						
n-Butylbenzene	ND	µg/L	1.0						
n-Propylbenzene	ND	µg/L	1.0						
sec-Butylbenzene	ND	µg/L	1.0						
Styrene	ND	µg/L	1.0						
tert-Butylbenzene	ND	µg/L	1.0						
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0						
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0						
Tetrachloroethene (PCE)	ND	µg/L	1.0						
trans-1,2-DCE	ND	µg/L	1.0						
trans-1,3-Dichloropropene	ND	µg/L	1.0						
1,2,3-Trichlorobenzene	ND	µg/L	1.0						
1,2,4-Trichlorobenzene	ND	µg/L	1.0						
1,1,1-Trichloroethane	ND	µg/L	1.0						
1,1,2-Trichloroethane	ND	µg/L	1.0						
Trichloroethene (TCE)	ND	µg/L	1.0						
Trichlorofluoromethane	ND	µg/L	1.0						
1,2,3-Trichloropropane	ND	µg/L	2.0						
Vinyl chloride	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	1.5						
Sample ID: 5ml rb		*MBLK*			Batch ID:	**R33452**	Analysis Date:	4/28/2009 10:38:31 AM	

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Qtrly Method 8260B Air Quality Permit 0633-M **Work Order:** 0904335

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: 5ml rb		*MBLK*			Batch ID: **R33452**		Analysis Date:	4/28/2009 10:38:31 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						
1,2,4-Trimethylbenzene	ND	µg/L	1.0						
1,3,5-Trimethylbenzene	ND	µg/L	1.0						
1,2-Dichloroethane (EDC)	ND	µg/L	1.0						
1,2-Dibromoethane (EDB)	ND	µg/L	1.0						
Naphthalene	ND	µg/L	2.0						
1-Methylnaphthalene	ND	µg/L	4.0						
2-Methylnaphthalene	ND	µg/L	4.0						
Acetone	ND	µg/L	10						
Bromobenzene	ND	µg/L	1.0						
Bromodichloromethane	ND	µg/L	1.0						
Bromoform	ND	µg/L	1.0						
Bromomethane	ND	µg/L	1.0						
2-Butanone	ND	µg/L	10						
Carbon disulfide	ND	µg/L	10						
Carbon Tetrachloride	ND	µg/L	1.0						
Chlorobenzene	ND	µg/L	1.0						
Chloroethane	ND	µg/L	2.0						
Chloroform	ND	µg/L	1.0						
Chloromethane	ND	µg/L	1.0						
2-Chlorotoluene	ND	µg/L	1.0						
4-Chlorotoluene	ND	µg/L	1.0						
cis-1,2-DCE	ND	µg/L	1.0						
cis-1,3-Dichloropropene	ND	µg/L	1.0						
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0						
Dibromochloromethane	ND	µg/L	1.0						
Dibromomethane	ND	µg/L	1.0						
1,2-Dichlorobenzene	ND	µg/L	1.0						
1,3-Dichlorobenzene	ND	µg/L	1.0						
1,4-Dichlorobenzene	ND	µg/L	1.0						
Dichlorodifluoromethane	ND	µg/L	1.0						
1,1-Dichloroethane	ND	µg/L	1.0						
1,1-Dichloroethene	ND	µg/L	1.0						
1,2-Dichloropropane	ND	µg/L	1.0						
1,3-Dichloropropane	ND	µg/L	1.0						
2,2-Dichloropropane	ND	µg/L	2.0						
1,1-Dichloropropene	ND	µg/L	1.0						
Hexachlorobutadiene	ND	µg/L	1.0						
2-Hexanone	ND	µg/L	10						
Isopropylbenzene	ND	µg/L	1.0						
4-Isopropyltoluene	ND	µg/L	1.0						

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Qtrly Method 8260B Air Quality Permit 0633-M **Work Order:** 0904335

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: 5ml rb		*MBLK*			Batch ID:	**R33452**	Analysis Date:	4/28/2009 10:38:31 AM	
4-Methyl-2-pentanone	ND	µg/L	10						
Methylene Chloride	ND	µg/L	3.0						
n-Butylbenzene	ND	µg/L	1.0						
n-Propylbenzene	ND	µg/L	1.0						
sec-Butylbenzene	ND	µg/L	1.0						
Styrene	ND	µg/L	1.0						
tert-Butylbenzene	ND	µg/L	1.0						
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0						
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0						
Tetrachloroethene (PCE)	ND	µg/L	1.0						
trans-1,2-DCE	ND	µg/L	1.0						
trans-1,3-Dichloropropene	ND	µg/L	1.0						
1,2,3-Trichlorobenzene	ND	µg/L	1.0						
1,2,4-Trichlorobenzene	ND	µg/L	1.0						
1,1,1-Trichloroethane	ND	µg/L	1.0						
1,1,2-Trichloroethane	ND	µg/L	1.0						
Trichloroethene (TCE)	ND	µg/L	1.0						
Trichlorofluoromethane	ND	µg/L	1.0						
1,2,3-Trichloropropane	ND	µg/L	2.0						
Vinyl chloride	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	1.5						
Sample ID: b3		*MBLK*			Batch ID:	**R33452**	Analysis Date:	4/28/2009 11:15:44 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						
1,2,4-Trimethylbenzene	ND	µg/L	1.0						
1,3,5-Trimethylbenzene	ND	µg/L	1.0						
1,2-Dichloroethane (EDC)	ND	µg/L	1.0						
1,2-Dibromoethane (EDB)	ND	µg/L	1.0						
Naphthalene	ND	µg/L	2.0						
1-Methylnaphthalene	ND	µg/L	4.0						
2-Methylnaphthalene	ND	µg/L	4.0						
Acetone	ND	µg/L	10						
Bromobenzene	ND	µg/L	1.0						
Bromodichloromethane	ND	µg/L	1.0						
Bromoform	ND	µg/L	1.0						
Bromomethane	ND	µg/L	1.0						
2-Butanone	ND	µg/L	10						
Carbon disulfide	ND	µg/L	10						
Carbon Tetrachloride	ND	µg/L	1.0						
Chlorobenzene	ND	µg/L	1.0						
Chloroethane	ND	µg/L	2.0						
Chloroform	ND	µg/L	1.0						

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Qtrly Method 8260B Air Quality Permit 0633-M **Work Order:** 0904335

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: b3		*MBLK*			Batch ID:	**R33452**	Analysis Date:	4/28/2009 11:15:44 PM	
Chloromethane	ND	µg/L	1.0						
2-Chlorotoluene	ND	µg/L	1.0						
4-Chlorotoluene	ND	µg/L	1.0						
cis-1,2-DCE	ND	µg/L	1.0						
cis-1,3-Dichloropropene	ND	µg/L	1.0						
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0						
Dibromochloromethane	ND	µg/L	1.0						
Dibromomethane	ND	µg/L	1.0						
1,2-Dichlorobenzene	ND	µg/L	1.0						
1,3-Dichlorobenzene	ND	µg/L	1.0						
1,4-Dichlorobenzene	ND	µg/L	1.0						
Dichlorodifluoromethane	ND	µg/L	1.0						
1,1-Dichloroethane	ND	µg/L	1.0						
1,1-Dichloroethene	ND	µg/L	1.0						
1,2-Dichloropropane	ND	µg/L	1.0						
1,3-Dichloropropane	ND	µg/L	1.0						
2,2-Dichloropropane	ND	µg/L	2.0						
1,1-Dichloropropene	ND	µg/L	1.0						
Hexachlorobutadiene	ND	µg/L	1.0						
2-Hexanone	ND	µg/L	10						
Isopropylbenzene	ND	µg/L	1.0						
4-Isopropyltoluene	ND	µg/L	1.0						
4-Methyl-2-pentanone	ND	µg/L	10						
Methylene Chloride	ND	µg/L	3.0						
n-Butylbenzene	ND	µg/L	1.0						
n-Propylbenzene	ND	µg/L	1.0						
sec-Butylbenzene	ND	µg/L	1.0						
Styrene	ND	µg/L	1.0						
tert-Butylbenzene	ND	µg/L	1.0						
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0						
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0						
Tetrachloroethene (PCE)	ND	µg/L	1.0						
trans-1,2-DCE	ND	µg/L	1.0						
trans-1,3-Dichloropropene	ND	µg/L	1.0						
1,2,3-Trichlorobenzene	ND	µg/L	1.0						
1,2,4-Trichlorobenzene	ND	µg/L	1.0						
1,1,1-Trichloroethane	ND	µg/L	1.0						
1,1,2-Trichloroethane	ND	µg/L	1.0						
Trichloroethene (TCE)	ND	µg/L	1.0						
Trichlorofluoromethane	ND	µg/L	1.0						
1,2,3-Trichloropropane	ND	µg/L	2.0						
Vinyl chloride	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	1.5						
Sample ID: 100ng lcs		*LCS*			Batch ID:	**R33385**	Analysis Date:	4/23/2009 7:22:17 PM	

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

QA/QC SUMMARY REPORT

Client: Western Refining Southwest, Gallup
Project: Qtrly Method 8260B Air Quality Permit 0633-M

Work Order: 0904335

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260B: VOLATILES									
Sample ID: 100ng lcs		*LCS*			Batch ID:	**R33385**	Analysis Date:		4/23/2009 7:22:17 PM
Benzene	17.49	µg/L	1.0	87.5	88	116			S
Toluene	19.78	µg/L	1.0	98.9	82.9	112			
Chlorobenzene	22.22	µg/L	1.0	111	71.4	133			
1,1-Dichloroethene	20.92	µg/L	1.0	105	97.9	140			
Trichloroethene (TCE)	17.28	µg/L	1.0	86.4	90.5	112			S
Sample ID: 100ng lcs		*LCS*			Batch ID:	**R33416**	Analysis Date:		4/24/2009 9:42:54 AM
Benzene	17.18	µg/L	1.0	85.9	76.7	114			
Toluene	22.89	µg/L	1.0	114	78.4	117			
Chlorobenzene	22.91	µg/L	1.0	115	80.7	127			
1,1-Dichloroethene	21.70	µg/L	1.0	109	80.2	128			
Trichloroethene (TCE)	17.22	µg/L	1.0	86.1	77.4	115			
Sample ID: 100ng lcs		*LCS*			Batch ID:	**R33452**	Analysis Date:		4/28/2009 11:36:45 AM
Benzene	21.00	µg/L	1.0	105	76.7	114			
Toluene	20.22	µg/L	1.0	101	78.4	117			
Chlorobenzene	19.09	µg/L	1.0	95.4	80.7	127			
1,1-Dichloroethene	23.81	µg/L	1.0	119	80.2	128			
Trichloroethene (TCE)	21.80	µg/L	1.0	109	77.4	115			
Sample ID: 100ng lcs_b		*LCS*			Batch ID:	**R33452**	Analysis Date:		4/29/2009 12:43:24 AM
Benzene	21.44	µg/L	1.0	102	76.7	114			
Toluene	19.83	µg/L	1.0	95.0	78.4	117			
Chlorobenzene	18.75	µg/L	1.0	93.8	80.7	127			
1,1-Dichloroethene	23.68	µg/L	1.0	118	80.2	128			
Trichloroethene (TCE)	21.46	µg/L	1.0	107	77.4	115			

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: 4/21/2009

Work Order Number 0904335

Received by: AT

Sample ID labels checked by: _____ Initials

Checklist completed by: _____ Signature 4/21/09 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°**	*<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 3833

email or Fax#: 505 722 0210

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:

☐ Standard ☐ Rush _____

Project Name: QUARTERLY METHOD 8260B AIRQUALITY PERMIT 0633-M7

Project #:

Project Manager: GAURAV, RAJEN

Sampler: ALVIN DORSEY

On Ice: ☒ Yes ☐ No

Sample Temperature: 2

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. 0904335	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) All VOC	8270 (Semi-VOA)					Air Bubbles (Y or N)
4-20-09	0815	Air	3rd B2 Stripper-IN	3-40ml		1										X						
4-20-09	0830		3rd B2 Stripper-OUT	3-40ml		2										X						
4-20-09	0925		B2 Stripper 12-2 IN	3-40ml		3										X						
4-20-09	0935		B2 Stripper 12-2 OUT	3-40ml		4										X						

Date:	Time:	Relinquished by:	Received by:	Date	Time
4-21-09		[signature]	[signature]	4/21/09	1610
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks:

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.

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Friday, May 15, 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

Order No.: 0905027

Dear Gaurav Rajen:

Hall Environmental Analysis Laboratory, Inc. received 4 sample(s) on 5/4/2009 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

ACCREDITED IN ACCORDANCE WITH nelac

4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109
505.345.3975 ■ Fax 505.345.4107
www.hallenvironmental.com

Hall Environmental Analysis Laboratory, Inc.

Date: *15-May-09*

CLIENT: Western Refining Southwest, Gallup
Project: BZ Strippers
Lab Order: 0905027

Lab ID: 0905027-01
Client Sample ID: 3RD BZ Stripper-IN
Collection Date: 4/30/2009 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	2500		µg/L	1000	5/12/2009 4:18:41 PM
Benzene	33000	1000		µg/L	1000	5/12/2009 4:18:41 PM
Toluene	33000	1000		µg/L	1000	5/12/2009 4:18:41 PM
Ethylbenzene	1200	1000		µg/L	1000	5/12/2009 4:18:41 PM
Xylenes, Total	8000	2000		µg/L	1000	5/12/2009 4:18:41 PM
Surr: 4-Bromofluorobenzene	90.4	65.9-130		%REC	1000	5/12/2009 4:18:41 PM

Lab ID: 0905027-02
Client Sample ID: 3RD BZ Stripper-OUT
Collection Date: 4/30/2009 9:40:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Methyl tert-butyl ether (MTBE)	ND	25		µg/L	10	5/13/2009 3:18:29 PM
Benzene	130	10		µg/L	10	5/13/2009 3:18:29 PM
Toluene	250	10		µg/L	10	5/13/2009 3:18:29 PM
Ethylbenzene	22	10		µg/L	10	5/13/2009 3:18:29 PM
Xylenes, Total	180	20		µg/L	10	5/13/2009 3:18:29 PM
Surr: 4-Bromofluorobenzene	97.4	65.9-130		%REC	10	5/13/2009 3:18:29 PM

Lab ID: 0905027-03
Client Sample ID: BZ Stripper 1&2 IN
Collection Date: 4/30/2009 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	1300		µg/L	500	5/12/2009 3:58:12 AM
Benzene	7300	500		µg/L	500	5/12/2009 3:58:12 AM
Toluene	19000	500		µg/L	500	5/12/2009 3:58:12 AM
Ethylbenzene	1200	500		µg/L	500	5/12/2009 3:58:12 AM
Xylenes, Total	8100	1000		µg/L	500	5/12/2009 3:58:12 AM
Surr: 4-Bromofluorobenzene	83.4	65.9-130		%REC	500	5/12/2009 3:58:12 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
ND	Not Detected at the Reporting Limit	RL	Reporting Limit
S	Spike recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

Date: *15-May-09*

CLIENT: Western Refining Southwest, Gallup
Project: BZ Strippers

Lab Order: 0905027

Lab ID: 0905027-04
Collection Date: 4/30/2009 10:15:00 AM
Client Sample ID: BZ Stripper 1&2 OUT
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Methyl tert-butyl ether (MTBE)	ND	630		µg/L	250	5/12/2009 4:28:42 AM
Benzene	1300	250		µg/L	250	5/12/2009 4:28:42 AM
Toluene	4700	250		µg/L	250	5/12/2009 4:28:42 AM
Ethylbenzene	480	250		µg/L	250	5/12/2009 4:28:42 AM
Xylenes, Total	3400	500		µg/L	250	5/12/2009 4:28:42 AM
Surr: 4-Bromofluorobenzene	80.2	65.9-130		%REC	250	5/12/2009 4:28:42 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: 0905027

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles									
Sample ID: 5ML RB		*MBLK*			Batch ID:	**R33615**	Analysis Date:	5/11/2009 9:37:07 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:	**R33615**	Analysis Date:	5/11/2009 7:18:02 PM	
Methyl tert-butyl ether (MTBE)	22.18	µg/L	2.5	111	51.2	138			
Benzene	19.72	µg/L	1.0	98.6	85.9	113			
Toluene	21.49	µg/L	1.0	107	86.4	113			
Ethylbenzene	21.00	µg/L	1.0	105	83.5	118			
Xylenes, Total	64.64	µg/L	2.0	108	83.4	122			
Sample ID: 100NG BTEX LCSD		*LCSD*			Batch ID:	**R33615**	Analysis Date:	5/11/2009 7:48:31 PM	
Methyl tert-butyl ether (MTBE)	22.21	µg/L	2.5	111	51.2	138	0.144	28	
Benzene	19.51	µg/L	1.0	97.6	85.9	113	1.08	27	
Toluene	20.61	µg/L	1.0	103	86.4	113	4.17	19	
Ethylbenzene	20.31	µg/L	1.0	102	83.5	118	3.33	10	
Xylenes, Total	62.03	µg/L	2.0	103	83.4	122	4.12	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: 5/4/2009

Work Order Number 0905027

Received by: AMF

Sample ID labels checked by: Initials

Checklist completed by: Signature 5/4/09 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?	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 9
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:
☐ Standard ☐ Rush

Project Name: BZ STRIPPERS
Project #:
Project Manager: GAURAV, RAJEN
Sampler: ALVIN DORSEY
On Ice: ☒ Yes ☐ No
Sample Temperature: 6

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. C09050271	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 BETEX-MTBE				Air Bubbles (Y or N)
04-30-09	0930	Ag	3rd BZ STRIPPER-IN	3-40ML	HCl	1												X				
04-30-09	0940		3rd BZ STRIPPER-OUT	3-40ML	HCl	2												X				
04-30-09	1000		BZ STRIPPER 1&2 IN	3-40ML	HCl	3												X				
04-30-09	1015	✓	BZ STRIPPER 1&2 OUT	3-40ML	HCl	4												X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
05-01-09	1200	Alvin		5/1/09	4:30
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks:

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.