



South Coast Air Quality Management District

**Tesoro Carson Refinery (formerly BP Carson)
2021 Rule 1118 Quarterly Flare Emissions**

Emission Target

2021 SOx Emissions Target (lbs)	Year-to-Date SOx Emissions (lbs)
95,200	11,578.3

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

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
5 Flare	11,863,714	89.0	1,542.3	83.0	415.2	9.8
FFHDS	4,194,081	31.5	545.2	29.4	146.8	3.5
HC	9,076,772	69.4	1,176.4	126.3	344.1	201.5
FCC	5,225,604	39.3	678.6	43.2	185.6	4.4
S. Flare-Coker	8,852,146	66.5	1,150.4	65.6	311.3	7.4
Total	39,212,317	296	5,093	347	1,403	227

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

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
5 Flare	32,210,194	512.7	2,026.2	12,564.3	6,285.9	12.0
FFHDS	4,225,203	31.7	549.3	29.6	147.9	3.5
HC	9,176,014	68.9	1,192.5	69.5	323.4	7.7
FCC	5,305,859	39.9	689.4	41.1	187.4	4.4
S.Flare-Coker	9,033,237	67.8	1,174.2	64.6	316.7	7.5
Total	59,950,506	721.0	5,631.5	12,769.1	7,261.3	35.1

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

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
5 Flare	10,483,164.7	85.4	1,320.5	281.6	448.9	62.8
FFHDS	4,515,415.5	37.3	566.2	209.3	233.5	671.2
HC	18,568,937.1	264.7	1,596.5	7,331.9	3,738.0	1,980.6
FCC	8,578,087.2	107.9	1,031.7	3,164.8	1,656.3	1,492.8
S.Flare-Coker	10,229,547.0	91.7	1,291.4	1,420.2	956.4	6,979.8
Total	52,375,152	586.8	5806.3	12407.8	7033.0	11187.3

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

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
5 Flare	15,760,601	168.8	1657.8	2540.7	1574.4	11.7
FFHDS	4,283,580	32.1	556.9	30.0	149.9	3.6
HC	9,216,116	69.1	1,198.1	64.5	322.6	7.6
FCC	5,325,662	39.9	692.3	37.3	186.4	4.4
S.Flare-Coker	8,978,255	67.7	1165.7	81.5	322.0	102.0
Total	43,564,214	377.7	5270.8	2754.0	2555.3	129.4