



**South Coast Air Quality Management District**

**Tesoro Refinery Carson (formerly BP Carson)  
2013 Rule 1118 Quarterly Flare Emissions**

**Emission Target**

2013 SOx Emissions Target (lbs)	Year-to-date SOx Emissions (lbs)
95,160.00	12,555.8

**Quarter I (January 1, 2013 - March 31, 2013):**

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
5 Flare	109,215,386	2,112.70	7,519.70	5,447.50	31,911.40	473.9
FFHDS	192,052,303	3,973.90	7,182.60	6,156.70	36,131.70	543.7
HC	37,430,311	578.8	2,986.50	1,025.70	5,930.10	3,452.60
FCC	47,302,382	920	4,786.70	3,819.00	22,395.90	5,268.40
Coker	8,934,942	69.8	1,158.50	83.3	436.1	731.8
<b>Total</b>	<b>394,935,324</b>	<b>7,655.20</b>	<b>23,634.00</b>	<b>16,532.20</b>	<b>96,805.20</b>	<b>10,470.40</b>

**Quarter II (April 1, 2013 - June 30, 2013):**

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
5 Flare	23,300,535	242.9	2,563.80	304.8	1,678.40	16.6
FFHDS	4,388,132	32.9	569.8	30.7	153.4	3.6
HC	14,833,624	111.3	1,928.40	103.8	519.2	12.3
FCC	10,625,959	79.7	1,381.30	74.5	372.3	8.8
Coker	8,799,635	66.2	1,143.40	62.6	314	42.3
<b>Total</b>	<b>61,947,885</b>	<b>533</b>	<b>7,586.70</b>	<b>576.4</b>	<b>3,037.30</b>	<b>83.6</b>

**Quarter III (July 1, 2013 - September 30, 2013):**

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
5 Flare	73,765,586	1,249.00	4,443.40	1,595.30	9,233.70	20.6
FFHDS	4,398,092	33	571.5	31	155	3.7
HC	31,687,169	471.7	2,467.50	658.3	3,778.70	633.6
FCC	5,409,524	40.6	703.2	37.9	189.8	4.5
Coker	9,133,056	70.6	1,185.00	79.7	413.1	993.3
<b>Total</b>	<b>124,393,427</b>	<b>1,864.90</b>	<b>9,370.60</b>	<b>2,402.20</b>	<b>13,770.30</b>	<b>1,655.70</b>

**Quarter IV (October 1, 2013 - December 31, 2013):**

Flare ID	Total Gas Flow (scf)	Emissions (lbs)				
		PM-10	NOx	ROG	CO	S as SO2
5 Flare	54,866,510	843	4,477.00	1,550.20	8,964.30	252.7
FFHDS	4,470,685	33.8	579.5	32	160.8	12.8
HC	14,402,831	115.9	1,827.80	126.1	656	64.1
FCC	8,866,291	67	1,149.90	63.4	318.6	8.7
Coker	8,790,732	66.2	1,141.50	63	316.6	7.8
<b>Total</b>	<b>91,397,049</b>	<b>1,125.90</b>	<b>9,175.70</b>	<b>1,834.70</b>	<b>10,416.30</b>	<b>346.1</b>