



South Coast Air Quality Management District

**Valero Refinery (formerly Ultramar)
2014 Rule 1118 Quarterly Flare Emissions**

Emission Target

2014 SOx Emissions Target (lbs)	Year-to-date SOx Emissions (lbs)
29,605	33,974.1

Quarter I (January 1, 2014 - March 31, 2014):

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
LPG	6,805,749	33.3	3,096.6	71.5	762.2	1,119.5
Phase 0	5,719,329	78.2	589.1	194.0	1,120.7	434.8
Phase I	3,405,825	29.5	428.1	43.8	238.4	733.3
Phase 2	4,723,651	48.7	619.6	150.1	858.6	353.8
Total	20,654,554	189.7	4,733.4	459.4	2,979.9	2,641.4

Quarter II (April 1, 2014 - June 30, 2014):

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
LPG	6,965,503	34.1	3,169.3	73.1	780.1	1,145.8
Phase 0	5,912,048	81.8	613.3	212.5	1,229.0	910.2
Phase I	3,953,539	40.6	478.5	87.1	492.2	280.7
Phase 2	4,529,104	43.7	538.1	66.2	365.2	649.3
Total	21,360,194	200.2	4,799.2	438.9	2,866.5	2,986.0

Quarter III (July 1, 2014 - September 30, 2014):

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
LPG	8,720,354	42.7	3,967.8	91.6	976.7	55.8
Phase 0	7,024,693	106.8	738.2	342.0	1,990.3	16,246.7
Phase I	6,560,556	94.8	284.2	284.2	1,649.5	10,741.3
Phase 2	4,194,905	36.5	50.9	50.9	275.7	263.2
Total	26,500,508	280.8	5,041.1	768.7	4,892.2	27,307.0

Quarter IV (October 1, 2014 - December 31, 2014):

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
LPG	7,151,023	35	3,253.70	75.1	800.9	47.5
Phase 0	6,785,215	100.1	680.2	274	1,590.10	879.4
Phase I	3,146,042	24.6	405.2	27.3	141.5	49.7
Phase 2	3,983,124	33.4	499.8	40.9	217.7	63.1
Total	21,065,404	193.1	4,838.90	417.3	2,750.20	1,039.70