



January 30, 2013

CERTIFIED: 7009 2820 0004 3568 4271

Department of Environmental Quality  
Office of Environmental Compliance  
Enforcement Division  
P.O. Box 4312  
Baton Rouge, LA 70821-4312

Re: NSPS Excess Emissions & CEM Performance Report – 4th Quarter 2012  
Valero Refining - Meraux LLC, Agency Interest # 1238  
2500 East St. Bernard Hwy., St. Bernard Parish, Meraux, LA  
Title V Permit Numbers: 2500-00001-V8

Gentlemen,

Valero Refining, Meraux LLC is hereby submitting the Excess Emissions and Monitoring Systems Reports, per LAC 33:III, Chapter 30, 40 CFR 60.7(c), 40 CFR 60.108a(d) and 40 CFR 63.1575 for the Fourth Quarter 2012.

NSPS Subpart Ja became effective for fuel gas combustion devices and flares on November 13, 2012. The Benzene Recovery Unit Reboiler (EPN 1-09, EQT 0127) became subject to NSPS Subpart Ja for NO<sub>x</sub> and H<sub>2</sub>S. New NO<sub>x</sub> and O<sub>2</sub> CEMS have been added to this report and the pages for the Area 2 Fuel Drum H<sub>2</sub>S CEMS have been modified to reflect Ja applicability. Also on this date, the North Flare Stack (EPN 20-72, EQT 0035) and South Flare Stack (EPN 3-77, EQT 0049) became affected facilities subject to NSPS Subpart Ja with a compliance date for most requirements of November 11, 2015. However, because CEMS capable of complying with the requirements related to *Sulfur monitoring for assessing root cause analysis threshold for affected flares (40 CFR 60.107a(e))* were already in place, the monitoring requirements of this section also became effective on November 13, 2012. Three Total Sulfur Analyzers used to monitor the North and South Flares have also been added to this report.

For this reporting period, there were no excess emissions greater than 1 percent of the total operating time and no CEMS had downtime greater than 5 percent of the total operating time. Also enclosed are the Data Assessment Reports for the appropriate CEMs.

Should you have any questions regarding this submission, please contact Mr. Justin Stubbe at (504) 271-4141.

*I certify, based on information and belief formed after reasonable inquiry, the statements and information in this document are true, accurate, and complete.*

Regards,

Lauren K. Bird  
Vice President & General Manager  
Valero Refining – Meraux LLC

Enclosures

cc: Mr. Mike Algero, LDEQ SE Regional Office, New Orleans, LA

**SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS AND  
MONITORING SYSTEMS PERFORMANCE**

*(per 40 CFR 60.7(d))*

Pollutant: **Opacity**

Applicable NSPS Subpart:   J  

Reporting period dates: From 10/01/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Opacity shall not exceed 30% for more than one 6-minute interval in any 1-hour period

Monitor Manufacturer and Model No.: Monitor Labs Model 550

Date of Latest CMS Certification or Audit: Certification (4/11/01)

Process Unit(s) Description: #2 FCCU ESP Stack (EPN 2-77, EQT 0032)

Total source operating time in reporting period<sup>1</sup>: 132,480 minutes

<b>Emissions Data Summary<sup>1</sup></b>	
1. Duration of excess emissions in reporting period due to:	<i>(minutes)</i>
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	0
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	0
3. Total duration of excess emissions x (100) [Total source operating time] <sup>2</sup>	0.0 %

<b>CMS Performance Summary<sup>1</sup></b>	
1. CMS downtime in reporting period due to:	<i>(minutes)</i>
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	0
d. Other known causes	355
e. Unknown causes	0
2. Total CMS Downtime	355
3. Total duration of CMS Downtime x (100) [Total source operating time] <sup>2</sup>	0.1 %

<sup>1</sup> For opacity, record all times in minutes. For gases, record all times in hours.

<sup>2</sup> For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

**SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS AND  
MONITORING SYSTEMS PERFORMANCE**

*(per 40 CFR 60.7(d))*

Pollutant: **CO**

Applicable NSPS Subpart:   J   (Required by Consent Decree: 3:10-cv-00563-bbc, Paragraph 27)

Reporting period dates: From 10/01/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: CO corrected to 0% O<sub>2</sub> shall not exceed 500 ppm on a 1 hour rolling average

Monitor Manufacturer and Model No.: Thermo Environmental 48i (CO)/Servomex 1155 (O<sub>2</sub>)

Date of Latest CMS Certification or Audit: CGA on 12/4/12 (CO), 12/4/12 (O<sub>2</sub>)

Process Unit(s) Description: #2 FCCU ESP Stack (EPN 2-77, EQT 0032)

Total source operating time in reporting period: 2,208 hours

<b>Emissions Data Summary<sup>1</sup></b>	
1. Duration of excess emissions in reporting period due to:	<i>(hours)</i>
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	0
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	0
3. Total duration of excess emissions x (100) [Total source operating time] <sup>2</sup>	0.0 %

<b>CMS Performance Summary<sup>1</sup></b>	
1. CMS downtime in reporting period due to:	<i>(hours)</i>
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	0
d. Other known causes	52
e. Unknown causes	0
2. Total CMS Downtime	52
3. Total duration of CMS Downtime x (100) [Total source operating time] <sup>2</sup>	2.4 %

<sup>1</sup> For opacity, record all times in minutes. For gases, record all times in hours.

<sup>2</sup> For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

**SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS AND  
MONITORING SYSTEMS PERFORMANCE**

*(per 40 CFR 60.7(d))*

Pollutant: **SO<sub>2</sub>**

Applicable NSPS Subpart:   J   (Required by Consent Decree: 3:10-cv-00563-bbc, Paragraph 18)

Reporting period dates: From 10/01/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: SO<sub>2</sub> corrected to 0% O<sub>2</sub> shall not exceed 50 ppm on a 7 day rolling average and 25 ppm on a 365 day rolling average (Consent Decree Limits)

Monitor Manufacturer and Model No.: Thermo Environmental 43i (SO<sub>2</sub>)/Servomex 1155 (O<sub>2</sub>)

Date of Latest CMS Certification or Audit: CGA on 12/4/12 (SO<sub>2</sub>), 12/4/12 (O<sub>2</sub>)

Process Unit(s) Description: #2 FCCU ESP Stack (EPN 2-77, EQT 0032)

Total source operating time in reporting period: 2,208 hours

<b>Emissions Data Summary<sup>1</sup></b>	
1. Duration of excess emissions in reporting period due to:	<i>(hours)</i>
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	0
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	0
3. Total duration of excess emissions x (100) [Total source operating time] <sup>2</sup>	0.0 %

<b>CMS Performance Summary<sup>1</sup></b>	
1. CMS downtime in reporting period due to:	<i>(hours)</i>
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	0
d. Other known causes	52
e. Unknown causes	0
2. Total CMS Downtime	52
3. Total duration of CMS Downtime x (100) [Total source operating time] <sup>2</sup>	2.4 %

<sup>1</sup> For opacity, record all times in minutes. For gases, record all times in hours.

<sup>2</sup> For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

**SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS AND  
MONITORING SYSTEMS PERFORMANCE**

*(per 40 CFR 60.7(d))*

Pollutant: NO<sub>x</sub>

Applicable NSPS Subpart: None (Required by Consent Decree: 3:10-cv-00563-bbc, Paragraph 15)

Reporting period dates: From 10/01/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Not Applicable

Monitor Manufacturer and Model No.: Thermo Environmental 42i (NO<sub>x</sub>)/Servomex 1155 (O<sub>2</sub>)

Date of Latest CMS Certification or Audit: CGA on 12/4/12 (NO<sub>x</sub>), 12/4/12 (O<sub>2</sub>)

Process Unit(s) Description: #2 FCCU ESP Stack (EPN 2-77, EQT 0032)

Total source operating time in reporting period: 2,208 hours

<b>Emissions Data Summary<sup>1</sup></b>	
1. Duration of excess emissions in reporting period due to:	<i>(hours)</i>
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	0
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	0
3. Total duration of excess emissions x (100) [Total source operating time] <sup>2</sup>	0.0 %

<b>CMS Performance Summary<sup>1</sup></b>	
1. CMS downtime in reporting period due to:	<i>(hours)</i>
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	0
d. Other known causes	51
e. Unknown causes	6
2. Total CMS Downtime	57
3. Total duration of CMS Downtime x (100) [Total source operating time] <sup>2</sup>	2.6 %

<sup>1</sup> For opacity, record all times in minutes. For gases, record all times in hours.

<sup>2</sup> For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

**SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS AND  
MONITORING SYSTEMS PERFORMANCE**

*(per 40 CFR 60.7(d) and 60.108a(d))*

Pollutant: SO<sub>2</sub>

Applicable NSPS Subpart: Ja

Reporting period dates: From 10/01/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: SO<sub>2</sub> corrected to 0% O<sub>2</sub> shall not exceed 250 ppm on a 12-hour rolling average

Monitor Manufacturer and Model No.: Brimstone SGX-231(SO<sub>2</sub>)/Rosemount Oxymitter 4000(O<sub>2</sub>)

Date of Latest CMS Certification or Audit: CGA on 11/29/12 (SO<sub>2</sub>), 12/5/12 (O<sub>2</sub>)

Process Unit(s) Description: #2 SRU Incinerator (EPN 1-93, EOT 0019)

Total source operating time in reporting period: 2,208 hours

<b>Emissions Data Summary<sup>1</sup></b>	
1. Duration of excess emissions in reporting period due to:	<i>(hours)</i>
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	0
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	0
3. Total duration of excess emissions x (100) [Total source operating time] <sup>2</sup>	0.0 %

<b>CMS Performance Summary<sup>1</sup></b>	
1. CMS downtime in reporting period due to:	<i>(hours)</i>
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	0
d. Other known causes	59
e. Unknown causes	0
2. Total CMS Downtime	59
3. Total duration of CMS Downtime x (100) [Total source operating time] <sup>2</sup>	2.7 %

<sup>1</sup> For opacity, record all times in minutes. For gases, record all times in hours.

<sup>2</sup> For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

**SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS AND  
MONITORING SYSTEMS PERFORMANCE**

*(per 40 CFR 60.7(d) and 60.108a(d))*

Pollutant: SO<sub>2</sub>

Applicable NSPS Subpart: Ja

Reporting period dates: From 10/01/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: SO<sub>2</sub> corrected to 0% O<sub>2</sub> shall not exceed 250 ppm on a 12-hour rolling average.

Monitor Manufacturer and Model No.: Brimstone 991-CEM-X(SO<sub>2</sub>)/ Rosemount Oxymitter 4000(O<sub>2</sub>)

Date of Latest CMS Certification or Audit: CGA on 11/29/12 (SO<sub>2</sub>), 12/5/12 (O<sub>2</sub>)

Process Unit(s) Description: #3 SRU Incinerator (EPN 5-00, EQT 0079)

Total source operating time in reporting period: 2,208 hours

<b>Emissions Data Summary<sup>1</sup></b>	
1. Duration of excess emissions in reporting period due to:	<i>(hours)</i>
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	0
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	0
3. Total duration of excess emissions x (100) [Total source operating time] <sup>2</sup>	0.0 %

<b>CMS Performance Summary<sup>1</sup></b>	
1. CMS downtime in reporting period due to:	<i>(hours)</i>
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	0
d. Other known causes	109
e. Unknown causes	0
2. Total CMS Downtime	109
3. Total duration of CMS Downtime x (100) [Total source operating time] <sup>2</sup>	4.9 %

<sup>1</sup> For opacity, record all times in minutes. For gases, record all times in hours.

<sup>2</sup> For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

**SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS AND  
MONITORING SYSTEMS PERFORMANCE**

*(per 40 CFR 60.7(d))*

Pollutant: H<sub>2</sub>S

Applicable NSPS Subpart: J

Reporting period dates: From 10/01/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Hydrogen Sulfide shall not exceed 162 ppm on a 3-hour rolling average

Monitor Manufacturer and Model No.: Ametek, #4661

Date of Latest CMS Certification or Audit: CGA on 11/29/12

Process Unit(s) Description: Area 1 Fuel Drum for Boiler TB-01 (EPN 1-06, EQT 0010) and Boiler B-7 (EPN 1-07, EQT 0011)

Total source operating time in reporting period: 2,208 hours

<b>Emissions Data Summary<sup>1</sup></b>	
1. Duration of excess emissions in reporting period due to:	<i>(hours)</i>
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	0
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	0
3. Total duration of excess emissions x (100) [Total source operating time] <sup>2</sup>	0.0 %

<b>CMS Performance Summary<sup>1</sup></b>	
1. CMS downtime in reporting period due to:	<i>(hours)</i>
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	0
d. Other known causes	14
e. Unknown causes	0
2. Total CMS Downtime	14
3. Total duration of CMS Downtime x (100) [Total source operating time] <sup>2</sup>	0.6 %

<sup>1</sup> For opacity, record all times in minutes. For gases, record all times in hours.

<sup>2</sup> For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.



**SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS AND  
MONITORING SYSTEMS PERFORMANCE**

*(per 40 CFR 60.7(d) and 60.108a(d))*

Pollutant: **H<sub>2</sub>S**

Applicable NSPS Subpart:   J and Ja   (Benzene Recovery Unit Reboiler Subject to Ja)

Reporting period dates: From   10/01/12   to   12/31/12   Subpart J

Reporting period dates: From   11/13/12   to   12/31/12   Subpart Ja

Date submitted:   1/30/13  

Company:   Valero Refining - Meraux LLC  

Address:   2500 East St. Bernard Highway, Meraux, LA 70075  

Emission Limitation:   Hydrogen Sulfide shall not exceed 162 ppm on a 3-hour rolling average (J and Ja) and 60 ppm on a 365 day rolling average (Ja only)  

Monitor Manufacturer and Model No.:   Ametek 4661  

Date of Latest CMS Certification or Audit:   CGA on 11/30/12  

Process Unit(s) Description:   Area 2 Fuel Drum for: MDH Product and Fractionator Heaters (EPN 2-92, EQT 0033); No.1 Crude Heater (EPN 12-72A, EQT 022); ROSE Heater (EPN 1-80, EQT 0014); Vacuum Heater (EPN 1-76, EQT 0013); Platformer Charge Heater (EPN 17-72 a,b,c , EQT 0028); Platformer Debut Reboiler (EPN 19-72, EQT 0029); NHT Charge Heater (EPN 14-72, EQT 0023); NHT Debut Reboiler (EPA 15-72, EQT 0024); NHT Depent Reboiler (EPA 16-72, EQT 0027); Benzene Recovery Unit Reboiler (EPN 1-09, EQT 0127)  

Total source operating time in reporting period:   2,208 hours (Subpart J); 1,176 hours (Subpart Ja)  

<b>Emissions Data Summary<sup>1</sup></b>		
1. Duration of excess emissions in reporting period due to:	<i>J (hours)</i>	<i>Ja (hours)</i>
a. Startup/shutdown	0	0
b. Control equipment problems	0	0
c. Process problems	0	0
d. Other known causes	0	0
e. Unknown causes	0	0
2. Total duration of excess emission	0	0
3. Total duration of excess emissions x (100) [Total source operating time] <sup>2</sup>	0.0 %	0.0 %

<b>CMS Performance Summary<sup>1</sup></b>		
1. CMS downtime in reporting period due to:	<i>J (hours)</i>	<i>Ja (hours)</i>
a. Monitor equipment malfunctions	0	0
b. Non-Monitor equipment malfunctions	0	0
c. Quality assurance calibration	0	0
d. Other known causes	22	12
e. Unknown causes	0	0
2. Total CMS Downtime	22	12
3. Total duration of CMS Downtime x (100) [Total source operating time] <sup>2</sup>	1.0 %	1.0 %

<sup>1</sup> For opacity, record all times in minutes. For gases, record all times in hours.

<sup>2</sup> For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

**SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS AND  
MONITORING SYSTEMS PERFORMANCE**

*(per 40 CFR 60.7(d))*

Pollutant: H<sub>2</sub>S

Applicable NSPS Subpart: J

Reporting period dates: From 10/01/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Hydrogen Sulfide shall not exceed 162 ppm on a 3-hour rolling average.

Monitor Manufacturer and Model No.: Ametek 4661

Date of Latest CMS Certification or Audit: CGA on 11/30/12

Process Unit(s) Description: Area 4 Fuel Drum for Alky Reboiler (EPN 1-77, EQT 0078)

Total source operating time in reporting period: 2,208 hours

<b>Emissions Data Summary<sup>1</sup></b>	
1. Duration of excess emissions in reporting period due to:	<i>(hours)</i>
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	0
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	0
3. Total duration of excess emissions x (100) [Total source operating time] <sup>2</sup>	0.0 %

<b>CMS Performance Summary<sup>1</sup></b>	
1. CMS downtime in reporting period due to:	<i>(hours)</i>
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	0
d. Other known causes	12
e. Unknown causes	0
2. Total CMS Downtime	12
3. Total duration of CMS Downtime x (100) [Total source operating time] <sup>2</sup>	0.5 %

<sup>1</sup> For opacity, record all times in minutes. For gases, record all times in hours.

<sup>2</sup> For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

**SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS AND  
MONITORING SYSTEMS PERFORMANCE**

*(per 40 CFR 60.7(d))*

Pollutant: H<sub>2</sub>S

Applicable NSPS Subpart: J

Reporting period dates: From 10/01/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Hydrogen Sulfide shall not exceed 162 ppm on a 3-hour rolling average.

Monitor Manufacturer and Model No.: Ametek 4661

Date of Latest CMS Certification or Audit: CGA on 12/4/12

Process Unit(s) Description: Area 6 Fuel Drum for Hydrocracker & Hydrotreater Charge Heaters (EPN 1-00, EQT 0009)

Total source operating time in reporting period: 2,208 hours

<b>Emissions Data Summary<sup>1</sup></b>	
1. Duration of excess emissions in reporting period due to:	<i>(hours)</i>
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	3
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	3
3. Total duration of excess emissions x (100) [Total source operating time] <sup>2</sup>	0.1 %

<b>CMS Performance Summary<sup>1</sup></b>	
1. CMS downtime in reporting period due to:	<i>(hours)</i>
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	0
d. Other known causes	11
e. Unknown causes	0
2. Total CMS Downtime	11
3. Total duration of CMS Downtime x (100) [Total source operating time] <sup>2</sup>	0.5 %

<sup>1</sup> For opacity, record all times in minutes. For gases, record all times in hours.

<sup>2</sup> For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

**SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS AND  
MONITORING SYSTEMS PERFORMANCE**

*(per 40 CFR 60.7(d))*

Pollutant: **H<sub>2</sub>S**

Applicable NSPS Subpart:   J  

Reporting period dates: From 10/01/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Hydrogen Sulfide shall not exceed 162 ppm on a 3-hour rolling average.

Monitor Manufacturer and Model No.: Ametek 4661

Date of Latest CMS Certification or Audit: CGA on 12/4/12

Process Unit(s) Description: Area 6 Fuel Drum for Boilers B-5 (EPN 2-00, EQT 0030) and B-6 (EPN 3-00, EQT 0048)

Total source operating time in reporting period: 2,208 hours

<b>Emissions Data Summary<sup>1</sup></b>	
1. Duration of excess emissions in reporting period due to:	<i>(hours)</i>
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	3
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	3
3. Total duration of excess emissions x (100) [Total source operating time] <sup>2</sup>	0.1 %

<b>CMS Performance Summary<sup>1</sup></b>	
1. CMS downtime in reporting period due to:	<i>(hours)</i>
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	0
d. Other known causes	16
e. Unknown causes	0
2. Total CMS Downtime	16
3. Total duration of CMS Downtime x (100) [Total source operating time] <sup>2</sup>	0.7 %

<sup>1</sup> For opacity, record all times in minutes. For gases, record all times in hours.

<sup>2</sup> For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

**SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS AND  
MONITORING SYSTEMS PERFORMANCE**

*(per 40 CFR 60.7(d))*

Pollutant: NO<sub>x</sub>

Applicable NSPS Subpart: Db

Reporting period dates: From 10/01/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Nitrogen Oxide shall not exceed 0.1 pound/MMBtu on a 30-day rolling average.

Monitor Manufacturer and Model No.: ABB Lumus 11, Serial No. 23042-5-8018413

Date of Latest CMS Certification or Audit: CGA on 12/7/12 (NO<sub>x</sub>), 12/7/12 (O<sub>2</sub>)

Process Unit(s) Description: Boiler B-5 (EPN 2-00, EQT 0030)

Total source operating time in reporting period: 2,009 hours

<b>Emissions Data Summary<sup>1</sup></b>	
1. Duration of excess emissions in reporting period due to:	<i>(hours)</i>
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	0
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	0
3. Total duration of excess emissions x (100) [Total source operating time] <sup>2</sup>	0.0 %

<b>CMS Performance Summary<sup>1</sup></b>	
1. CMS downtime in reporting period due to:	<i>(hours)</i>
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	0
d. Other known causes	4
e. Unknown causes	0
2. Total CMS Downtime	4
3. Total duration of CMS Downtime x (100) [Total source operating time] <sup>2</sup>	0.2 %

<sup>1</sup> For opacity, record all times in minutes. For gases, record all times in hours.

<sup>2</sup> For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

**SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS AND  
MONITORING SYSTEMS PERFORMANCE**

*(per 40 CFR 60.7(d))*

Pollutant: NO<sub>x</sub>

Applicable NSPS Subpart: Db

Reporting period dates: From 10/01/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Nitrogen Oxide shall not exceed 0.1 pound/MMBtu on a 30-day rolling average.

Monitor Manufacturer and Model No.: ABB Lumus 11, Serial No. 23042-5-8018413

Date of Latest CMS Certification or Audit: CGA on 12/7/12 (NO<sub>x</sub>), 12/7/12 (O<sub>2</sub>)

Process Unit(s) Description: Boiler B-6 (EPN 3-00, EQT 0048)

Total source operating time in reporting period: 2,040 hours

<b>Emissions Data Summary<sup>1</sup></b>	
1. Duration of excess emissions in reporting period due to:	<i>(hours)</i>
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	0
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	0
3. Total duration of excess emissions x (100) [Total source operating time] <sup>2</sup>	0.0 %

<b>CMS Performance Summary<sup>1</sup></b>	
1. CMS downtime in reporting period due to:	<i>(hours)</i>
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	0
d. Other known causes	5
e. Unknown causes	0
2. Total CMS Downtime	5
3. Total duration of CMS Downtime x (100) [Total source operating time] <sup>2</sup>	0.2 %

<sup>1</sup> For opacity, record all times in minutes. For gases, record all times in hours.

<sup>2</sup> For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

**SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS AND  
MONITORING SYSTEMS PERFORMANCE**

*(per 40 CFR 60.7(d))*

Pollutant: **NO<sub>x</sub>**

Applicable NSPS Subpart: Db

Reporting period dates: From 10/01/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Nitrogen Oxide shall not exceed 0.1 pound/MMBtu on a 30-day rolling average.

Monitor Manufacturer and Model No.: Thermo Environmental 42i (NO<sub>x</sub>), Thermo Environmental (O<sub>2</sub>)

Date of Latest CMS Certification or Audit: CGA on 12/12/12 (NO<sub>x</sub>), 12/6/12 (O<sub>2</sub>)

Process Unit(s) Description: Boiler TB-01 (EPN 1-06, EQT 0010)

Total source operating time in reporting period: 2,208 hours

<b>Emissions Data Summary<sup>1</sup></b>	
1. Duration of excess emissions in reporting period due to:	<i>(hours)</i>
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	0
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	0
3. Total duration of excess emissions x (100) [Total source operating time] <sup>2</sup>	0.0 %

<b>CMS Performance Summary<sup>1</sup></b>	
1. CMS downtime in reporting period due to:	<i>(hours)</i>
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	48
d. Other known causes	9
e. Unknown causes	0
2. Total CMS Downtime	57
3. Total duration of CMS Downtime x (100) [Total source operating time] <sup>2</sup>	2.6%

<sup>1</sup> For opacity, record all times in minutes. For gases, record all times in hours.

<sup>2</sup> For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

**SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS AND  
MONITORING SYSTEMS PERFORMANCE**

*(per 40 CFR 60.7(d) and 60.108a(d))*

Pollutant: NO<sub>x</sub>

Applicable NSPS Subpart: Ja

Reporting period dates: From 11/13/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Nitrogen Oxide corrected to 0% O<sub>2</sub> shall not exceed 40 ppm on a 30-day rolling average

Monitor Manufacturer and Model No.: Thermo Environmental 42i (NO<sub>x</sub>)/(O<sub>2</sub>)

Date of Latest CMS Certification or Audit: Initial Certification RATA on 11/27/12

Process Unit(s) Description: Benzene Recovery Unit Reboiler (EPN 1-09, EQT 0127)

Total source operating time in reporting period: 1,176 hours

<b>Emissions Data Summary<sup>1</sup></b>	
1. Duration of excess emissions in reporting period due to:	<i>(hours)</i>
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	0
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	0
3. Total duration of excess emissions x (100) [Total source operating time] <sup>2</sup>	0.0 %

<b>CMS Performance Summary<sup>1</sup></b>	
1. CMS downtime in reporting period due to:	<i>(hours)</i>
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	24
d. Other known causes	4
e. Unknown causes	0
2. Total CMS Downtime	28
3. Total duration of CMS Downtime x (100) [Total source operating time] <sup>2</sup>	2.4 %

<sup>1</sup> For opacity, record all times in minutes. For gases, record all times in hours.

<sup>2</sup> For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.



**SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS AND MONITORING SYSTEMS PERFORMANCE**

*(per 40 CFR 60.7(d) and 60.108a(d))*

Pollutant: **Total Sulfur**

Applicable NSPS Subpart: Ja<sup>1</sup> (Required by Consent Decree: 3:10-cv-00563-bbc, Paragraph 49.a.ii)

Reporting period dates: From 11/13/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: None

Monitor Manufacturer and Model No.: Thermo Scientific SOLA II

Date of Latest CMS Certification or Audit: CGA on 12/12/12

Process Unit(s) Description: North Flare Stack (EPN 20-72, EQT 0035), North Flare Header

Total source operating time in reporting period: 1,176 hours

<b>Emissions Data Summary<sup>2</sup></b>	
1. Duration of excess emissions in reporting period due to:	<i>(hours)</i>
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	0
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	0
3. Total duration of excess emissions x (100) [Total source operating time] <sup>3</sup>	0.0 %

<b>CMS Performance Summary<sup>2</sup></b>	
1. CMS downtime in reporting period due to:	<i>(hours)</i>
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	0
d. Other known causes	20
e. Unknown causes	0
2. Total CMS Downtime	20
3. Total duration of CMS Downtime x (100) [Total source operating time] <sup>3</sup>	1.7 %

<sup>1</sup> According to 40 CFR 60.107a(e), in place monitoring systems capable of complying with Subpart Ja must comply with the monitoring requirements of Subpart Ja.

<sup>2</sup> For opacity, record all times in minutes. For gases, record all times in hours.

<sup>3</sup> For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

**SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS AND  
MONITORING SYSTEMS PERFORMANCE**

*(per 40 CFR 60.7(d) and 60.108a(d))*

Pollutant: **Total Sulfur**

Applicable NSPS Subpart: Ja<sup>1</sup> (Required by Consent Decree: 3:10-cv-00563-bbc, Paragraph 49.a.ii)

Reporting period dates: From 11/13/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: None

Monitor Manufacturer and Model No.: Thermo Scientific SOLA II

Date of Latest CMS Certification or Audit: CGA on 12/12/12

Process Unit(s) Description North Flare Stack (EPN 20-72, EQT 0035), Hydrocracker Flare Header

Total source operating time in reporting period: 1,176 hours

<b>Emissions Data Summary<sup>2</sup></b>	
1. Duration of excess emissions in reporting period due to:	<i>(hours)</i>
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	0
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	0
3. Total duration of excess emissions x (100) [Total source operating time] <sup>3</sup>	0.0 %

<b>CMS Performance Summary<sup>2</sup></b>	
1. CMS downtime in reporting period due to:	<i>(hours)</i>
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	0
d. Other known causes	48
e. Unknown causes	0
2. Total CMS Downtime	48
3. Total duration of CMS Downtime x (100) [Total source operating time] <sup>3</sup>	4.1 %

<sup>1</sup> According to 40 CFR 60.107a(e), in place monitoring systems capable of complying with Subpart Ja must comply with the monitoring requirements of Subpart Ja.

<sup>2</sup> For opacity, record all times in minutes. For gases, record all times in hours.

<sup>3</sup> For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

**SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS AND  
MONITORING SYSTEMS PERFORMANCE**

*(per 40 CFR 60.7(d) and 60.108a(d))*

Pollutant: **Total Sulfur**

Applicable NSPS Subpart: Ja<sup>1</sup> (Required by Consent Decree: 3:10-cv-00563-bbc, Paragraph 49.a.ii)

Reporting period dates: From 11/13/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: None

Monitor Manufacturer and Model No.: Thermo Scientific SOLA II

Date of Latest CMS Certification or Audit: CGA on 12/12/12

Process Unit(s) Description: South Flare Stack (EPN 3-77, EQT 0049)

Total source operating time in reporting period: 1,176 hours

<b>Emissions Data Summary<sup>1</sup></b>	
1. Duration of excess emissions in reporting period due to:	<i>(hours)</i>
a. Startup/shutdown	0
b. Control equipment problems	0
c. Process problems	0
d. Other known causes	0
e. Unknown causes	0
2. Total duration of excess emission	0
3. Total duration of excess emissions x (100) [Total source operating time] <sup>2</sup>	0.0 %

<b>CMS Performance Summary<sup>1</sup></b>	
1. CMS downtime in reporting period due to:	<i>(hours)</i>
a. Monitor equipment malfunctions	0
b. Non-Monitor equipment malfunctions	0
c. Quality assurance calibration	0
d. Other known causes	4
e. Unknown causes	0
2. Total CMS Downtime	4
3. Total duration of CMS Downtime x (100) [Total source operating time] <sup>2</sup>	0.3 %

<sup>1</sup> According to 40 CFR 60.107a(e), in place monitoring systems capable of complying with Subpart Ja must comply with the monitoring requirements of Subpart Ja.

<sup>2</sup> For opacity, record all times in minutes. For gases, record all times in hours.

<sup>3</sup> For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

**GASEOUS AND OPACITY EXCESS EMISSIONS AND  
MONITORING SYSTEMS PERFORMANCE**

*(per 40 CFR 60.7(d) and 60.108a(d))*

Pollutant: **SO<sub>2</sub>**

Applicable NSPS Subpart: Ja

Reporting period dates: From 10/01/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: SO<sub>2</sub> corrected to 0% O<sub>2</sub> shall not exceed 250 ppm on a 12-hour rolling average

Monitor Manufacturer and Model No.: Brimstone SGX-231(SO<sub>2</sub>)/Rosemount Oxymitter 4000(O<sub>2</sub>)

Date of Latest CMS Certification or Audit: CGA on 11/29/12 (SO<sub>2</sub>), 12/5/12 (O<sub>2</sub>)

Process Unit(s) Description: #2 SRU Incinerator (EPN 1-93, EQT 0019)

Total source operating time in reporting period: 2,208 hours

**EXCESS EMISSIONS**

Date	Start	End	Duration (hours)	Max 12-HRA (ppm)	Cause	Corrective Action
None						
<b>TOTAL</b>			<b>0</b>			

**CMS PERFORMANCE<sup>1</sup>**

Date	Start	End	Duration (hours)	Cause	Corrective Action
10/1/12	00:00	18:00	18	(Continued from 3 <sup>rd</sup> Quarter) Loose RTD wire caused heater to remain energized too long causing a fuse to blow and de-energize the heater. Low temperature allowed liquid to build up and contaminate the sample line.	Repaired RTD, checked heater operation, and steamed out sample line.
10/2/12	08:11	09:11	1	O <sub>2</sub> offline to clean cell.	N/A
10/2/12	09:58	10:58	1	O <sub>2</sub> offline to clean cell.	N/A
10/2/12	13:47	14:47	1	O <sub>2</sub> offline to clean cell and adjust.	N/A
10/15/12	13:37	14:47	1	SO <sub>2</sub> adjusted for calibration drift.	N/A
10/19/12	08:54	09:54	1	SO <sub>2</sub> adjusted for calibration drift.	N/A
11/29/12	08:37	12:37	4	SO <sub>2</sub> Cylinder Gas Audit.	N/A
11/30/12	08:39	10:39	2	SO <sub>2</sub> offline to replace sample pump.	N/A
11/30/12	13:11	15:11	2	SO <sub>2</sub> offline for adjustment following sample pump replacement.	N/A
12/1/12	12:52	13:52	1	SO <sub>2</sub> and O <sub>2</sub> manually checked after poor performance on daily calibration drift check.	N/A
12/2/12	14:15		13	SO <sub>2</sub> and O <sub>2</sub> manually checked after poor performance on daily calibration drift check. SO <sub>2</sub> CEMS shutdown for cleaning.	Cleaned, calibrated, and placed in service.
12/3/12		03:15			
12/5/12	07:54	08:54	1	O <sub>2</sub> Cylinder Gas Audit	N/A
12/14/12	08:37	09:37	1	SO <sub>2</sub> adjusted for calibration drift.	N/A
12/14/12	10:06	11:06	1	SO <sub>2</sub> adjusted for calibration drift.	N/A
12/15/12	14:32	15:32	1	SO <sub>2</sub> adjusted for calibration drift.	N/A

**GASEOUS AND OPACITY EXCESS EMISSIONS AND  
MONITORING SYSTEMS PERFORMANCE**

*(per 40 CFR 60.7(d) and 60.108a(d))*

Pollutant: SO<sub>2</sub>

Applicable NSPS Subpart: Ja

Reporting period dates: From 10/01/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: SO<sub>2</sub> corrected to 0% O<sub>2</sub> shall not exceed 250 ppm on a 12-hour rolling average

Monitor Manufacturer and Model No.: Brimstone SGX-231(SO<sub>2</sub>)/Rosemount Oxymitter 4000(O<sub>2</sub>)

Date of Latest CMS Certification or Audit: CGA on 11/29/12 (SO<sub>2</sub>), 12/5/12 (O<sub>2</sub>)

Process Unit(s) Description: #2 SRU Incinerator (EPN 1-93, EQT 0019)

Total source operating time in reporting period: 2,208 hours

CMS PERFORMANCE <sup>1</sup> (continued)					
Date	Start	End	Duration (hours)	Cause	Corrective Action
12/17/12	09:18	15:18	6	SO <sub>2</sub> offline to replace failed pressure regulator.	Calibrated and placed in service.
12/20/12	08:53	10:53	2	SO <sub>2</sub> adjusted for calibration drift.	N/A
12/21/12	11:07	12:07	1	SO <sub>2</sub> adjusted for calibration drift.	N/A
12/24/12	09:57	10:57	1	SO <sub>2</sub> adjusted for calibration drift.	N/A
TOTAL			59		

<sup>1</sup>In accordance with 40 CFR 60.108a(d)(6), changes made in operation of the emission control system during the period of data unavailability which could affect the ability of the system to meet the applicable emission limit have been compared with operation of the control system and affected facility before and following the period of data unavailability to ensure that any changes made in operation of the emission control system during the period of data unavailability did not affect the ability of the system to meet the applicable emission limit.

**GASEOUS AND OPACITY EXCESS EMISSIONS AND  
MONITORING SYSTEMS PERFORMANCE**

*(per 40 CFR 60.7(d) and 60.108a(d))*

Pollutant: **SO<sub>2</sub>**

Applicable NSPS Subpart: Ja

Reporting period dates: From 10/01/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: SO<sub>2</sub> corrected to 0% O<sub>2</sub> shall not exceed 250 ppm on a 12-hour rolling average.

Monitor Manufacturer and Model No.: Brimstone 991-CEM-X(SO<sub>2</sub>)/ Rosemount Oxymitter 4000(O<sub>2</sub>)

Date of Latest CMS Certification or Audit: CGA on 11/29/12 (SO<sub>2</sub>), 12/5/12 (O<sub>2</sub>)

Process Unit(s) Description: #3 SRU Incinerator (EPN 5-00, EQT 0079)

Total source operating time in reporting period: 2,208 hours

EXCESS EMISSIONS						
Date	Start	End	Duration (hours)	Max 12-HRA (ppm)	Cause	Corrective Action
None						
TOTAL			0			

CMS PERFORMANCE <sup>1</sup>						
Date	Start	End	Duration (hours)	Cause	Corrective Action	
10/4/12	08:01	09:01	1	SO <sub>2</sub> adjusted for calibration drift.	N/A	
10/10/12	10:05	11:05	1	SO <sub>2</sub> adjusted for calibration drift.	N/A	
10/13/12	09:05	10:05	1	SO <sub>2</sub> adjusted for calibration drift.	N/A	
10/15/12	08:51	09:51	1	SO <sub>2</sub> adjusted for calibration drift.	N/A	
10/27/12	10:44	11:44	1	SO <sub>2</sub> adjusted for calibration drift.	N/A	
10/31/12	08:51	09:51	1	SO <sub>2</sub> adjusted for calibration drift.	N/A	
10/31/12	10:38	11:38	1	SO <sub>2</sub> adjusted for calibration drift.	N/A	
11/1/12	13:03	15:03	2	SO <sub>2</sub> adjusted for calibration drift.	N/A	
11/2/12	09:02	10:02	1	SO <sub>2</sub> adjusted for calibration drift.	N/A	
11/2/12	10:26	11:26	1	SO <sub>2</sub> adjusted for calibration drift.	N/A	
11/2/12	13:09	15:09	2	SO <sub>2</sub> adjusted for calibration drift.	N/A	
11/13/12	09:00		50	SO <sub>2</sub> output bad due to sample line plugging.	Filters replaced and sample line steamed out.	
11/15/12		11:00				
11/15/12	15:45	18:45	3	SO <sub>2</sub> output bad due to sample line plugging.	Sample line steamed out.	
11/15/12	19:15	21:15	2	SO <sub>2</sub> output bad due to sample line plugging.	Sample line steamed out.	
11/15/12	23:15		12	SO <sub>2</sub> output bad due to sample line plugging.	Sample line steamed out.	
11/16/12		11:15				
11/16/12	22:15		20	SO <sub>2</sub> output bad due to sample line plugging.	Sample line replaced with new sample line with sulfur resistant coating.	
11/17/12		18:15				

**GASEOUS AND OPACITY EXCESS EMISSIONS AND  
MONITORING SYSTEMS PERFORMANCE**

*(per 40 CFR 60.7(d) and 60.108a(d))*

Pollutant: SO<sub>2</sub>

Applicable NSPS Subpart: Ja

Reporting period dates: From 10/01/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: SO<sub>2</sub> corrected to 0% O<sub>2</sub> shall not exceed 250 ppm on a 12-hour rolling average.

Monitor Manufacturer and Model No.: Brimstone 991-CEM-X(SO<sub>2</sub>)/ Rosemount Oxymitter 4000(O<sub>2</sub>)

Date of Latest CMS Certification or Audit: CGA on 11/29/12 (SO<sub>2</sub>), 12/5/12 (O<sub>2</sub>)

Process Unit(s) Description: #3 SRU Incinerator (EPN 5-00, EQT 0079)

Total source operating time in reporting period: 2,208 hours

CMS PERFORMANCE <sup>1</sup> (continued)					
Date	Start	End	Duration (hours)	Cause	Corrective Action
11/19/12	07:42	08:42	1	SO <sub>2</sub> adjusted for calibration drift.	N/A
11/29/12	13:50	14:50	1	SO <sub>2</sub> Cylinder Gas Audit.	N/A
12/5/12	10:02	11:02	1	O <sub>2</sub> Cylinder Gas Audit.	N/A
12/9/12	11:24	12:24	1	SO <sub>2</sub> adjusted for calibration drift.	N/A
12/11/12	11:03	12:03	1	SO <sub>2</sub> adjusted for calibration drift.	N/A
12/15/12	14:57	15:47	1	SO <sub>2</sub> adjusted for calibration drift.	N/A
12/26/12	10:06	11:06	1	SO <sub>2</sub> adjusted for calibration drift.	N/A
12/28/12	10:27	11:27	1	SO <sub>2</sub> adjusted for calibration drift.	N/A
12/30/12	09:23	10:23	1	SO <sub>2</sub> adjusted for calibration drift.	N/A
TOTAL			109		

<sup>1</sup>In accordance with 40 CFR 60.108a(d)(6), changes made in operation of the emission control system during the period of data unavailability which could affect the ability of the system to meet the applicable emission limit have been compared with operation of the control system and affected facility before and following the period of data unavailability to ensure that any changes made in operation of the emission control system during the period of data unavailability did not affect the ability of the system to meet the applicable emission limit.

**GASEOUS AND OPACITY EXCESS EMISSIONS AND  
MONITORING SYSTEMS PERFORMANCE**

*(per 40 CFR 60.7(d) and 60.108a(d))*

Pollutant: H<sub>2</sub>S

Applicable NSPS Subpart: J and Ja (Benzene Recovery Unit Reboiler Subject to Ja)

Reporting period dates: From 10/01/12 to 12/31/12 Subpart J

Reporting period dates: From 11/13/12 to 12/31/12 Subpart Ja

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Hydrogen Sulfide shall not exceed 162 ppm on a 3-hour rolling average (J and Ja) and 60 ppm on a 365 day rolling average (Ja only)

Monitor Manufacturer and Model No.: Ametek 4661

Date of Latest CMS Certification or Audit: CGA on 11/30/12

Process Unit(s) Description: Area 2 Fuel Drum for: MDH Product and Fractionator Heaters (EPN 2-92, EQT 0033); No.1 Crude Heater (EPN 12-72A, EQT 022); ROSE Heater (EPN 1-80, EQT 0014); Vacuum Heater (EPN 1-76, EQT 0013); Platformer Charge Heater (EPN 17-72 a,b,c , EQT 0028); Platformer Debut Reboiler (EPN 19-72, EQT 0029); NHT Charge Heater (EPN 14-72, EQT 0023); NHT Debut Reboiler (EPA 15-72, EQT 0024); NHT Depent Reboiler (EPA 16-72, EQT 0027); Benzene Recovery Unit Reboiler (EPN 1-09, EQT 0127)

Total source operating time in reporting period: 2,208 hours (Subpart J); 1,176 hours (Subpart Ja)

Ja EXCESS EMISSIONS						
Date	Start	End	Duration (hours)	Max 12-HRA (ppm)	Cause	Corrective Action
None						
TOTAL			0			

Ja CMS PERFORMANCE <sup>1</sup>						
Date	Start	End	Duration (hours)	Cause	Corrective Action	
11/13/12	07:41	09:41	2	Adjusted for calibration drift.	N/A	
11/29/12	13:39	15:39	2	Analyzer malfunctioned.	Instrument maintenance repaired and returned to service.	
11/30/12	08:31	09:31	1	Adjusted for calibration drift.	N/A	
11/30/12	09:58	10:58	1	Cylinder Gas Audit	N/A	
12/1/12	12:43	13:43	1	Adjusted for calibration drift.	N/A	
12/3/12	07:25	08:25	1	Adjusted for calibration drift.	N/A	
12/7/12	08:43	09:43	1	Adjusted for calibration drift.	N/A	
12/11/12	07:25	08:25	1	Adjusted for calibration drift.	N/A	
12/12/12	07:23	08:23	1	Adjusted for calibration drift.	N/A	
12/24/12	07:35	08:35	1	Adjusted for calibration drift.	N/A	
TOTAL			12			

<sup>1</sup>In accordance with 40 CFR 60.108a(d)(6), changes made in operation of the emission control system during the period of data unavailability which could affect the ability of the system to meet the applicable emission limit have been compared with operation of the control system and affected facility before and following the period of data unavailability to ensure that any changes made in operation of the emission control system during the period of data unavailability did not affect the ability of the system to meet the applicable emission limit.



**GASEOUS AND OPACITY EXCESS EMISSIONS AND  
MONITORING SYSTEMS PERFORMANCE**

*(per 40 CFR 60.7(d) and 60.108a(d))*

Pollutant: NO<sub>x</sub>

Applicable NSPS Subpart: Ja

Reporting period dates: From 11/13/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Nitrogen Oxide corrected to 0% O<sub>2</sub> shall not exceed 40 ppm on a 30-day rolling average

Monitor Manufacturer and Model No.: Thermo Environmental 42i (NO<sub>x</sub>)/(O<sub>2</sub>)

Date of Latest CMS Certification or Audit: Initial Certification RATA on 11/27/12

Process Unit(s) Description: Benzene Recovery Unit Reboiler (EPN 1-09, EQT 0127)

Total source operating time in reporting period: 1,176 hours

**EXCESS EMISSIONS**

Date	Start	End	Duration (hours)	Max 12-HRA (ppm)	Cause	Corrective Action
None						
TOTAL			0			

**CMS PERFORMANCE<sup>1</sup>**

Date	Start	End	Duration (hours)	Cause	Corrective Action
11/15/12	08:03	09:03	1	Adjusted for calibration drift.	N/A
11/16/12	10:16	11:16	1	Adjusted for calibration drift.	N/A
11/16/12	12:57	13:57	1	Adjusted for calibration drift.	N/A
11/26/12	00:00		24	O <sub>2</sub> Out of Control. Calibration drift check not performed on 11/26/12 due to tubing leak that emptied reference gas bottle with no replacement bottle available in on site inventory.	New O <sub>2</sub> reference gas bottle was rush ordered and placed in service on 11/27/12. Calibration drift check performed satisfactorily.
11/27/12		00:00			
12/7/12	09:09	10:09	1	Adjusted for calibration drift.	N/A
TOTAL			28		

<sup>1</sup>In accordance with 40 CFR 60.108a(d)(6), changes made in operation of the emission control system during the period of data unavailability which could affect the ability of the system to meet the applicable emission limit have been compared with operation of the control system and affected facility before and following the period of data unavailability to ensure that any changes made in operation of the emission control system during the period of data unavailability did not affect the ability of the system to meet the applicable emission limit.

**GASEOUS AND OPACITY EXCESS EMISSIONS AND  
MONITORING SYSTEMS PERFORMANCE**

*(per 40 CFR 60.7(d) and 60.108a(d))*

Pollutant: **Total Sulfur**

Applicable NSPS Subpart: Ja (Required by Consent Decree: 3:10-cv-00563-bbc, Paragraph 49.a.ii)

Reporting period dates: From 11/13/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: None

Monitor Manufacturer and Model No.: Thermo Scientific SOLA II

Date of Latest CMS Certification or Audit: CGA on 12/12/12

Process Unit(s) Description: North Flare Stack (EPN 20-72, EQT 0035), North Flare Header

Total source operating time in reporting period: 1,176 hours

**EXCESS EMISSIONS**

Date	Start	End	Duration (hours)	Max 12-HRA (ppm)	Cause	Corrective Action
None						
<b>TOTAL</b>			0			

**CMS PERFORMANCE<sup>1</sup>**

Date	Start	End	Duration (hours)	Cause	Corrective Action
11/20/12	09:58	11:58	2	Adjusted for calibration drift.	N/A
11/26/12	10:19	15:19	5	Offline due to plugging.	Cleared plugging, calibrated and placed in service.
11/27/12	07:53	08:53	1	Adjusted for calibration drift.	N/A
12/12/12	08:16	10:16	2	Cylinder Gas Audit.	N/A
12/21/12	10:57	16:57	6	Out of service for periodic maintenance.	Completed maintenance, calibrated and placed in service.
12/31/12	07:00	11:00	4	Malfunctioned while shifting to high range during daily validation check. Calibration drift check satisfactory on low range.	Instrument maintenance checked out analyzer and placed it back in service. The same problem re-occurred on 1/2/13 and the 10-port valve that controls range switches was replaced.
<b>TOTAL</b>			20		

<sup>1</sup>In accordance with 40 CFR 60.108a(d)(6), changes made in operation of the emission control system during the period of data unavailability which could affect the ability of the system to meet the applicable emission limit have been compared with operation of the control system and affected facility before and following the period of data unavailability to ensure that any changes made in operation of the emission control system during the period of data unavailability did not affect the ability of the system to meet the applicable emission limit.

**GASEOUS AND OPACITY EXCESS EMISSIONS AND  
MONITORING SYSTEMS PERFORMANCE**

*(per 40 CFR 60.7(d) and 60.108a(d))*

Pollutant: **Total Sulfur**

Applicable NSPS Subpart: Ja (Required by Consent Decree: 3:10-cv-00563-bbc, Paragraph 49.a.ii)

Reporting period dates: From 11/13/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: None

Monitor Manufacturer and Model No.: Thermo Scientific SOLA II

Date of Latest CMS Certification or Audit: CGA on 12/12/12

Process Unit(s) Description: North Flare Stack (EPN 20-72, EQT 0035), Hydrocracker Flare Header

Total source operating time in reporting period: 1,176 hours

**EXCESS EMISSIONS**

Date	Start	End	Duration (hours)	Max 12-HRA (ppm)	Cause	Corrective Action
None						
<b>TOTAL</b>			<b>0</b>			

**CMS PERFORMANCE<sup>1</sup>**

Date	Start	End	Duration (hours)	Cause	Corrective Action
12/12/12	08:16	10:16	2	Cylinder Gas Audit.	N/A
12/26/12	13:01		46	Analyzer output dropped to near zero. Daily calibration drift checks were satisfactory each day. Analyzer failed to properly switch to sample.	Replaced 10-port valve that controls analyzer switching functions.
12/28/12		11:01			
<b>TOTAL</b>			<b>48</b>		

<sup>1</sup>In accordance with 40 CFR 60.108a(d)(6), changes made in operation of the emission control system during the period of data unavailability which could affect the ability of the system to meet the applicable emission limit have been compared with operation of the control system and affected facility before and following the period of data unavailability to ensure that any changes made in operation of the emission control system during the period of data unavailability did not affect the ability of the system to meet the applicable emission limit.

**GASEOUS AND OPACITY EXCESS EMISSIONS AND  
MONITORING SYSTEMS PERFORMANCE**

*(per 40 CFR 60.7(d) and 60.108a(d))*

Pollutant: **Total Sulfur**

Applicable NSPS Subpart: Ja (Required by Consent Decree: 3:10-cv-00563-bbc, Paragraph 49.a.ii)

Reporting period dates: From 11/13/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: None

Monitor Manufacturer and Model No.: Thermo Scientific SOLA II

Date of Latest CMS Certification or Audit: CGA on 12/12/12

Process Unit(s) Description: South Flare Stack (EPN 3-77, EQT 0049)

Total source operating time in reporting period: 1,176 hours

EXCESS EMISSIONS						
Date	Start	End	Duration (hours)	Max 12-HRA (ppm)	Cause	Corrective Action
None						
TOTAL			0			

CMS PERFORMANCE <sup>1</sup>						
Date	Start	End	Duration (hours)	Cause	Corrective Action	
12/3/12	10:32	11:32	1	Adjusted for calibration drift.	N/A	
12/12/12	08:16	10:16	2	Cylinder Gas Audit.	N/A	
12/14/12	13:32	14:32	1	Adjusted for calibration drift.	N/A	
TOTAL			3			

<sup>1</sup>In accordance with 40 CFR 60.108a(d)(6), changes made in operation of the emission control system during the period of data unavailability which could affect the ability of the system to meet the applicable emission limit have been compared with operation of the control system and affected facility before and following the period of data unavailability to ensure that any changes made in operation of the emission control system during the period of data unavailability did not affect the ability of the system to meet the applicable emission limit.

# DATA ASSESSMENT REPORT

*(per 40 CFR 60, Appendix F, Section 7)*

Pollutant: **Opacity**

Applicable NSPS Subpart:   J  

Reporting period dates: From 10/01/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Opacity shall not exceed 30% for more than one 6-minute interval in any 1-hour period

Monitor Manufacturer and Model No.: Monitor Labs Model 550

Process Unit(s) Description: #2 FCCU ESP Stack (EPN 2-77, EQT 0032)

CEM Sampling Location: #2 FCCU ESP Stack

CEM Span Value: Opacity 100%

## I. ACCURACY ASSESSMENT RESULTS

Not applicable to opacity monitors.

## II. CALIBRATION DRIFT ASSESSMENT

### A. Out-of Control Periods:

1. Dates:   N/A  

2. Number of Days   N/A  

B. Corrective Actions:   N/A  

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# DATA ASSESSMENT REPORT

(per 40 CFR 60, Appendix F, Section 7)

Pollutant: **CO**

Applicable NSPS Subpart: J (Required by Consent Decree: 3:10-cv-00563-bbc, Paragraph 27)

Reporting period dates: From 10/01/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: CO corrected to 0% O<sub>2</sub> shall not exceed 500 ppm on a 1 hour rolling average

Monitor Manufacturer and Model No.: Thermo Environmental 48i (CO)/Servomex 1155 (O<sub>2</sub>)

Process Unit(s) Description: #2 FCCU ESP Stack (EPN 2-77, EQT 0032)

CEM Sampling Location: #2 FCCU ESP Stack

CEM Span Value: Carbon Monoxide 1000 ppm

## I. ACCURACY ASSESSMENT RESULTS (CGA):

	CO #1 (low scale)	CO #2 (high scale)	O <sub>2</sub> #1 (low scale)	O <sub>2</sub> #2 (high scale)
Date of Audit	12/4/12	12/4/12	12/4/12	12/4/12
Audit Gas Cylinder No.	CC334652	SG9111608	CC62176	ALM004031
Date of Audit Gas Cert.	1/20/11	1/23/12	8/31/12	8/30/12
Type of Certification	EPA Protocol 1	EPA Protocol 1	EPA Protocol 1	EPA Protocol 1
Certified Audit Value	253.3	594.4	6.1	10.1
CEM Response Value	255.3	608.0	5.9	9.8
Accuracy	0.8%	2.3%	3.3%	3.0%
Standard	<15%	<15%	<15%	<15%

## II. CALIBRATION DRIFT ASSESSMENT

### A. Out-of Control Periods:

1. Dates: N/A

2. Number of Days N/A

B. Corrective Actions: N/A

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# DATA ASSESSMENT REPORT

*(per 40 CFR 60, Appendix F, Section 7)*

Pollutant: SO<sub>2</sub>

Applicable NSPS Subpart: J (Required by Consent Decree: 3:10-cv-00563-bbc, Paragraph 18)

Reporting period dates: From 10/01/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: SO<sub>2</sub> corrected to 0% O<sub>2</sub> shall not exceed 50 ppm on a 7 day rolling average and 25 ppm on a 365 day rolling average

Monitor Manufacturer and Model No.: Thermo Environmental 43i (SO<sub>2</sub>)/Servomex 1155 (O<sub>2</sub>)

Process Unit(s) Description: #2 FCCU ESP Stack (EPN 2-77, EQT 0032)

CEM Sampling Location: #2 FCCU ESP Stack

CEM Span Value: Sulfur Dioxide 500 ppm

## I. ACCURACY ASSESSMENT RESULTS (CGA):

	SO <sub>2</sub> #1 (low scale)	SO <sub>2</sub> #2 (high scale)	O <sub>2</sub> #1 (low scale)	O <sub>2</sub> #2 (high scale)
Date of Audit	12/4/12	12/4/12	12/4/12	12/4/12
Audit Gas Cylinder No.	CC310467	CC334126	CC62176	ALM004031
Date of Audit Gas Cert.	1/24/12	1/23/12	8/31/12	8/30/12
Type of Certification	EPA Protocol 1	EPA Protocol 1	EPA Protocol 1	EPA Protocol 1
Certified Audit Value	123.6	271.6	6.1	10.1
CEM Response Value	133.4	278.0	5.9	9.8
Accuracy	7.9%	2.4%	3.3%	3.0%
Standard	<15%	<15%	<15%	<15%

## II. CALIBRATION DRIFT ASSESSMENT

### A. Out-of Control Periods:

1. Dates: N/A

2. Number of Days N/A

B. Corrective Actions: N/A

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# DATA ASSESSMENT REPORT

*(per 40 CFR 60, Appendix F, Section 7)*

Pollutant: **NOx**

Applicable NSPS Subpart: None (Required by Consent Decree: 3:10-cv-00563-bbc, Paragraph 15)

Reporting period dates: From 10/01/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Not Applicable

Monitor Manufacturer and Model No.: Thermo Environmental 42i (NOx)/Servomex 1155 (O<sub>2</sub>)

Process Unit(s) Description: #2 FCCU ESP Stack (EPN 2-77, EQT 0032)

CEM Sampling Location: #2 FCCU ESP Stack

CEM Span Value: Nitrogen Oxide 250 ppm

## I. ACCURACY ASSESSMENT RESULTS (CGA):

	NOx #1 <u>(low scale)</u>	NOx #2 <u>(high scale)</u>	O <sub>2</sub> #1 <u>(low scale)</u>	O <sub>2</sub> #2 <u>(high scale)</u>
Date of Audit	12/4/12	12/4/12	12/4/12	12/4/12
Audit Gas Cylinder No.	CC357679	CC47662	CC62176	ALM004031
Date of Audit Gas Cert.	1/23/12	1/23/12	8/31/12	8/30/12
Type of Certification	EPA Protocol 1	EPA Protocol 1	EPA Protocol 1	EPA Protocol 1
Certified Audit Value	55.9	127.9	6.1	10.1
CEM Response Value	54.9	125.0	5.9	9.8
Accuracy	1.8%	2.3%	3.3%	3.0%
Standard	<15%	<15%	<15%	<15%

## II. CALIBRATION DRIFT ASSESSMENT

### A. Out-of Control Periods:

1. Dates: N/A

2. Number of Days N/A

B. Corrective Actions: N/A

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# DATA ASSESSMENT REPORT

(per 40 CFR 60, Appendix F, Section 7)

Pollutant: **SO<sub>2</sub>**

Applicable NSPS Subpart:   Ja  

Reporting period dates: From 10/01/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: SO<sub>2</sub> corrected to 0% O<sub>2</sub> shall not exceed 250 ppm on a 12-hour rolling average.

Monitor Manufacturer and Model No.: Brimstone SGX-231(SO<sub>2</sub>)/Rosemount Oxymitter 4000(O<sub>2</sub>)

Source unit: #2 SRU Incinerator (EPN 1-93, EQT 0019)

CEM Sampling Location: #2 SRU Incinerator (#1-93)

CEM Span Value: Sulfur Dioxide 500 ppm; Oxygen 25%

## I. ACCURACY ASSESSMENT RESULTS (CGA):

	SO <sub>2</sub> #1 (low scale)	SO <sub>2</sub> #2 (high scale)	O <sub>2</sub> #1 (low scale)	O <sub>2</sub> #2 (high scale)
Date of Audit	11/29/12	11/29/12	12/5/12	12/5/12
Audit Gas Cylinder No.	CC310467	CC334126	CC62176	ALM004031
Date of Audit Gas Cert.	1/24/12	1/23/12	8/31/12	8/30/12
Type of Certification	EPA Protocol 1	EPA Protocol 1	EPA Protocol 1	EPA Protocol 1
Certified Audit Value	123.6	271.6	6.10	10.10
CEM Response Value	134.7	263.7	6.10	10.10
Accuracy	9.0%	2.9%	0.0%	0.0%
Standard	<15%	<15%	<15%	<15%

## II. CALIBRATION DRIFT ASSESSMENT

### A. Out-of Control Periods:

1. Dates:   N/A  

2. Number of Days   N/A  

B. Corrective Actions:   N/A  

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# DATA ASSESSMENT REPORT

(per 40 CFR 60, Appendix F, Section 7)

Pollutant: **SO<sub>2</sub>**

Applicable NSPS Subpart: Ja

Reporting period dates: From 10/01/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: SO<sub>2</sub> corrected to 0% O<sub>2</sub> shall not exceed 250 ppm on a 12-hour rolling average.

Monitor Manufacturer and Model No.: Brimstone 991-CEM-X (SO<sub>2</sub>), Rosemount Oxymitter 4000 (O<sub>2</sub>)

Source unit: #3 SRU Incinerator (EPN 5-00, EQT 0079)

CEM Sampling Location: #3 SRU Incinerator (#5-00)

CEM Span Value: Sulfur Dioxide 500 ppm; Oxygen 25%

## I. ACCURACY ASSESSMENT RESULTS (CGA):

	SO <sub>2</sub> #1 (low scale)	SO <sub>2</sub> #2 (high scale)	O <sub>2</sub> #1 (low scale)	O <sub>2</sub> #2 (high scale)
Date of Audit	11/29/12	11/29/12	12/5/12	12/5/12
Audit Gas Cylinder No.	CC310467	CC334126	CC62176	ALM004031
Date of Audit Gas Cert.	1/24/12	1/23/12	8/31/12	8/30/12
Type of Certification	EPA Protocol 1	EPA Protocol 1	EPA Protocol 1	EPA Protocol 1
Certified Audit Value	123.6	271.6	6.10	10.10
CEM Response Value	127.7	279.0	6.80	10.70
Accuracy	3.3%	2.7%	11.5%	5.9%
Standard	<15%	<15%	<15%	<15%

## II. CALIBRATION DRIFT ASSESSMENT

### A. Out-of Control Periods:

1. Dates: N/A

2. Number of Days N/A

B. Corrective Actions: N/A

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# DATA ASSESSMENT REPORT

(per 40 CFR 60, Appendix F, Section 7)

Pollutant: H<sub>2</sub>S

Applicable NSPS Subpart: J

Reporting period dates: From 10/01/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Hydrogen Sulfide shall not exceed 162 ppm on a 3-hour rolling average.

Monitor Manufacturer and Model No.: Ametek 4661

Source Unit: Area 1 Fuel Drum for Boiler TB-01 (EPN 1-06, EQT 0010)

CEM Sampling Location: Area 1 Fuel Drum

CEM Span Value: Hydrogen Sulfide, 300 ppm

## I. ACCURACY ASSESSMENT RESULTS (CGA):

	H <sub>2</sub> S #1 (low scale)	H <sub>2</sub> S #2 (high scale)
Date of Audit	11/29/12	11/29/12
Audit Gas Cylinder No.	ALM060506	CC62458
Date of Audit Gas Cert.	9/11/12	9/11/12
Type of Certification	EPA Protocol 1	EPA Protocol 1
Certified Audit Value	76.4	164.0
CEM Response Value	79.0	165.3
Accuracy	3.4%	0.8%
Standard	<15%	<15%

## II. CALIBRATION DRIFT ASSESSMENT

### A. Out-of Control Periods:

1. Dates: N/A

2. Number of Days N/A

B. Corrective Actions: N/A

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# DATA ASSESSMENT REPORT

(per 40 CFR 60, Appendix F, Section 7)

Pollutant: H<sub>2</sub>S

Applicable NSPS Subpart: J and Ja (Benzene Recovery Unit Reboiler Subject to Ja)

Reporting period dates: From 10/01/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Hydrogen Sulfide shall not exceed 162 ppm on a 3-hour rolling average(J and Ja) and 60 ppm on a 365 day rolling average (Ja only)

Monitor Manufacturer and Model No.: Ametek 4661

Source Unit: Area 2 Fuel Drum for: MDH Product and Fractionator Heaters (EPN 2-92, EQT 0033); No.1 Crude Heater (EPN 12-72A, EQT 022); ROSE Heater (EPN 1-80, EQT 0014); Vacuum Heater (EPN 1-76, EQT 0013); Platformer Charge Heater (EPN 17-72 a,b,c, EQT 0028); Platformer Debut Reboiler (EPN 19-72, EQT 0029); NHT Charge Heater (EPN 14-72, EQT 0023); NHT Debut Reboiler (EPA 15-72, EQT 0024); NHT Depent Reboiler (EPA 16-72, EQT 0027); Benzene Recovery Unit Reboiler (EPN 1-09, EQT 0127)

CEM Sampling Location: Area 2 Fuel Drum

CEM Span Value: Hydrogen Sulfide, 300 ppm

## I. ACCURACY ASSESSMENT RESULTS (CGA):

	H <sub>2</sub> S #1 (low scale)	H <sub>2</sub> S #2 (high scale)
Date of Audit	11/30/12	11/30/12
Audit Gas Cylinder No.	ALM060506	CC62458
Date of Audit Gas Cert.	9/11/12	9/11/12
Type of Certification	EPA Protocol 1	EPA Protocol 1
Certified Audit Value	76.4	164.0
CEM Response Value	75.0	159.0
Accuracy	1.8%	3.0%
Standard	<15%	<15%

## II. CALIBRATION DRIFT ASSESSMENT

### A. Out-of Control Periods:

1. Dates: N/A

2. Number of Days N/A

B. Corrective Actions: N/A

# DATA ASSESSMENT REPORT

(per 40 CFR 60, Appendix F, Section 7)

Pollutant: H<sub>2</sub>S

Applicable NSPS Subpart: J

Reporting period dates: From 10/01/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Hydrogen Sulfide shall not exceed 162 ppm on a 3-hour rolling average.

Monitor Manufacturer and Model No.: Ametek 4661

Process Unit(s) Description: Area 4 Fuel Drum for Alky Reboiler (EPN 1-77, EQT 0078)

CEM Sampling Location: Area 4 Fuel Drum

CEM Span Value: Hydrogen Sulfide, 300 ppm

## I. ACCURACY ASSESSMENT RESULTS (CGA):

	H <sub>2</sub> S #1 (low scale)	H <sub>2</sub> S #2 (high scale)
Date of Audit	11/30/12	11/30/12
Audit Gas Cylinder No.	ALM060506	CC62458
Date of Audit Gas Cert.	9/11/12	9/11/12
Type of Certification	EPA Protocol 1	EPA Protocol 1
Certified Audit Value	76.4	164.0
CEM Response Value	72.7	153.3
Accuracy	4.8%	6.5%
Standard	<15%	<15%

## II. CALIBRATION DRIFT ASSESSMENT

### A. Out-of Control Periods:

1. Dates: N/A

2. Number of Days N/A

B. Corrective Actions: N/A

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# DATA ASSESSMENT REPORT

(per 40 CFR 60, Appendix F, Section 7)

Pollutant: H<sub>2</sub>S

Applicable NSPS Subpart: J

Reporting period dates: From 10/01/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Hydrogen Sulfide shall not exceed 162 ppm on a 3-hour rolling average.

Monitor Manufacturer and Model No.: Ametek 4661

Process Unit(s) Description: Area 6 Fuel Drum for Hydrocracker & Hydrotreater Charge Heaters (EPN 1-00, EQT 0009)

CEM Sampling Location: Area 6 Fuel Drum

CEM Span Value: Hydrogen Sulfide, 300 ppm

## I. ACCURACY ASSESSMENT RESULTS (CGA):

	H <sub>2</sub> S #1 (low scale)	H <sub>2</sub> S #2 (high scale)
Date of Audit	12/4/12	12/4/12
Audit Gas Cylinder No.	ALM060506	CC62458
Date of Audit Gas Cert.	9/11/12	9/11/12
Type of Certification	EPA Protocol 1	EPA Protocol 1
Certified Audit Value	76.4	164.0
CEM Response Value	73.7	158.3
Accuracy	3.5%	3.5%
Standard	<15%	<15%

## II. CALIBRATION DRIFT ASSESSMENT

### A. Out-of Control Periods:

1. Dates: N/A

2. Number of Days N/A

B. Corrective Actions: N/A

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# DATA ASSESSMENT REPORT

(per 40 CFR 60, Appendix F, Section 7)

Pollutant: H<sub>2</sub>S

Applicable NSPS Subpart: J

Reporting period dates: From 10/01/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Hydrogen Sulfide shall not exceed 162 ppm on a 3-hour rolling average.

Monitor Manufacturer and Model No.: Ametek 4661

Process Unit(s) Description: Area 6 Fuel Drum for Boilers B-5 (EPN 2-00, EQT 0030) and B-6 (EPN 3-00, EQT 0048)

CEM Sampling Location: Area 6 Fuel Drum

CEM Span Value: Hydrogen Sulfide, 300 ppm

## I. ACCURACY ASSESSMENT RESULTS (CGA):

	H <sub>2</sub> S #1 <u>(low scale)</u>	H <sub>2</sub> S #2 <u>(high scale)</u>
Date of Audit	12/4/12	12/4/12
Audit Gas Cylinder No.	ALM060506	CC62458
Date of Audit Gas Cert.	9/11/12	9/11/12
Type of Certification	EPA Protocol 1	EPA Protocol 1
Certified Audit Value	76.4	164.0
CEM Response Value	74.8	163.7
Accuracy	2.1%	0.2%
Standard	<15%	<15%

## II. CALIBRATION DRIFT ASSESSMENT

### A. Out-of Control Periods:

1. Dates: N/A

2. Number of Days N/A

B. Corrective Actions: N/A

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# DATA ASSESSMENT REPORT

*(per 40 CFR 60, Appendix F, Section 7)*

Pollutant: NO<sub>x</sub>

Applicable NSPS Subpart: Db

Reporting period dates: From 10/01/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Nitrogen Oxide shall not exceed 0.1 pound/MMBtu on a 30-day rolling average.

Monitor Manufacturer and Model No.: ABB 23042-5-8018413

Process Unit(s) Description: Boiler B-5 (EPN 2-00, EQT 0030)

CEM Sampling Location: Boiler B-5

CEM Span Value: Nitrogen Oxide 100 ppm, Oxygen 25 %

## I. ACCURACY ASSESSMENT RESULTS (CGA):

	NO <sub>x</sub> #1 <u>(low scale)</u>	NO <sub>x</sub> #2 <u>(high scale)</u>	O <sub>2</sub> #1 <u>(low scale)</u>	O <sub>2</sub> #2 <u>(high scale)</u>
Date of Audit	12/7/12	12/7/12	12/7/12	12/7/12
Audit Gas Cylinder No.	CC367708	CC357679	CC62176	ALM004031
Date of Audit Gas Cert.	1/23/12	1/23/12	8/31/12	8/30/12
Type of Certification	EPA Protocol 1	EPA Protocol 1	EPA Protocol 1	EPA Protocol 1
Certified Audit Value	24.9	55.9	6.10	10.10
CEM Response Value	23.9	54.0	6.07	10.00
Accuracy	4.0%	3.4%	0.5%	1.0%
Standard	<15%	<15%	<15%	<15%

## II. CALIBRATION DRIFT ASSESSMENT

### A. Out-of Control Periods:

1. Dates: N/A

2. Number of Days N/A

B. Corrective Actions: N/A

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# DATA ASSESSMENT REPORT

(per 40 CFR 60, Appendix F, Section 7)

Pollutant: NO<sub>x</sub>

Applicable NSPS Subpart: Db

Reporting period dates: From 10/01/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Nitrogen Oxide shall not exceed 0.1 pound/MMBtu on a 30-day rolling average.

Monitor Manufacturer and Model No.: ABB 23042-5-8018413

Process Unit(s) Description: Boiler B-6 (EPN 3-00, EQT 0048)

CEM Sampling Location: Boiler B-6

CEM Span Value: Nitrogen Oxide 100 ppm, Oxygen 25 %

## I. ACCURACY ASSESSMENT RESULTS (CGA):

	NO <sub>x</sub> #1 (low scale)	NO <sub>x</sub> #2 (high scale)	O <sub>2</sub> #1 (low scale)	O <sub>2</sub> #2 (high scale)
Date of Audit	12/7/12	12/7/12	12/7/12	12/7/12
Audit Gas Cylinder No.	CC367708	CC357679	CC62176	ALM004031
Date of Audit Gas Cert.	1/23/12	1/23/12	8/31/12	8/30/12
Type of Certification	EPA Protocol 1	EPA Protocol 1	EPA Protocol 1	EPA Protocol 1
Certified Audit Value	24.9	55.9	6.10	10.10
CEM Response Value	22.0	51.0	6.13	10.10
Accuracy	11.6%	8.8%	0.5%	0.0%
Standard	<15%	<15%	<15%	<15%

## II. CALIBRATION DRIFT ASSESSMENT

### A. Out-of Control Periods:

1. Dates: N/A

2. Number of Days N/A

B. Corrective Actions: N/A

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# DATA ASSESSMENT REPORT

(per 40 CFR 60, Appendix F, Section 7)

Pollutant: NO<sub>x</sub>

Applicable NSPS Subpart: Db

Reporting period dates: From 10/01/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Nitrogen Oxide shall not exceed 0.1 pound/MMBtu on a 30-day rolling average.

Monitor Manufacturer and Model No.: Thermo Environmental Model 42i (NO<sub>x</sub>)/(O<sub>2</sub>)

Process Unit(s) Description: Boiler TB-01 (EPN 1-06, EQT 0010)

CEM Sampling Location: Boiler TB-01

CEM Span Value: Nitrogen Oxide 500 ppm, Oxygen 25 %

## I. ACCURACY ASSESSMENT RESULTS (CGA):

	NO <sub>x</sub> #1 (low scale)	NO <sub>x</sub> #2 (high scale)	O <sub>2</sub> #1 (low scale)	O <sub>2</sub> #2 (high scale)
Date of Audit	12/12/12	12/12/12	12/6/12	12/6/12
Audit Gas Cylinder No.	CC285173	CC316885	CC62176	ALM004031
Date of Audit Gas Cert.	1/23/12	1/23/12	8/31/12	8/30/12
Type of Certification	EPA Protocol 1	EPA Protocol 1	EPA Protocol 1	EPA Protocol 1
Certified Audit Value	124.4	273.5	6.10	10.10
CEM Response Value	126.3	269.3	5.77	9.60
Accuracy	1.5%	1.5%	5.4%	5.0%
Standard	<15%	<15%	<15%	<15%

## II. CALIBRATION DRIFT ASSESSMENT

### A. Out-of Control Periods:

1. Dates: 11/10/12, 11/11/12

2. Number of Days 2

B. Corrective Actions: Valero performed periodic maintenance on 11/9/12, but failed to properly reset the timer that initiates the automatic daily calibration drift checks. Consequently, the drift checks were not performed on 11/10/12 and 11/10/12. Contrary to Valero's procedure, the status of the daily drift checks was not verified and no one was alerted to the missing drift checks. The absence of the daily drift check was noticed on 11/12/12 and corrective action was taken. A satisfactory calibration drift check was performed and the timer was reset correctly.

# DATA ASSESSMENT REPORT

(per 40 CFR 60, Appendix F, Section 7)

Pollutant: NO<sub>x</sub>

Applicable NSPS Subpart: Ja

Reporting period dates: From 11/13/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: Nitrogen Oxide corrected to 0% O<sub>2</sub> shall not exceed 40 ppm on a 30-day rolling average

Monitor Manufacturer and Model No.: Thermo Environmental Model 42i (NO<sub>x</sub>)/(O<sub>2</sub>)

Process Unit(s) Description: Benzene Recovery Unit Reboiler (EPN 1-09, EQT 0127)

CEM Sampling Location: Benzene Recovery Unit Reboiler

CEM Span Value: Nitrogen Oxide 100 ppm, Oxygen 25 %

## I. ACCURACY ASSESSMENT RESULTS (RATA):

	NO <sub>x</sub>	O <sub>2</sub>
Date of Audit	11/27/12	11/27/12
Reference Method	EPA Method 7E	EPA Method 3A
Average RM Value	15.60 ppm	8.27 %
Average CEM Value	15.31 ppm	9.16 %
Accuracy	2.92 %	0.89 %
Limit	< 10 %	< 1.0 %

## II. CALIBRATION DRIFT ASSESSMENT

### A. Out-of Control Periods:

1. Dates: 11/26/12

2. Number of Days 1

B. Corrective Actions: On 11/25/12, the high span of the daily validation for O<sub>2</sub> was below the reference gas greater than 2 times the allowable calibration drift. Valero inspected the system and found that a tubing leak had discharged most of the useable pressure in the O<sub>2</sub> reference gas bottle. Valero intended to replace the bottle with a new bottle, but discovered that there were no new bottles remaining in the on site inventory. The tubing leak was repaired and the low pressure bottle was left in service. A new reference O<sub>2</sub> bottle was rush ordered. On 11/26/12, the O<sub>2</sub> high span was greater than 4 times the allowed calibration drift and the CEMS was out of control. The new O<sub>2</sub> reference gas bottle was delivered and installed on 11/27/12 and a satisfactory validation check was completed.

# DATA ASSESSMENT REPORT

*(per 40 CFR 60, Appendix F, Section 7)*

Pollutant: **Total Sulfur**

Applicable NSPS Subpart:   Ja   (Required by Consent Decree: 3:10-cv-00563-bbc, Paragraph 49.a.ii)

Reporting period dates: From 11/13/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: None

Monitor Manufacturer and Model No.: Thermo Scientific SOLA II

Process Unit(s) Description: North Flare Stack (EPN 20-72, EQT 0035), North Flare Header

CEM Sampling Location: North Flare Stack, North Flare Header

CEM Span Value: Total Sulfur, Dual Range 10,000 ppm, 1,000,000 ppm

## I. ACCURACY ASSESSMENT RESULTS (CGA):

	H <sub>2</sub> S #1 <u>(low scale)</u>	H <sub>2</sub> S #2 <u>(high scale)</u>
Date of Audit	12/12/12	12/12/12
Audit Gas Cylinder No.	CC14179	CC403656
Date of Audit Gas Cert.	10/20/11	4/18/12
Type of Certification	EPA Protocol 1	Certified Gas
Certified Audit Value	1007.0	8085.0
CEM Response Value	1043.3	7975.5
Accuracy	3.6%	1.4%
Standard	<15%	<15%

<sup>1</sup> Low scale H<sub>2</sub>S certification expired on 10/20/12.

<sup>2</sup> Valero unable to obtain EPA Protocol 1 certified gases greater than 1000 ppm.

## II. CALIBRATION DRIFT ASSESSMENT

### A. Out-of Control Periods:

1. Dates:   N/A  

2. Number of Days   N/A  

B. Corrective Actions:   N/A  

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# DATA ASSESSMENT REPORT

(per 40 CFR 60, Appendix F, Section 7)

Pollutant: **Total Sulfur**

Applicable NSPS Subpart: Ja (Required by Consent Decree: 3:10-cv-00563-bbc, Paragraph 49.a.ii)

Reporting period dates: From 11/13/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: None

Monitor Manufacturer and Model No.: Thermo Scientific SOLA II

Process Unit(s) Description: North Flare Stack (EPN 20-72, EQT 0035), Hydrocracker Flare Header

CEM Sampling Location: North Flare Stack, Hydrocracker Flare Header

CEM Span Value: Total Sulfur, Dual Range: 10,000 ppm, 1,000,000 ppm

## I. ACCURACY ASSESSMENT RESULTS (CGA):

	H <sub>2</sub> S #1 (low scale)	H <sub>2</sub> S #2 (high scale)
Date of Audit	12/12/12	12/12/12
Audit Gas Cylinder No.	CC14179	CC403656
Date of Audit Gas Cert.	10/20/11	4/18/12
Type of Certification	EPA Protocol 1	Certified Gas
Certified Audit Value	1007.0	8085.0
CEM Response Value	992.8	8005.6
Accuracy	1.4%	1.0%
Standard	<15%	<15%

<sup>1</sup> Low scale H<sub>2</sub>S certification expired on 10/20/12.

<sup>2</sup> Valero unable to obtain EPA Protocol 1 certified gases greater than 1000 ppm.

## II. CALIBRATION DRIFT ASSESSMENT

### A. Out-of Control Periods:

1. Dates: N/A

2. Number of Days N/A

B. Corrective Actions: N/A

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# DATA ASSESSMENT REPORT

*(per 40 CFR 60, Appendix F, Section 7)*

Pollutant: **Total Sulfur**

Applicable NSPS Subpart: Ja (Required by Consent Decree: 3:10-cv-00563-bbc, Paragraph 49.a.ii)

Reporting period dates: From 11/13/12 to 12/31/12

Date submitted: 1/30/13

Company: Valero Refining - Meraux LLC

Address: 2500 East St. Bernard Highway, Meraux, LA 70075

Emission Limitation: None

Monitor Manufacturer and Model No.: Thermo Scientific SOLA II

Process Unit(s) Description: South Flare Stack (EPN 3-77, EQT 0049)

CEM Sampling Location: South Flare Stack

CEM Span Value: Total Sulfur, Dual Range: 10,000 ppm, 1,000,000 ppm

## I. ACCURACY ASSESSMENT RESULTS (CGA):

	H <sub>2</sub> S #1 <u>(low scale)</u>	H <sub>2</sub> S #2 <u>(high scale)</u>
Date of Audit	12/12/12	12/12/12
Audit Gas Cylinder No.	CC14179	CC403656
Date of Audit Gas Cert.	10/20/11 <sup>1</sup>	4/18/12
Type of Certification	EPA Protocol 1	Certified Gas <sup>2</sup>
Certified Audit Value	1007.0	8085.0
CEM Response Value	1006.5	8131.0
Accuracy	0.0%	0.6%
Standard	<15%	<15%

<sup>1</sup> Low scale H<sub>2</sub>S certification expired on 10/20/12.

<sup>2</sup> Valero unable to obtain EPA Protocol 1 certified gases greater than 1000 ppm.

## II. CALIBRATION DRIFT ASSESSMENT

### A. Out-of Control Periods:

1. Dates: N/A

2. Number of Days N/A

B. Corrective Actions: N/A

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