Western Pneumatic Tube
Kirkland, WA
Natural Gas Emissions

NATURAL GAS EMISSIONS SOURCES			*POTENTIAL Emissions (lbs/yr)*						
Natural Gas Combustion Sources	**Burner Rating (MMBTU/hr)**	**Potential Gas Usage (MMCF/yr)**	**PM-PM10-PM2.5**	**NOX**	**SOX**	**CO**	**VOC**	**LEAD**	**CO2**
Annealing Furnace	5.0	42.94	326.35	4,294.12	25.76	3,607.06	236.18	0.21	5,152,941.18
Solvent Still Boiler	1.004	8.62	65.53	862.26	5.17	724.30	47.42	0.04	1,034,710.59
Machine shop Space Heater	0.2	1.72	13.05	171.76	1.03	144.28	9.45	0.01	206,117.65
ME Building 5 Space Heater	0.2	1.72	13.05	171.76	1.03	144.28	9.45	0.01	206,117.65
Shipping Space Heater	0.2	1.72	13.05	171.76	1.03	144.28	9.45	0.01	206,117.65
Welding Space Heater	0.4	3.44	26.11	343.53	2.06	288.56	18.89	0.02	412,235.29
Press Brake Space Heater	0.2	1.72	13.05	171.76	1.03	144.28	9.45	0.01	206,117.65
Planishing Space Heater	0.4	3.44	26.11	343.53	2.06	288.56	18.89	0.02	412,235.29
Inspection Space Heater	0.4	3.44	26.11	343.53	2.06	288.56	18.89	0.02	412,235.29
Draw Bldg 2 Space Heater	0.4	3.44	26.11	343.53	2.06	288.56	18.89	0.02	412,235.29
Receiving #1 Space Heater	0.1	0.52	3.92	51.53	0.31	43.28	2.83	0.00	61,835.29
Receiving #2 Space Heater	0.1	0.52	3.92	51.53	0.31	43.28	2.83	0.00	61,835.29
TOTALS	***8.5***	***73.21***	***556.37***	***7,320.61***	***43.92***	***6,149.31***	***402.63***	***3.66E-01***	***8,784,734***
Natural Gas Emission Factors (lbs/mmcf)			7.6	100	0.6	84	5.5	0.005	120,000

PTE (hrs/yr)	**8,760**	**hrs/yr**
Natural Gas Heating Value	**1,020**	**BTU/ft3**

	Pollutant	AP-42 EF Natural Gas (lbs/mmcf)	lbs/yr	tons/yr
Criteria Pollutants	PM-PM10-PM2.5	7.6	**556**	**0.28**
	NOX	100	**7,321**	**3.66**
	SOX	0.6	**44**	**0.02**
	CO	84	**6,149**	**3.07**
	VOC	5.5	**403**	**0.20**
	LEAD	0.005	**0.4**	**0.000**
GHG's	CO2	120,000	**8,784,734**	**4,392.37**
	Methane	2.30E+00	**168**	**0.08**
Speciated Organic HAP Compounds	2-Methylnaphthalene	2.40E-05	**1.76E-03**	**8.78E-07**
	3-Methylchloranthrene	1.80E-06	**1.32E-04**	**6.59E-08**
	7, 12-Dimethylbenz(a)anthracene	1.60E-05	**1.17E-03**	**5.86E-07**
	Acenaphthene	1.80E-06	**1.32E-04**	**6.59E-08**
	Acenaphthylene	1.80E-06	**1.32E-04**	**6.59E-08**
	Anthracene	2.40E-06	**1.76E-04**	**8.78E-08**
	Benz(a)anthracene	1.80E-06	**1.32E-04**	**6.59E-08**
	Benzene	2.10E-03	**1.54E-01**	**7.69E-05**
	Benzo(a)pyrene	1.20E-06	**8.78E-05**	**4.39E-08**
	Benzo(b)fluoranthene	1.80E-06	**1.32E-04**	**6.59E-08**
	Benzo(g,h,i)perylene	1.20E-06	**8.78E-05**	**4.39E-08**
	Benzo(k)fluoranthene	1.80E-06	**1.32E-04**	**6.59E-08**
	Chrysene	1.80E-06	**1.32E-04**	**6.59E-08**
	Dibenzo(a,h)anthracene	1.20E-06	**8.78E-05**	**4.39E-08**
	Dichlorobenzene	1.20E-03	**8.78E-02**	**4.39E-05**
	Fluoranthene	3.00E-06	**2.20E-04**	**1.10E-07**
	Fluorene	2.80E-06	**2.05E-04**	**1.02E-07**
	Formaldehyde	7.50E-02	**5**	**0.00**
	Hexane	1.80E+00	**132**	**0.07**
	Indeno(1,2,3-cd)pyrene	1.80E-06	**1.32E-04**	**6.59E-08**
	Naphthalene	6.10E-04	**4.47E-02**	**2.23E-05**
	Phenanathrene	1.70E-05	**1.24E-03**	**6.22E-07**
	Pyrene	5.00E-06	**3.66E-04**	**1.83E-07**
	Toluene	3.40E-03	**2.49E-01**	**1.24E-04**
Metal HAP's	Arsenic	2.00E-04	**1.46E-02**	**7.32E-06**
	Beryllium	1.20E-05	**8.78E-04**	**4.39E-07**
	Cadmium	1.10E-03	**8.05E-02**	**4.03E-05**
	Chromium	1.40E-03	**1.02E-01**	**5.12E-05**
	Cobalt	8.40E-05	**6.15E-03**	**3.07E-06**
	Manganese	3.80E-04	**2.78E-02**	**1.39E-05**
	Mercury	2.60E-04	**1.90E-02**	**9.52E-06**
	Nickel	2.10E-03	**1.54E-01**	**7.69E-05**
	Selenium	2.40E-05	**1.76E-03**	**8.78E-07**
Sum of All HAP			**138**	**0.07**
Highest Single HAP			**132**	**0.07**