



South Coast Air Quality Management District

**Valero Refinery (formerly Ultramar)
2023 Rule 1118 Quarterly Flare Emissions**

Emission Target

2023 SOx Emissions Target (lbs)	Year-to-Date SOx Emissions (lbs)
29,600	832.6

Quarter I (January 1, 2023 - March 31, 2023):

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
LPG	6,883,667	48.2	3,493.5	216.8	1,975.6	45.8
Phase 0	7,112,007	53.4	924.1	55.5	251.4	9.7
Phase 1	3,202,086	24.4	415.1	40.6	119.8	3.7
Phase 2	3,897,769	29.7	504.5	44.9	143.6	5.2
Total	21,095,528	156	5,337	358	2,490	64

Quarter II (April 1, 2023 - June 30, 2023):

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
LPG	7,226,696	50.6	3,667.5	227.6	2,074.1	48.0
Phase 0	8,569,200	64.3	1,113.8	61.8	300.7	7.2
Phase 1	3,060,454	23.0	397.8	22.3	107.5	2.6
Phase 2	3,991,506	31.0	513.9	76.2	159.8	8.0
Total	22,847,856	168.9	5,693.1	387.9	2,642.0	65.8

Quarter III (July 1, 2023 - September 30, 2023):

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
LPG	5,796,195	40.6	2,941.6	182.6	1663.5	38.5
Phase 0	7,186,811	54.0	934.1	52.3	252.4	6.0
Phase 1	3,242,113	28.6	407.3	253.1	211.6	208.7
Phase 2	4,311,626	37.3	539.0	248.1	241.5	50.7
Total	20,536,745	160.5	4,822.0	736.1	2,369.0	304.0

Quarter IV (October 1, 2023 - December 31, 2023):

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
LPG	4,874,575	34.1	2,473.8	153.5	1399.0	32.4
Phase 0	7,450,991	56.4	966.2	72.2	269.0	8.9
Phase 1	4,655,217	42.9	576.3	445.3	338.1	349.0
Phase 2	4,015,535	32.5	510.2	126.9	181.3	8.2
Total	20,996,318	166	4,527	798	2,187	399