



**South Coast Air Quality Management District**

**Valero Refinery (formerly Ultramar)  
2020 Rule 1118 Quarterly Flare Emissions**

**Emission Target**

2020 SOx Emissions Target (lbs)	Year-to-Date SOx Emissions (lbs)
29,600	68,206.4

**Quarter I (January 1, 2020 - March 31, 2020):**

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
LPG	6,457,232	45.2	3,277.0	203.4	1,853.2	45.2
Phase 0	7,897,484	59.2	1,026.7	55.7	276.6	7.0
Phase 1	4,610,499	48.5	560.3	787.9	483.5	191.3
Phase 2	9,394,538	143.1	849.7	2,735.6	1,412.2	1,389.3
<b>Total</b>	<b>28,359,753</b>	<b>296</b>	<b>5,714</b>	<b>3,783</b>	<b>4,026</b>	<b>1,633</b>

**Quarter II (April 1, 2020 - June 30, 2020):**

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
LPG	6,847,751	47.9	3,475.2	215.7	1,965.3	47.9
Phase 0	12,131,776	98.9	1,536.8	286.0	500.4	65,206.0
Phase 1	3,968,457	35.3	486.6	242.8	226.9	465.1
Phase 2	4,165,831	32.4	536.4	77.4	165.8	21.3
<b>Total</b>	<b>27,113,814</b>	<b>214.5</b>	<b>6,035.1</b>	<b>821.8</b>	<b>2,858.4</b>	<b>65,740.3</b>

**Quarter III (July 1, 2020 - September 30, 2020):**

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
LPG	7,619,570	53.3	3,866.9	240.0	2,186.8	50.7
Phase 0	11,637,171	87.4	1,512.7	86.8	409.6	40.2
Phase 1	3,775,554	30.7	481.4	138.3	179.1	93.7
Phase 2	4,262,581	36.8	531.9	230.4	232.1	69.8
<b>Total</b>	<b>27,294,876</b>	<b>208.2</b>	<b>6,393.0</b>	<b>695.5</b>	<b>3,007.6</b>	<b>254.4</b>

**Quarter IV (October 1, 2020 - December 31, 2020):**

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
LPG	8,044,648	56.3	4,082.7	253.4	2308.8	53.5
Phase 0	11,757,053	88.2	1,528.4	82.3	411.5	9.8
Phase 1	3,705,498	87.2	465.2	186.9	196.1	375.5
Phase 2	3,988,642	56.5	504.1	113.6	171.7	140.1
<b>Total</b>	<b>27,495,841</b>	<b>288.2</b>	<b>6,580.4</b>	<b>636.2</b>	<b>3,088.2</b>	<b>578.8</b>