



South Coast Air Quality Management District

**Valero Refinery (formerly Ultramar)
2011 Rule 1118 Quarterly Flare Emissions**

Emission Target

2011 SOx Emissions Target (lbs)	Year-to-date SOx Emissions (lbs)
41,446	89,050.00

Quarter I (January 1, 2011 - March 31, 2011)

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
LPG	1,876,540	9.2	853.8	19.7	210.2	308.7
Phase 0	7,363,040	107.2	713.1	256.3	1,483.60	99.9
Phase I	6,147,470	81.7	632.9	182	1,047.20	1,241.70
Phase 2	7,376,230	107.2	602.8	158.7	910.2	1,140.30
Total	22,763,280	305.3	2,802.60	616.7	3,651.20	2,790.60

Quarter II (April 1, 2011 - June 30, 2011)

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
LPG	5,827,940	29.4	2,728.30	28,674.50	671.6	986.4
Phase 0	7,947,570	118.9	749.8	285.8	1,656.70	4,318.90
Phase I	5,158,030	60.4	574.9	123.8	705.1	76.4
Phase 2	4,169,450	39	497.8	61.4	339.2	214.2
Total	23,102,990	247.7	4,550.80	29,145.50	3,372.60	5,595.90

Quarter III (July 1, 2011 - September 30, 2011)

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
LPG	6,823,060	35.6	3,305.80	76.3	813.7	1,195.20
Phase 0	9,250,503	145.8	837.6	362.7	2,107.80	69,306.50
Phase I	5,451,678	66	597.7	140.4	802.5	173.4
Phase 2	4,035,658	36.3	502.3	52.1	283.4	28.2
Total	25,560,899	283.7	5,243.40	631.5	4,007.40	70,703.30

Quarter IV (October 1, 2011 - December 31, 2011)

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
LPG	6,068,708	29.7	2,761.30	63.7	679.7	998.3
Phase 0	9,108,590	142.8	790	318.6	1,848.80	8,721.40
Phase I	5,671,738	70.6	619.8	161	923	230.8
Phase 2	3,852,921	32.4	489.8	40.5	215.5	9.7
Total	24,701,957	275.5	4,660.90	583.8	3,667.00	9,960.20