



**South Coast Air Quality Management District**

**Tesoro Carson Refinery (formerly BP Carson)  
2016 Rule 1118 Quarterly Flare Emissions**

**Emission Target**

2016 SOx Emissions Target (lbs)	Year-to-Date SOx Emissions (lbs)
95,200	3,397.7

**Quarter I (January 1, 2016 - March 31, 2016):**

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
5 Flare	244,259	201.8	3,424.1	196.9	966.2	22.0
FFHDS	386,584	36.5	504.1	37.9	199.6	5.8
HC	40,291	98.9	1,702.2	94.1	472.7	11.5
FCC	14,375	48.1	829.0	45.6	228.7	5.3
South Area	204,407	84.2	1,403.7	91.4	471.6	117.6
<b>Total</b>	<b>889,916</b>	<b>469.5</b>	<b>7,863.1</b>	<b>465.9</b>	<b>2,338.8</b>	<b>162.2</b>

**Quarter II (April 1, 2016 - June 30, 2016):**

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
5 Flare	28,397,060	213.5	3,691.6	198.8	993.9	23.6
FFHDS	5,058,300	38.0	657.1	35.7	179.1	4.2
HC	18,156,540	232.9	1,698.7	327.1	1,853.8	1,005.9
FCC	7,384,920	57.4	957.4	66.5	346.2	34.1
South Area	15,596,510	121.6	2,028.3	149.1	782.7	1,840.2
<b>Total</b>	<b>74,593,330.0</b>	<b>663.5</b>	<b>9,033.2</b>	<b>777.2</b>	<b>4,155.6</b>	<b>2,907.9</b>

**Quarter III (July 1, 2016 - September 30, 2016):**

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
5 Flare	19,774,100	149.0	2567.2	140.7	706.0	16.4
FFHDS	5,076,960	39.0	654.0	37.4	189.2	4.2
HC	10,040,190	75.3	1305.2	70.3	351.8	8.3
FCC	6,691,880	50.3	869.5	47.2	236.3	5.6
South Area	12,059,040	91.4	1565.3	90.0	455.1	183.9
<b>Total</b>	<b>53,642,170</b>	<b>404.9</b>	<b>6961.1</b>	<b>385.7</b>	<b>1938.4</b>	<b>218.4</b>

**Quarter IV (October 1, 2016 - December 31, 2016):**

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	SOx
5 Flare	13,965,690	104.7	1815.5	97.8	488.8	11.1
FFHDS	5,063,430	38.1	658.1	36.0	180.2	3.7
HC	10,593,730	79.5	1,376.8	74.5	373.0	8.5
FCC	5,763,630	43.2	749.4	40.5	202.6	4.6
South Area	11,458,310	86.4	1488.5	83.0	417.8	81.4
<b>Total</b>	<b>46,844,790</b>	<b>352.0</b>	<b>6088.3</b>	<b>331.8</b>	<b>1662.4</b>	<b>109.2</b>