



South Coast Air Quality Management District

**Tesoro Carson Refinery (formerly BP Carson)
2023 Rule 1118 Quarterly Flare Emissions**

Emission Target

2023 SOx Emissions Target (lbs)	Year-to-Date SOx Emissions (lbs)
95,200	29,763.1

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

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
5 Flare	29,503,477	461.0	2,085.5	11,139.7	5,604.8	102.5
FFHDS	4,250,187	31.9	552.2	32.4	149.9	4.0
HC	79,215,622	1,545.7	4,787.7	37,082.5	17,694.3	8,317.8
FCC	6,148,178	59.3	832.9	1,476.6	857.5	659.3
S. Flare-Coker	8,722,989	65.6	1,133.3	68.6	308.5	16.7
Total	127,840,453	2,164	9,391	49,800	24,615	9,100

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

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
5 Flare	12,431,931	98.3	1,580.1	272.9	510.6	61.4
FFHDS	4,315,043	32.6	559.5	42.7	156.2	6.3
HC	12,890,987	147.4	1,316.0	2,798.4	1,604.1	1,154.8
FCC	5,296,988	40.0	687.1	53.2	192.2	14.8
S.Flare-Coker	9,231,047	72.8	1,187.7	266.0	409.3	469.8
Total	44,165,995	391.1	5,330.4	3,433.1	2,872.5	1,707.0

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

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
5 Flare	33,026,316	527.4	3,152.6	13,111.7	6,548.9	137.5
FFHDS	4,345,575	32.7	564.4	36.1	154.5	26.5
HC	9,309,253	69.9	1,209.9	68.7	327.3	7.7
FCC	5,383,617	40.5	699.4	42.6	190.5	4.5
S.Flare-Coker	9,509,667	76.6	1,227.3	454.1	502.4	2,603.6
Total	61,574,427	747.1	6853.6	13713.2	7723.6	2779.9

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

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
5 Flare	19,015,901	234.7	2157.3	4875.5	2676.9	71.9
FFHDS	20,873,247	379.0	1298.3	12143.8	5843.3	5676.6
HC	9,250,469	69.7	1,200.8	79.6	330.0	8.5
FCC	5,450,220	41.6	705.8	76.8	207.3	65.0
S.Flare-Coker	10,749,302	103.2	1348.3	1480.3	983.2	10354.0
Total	65,339,139	828.1	6710.5	18656.1	10040.6	16176.0