



**South Coast Air Quality Management District**

**Tesoro Refinery Carson (formerly BP Carson)  
2014 Rule 1118 Quarterly Flare Emissions**

**Emission Target**

2014 SOx Emissions Target (lbs)	Year-to-date SOx Emissions (lbs)
95,160	736.0

**Quarter I (January 1, 2014 - March 31, 2014):**

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
5 Flare	21,941,933	164.6	2,852.5	153.6	768.0	18.2
FFHDS	4,373,765	32.8	568.6	30.6	153.2	3.6
HC	12,722,514	95.6	1,653.2	90.0	450.9	10.5
FCC	10,552,662	79.3	1,370.6	74.6	373.5	8.9
Coker	8,525,838	64.5	1,107.2	62.9	317.3	9.4
<b>Total</b>	<b>58,116,712</b>	<b>436.8</b>	<b>7,552.1</b>	<b>411.7</b>	<b>2,062.9</b>	<b>50.6</b>

**Quarter II (April 1, 2014 - June 30, 2014):**

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
5 Flare	27,045,695	203.2	3,513.8	190.6	954.2	22.6
FFHDS	4,666,754	35.0	606.5	32.8	164.3	3.9
HC	13,801,552	103.6	1,793.8	97.0	485.3	11.5
FCC	10,872,927	81.7	1,412.6	76.8	384.7	9.0
Coker	8,865,051	67.9	1,143.2	65.6	331.5	15.9
<b>Total</b>	<b>65,251,979</b>	<b>491.4</b>	<b>8,469.9</b>	<b>462.8</b>	<b>2,320.0</b>	<b>62.9</b>

**Quarter III (July 1, 2014 - September 30, 2014):**

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
5 Flare	32,451,379	243.4	4,218.7	227.2	1,135.8	26.9
FFHDS	4,696,917	35.2	610.6	32.9	164.4	3.9
HC	24,093,449	314.7	2,159.0	393.3	2,223.4	392.4
FCC	10,465,327	79.5	1,360.8	82.3	419.6	20.8
Coker	8,970,585	67.7	1164.8	64.8	326.1	7.8
<b>Total</b>	<b>80,677,657</b>	<b>740.5</b>	<b>9,513.9</b>	<b>800.5</b>	<b>4,269.3</b>	<b>451.8</b>

**Quarter IV (October 1, 2014 - December 31, 2014):**

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
5 Flare	35,438,402	266.2	4,605.70	250.20	1,253.10	29.5
FFHDS	6,876,614	82	715.1	138	782.2	10
HC	15,578,895	117	2,024.80	109.6	548.7	12.9
FCC	7,745,399	59.8	997.50	60.2	307.2	7.1
Coker	9,344,480	77.5	1,174.10	89.9	474.3	111.2
<b>Total</b>	<b>74,983,790</b>	<b>602.50</b>	<b>9,517.20</b>	<b>647.90</b>	<b>3,365.50</b>	<b>170.7</b>