

**Table 5.1-10. Daily Emissions**

Pollutant	Emission Rate (lb/day)					Total
	Area 600 Boilers	MVCU	Component Leaks	Tanks	Fire Water Pumps	
NO <sub>x</sub>	48.9	86.3	--	--	0.372	136
CO	160	37.5	--	--	1.78	199
SO <sub>2</sub>	32.2	74.6	--	--	0.00762	107
PM	33.3	28.1	--	--	0.189	61.7
VOC	22.2	101	4.50	119	0.411	247
GHG (CO <sub>2</sub> e)	520,140	526,100	1,290	1,428	796	1,050,000

**Table 5.1-11. Annual Emissions**

Pollutant	Emission Rate (tons/yr)					Total
	Area 600 Boilers	MVCU	Component Leaks	Tanks	Fire Water Pumps	
NO <sub>x</sub>	4.15	8.04	--	--	0.00632	12.2
CO	13.6	3.49	--	--	0.0302	17.1
SO <sub>2</sub>	1.39	6.59	--	--	0.000130	7.97
PM	2.83	2.62	--	--	0.00321	5.45
VOC	1.89	8.64	0.822	21.7	0.00689	33.15.7
GHG (CO <sub>2</sub> e)	44,170	50,530	236	261	13.5	95,200

### 5.1.2.2 Toxic Air Pollutants

The Facility has the potential to emit non-criteria air pollutants that are regulated federally by the Clean Air Act (CAA) Section 112 and others regulated in Washington by Ecology and EFSEC under Chapter 173-460 WAC. Some of these pollutants are deemed “hazardous air pollutants” (HAPs) under the CAA Section 112; others are defined as TAPs under Chapter 173-460 WAC.

Table 5.1-12 compares calculated Facility-wide TAP emissions with Washington’s SQERs. If Facility-wide emissions of a given pollutant are greater than its SQER, dispersion modeling is required to determine compliance with ambient air quality criteria (ASILs). As shown in Table 5.1-12, eight TAPs exceed the applicable SQERs; compliance with the applicable ASILs will be assessed in section 5.1.4. Table 5.1-13 summarizes the calculated annual TAP emission rates.

Table 5.1-12 also identifies which of the TAPs are a federal HAP. The HAP emitted in greatest quantity from the Facility is hexane (1.75 tons per year). Aggregate HAP emissions are 2.04 tons per year.

The following sections discuss the estimation of TAP/HAP emissions from each emission unit. Detailed emission calculations are presented in Attachment 2 of this section.