



South Coast Air Quality Management District

**Valero Refinery (formerly Ultramar)
2015 Rule 1118 Quarterly Flare Emissions**

Emission Target

2015 SOx Emissions Target (lbs)	Year-to-Date SOx Emissions (lbs)
29,605	8,086.1

Quarter I (January 1, 2015 - March 31, 2015):

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
LPG	8,061,205	39.5	3,667.8	84.6	902.9	53.6
Phase 0	6,096,547	85.6	508.5	114.5	653.5	202.6
Phase 1	5,122,689	65.9	517.4	128.9	738.1	1,640.2
Phase 2	4,397,189	42.7	526.9	70.8	393.3	58.4
Total	23,677,630	233.6	5,220.6	398.9	2,687.9	1,954.7

Quarter II (April 1, 2015 - June 30, 2015):

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
LPG	9,527,618	46.7	4,335.1	100.0	1,067.1	63.3
Phase 0	6,896,290	102.2	684.3	276.0	1,601.7	433.2
Phase 1	4,047,140	42.8	506.8	114.9	655.5	161.3
Phase 2	7,280,795	102.2	656.7	182.2	1,046.9	519.3
Total	27,751,843	293.9	6,182.9	673.1	4,371.2	1,177.2

Quarter III (July 1, 2015 - September 30, 2015):

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
LPG	9,776,518	47.9	4,448.3	102.7	1,095.0	65.0
Phase 0	7,943,227	123.7	818.9	396.6	2,309.4	469.1
Phase 1	4,935,714	61.4	556.3	160.3	922.4	565.3
Phase 2	6,262,077	79.5	657.0	171.9	986.0	1,002.5
Total	28,917,536	312.5	6,480.5	831.4	5,312.7	2,101.9

Quarter IV (October 1, 2015 - December 31, 2015):

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
LPG	8,124,358	39.8	3696.6	85.3	909.9	56.9
Phase 0	6,926,296	52.7	896.1	51.1	257.9	7.3
Phase 1	5,070,984	43.7	633.0	59.0	317.9	751.6
Phase 2	38,483,937	773.9	3521.9	2974.8	17455.3	2036.6
Total	58,605,574	910.1	8,747.6	3,170.1	18,941.0	2,852.3