



From: [Larsen, Thurman](#)
To: [VanHorn, Kristen, NMENV](#); [Cobrain, Dave, NMENV](#)
Cc: [Riege, Ed](#); [Johnson, Cheryl](#); [Dorsey, Alvin](#); [Morgan, Loretta](#)
Subject: MONTHLY BENZENE REPORT FOR FEBRUARY 2012
Date: Thursday, March 08, 2012 2:56:46 PM
Attachments: [20120308145110379.pdf](#)

Dear Kristen:

The following is the monthly benzene report for February 2012:

The monthly flow data for February 2012 through the (N-S) Benzene Strippers to AL-1 is summarized as follows:

	N-Stripper(gpm)	S-Stripper(gpm)	Total
Flow (gpm)			
Average(gpm)			
84.08	102.57	204.65	
Maximum (gpm)	118.73		
156.40	275.13		
Minimum (gpm)	18.24		
27.70	45.95		

The monthly flow data for February 2012 from AL-2 to EP-1 is summarized as follows:

	Weir Height (in)	Flow Rate (gpm)	Flow Volume
(gpd)			
Average	7.7	223.5	
321874			
Maximum	8.4	276.3	
397803			
Minimum			
6.3	133.0	191565	

Benzene Stripper #3 is located in the process area. The monthly flow volume is determined as follows:

The desalter effluent is routed through benzene stripper #3. The desalter effluent average for February 2012 is 2.849 % of the crude charge rate. Therefore the monthly flow for February 2012 has an average flow of 11.3 gpm, maximum flow of 11.7 gpm, and a minimum flow of 8.3 gpm.

The attachment above is the monthly benzene results for February 2012 from Hall Environmental Laboratories.

During the month of February 2012, Western experienced four excursions. The excursion occurred on February 22, 23, 27, and 28. Hall Laboratory data reflected values of .76, .62, .73, and .76 ppm respectively for these dates. Internal benzene results indicated 0.4, 0.71, 0.36, and 0.82 respectively. On February 22, strippers were taken offline due to maintenance issues on the north stripper fan. The strippers were put back on line on February 24 at 4:15 PM. On February 27,

strippers were taken offline to repack and clean Stripper #4. Stripper was put back online at 5:30 PM. The carbon from the carbon bed was removed due to fouling issues. On February 28, API was shut down from 9AM to 3 PM. Maintenance was working on east benzene pump. All strippers were back online on February 29, 2012.

Regards,
Beck Larsen
Western Refining- Gallup Refinery

BENZENE STRIPPER - API 1 & 2 OUTLET

Date Sample Taken	Western - Lab Benzene Results (ppm)		Hall Sample ID	Hall Environmental Lab Data Benzene Results (ppm)			Results in Compliance < 0.5 ppm Yes; FAILED >0.5
	AM	PM		Sample rec'd Temp <6° C Acceptable range	Results (ppb)	> 0.5 ppm	
Wednesday, February 01, 2012	0.00	0.00	1202160.00	1.00	150.00	0.15	Yes
Thursday, February 02, 2012	0.32	0.25	1202160.00	1.00	250.00	0.25	Yes
Friday, February 03, 2012	0.00	0.00	1202160.00	1.00	230.00	0.23	Yes
Saturday, February 04, 2012	0.00	0.00	1202160.00	1.00	400.00	0.40	Yes
Sunday, February 05, 2012	0.00	0.00	1202160.00	1.00	150.00	0.15	Yes
Monday, February 06, 2012	0.00	0.26	1202160.00	1.00	ND	0.00	Yes
Tuesday, February 07, 2012	0.00	0.00	1202347.00	4.70	63.00	0.06	Yes
Wednesday, February 08, 2012	0.10	0.25	1202347.00	4.70	110.00	0.11	Yes
Thursday, February 09, 2012	0.04	0.00	1202347.00	4.70	86.00	0.09	Yes
Friday, February 10, 2012	0.17	0.12	1202446.00	2.30	190.00	0.19	Yes
Saturday, February 11, 2012	0.00	0.00	1202446.00	2.30	74.00	0.07	Yes
Sunday, February 12, 2012	0.04	0.02	1202446.00	2.30	140.00	0.14	Yes
Monday, February 13, 2012	0.00	0.00	1202446.00	2.30	48.00	0.05	Yes
Tuesday, February 14, 2012	0.16	0.22	1202446.00	2.30	ND	0.00	Yes
Wednesday, February 15, 2012	0.15	0.14	1202688.00	4.80	190.00	0.19	Yes
Thursday, February 16, 2012	0.30	0.36	1202688.00	4.80	260.00	0.26	Yes
Friday, February 17, 2012	0.29	0.04	1202688.00	4.80	260.00	0.26	Yes
Saturday, February 18, 2012	0.00	0.00	1202688.00	4.80	69.00	0.07	Yes
Sunday, February 19, 2012	0.00	0.00	1202688.00	4.80	370.00	0.37	Yes
Monday, February 20, 2012	0.00	0.00	1202688.00	4.80	360.00	0.36	Yes
Tuesday, February 21, 2012	0.00	0.00	1202859.00	1.60	480.00	0.48	Yes
Wednesday, February 22, 2012	N/A	0.40	1202859.00	1.60	760.00	0.76	Failed
Thursday, February 23, 2012	0.71	0.85	1202859.00	1.60	620.00	0.62	Failed
Friday, February 24, 2012	0.00	0.00	1202859.00	1.60	ND	0.00	Yes
Saturday, February 25, 2012	0.12	0.23	1202859.00	1.60	150.00	0.15	Yes
Sunday, February 26, 2012	0.17	0.46	1202859.00	1.60	ND	0.00	Yes
Monday, February 27, 2012	NA	0.36	1203110.00	2.40	730.00	0.73	Failed
Tuesday, February 28, 2012	0.82	0.03	1203110.00	2.40	760.00	0.76	Failed
Wednesday, February 29, 2012	ND	ND	1203110.00	2.40	120.00	0.12	Yes