



South Coast Air Quality Management District

**Valero Refinery (formerly Ultramar)
2021 Rule 1118 Quarterly Flare Emissions**

Emission Target

2021 SOx Emissions Target (lbs)	Year-to-Date SOx Emissions (lbs)
29,600	31,609.3

Quarter I (January 1, 2021 - March 31, 2021):

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
LPG	3,517,488	24.6	1,785.1	110.8	1,009.5	23.4
Phase 0	28,465,321	454.2	2,250.8	8,262.5	4,218.2	10,624.2
Phase 1	30,606,488	608.3	1,329.1	9,712.1	4,642.7	967.9
Phase 2	22,242,351	410.0	1,330.8	6,929.5	3,388.8	260.9
Total	84,831,647	1,497	6,696	25,015	13,259	11,876

Quarter II (April 1, 2021 - June 30, 2021):

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
LPG	5,101,941	35.7	2,589.2	160.7	1,464.3	33.9
Phase 0	11,477,564	86.1	1,492.1	80.6	401.8	9.6
Phase 1	3,614,778	36.7	443.5	579.8	364.5	3,378.5
Phase 2	3,946,640	32.9	497.3	161.4	193.3	5.9
Total	24,140,924	191.4	5,022.1	982.6	2,423.8	3,427.9

Quarter III (July 1, 2021 - September 30, 2021):

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
LPG	7,097,510	49.7	3,602.0	223.6	2037.0	47.2
Phase 0	11,287,879	86.1	1,469.8	162.9	431.0	16,053.2
Phase 1	2,891,273	21.9	375.0	29.8	105.2	3.0
Phase 2	3,757,247	32.4	467.6	199.6	202.9	5.0
Total	25,033,909	190.1	5,914.5	615.9	2,776.2	16,108.4

Quarter IV (October 1, 2021 - December 31, 2021):

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
LPG	8,232,925	57.6	4,178.2	259.3	2362.8	54.7
Phase 0	10,548,568	79.1	1,371.3	73.9	369.2	8.8
Phase 1	2,985,955	23.8	381.2	86.8	132.2	128.5
Phase 2	3,826,123	29.3	494.3	52.1	144.3	4.7
Total	25,593,570	190	6,425	472	3,009	197