

EPA Technical Analysis for the Liberty-Clairton Area

Introduction

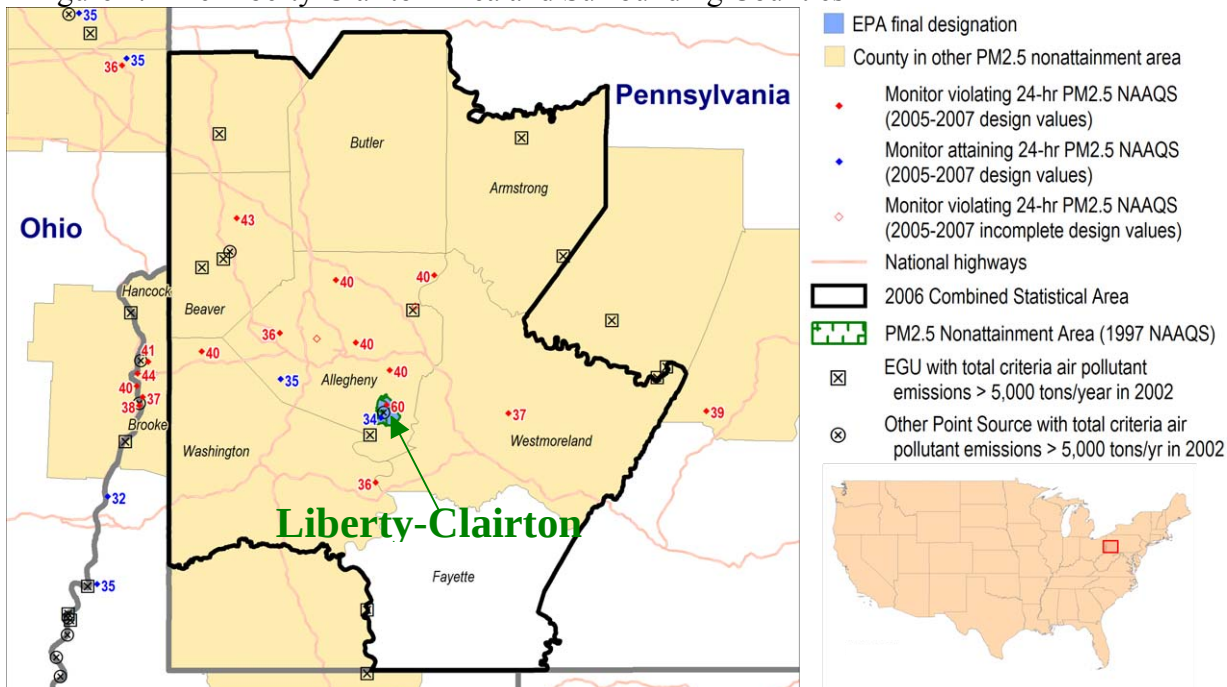
Pursuant to section 107(d) of the Clean Air Act, the Environmental Protection Agency (EPA) must designate as nonattainment those areas that violate the national ambient air quality standard (NAAQS) and those nearby areas that contribute to violations. This technical analysis for the Liberty-Clairton area identifies the counties with monitors that violate the 2006 24-hour PM_{2.5} standard and evaluates nearby counties for contributions to fine particle concentrations in the area. EPA has evaluated these counties based on the weight of evidence of the following nine factors recommended in EPA guidance and any other relevant information:

- pollutant emissions
- air quality data
- population density and degree of urbanization
- traffic and commuting patterns
- growth
- meteorology
- geography and topography
- jurisdictional boundaries
- level of control of emissions sources

We also used analytical tools and data such as pollution roses, fine particle composition monitoring data, back trajectory analyses, and the contributing emission score (CES) to evaluate these areas. (See additional discussion of the CES under Factor 1).

Figure 1 is a map of the counties in the Liberty-Clairton area and other relevant information such as the locations and design values of air quality monitors, and the metropolitan area boundary.

Figure 1. The Liberty-Clairton Area and Surrounding Counties



For the Liberty-Clairton area, EPA previously established PM_{2.5} nonattainment boundaries for the 1997 PM_{2.5} NAAQS that included a portion of Allegheny County, Pennsylvania.

In December 2007, the Commonwealth of Pennsylvania recommended that the same portion of Allegheny County be designated as “nonattainment” for the 2006 24-hour PM_{2.5} standard based on air quality data from 2004-2006. These data are from Federal Reference Method (FRM) monitors located in the Commonwealth. (See the December 28, 2007 from the Pennsylvania Department of the Environment to EPA, received on January 3, 2008.)

In August 2008, EPA notified the Commonwealth of Pennsylvania of its intended designations. In this letter, EPA also requested that if the Commonwealth of Pennsylvania wished to provide comments on EPA’s intended designation, it should do so by October 20, 2008. EPA stated that it would consider any additional information (e.g., on power plants or partial county areas) provided by the state in making final decisions on the designations.

Based on EPA's technical analysis described below, EPA has designated that the same portion of Allegheny County, PA as nonattainment for the 2006 24-hour PM_{2.5} air-quality standard as part of the Liberty-Clairton nonattainment area, based upon currently available information. These counties are listed in the table below.

Liberty-Clairton Area	State-Recommended Nonattainment Counties	EPA Final Designated Nonattainment Counties
Pennsylvania	Portion of Allegheny County: City of Clairton and Boroughs of Glassport, Liberty, Lincoln and Port View	Portion of Allegheny County: City of Clairton and Boroughs of Glassport, Liberty, Lincoln and Port View

The following is a technical analysis for the Liberty-Clairton area.

Factor 1: Emissions data

For this factor, EPA evaluated county level emission data for the following PM_{2.5} components and precursor pollutants: PM_{2.5} emissions total, PM_{2.5} emissions carbon, PM_{2.5} emissions other, sulfur dioxide (SO₂), nitrogen oxides (NO_x), volatile organic compounds (VOCs), and ammonia (NH₃). “PM_{2.5} emissions total” represents direct emissions of PM_{2.5} and includes: “PM_{2.5} emissions carbon,” “PM_{2.5} emissions other,” primary sulfate (SO₄), and primary nitrate. (Although primary sulfate and primary nitrate, which are emitted directly from stacks rather than forming in atmospheric reactions with SO₂ and NO_x, are part of “PM_{2.5} emissions total,” they are not shown in Table 1 as separate items). “PM_{2.5} emissions carbon” represents the sum of organic carbon (OC) and elemental carbon (EC) emissions, and “PM_{2.5} emissions other” represents other inorganic particles (crustal). Emissions of SO₂ and NO_x, which are precursors of the secondary PM_{2.5} components sulfate and nitrate, are also considered. VOCs and NH₃ are also potential PM_{2.5} precursors and are included for consideration.

Emissions data were derived from the 2005 National Emissions Inventory (NEI), version 1. See http://www.epa.gov/ttn/naaqs/pm/pm25_2006_techinfo.html.

EPA also considered the Contributing Emissions Score for each county. The CES is a metric that takes into consideration emissions data, meteorological data, and air quality monitoring information to

provide a relative ranking of counties in and near an area. Note that this metric is not the exclusive manner for considering data for these factors. A summary of the CES is included in Attachment 2, and a more detailed description can be found at http://www.epa.gov/ttn/naaqs/pm/pm25_2006_techinfo.html#C.

However, no CES values were calculated for the Liberty-Clairton area due to its unique circumstance of being a portion of Allegheny County, completely surrounded by the Pittsburgh area. Please see the technical analysis for the Pittsburgh area for CES scores for that area.

Table 1 shows emissions of PM_{2.5} and precursor pollutants components (given in tons per year) for violating and potentially contributing counties in the Liberty-Clairton area. The Liberty-Clairton nonattainment area for the 1997 PM_{2.5} NAAQS is shown in boldface.

Table 1. PM_{2.5} Related Emissions and Contributing Emissions Score

County, State	State Recommended Nonattainment ?	PM _{2.5} emissions total (tpy)	PM _{2.5} emissions carbon (tpy)	PM _{2.5} emissions other (tpy)	SO ₂ (tpy)	NO _x (tpy)	VOCs (tpy)	NH ₃ (tpy)
Allegheny, PA	Yes (partial) + Yes- other area partial	5,221	2,245	2,975	51,471	63,290	46,690	2,249
Armstrong, PA	Yes - other area partial	11,962	780	11,182	209,910	20,352	3,417	844
Beaver, PA	Yes - other area	2,909	451	2,457	45,452	33,400	7,424	450
Brooke, WV	Yes - other area	579	192	388	1,349	2,131	3,436	210
Butler, PA	Yes - other area	1,232	441	791	3,359	7,549	8,805	771
Fayette, PA	No	657	298	360	1,291	4,064	5,377	521
Hancock, WV	Yes - other area	3,781	704	3,077	2,039	4,404	2,298	830
Washington, PA	Yes - other area	1,683	514	1,170	6,318	16,311	9,297	919
Westmoreland, PA	Yes - other area	1,779	798	981	3,506	16,655	15,073	1,175

The Liberty-Clairton area is located in the Monongahela River Valley, known as the Mon Valley. The Mon Valley is historically an industrial area. Emissions in the Liberty-Clairton area are dominated by the U.S. Steel Clairton Cokes Works. Clairton Works is located approximately 20 miles south of Pittsburgh in Clairton, PA, and sits along the west bank of the Monongahela River. The Clairton Works is the country's largest coking operation, with 816 ovens grouped into 12 batteries, and annual capability of 4.7 million tons. Coke is produced by burning coal at high temperatures and is used in the steel making process.

Coke is made by heating coal to extremely high temperatures (1100°C) in an oxygen deficient atmosphere. This concentrates the carbon, and removes any impurities. The coke produced is subsequently used as fuel in iron and steel production because it generates very high heat without as much smoke. The production of the coke itself, however, produces significant amounts of emissions that affect ambient PM_{2.5} levels in this area.

Table 1.1. U.S. Steel Clairton Coke Works 2004 Emissions Data

Source: "Point Source Emission Inventory Report, 2004," Allegheny County Health Department, Air Quality Program, <http://www.achd.net/airqual/>

CO	PM _{2.5}	PM10	PT	PMCond	SO ₂	NO _x	VOC
3893.90	306.32	711.93	2386.92	117.01	1653.76	4367.92	448.60

NOTE: - CO = carbon monoxide

- NO_x = emissions of oxides of nitrogen reported as nitrogen dioxide

- PM_{2.5} = filterable particulate with an aerodynamic diameter less than 2.5 microns
- PM₁₀ = filterable particulate with an aerodynamic diameter less than 10 microns
- PT = total filterable particulate
- PMCOND = condensable particulate matter defined as material in the vapor state at temperatures above 68° F and a solid at lower temperatures.
- SO₂ = sulfur dioxide
- VOCs = Volatile Organic Compounds.

Factor 2: Air quality data

This factor considers the 24-hour PM_{2.5} design values in micrograms per cubic meter (µg/m³) for air quality monitors in counties in the Liberty-Clairton area based on data for the 2005-2007 period. A monitor's design value indicates whether that monitor attains a specified air quality standard. The 2006 24-hour PM_{2.5} standard is met when the 3-year average of a monitor's 98th percentile values is 35 µg/m³ or less. A design value is only valid if minimum data completeness criteria are met.

The 24-hour PM_{2.5} design values for counties in the Liberty-Clairton area are shown in Table 2.

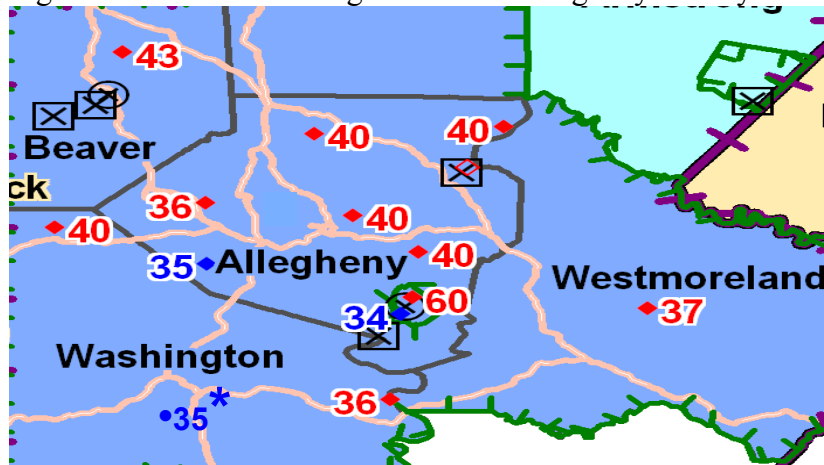
Table 2. Air Quality Data

County, State	State Recommended Nonattainment?	Design Values 2003-05 (µg/m ³)	Design Values 2004-06 (µg/m ³)	Design Values 2005-07 (µg/m ³)
Allegheny, PA	Yes (partial) +	68	65	61
	Yes - other area partial	52	45	40
Armstrong, PA	Yes - other area	No monitor		
Beaver, PA	Yes - other area	43	45	43
Brooke, WV	Yes - other area	42	40	44
Butler, PA	No	No monitor		
Fayette, PA	Yes - other area	No monitor		
Hancock, WV	Yes - other area	45	40	41
Washington, PA	Yes - other area	36	38	40
Westmoreland, PA	Yes- other area	38	37	37

The Liberty-Clairton portion of Allegheny County shows a violation of the 2006 24-hour PM_{2.5} standard. Therefore, this portion of Allegheny County is included in the Liberty-Clairton nonattainment area. Beaver County, PA, Brooke County, WV, Hancock County, WV, Washington County, PA, and Westmoreland County, PA and other parts of Allegheny County outside the Liberty-Clairton area also show violations of the 2006 24-hour PM_{2.5} standard. However, Allegheny County (except for the Liberty-Clairton area) and Beaver, Washington, and Westmoreland Counties in Pennsylvania are part of the Pittsburgh nonattainment area for the 1997 and 2006 PM_{2.5} NAAQS and therefore, are not included in the Liberty-Clairton area for the 2006 24-hour PM_{2.5} standard. In addition, Brooke and Hancock Counties in West Virginia are part of the Steubenville-Weirton nonattainment area for the 1997 and 2006 PM_{2.5} NAAQS and therefore, are not included in the Liberty-Clairton area for the 2006 24-hour PM_{2.5} standard.

There are eight air quality monitors in Allegheny County. In Figure 2, PM_{2.5} design values at seven of the eight monitors correlate well. However, the PM_{2.5} design value at Liberty Borough is considerably higher. The 2005 - 2007 design value at the Liberty Borough monitor is 60.9 µg/m³, while the design values at the other seven monitors in Allegheny County are between 34 and 40 µg/m³. The large local sources plus the unique topographical features in this location result in substantially higher PM_{2.5} monitored values at the Liberty Borough monitor than the other monitors in Allegheny County.

Figure 2. 2005-2007 Design Values in Allegheny County and Surrounding Counties



*Monitor 421250200 in Washington County, PA has incomplete data for 2006.

This point is demonstrated dramatically by contrasting the design value at the Liberty Borough monitor, $60.9 \mu\text{g}/\text{m}^3$, with that of the Clairton monitor, $33.9 \mu\text{g}/\text{m}^3$. The Clairton monitor is two miles southwest of the Liberty Borough monitor, and less than a mile southwest of the Clairton Coke Works.

Figure 2.1. Aerial View of Liberty Borough and Clairton Monitors (Google Earth 2008)

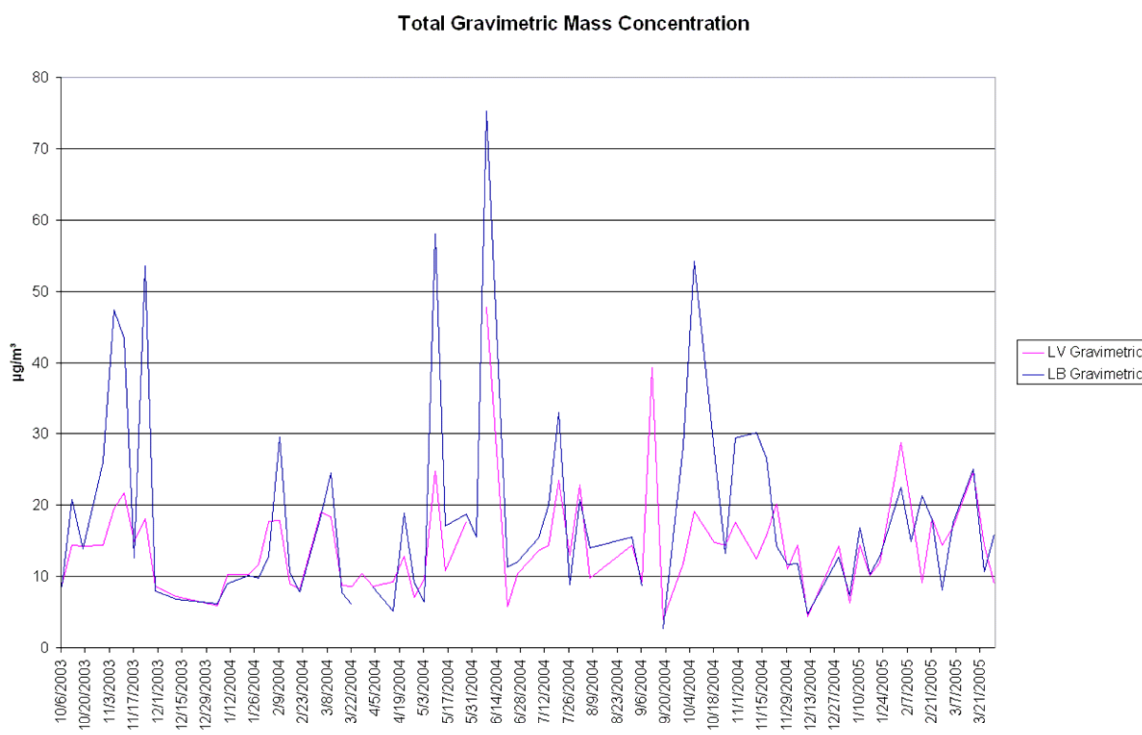


Speciation data further illuminates Liberty-Clairton area's unique local problem. The Allegheny County Health Department (ACHD) conducted an 18-month study which compared $\text{PM}_{2.5}$ speciation data at the Liberty Borough monitor to another monitor in Allegheny County, the Lawrenceville monitor. (See, "PM_{2.5} Chemical Speciation and Related Comparisons at Lawrenceville and Liberty: 18-Month Results," dated June 7, 2005, prepared by Jason Maranche, Allegheny County Health Department, which is attached.) The Lawrenceville monitor (# 42-003-008) is located in Pittsburgh, downwind from the central business district. The Liberty Borough monitor site is located in the Monongahela Valley, which contains a mix of urban residential, heavy industrial and rural areas.

The ACHD study showed that the Lawrenceville monitor is impacted by sulfates during warmer weather and nitrates during colder weather. The Liberty Borough monitor showed similar levels of nitrates and sulfates, depending on the season. However, the main species detected year-round at Liberty Borough were organic and elemental carbon.

The ACHD study included the following plot showing total concentrations at both monitors over the 18-month period. See Figure 2.2.

Figure 2.2



The ACHD study made the following observations:

- “Total PM_{2.5} at Lawrenceville and Liberty show similar peaks at the same times, but to varying extents at each site. Liberty is generally the highest site on peak days, but can be lower for some peaks. On average or low PM_{2.5} days, Liberty and Lawrenceville are often nearly equal. This indicates that regional flow and meteorology may be the primary controlling factors in the formation of PM_{2.5} on low and average days. Wind speed aloft (upper air), relative humidity, and temperature can affect both sites on a broad-scale. Additional accumulation at Liberty may be dependent on local conditions such as surface wind and temperature.”
- “Major species concentrations at Lawrenceville parallel those sampled at other Eastern U.S. metropolitan areas, while the concentrations at Liberty follow their own course. The differences in concentrations of many elements may provide clues to the regional, urban excess, and localized river valley components of PM_{2.5} in Allegheny County.”

Every 6 days, the sampling at the Liberty Borough and Lawrenceville monitors is concurrent. An analysis of the concurrent sampling in the ACHD study showed that sulfate and nitrate concentrations

at both site were very similar. The ADCH study concluded that, sulfates and nitrates are regional species. However, there were large differences between the two monitors for organic and elemental carbon. The ACHD study showed that ammonium and “other” species are also higher at the Liberty Borough monitor than at Lawrenceville. However, carbon, especially organic carbon, is by far the dominant species at Liberty Borough.

The ACHD study included the following plots showing organic and elemental carbon concentrations at both monitors over the 18-month period. See Figures 2.3 and 2.4.

Figure 2.3

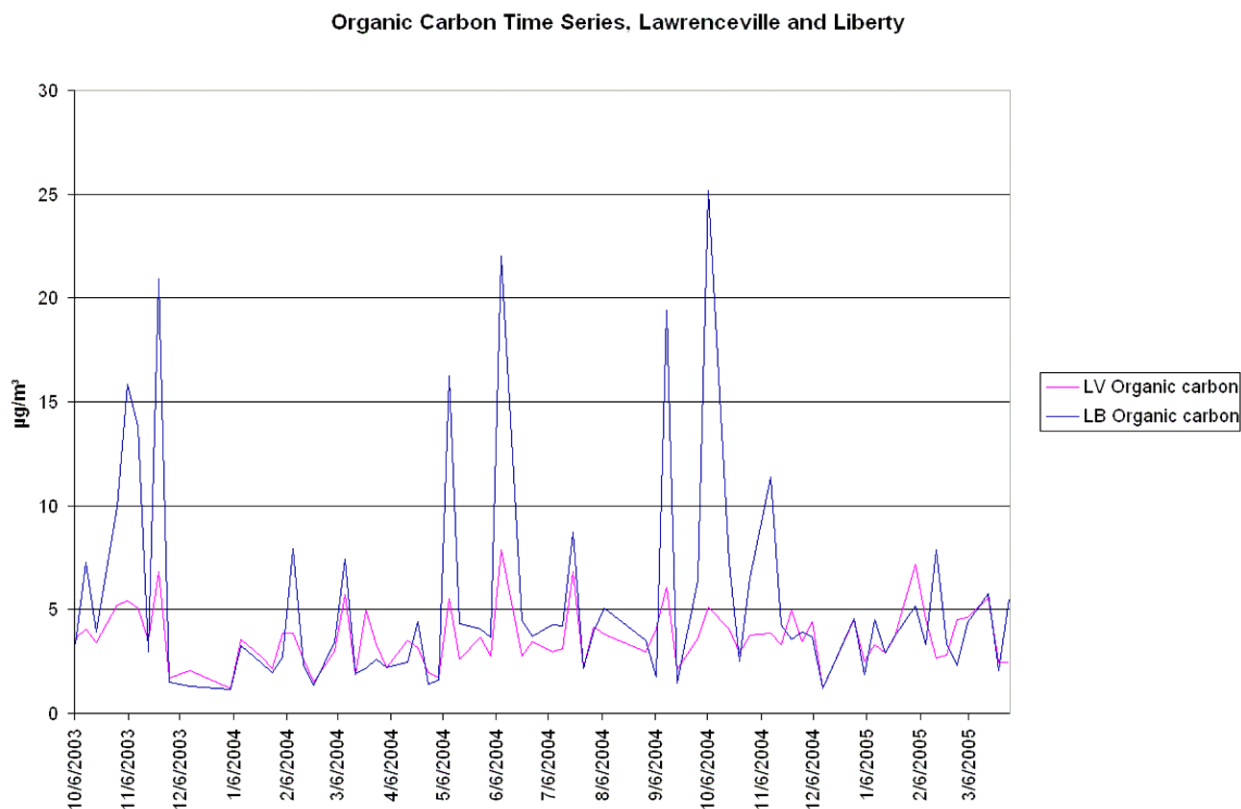
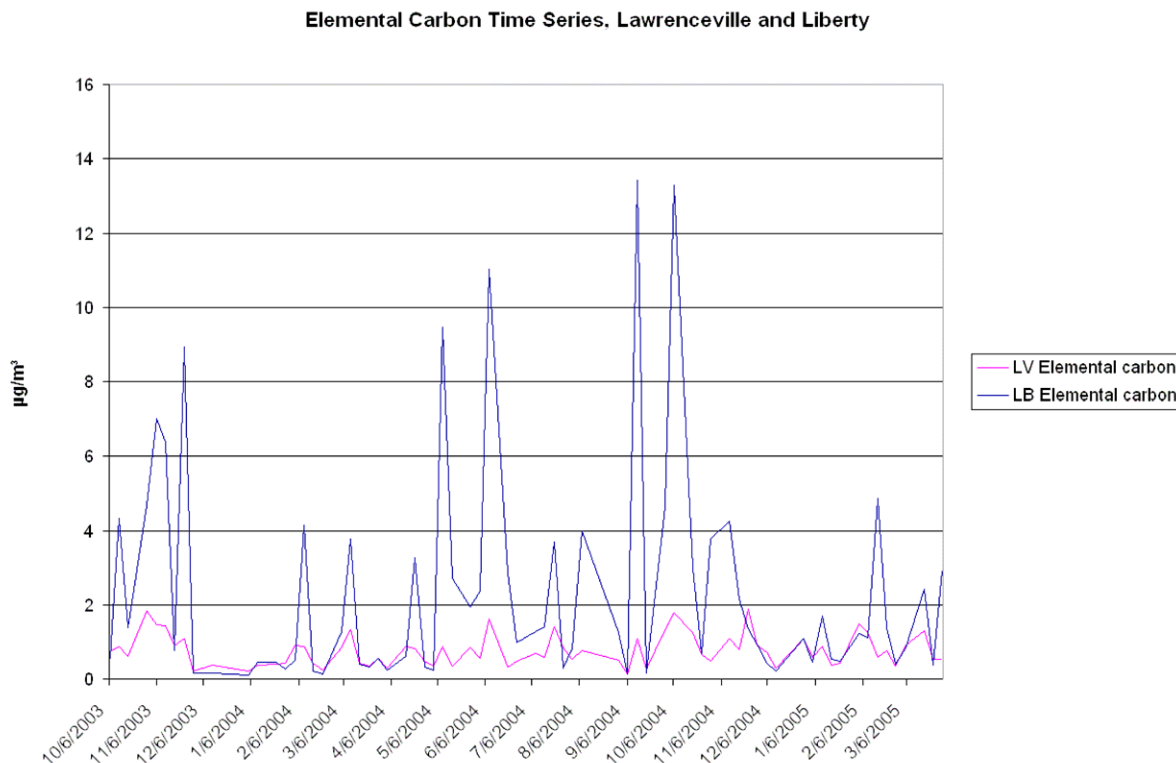


Figure 2.4



The ACHD study also looked at two other monitors in southwestern Pennsylvania, one upwind from Allegheny County and one downwind. The upwind monitor, the Florence monitor, is in the northwestern corner of Washington County, PA. This monitor is west of the Lawrenceville monitor, and northwest of the Liberty Borough monitor. Downwind, the Greensburg monitor is located in Westmoreland County. This monitor is east of the Liberty Borough monitor, and southeast of the Lawrenceville monitor. (Please note that Washington and Westmoreland Counties are in the Pittsburgh nonattainment area for the 1997 $\text{PM}_{2.5}$ NAAQS.) The ACHD study found that, “By total gravimetric (weighed) mass concentrations, Florence, Lawrenceville, and Greensburg match well, indicative of the regional flow through the multi-county area. Liberty Borough shows the highest mass concentrations, due to regional flow plus localized excess. Lawrenceville and Greensburg show the next highest concentrations, due to gained urban excess. Accordingly, Florence is usually the lowest by total mass, since it reflects regional flow without localized urban excess.”

Furthermore, concentrations of sulfate and nitrate track well with all four monitors, indicating that they are regional pollutants. Organic carbon, elemental carbon, and ammonium are higher at Liberty Borough. As when comparing Liberty Borough to Lawrenceville alone, organic carbon at Liberty Borough is far higher than at the other three monitors.

On peak PM days, organic carbon is anywhere from a few $\mu\text{g}/\text{m}^3$ higher at Liberty Borough to nearly 20 $\mu\text{g}/\text{m}^3$ higher. Similarly, elemental carbon is from a few $\mu\text{g}/\text{m}^3$ higher at Liberty Borough to about 12 $\mu\text{g}/\text{m}^3$ higher. The differences in ammonium concentrations are much smaller, from 1 or 2 $\mu\text{g}/\text{m}^3$ to about 7 $\mu\text{g}/\text{m}^3$. The additional concentrations of organic carbon, elemental carbon, and ammonium account for the more than 20 $\mu\text{g}/\text{m}^3$ difference between Liberty Borough and the other monitors in Southwestern Pennsylvania. (See Table 2.1.)

Table 2.1. Representative Design Values in Southwestern Pennsylvania

Monitor Name, Location	Design Values ($\mu\text{g}/\text{m}^3$)	
	2004-2006	2005-2007
Liberty Borough, Allegheny County	65.5	60.9
Lawrenceville, Allegheny County	39.5	39.9
Greensburg, Westmoreland County	37.1	36.8
Florence, Washington County	38.2	39.9

Similarly, speciation data from the Liberty Borough monitor compared to other surrounding nonattainment areas shows similar results. A comparison of speciation data from the Liberty Borough monitor to Morgantown, WV to the south; Steubenville-Weirton, WV to the west; and Johnstown, PA to the east shows that carbon is far higher at Liberty Borough than the other areas. See Table 2.2.

Table 2.2. Particulate Matter Speciation Data for Liberty-Clairton and Nearby Areas

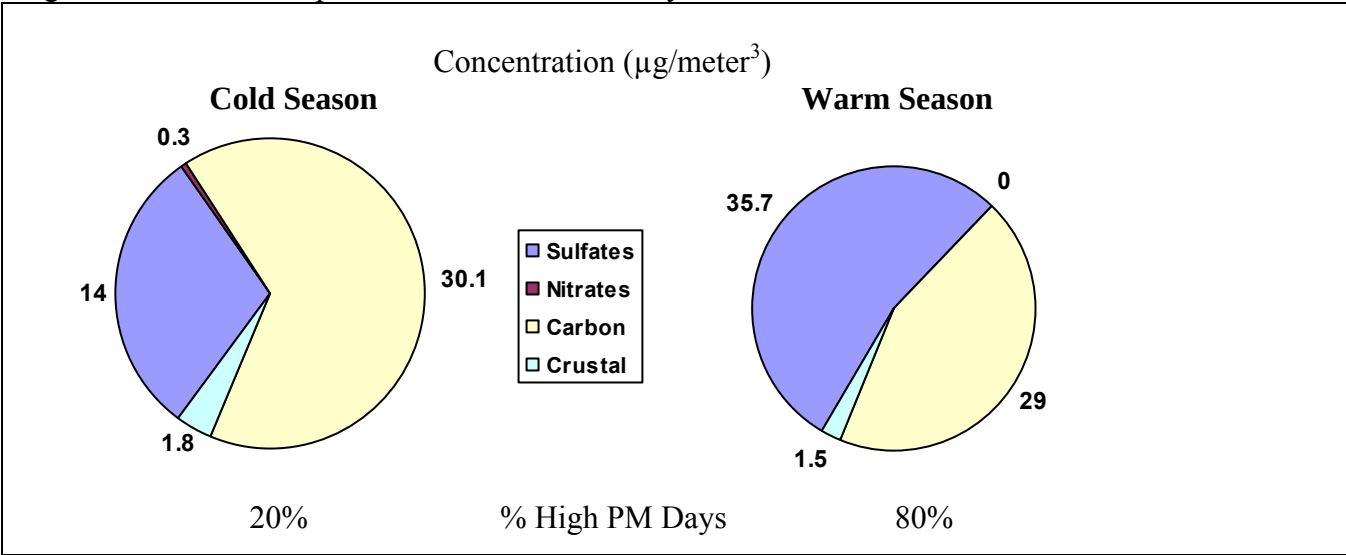
Area	Speciation Data								
Liberty-Clairton, PA	Sulfate ($\mu\text{g}/\text{m}^3$)	Nitrate ($\mu\text{g}/\text{m}^3$)	Carbon ($\mu\text{g}/\text{m}^3$)	Crustal ($\mu\text{g}/\text{m}^3$)	Total ($\mu\text{g}/\text{m}^3$)	Sulfate Percent	Nitrate Percent	Carbon Percent	Crustal Percent
Total Concentration (Cold)	14.0	0.3	30.1	1.8	46.2	30	1	65	4
Regional Concentration (Cold)	7.8	0.3	4.2	0.8	13.1	60	2	32	6
Urban Increment (Cold)	6.2	0.0	25.9	1.0	33.1	19	0	78	3
Total Concentration (Warm)	35.7	0.0	29.0	1.5	66.2	54	0	44	2
Regional Concentration (Warm)	20.6	0.0	4.4	1.4	26.4	78	0	17	5
Urban Increment (Warm)	15.1	0.0	24.6	0.1	39.8	38	0	62	0
Morgantown, WV	Sulfate ($\mu\text{g}/\text{m}^3$)	Nitrate ($\mu\text{g}/\text{m}^3$)	Carbon ($\mu\text{g}/\text{m}^3$)	Crustal ($\mu\text{g}/\text{m}^3$)	Total ($\mu\text{g}/\text{m}^3$)	Sulfate Percent	Nitrate Percent	Carbon Percent	Crustal Percent
Total Concentration (Cold)	9.6	9.7	8.1	0.9	28.3	34	34	29	3
Regional Concentration (Cold)	8.0	7.5	5.0	0.6	21.1	38	36	24	3
Urban Increment (Cold)	1.6	2.2	3.1	0.3	7.2	22	31	43	4
Total Concentration (Warm)	25.8	0.0	8.7	1.1	35.6	72	0	24	3
Regional Concentration (Warm)	22.8	0.0	6.3	1.0	30.1	76	0	21	3
Urban Increment (Warm)	3.0	0.0	2.4	0.1	5.5	55	0	44	2
Steubenville-Weirton, WV	Sulfate ($\mu\text{g}/\text{m}^3$)	Nitrate ($\mu\text{g}/\text{m}^3$)	Carbon ($\mu\text{g}/\text{m}^3$)	Crustal ($\mu\text{g}/\text{m}^3$)	Total ($\mu\text{g}/\text{m}^3$)	Sulfate Percent	Nitrate Percent	Carbon Percent	Crustal Percent
Total Concentration (Cold)	28.4	0.0	8.2	1.0	37.7	75	0	22	3
Regional Concentration (Cold)	25.1	0.0	4.4	1.2	30.7	82	0	14	4
Urban Increment (Cold)	3.3	0.0	3.8	0.0	7.1	46	0	54	0
Total Concentration (Warm)	28.4	0.0	8.2	1.0	37.7	75	0	22	3
Regional Concentration (Warm)	25.1	0.0	4.4	1.2	30.7	82	0	14	4
Urban Increment (Warm)	3.3	0.0	3.8	0.0	7.1	46	0	54	0
Johnstown, PA	Sulfate ($\mu\text{g}/\text{m}^3$)	Nitrate ($\mu\text{g}/\text{m}^3$)	Carbon ($\mu\text{g}/\text{m}^3$)	Crustal ($\mu\text{g}/\text{m}^3$)	Total ($\mu\text{g}/\text{m}^3$)	Sulfate Percent	Nitrate Percent	Carbon Percent	Crustal Percent
Total Concentration (Cold)	9.6	9.7	8.1	0.9	28.3	34	34	29	3
Regional Concentration (Cold)	8.0	7.5	5.0	0.6	21.1	38	36	24	3
Urban Increment (Cold)	1.6	2.2	3.1	0.3	7.2	22	31	43	4
Total Concentration (Warm)	25.8	0.0	8.7	1.1	35.6	72	0	24	3
Regional Concentration (Warm)	22.8	0.0	6.3	1.0	30.1	76	0	21	3
Urban Increment (Warm)	3.0	0.0	2.4	0.1	5.5	55	0	44	2

Thus, the high concentrations of carbon at the Liberty Borough monitor indicate a unique local problem in the area. The additional carbon is, on average, approximately equal to the difference

between the Liberty Borough design concentration and the concentration for the remainder of the surrounding Pittsburgh area.

Under this factor, we also consider fine particle composition monitoring data. Air quality monitoring data on the composition of fine particle mass are available from the EPA Chemical Speciation Network and the IMPROVE monitoring network. Analysis of these data indicates that the days with the highest fine particle concentrations in the Liberty-Clairton area occur predominantly in the summer. The average chemical composition of the highest days is illustrated in Figure 2.5, below. This data indicates that sources of direct PM_{2.5} carbon and SO₂ emissions are key contributors to exceedances in the area. This data corresponds with the data compiled and analyzed by ACHD, which is discussed above.

Figure 2.5. PM_{2.5} Composition Data for the Liberty-Clairton Area



Note: Eligible monitors for providing design value data generally include State and Local Air Monitoring Stations (SLAMS) at population-oriented locations with an FRM monitor. All data from Special Purpose Monitors (SPM) using an FRM is eligible for comparison to the relevant NAAQS, subject to the requirements given in the October 17, 2006 Revision to Ambient Air Monitoring Regulations (71 FR 61236). All monitors used to provide data must meet the monitor siting and eligibility requirements given in 71 FR 61236 to 61328 in order to be acceptable for comparison to the 2006 24-hr PM_{2.5} NAAQS for designation purposes.

Factor 3: Population density and degree of urbanization (including commercial development)

Table 3 shows the 2005 population for each county in the area being evaluated, as well as the population density for each county in that area. Population data gives an indication of whether it is likely that population-based emissions might contribute to violations of the 2006 24-hour PM_{2.5} standard. The Liberty-Clairton area for the 1997 PM_{2.5} NAAQS area is shown in boldface.

Table 3. Population

County, State	State Recommended Nonattainment?	2005 Population	2005 Population Density (pop/sq mi)
Allegheny, PA	Yes (partial) +	1,233,036	1658

	Yes- other area partial		
Armstrong, PA	Yes - other area partial	70,527	106
Beaver, PA	Yes - other area	176,825	399
Brooke, WV	Yes - other area	24,474	265
Butler, PA	Yes - other area	181,526	229
Fayette, PA	No	146,206	183
Hancock, WV	Yes - other area	31,191	354
Washington, PA	Yes - other area	206,418	240
Westmoreland, PA	Yes - other area	367,133	355

Because of the unique nature of the Liberty-Clairton area, with its local source and topography issues, this factor does not weigh heavily in this technical analysis. The Liberty-Clairton area is completely surrounded by the Pittsburgh area. This factor is fully considered in the technical analysis for the Pittsburgh area.

Factor 4: Traffic and commuting patterns

This factor considers the number of commuters in each county who drive to another county within the Liberty-Clairton area, the percent of total commuters in each county who commute to other counties within the Liberty-Clairton area, as well as the total Vehicle Miles Traveled (VMT) for each county in millions of miles (see Table 4). A county with numerous commuters is generally an integral part of an urban area and is likely contributing to fine particle concentrations in the area.

Table 4. Traffic and Commuting Patterns

County, State	State Recommended Non-attainment?	2005 VMT (millions of miles)	Number Commuting to any violating counties	Percent Commuting to any violating counties	Number Commuting into and within statistical area	Percent Commuting into and within statistical area
Allegheny, PA	Yes (partial) + Yes- other area partial	10,003	(3)	563,410	573,120	99
Armstrong, PA	Yes - other area partial	565	(2)	7,480	26,420	89
Beaver, PA	Yes - other area	1,522	0	71,950	78,710	97
Brooke, WV	Yes - other area	210	0	8,040	1,280	12
Butler, PA	Yes - other area	1,669	10	23,870	77,510	96
Fayette, PA	No	927	(14)	17,320	53,460	93
Hancock, WV	Yes - other area	187	(32)	11,830	2,290	16
Washington, PA	Yes - other area	2,399	25	84,880	85,970	96
Westmoreland, PA	Yes - other area	3,583	17	153,610	159,570	97

. Note: The 2005 VMT data used for Tables 4 and 5 of the technical analysis have been derived using methodology such as that described in "Documentation for the 2005 Mobile National Emissions Inventory, Version 2," December 2008, prepared for the Emission Inventory Group, U.S. EPA. This document may be found at:

ftp://ftp.epa.gov/EmisInventory/2005_nei/mobile_sector/documentation/2005_mobile_nei_version_2_report.pdf

The listing of counties on Table 4 reflects the number of people commuting to other counties. The Liberty-Clairton area for the 1997 PM_{2.5} NAAQS area is shown in boldface.

Because of the unique nature of the Liberty-Clairton area, with its local source and topography issues, this factor does not weigh heavily in this technical analysis. The Liberty-Clairton area is completely

surrounded by the Pittsburgh area. This factor is fully considered in the this technical analysis for the Pittsburgh area.

Factor 5: Growth rates and patterns

This factor considers population growth for 2000-2005 and growth in VMT for 1996-2005 for counties in Liberty-Clairton area, as well as patterns of population and VMT growth. A county with rapid population or VMT growth is generally an integral part of an urban area and likely to be contributing to fine particle concentrations in the area.

Table 5 shows population, population growth, VMT, and VMT growth for counties that are included in the Liberty-Clairton area. The Liberty-Clairton area for the 1997 PM_{2.5} NAAQS area is shown in boldface.

Table 5. Population and VMT Values and Percent Change.

County, State	Population (2005)	Population Growth (2000 - 2005)	Population % change (2000 - 2005)	2005 VMT (millions of miles)	VMT % change (2000 to 2005)
Allegheny, PA	1,233,036	1658	(4)	10,003	(3)
Armstrong, PA	70,527	106	(2)	565	(2)
Beaver, PA	176,825	399	(2)	1,522	0
Brooke, WV	24,474	265	(4)	210	0
Butler, PA	181,526	229	4	1,669	10
Fayette, PA	146,206	183	(2)	927	(14)
Hancock, WV	31,191	354	(4)	187	(32)
Washington, PA	206,418	240	2	2,399	25
Westmoreland, PA	367,133	355	(1)	3,583	17

Because of the unique nature of the Liberty-Clairton area, with its local source and topography issues, this factor does not weigh heavily in this technical analysis. The Liberty-Clairton area is completely surrounded by the Pittsburgh nonattainment area. This factor is fully considered in the technical analysis for the Pittsburgh area.

Factor 6: Meteorology (weather/transport patterns)

For this factor, EPA considered data from National Weather Service instruments and other meteorological monitoring sites in the area. Wind direction and wind speed data for 2005-2007 were analyzed, with an emphasis on “high PM_{2.5} days” for each of two seasons (an October-April “cold” season and a May-September “warm” season). These high days are defined as days where any FRM air quality monitors had 24-hour PM_{2.5} concentrations above 95% on a frequency distribution curve of PM_{2.5} 24-hour values.

For each air quality monitoring site, EPA developed a “pollution rose” to understand the prevailing wind direction and wind speed on the days with highest fine particle concentrations. Figures 6 and 6.2 identify 24-hour PM_{2.5} values by color; days exceeding 35 ug/m³ are denoted with a red or black icon. A dot indicates the day occurred in the warm season; a triangle indicates the day occurred in the cool season. The center of the figure indicates the location of the air quality monitoring site, and the location of the icon in relation to the center indicates the direction from which the wind was blowing on that day. An icon that is close to the center indicates a low average wind speed on that day. Higher wind speeds are indicated when the icon is further away from the center.

The pollution roses for the Liberty-Clairton area (Figures 6 and 6.2) show that winds in the area are predominantly from the southwest. At the Liberty Borough monitor (# 420033064), high PM_{2.5} days (days with PM_{2.5} greater than 35 µg/m³) are primarily days with winds from southwest and south, which is direction of the Clairton Coke Works. (See Figures 6 and 6.1.) To a far lesser degree, some days with high ambient PM_{2.5} have winds from the northwest.

Figure 6. Pollution Trajectory Plot for the Liberty Borough Monitor, Allegheny County, PA (Site 420033064)

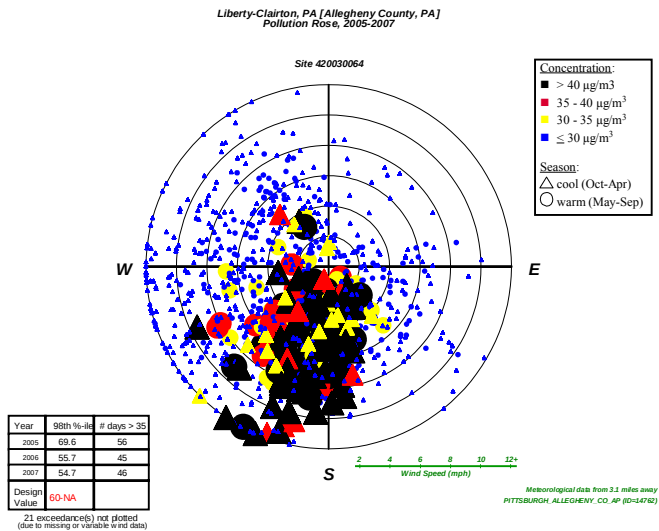
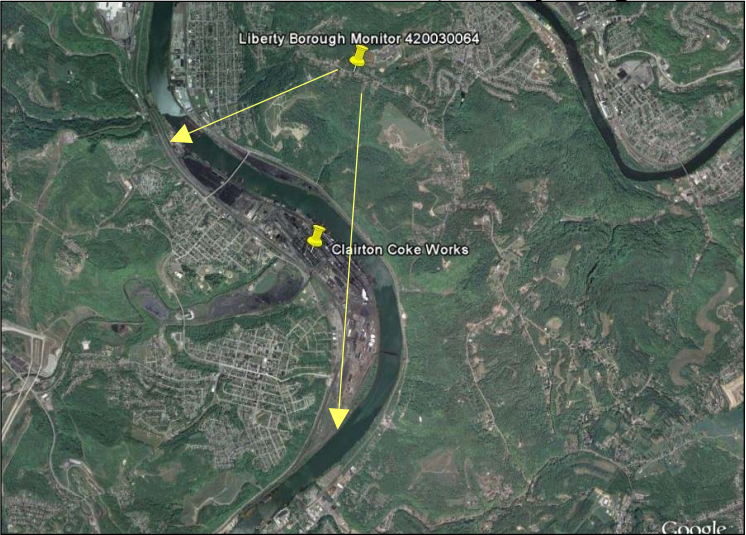
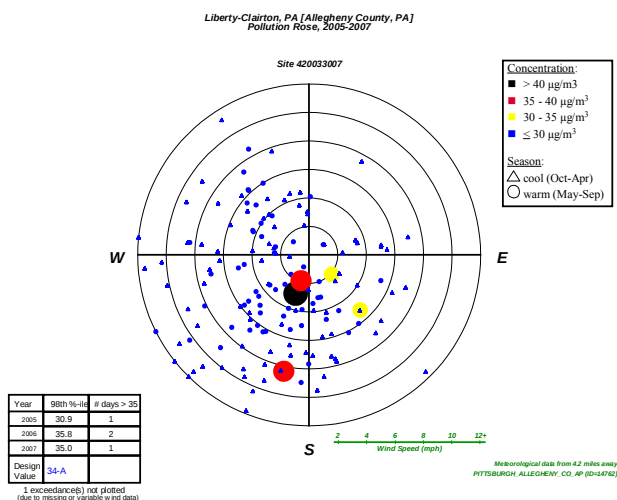


Figure 6.1. Liberty Borough Monitor and Clairton Coke Works, showing the northern and southern ends of the Clairton Coke Works (courtesy Google Earth – 2008)



At the Clairton monitor (# 4220033007), high PM_{2.5} days are primarily days with winds from southwest and west. (See Figure 6.2.)

Figure 6.2. Pollution Trajectory Plot for the Clairton Monitor
(Site 420033007)



The ACHD study referenced in Factor 2 (“PM_{2.5} Chemical Speciation and Related Comparisons at Lawrenceville and Liberty: 18-Month Results,” dated June 7, 2005) also considered meteorology. That study stated that the Liberty Borough monitor, located in the Mon Valley, was much more affected by inversions than the Lawrenceville monitor, located to the northwest of Liberty Borough in Pittsburgh. The ACHD study concluded that, “Liberty PM_{2.5} levels are highly influenced by nocturnal temperature inversions, when warmer upper-air layers trap pollutants close to surface level. Lawrenceville is moderately influenced by inversions near daybreak, but overall the levels remain steadier at Lawrenceville on a diurnal basis.”

Note: The meteorology factor is also considered in each county’s Contributing Emissions Score because the method for deriving this metric included an analysis of trajectories of air masses for high PM_{2.5} days.

Factor 7: Geography/topography (mountain ranges or other air basin boundaries)

The geography/topography analysis looks at physical features of the land that might have an effect on the air shed and, therefore, on the distribution of PM_{2.5} over the Liberty-Clairton area.

The Clairton Coke Works is at the base of the Mon Valley, approximately 750 feet above mean sea level (MSL). (See Figures 7 and 7.1, topographic maps of the area.) The facility sits on the west bank of the Monongahela River. On the east bank, the terrain rises sharply reaching elevations more than 300 feet above the coke works within a thousand feet of the plant. (See Figure 7.2, a three dimensional view to the north from the Clairton Coke Works.) The Liberty Borough monitor is about 1100 feet above MSL, to the northeast of the coke works. (See Figure 7.3, which is an aerial view of the Liberty-Clairton area.)

Figure 7. Clairton Coke Works Topographic Map (Source: USGS – TerraServer USA)

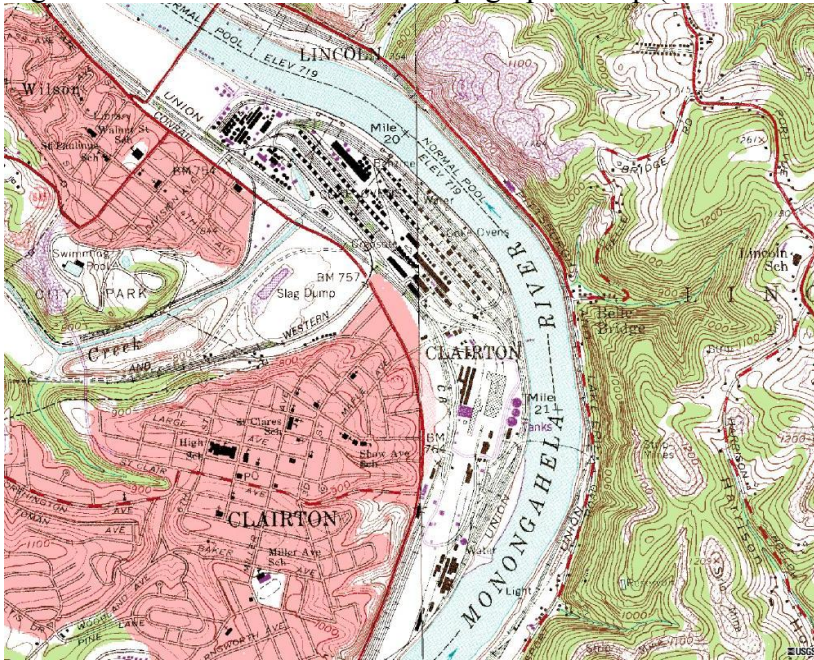


Figure 7.1 Liberty-Clairton Topographic Map (Source: USGS – TerraServer USA)

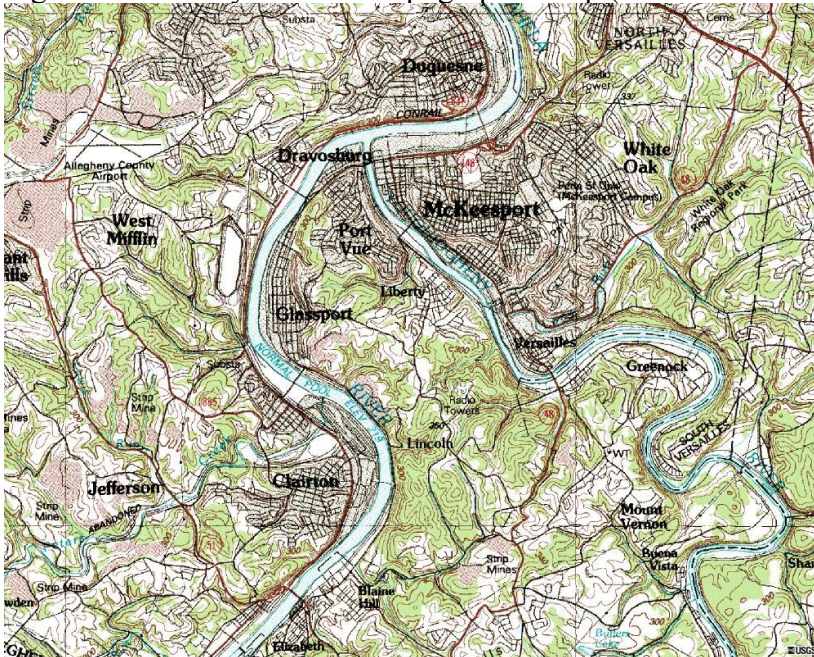


Figure 7.2. 3-D View from Clairton Coke Works to the North (Google Earth 2008)



Figure 7.3. Aerial View of the Liberty-Clairton Area (Google Earth 2008)



As stated in Pennsylvania's December 28, 2007 designation recommendation letter regarding the Pittsburgh area: "This region of Pennsylvania is dominated by relatively high terrain cut by numerous river valleys. While these features tend to trap local emissions . . ." This tendency to trap local emissions, combined with large local emissions, would explain why the monitored values at the Liberty Borough monitor are so much higher than at the other monitors in the Pittsburgh area.

Furthermore, in its October 20, 2008 letter to EPA regarding boundary recommendations for the 2006 PM_{2.5} NAAQS, the Pennsylvania Department of Environmental Protection (PADEP) stated that the Clairton Coke Works facility has stack heights that are lower than normal power plant stacks. This would mean that the effects of a source like the coke works would impact the ground at a much closer location locally than a power plant. PADEP's October 20, 2008 letter also explained that the highest fine particulate concentrations occur at the Liberty Borough monitor when there are south-southwesterly winds along with a morning inversion. A morning inversion occurs when the ground is cooler than the air above it; normally at night, the area is under the control of high pressure and clear skies. With the warmer air being above the cooler air, vertical mixing is at a minimum. Therefore, anything exhausted in the boundary layer with an inversion in place will remain trapped in that layer. For example, as the coke works' low level sources emit emissions, the plume of emissions will only rise to the top of the inversion layer. At that point, the pollution is spread out horizontally. These

inversions usually set up only a few hundred feet above the surface. Therefore, fine particulate levels can become very high near the surface. In this case, the plume impacts the hillside across the river as well; the plume is actually not traveling large distances. This is evident from the speciation data from two sites, Liberty and Lawrenceville. (For more information on speciation data, see Factor 2, above.)

Factor 8: Jurisdictional boundaries (e.g., existing PM_{2.5} areas)

In evaluating the jurisdictional boundary factor, EPA gave special consideration to areas that were already designated nonattainment in 2005 for violating the 1997 fine particle standards. Analysis of chemical composition data in these areas indicates that the same components that make up most of the PM_{2.5} mass in the area on an annual average basis (such as sulfate and direct PM_{2.5} carbon in many eastern areas) also are key contributors to the PM_{2.5} mass on days exceeding the 2006 24-hour PM_{2.5} standard. These data indicate that in many cities, the same source categories that contribute to violations of the annual standard also contribute to exceedances of the 2006 24-hour standard.

Most areas that were originally designated nonattainment for the PM_{2.5} standards still have not attained the standards. Thus, EPA has generally concluded that counties that were designated as having emissions sources contributing to fine particle concentrations which continue to exceed the 1997 standards (all areas violated the annual standard, three also violated the previous 24-hour standard) also contribute to fine particle concentrations on the highest days. For this reason, EPA believes that for most existing nonattainment areas, the nonattainment area for the 2006 24-hour standard should be the same. Consideration also should be given to existing boundaries and organizations as they may facilitate air quality planning and the implementation of control measures to attain the standard. Areas already designated as nonattainment represent important boundaries for state air quality planning.

There are no jurisdiction issues in the Liberty-Clairton area. The five municipalities in the current PM_{2.5} nonattainment area are all within Allegheny County, PA. The PM_{2.5} planning for the area is under the purview of the Allegheny County Health Department. The Pennsylvania Department of Environmental Protection does the planning for the Pittsburgh nonattainment area. However, these two agencies have a long history of cooperation. EPA believes that while the control measures put in place by PADEP for the Pittsburgh area may help the Liberty-Clairton area move closer to attainment, ACHD may be required to implement some local measures.

Factor 9: Level of control of emission sources

Under this factor, the existing level of control of emission sources is taken into consideration. The emissions data used by EPA in this technical analysis and provided in Table 1 (under Factor 1) represent emissions levels taking into account any control strategies implemented in the Liberty-Clairton area before 2005 on stationary, mobile, and area sources. Data are presented for PM_{2.5} components that are directly emitted (carbonaceous PM_{2.5} and crustal PM_{2.5}) and for pollutants which react in the atmosphere to form fine particles (e.g. SO₂, NO_x, VOC, and ammonia).

In considering county-level emissions, EPA used data from the 2005 National Emissions Inventory, the most updated version of the national inventory available at the beginning of the designations process in late 2007. However, EPA recognized that for certain counties, emissions may have changed since 2005. For example, certain power plants or large sources of emissions in or near this area may have installed emission controls or otherwise significantly reduced emissions since 2005. Some States provided updated information on emissions and emission controls in their comments to EPA. EPA considered such additional information in making final designation decisions.

With regard to nearby power plants, EPA considered information about whether a specific plant installed federally enforceable emission controls by December 2008 resulting in significant emissions reductions. A control requirement is considered to be federally-enforceable if it is required by a State regulation adopted in a State implementation plan, if it is included in a federally-enforceable Title V operating permit, or if it is required by a consent decree which also requires the controls to be included in a federally enforceable permit upon termination of the consent decree. In making final decisions, EPA also considered whether a facility would continue to emit pollutants which contribute to PM_{2.5} exceedances even after emission controls are operational.

As explained above in Factor 1, emissions in the Liberty-Clairton area are dominated by the U.S. Steel Clairton Cokes Works. In June 2007, U.S. Steel signed a consent agreement with the Allegheny County Health Department that requires the company to make repairs costing approximately \$76 million at its Clairton Coke Works. Under this agreement CD, U.S. Steel must reduce emissions at its Clairton Coke Works according to a strict schedule. U.S. Steel is required to replace the walls in the ovens by June 30, 2010. The company could also be fined by the hour for visible pollution emissions detected by a smoke monitor, and must pay a \$50,000 fine if that monitor is not working 90 percent of the time during each calendar quarter. However, EPA only considered controls in place and federally enforceable at the time of designation. Therefore, these planned future controls were not considered in this analysis. However, these future reductions will be relevant for the nonattainment area plan developed for this area.

Conclusion

The detailed technical analysis, including referenced data, set forth in Factors 1, 2, 6, 7 and 9, supports a finding that this area presents local air quality problems that differentiate this area from the surrounding area. Because of a very localized source of emissions and the unique topography which contains the emissions in this area, EPA has determined that it is appropriate to establish Liberty-Clairton as a separate nonattainment area within the larger Pittsburgh-Beaver Valley nonattainment area for the 2006 PM_{2.5} NAAQS.

The Clairton Coke Works is a large and complex facility that emits a combination of particulates, sulfur dioxide, ammonia, and hundreds of volatile organic chemicals. Although the coke plant has numerous existing emission controls, the combination of a large amount of low-level emissions in a narrow river valley creates a local air quality problem which is uniquely different from the remainder of the area.

To illustrate the exceptional situation in the Liberty-Clairton area, one need only look at data from the eight air quality monitors in Allegheny County. PM_{2.5} monitored values in seven of the eight monitors correlate well. Design values for 2005 - 2007 at seven monitors in Allegheny County are between 34 and 40 µg/m³. However, the 2005-2007 design value at the Liberty Borough monitor is 60.9 µg/m³. Concentrations of carbon at the Liberty Borough monitor far exceed those at other monitors in the Pittsburgh area. The additional carbon is, on average, approximately equal to the difference between the Liberty Borough design concentration and the concentration for the remainder of the surrounding Pittsburgh area. The carbon emissions from the Clairton Coke Works, trapped in the area because of its unique topographical situation, account for the excess carbon at the Liberty Borough monitor.

For the designations for the 1997 PM_{2.5} NAAQS, PADEP provided extensive documentation to support a recommendation that a separate nonattainment area be designated within the Pittsburgh-

Beaver Valley nonattainment area. The recommended Liberty-Clairton area was specified as the five municipalities in the vicinity of the Clairton Coke Works as the “Clairton & 4 Boroughs area.” This area is comprised of the City of Clairton and the Boroughs of Glassport, Liberty, Lincoln and Port View. PADEP resubmitted this material in its October 20, 2008 letter to EPA regarding boundary recommendations for the 2006 PM_{2.5} NAAQS. EPA has concluded that the same boundaries are appropriate for the 2006 PM_{2.5} NAAQS, based upon an evaluation of the data relevant to this area and exceedances of these standards as well.

Attachments

- “Point Source Emission Inventory Report, 2004,” dated 4/30/06, Allegheny County Health Department, Air Quality Program.
- “PM_{2.5} Chemical Speciation and Related Comparisons at Lawrenceville and Liberty: 18-Month Results,” dated June 7, 2005, prepared by Jason Maranche, Allegheny County Health Department.

Allegheny County Health Department

Air Quality Program

Point Source Emission Inventory Report 2004

Summary of Air Emission Estimates from Point Sources
Allegheny County, PA
Criteria Air Pollutants for 1996-2004 and
Hazardous Air Pollutants (HAPs) for 1998-2004



Prepared
By
Marie Kelly

4/30/06

Allegheny County Health Department
Air Quality Program
Emission Inventory Section

Summary of Air Emission Estimations from Point Sources
in Allegheny County
Years 1996-2004 for Criteria Air Pollutants
and 1998-2004 for Hazardous Air Pollutants

Executive Summary

Although point source air emissions in Allegheny County have declined significantly since 1996 only relatively small decreases were observed between 2003 and 2004.

Since 1996 emissions of carbon monoxide have declined nearly 20%, nitrogen oxides 42%, PM₁₀ 40% and volatile organic compounds 46%. Sulfur dioxide (SO₂) emissions have only declined 1%. In any year well over eighty percent of sulfur dioxide emissions from Allegheny County's point sources are generated by the Reliant Cheswick Power Station located on the Allegheny River in Springdale, PA. SO₂ emissions vary with the demand for electrical power from this plant. In 2004 demand was down and the facility emitted 10% less sulfur dioxide than in 2003.

Between 1998 and 2001 emissions from the US EPA list of 188 Hazardous Air Pollutants (HAPs) increased 23%. In 2002 they decreased 16% and then increased again in 2003 by 12 %. In 2004 overall HAP emissions declined by 3%.

Total point source HAP emissions have failed to exhibit any discernable trend between 1998 and 2004 in Allegheny County. Cheswick Power Station, a coal burning electrical generating unit, emitted 82% of the total hydrochloric acid and 88% of the total hydrofluoric acid emitted by point sources in 2004. These two acid gasses have and continue to account for an average of 62% of all HAP emissions reported by point sources.

Emissions of the five criteria pollutants from point sources in the County have trended down since 1996. Emissions from the Cheswick Station mask the overall degree of reduction attributable to the other point sources included in the annual survey.

Examination of emission trends of both HAPS and criteria pollutants after excluding Cheswick's contribution show overall declines in both categories. Emissions of HAPS have declined 25% since 1998. Emissions of nitrogen oxides; PM₁₀, sulfur dioxide and volatile organic compounds have fallen by 50%, 42%, 45% and 46% respectively. Unfortunately carbon monoxide emissions have only fallen by 14% in this period. These changes are largely attributable to closure or reduction in operations of industrial facilities in the County.

Emissions of both HAPS and criteria pollutants from the Cheswick Power Station are proportional to fuel use. So the total amount of industrial air pollution in the County will be highly dependent on the output from this one facility. However Cheswick has acted to reduce the amount of pollution generated by its operation. In 2003 nitrogen oxide emissions were reduced by the installation of a Selective Catalytic Reduction (SCR) device.

Introduction

The annual Air Quality Program's Point Source Emission Inventory Report for 2004 details and analyzes emission estimates from facilities with potential emissions in the categories listed below:

- 25 TPY or more of any criteria pollutant
- 10 TPY or more of any single Hazardous Air Pollutant (HAP)
- 25 TPY or more of any mixture of HAPs

In 1997 reporting of annual emission inventories was converted from a paper system to an electronic system. In 2004, 81% of submittals were made to the Allegheny County Health Department Website. Nineteen percent of submittals were made by e-mail.

In 1998 the availability of emission factors for HAPS increased making possible better estimates of emissions for these compounds.

This report provides graphs and tables comparing air emissions for 2004 to those from previous years. It contains six sections with three attachments.

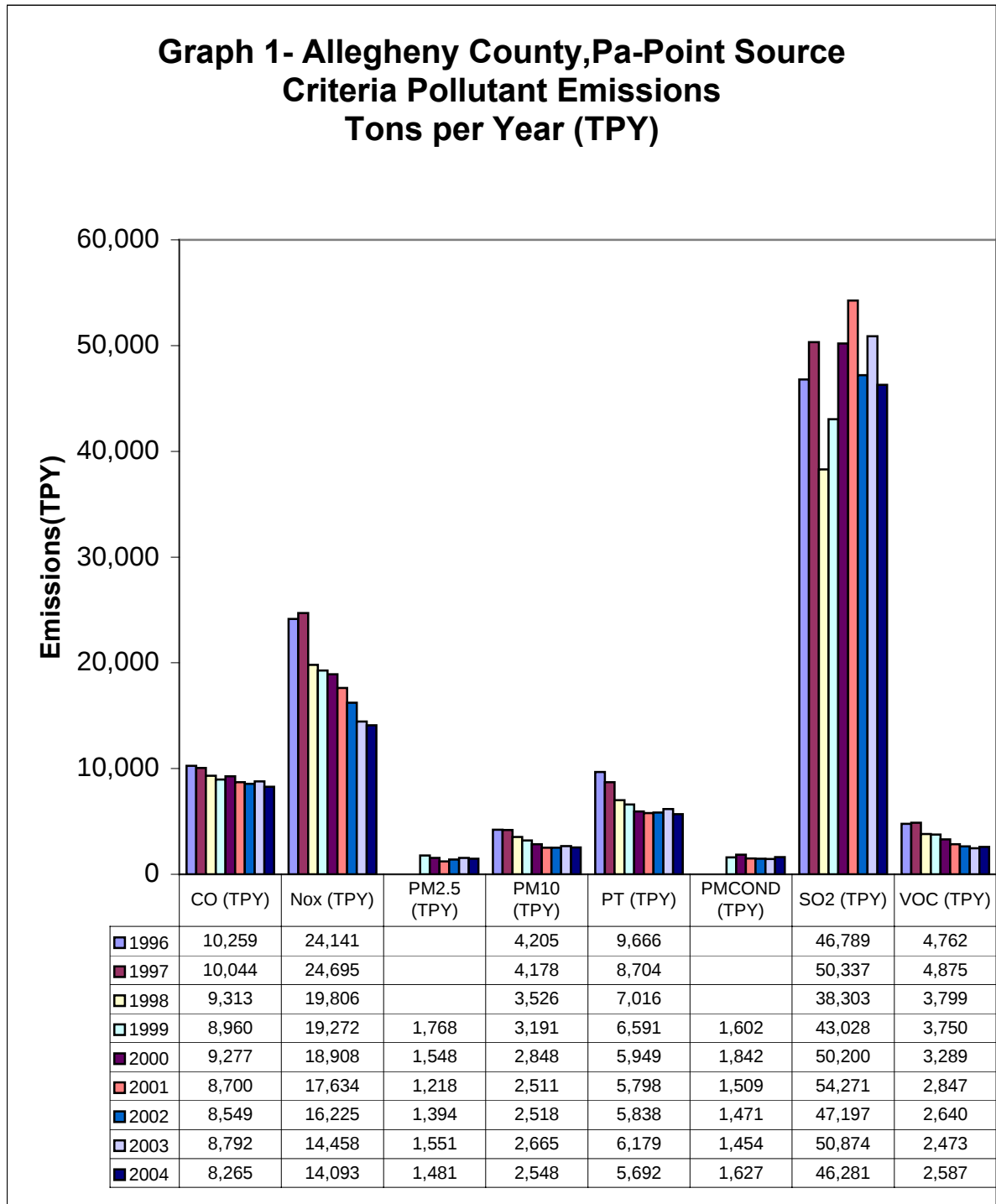
- Section I – Point source Criteria Emission Trends
- Section II – Point Source Criteria emissions by Industry Sector
- Section III- Sources and Form of Particulate Emissions- PM₁₀, PM_{2.5}, filterable and condensable.
- Section IV – Point source HAP Emissions
- Section V – Point Source HAP Emission Trends
- Section VI – Impact of the Reliant Cheswick Power Station on Total County Point Source Emissions

Cheswick Power Station's emissions merit a separate section because their total emissions are far greater than those of any other facility in the County.

- Attachment A – Criteria Pollutant Emissions for Individual Facilities
- Attachment B – List of HAP Emissions by Compound.
- Attachment C- HAP Emissions of Individual Facilities

Section I Criteria Pollutant Emissions

Graph 1 summarizes total emissions of criteria air pollutants and total particulates as defined by the Clean Air Act from point sources in Allegheny County.



The pollutants shown include:

- CO – carbon monoxide
- NO_x – emissions of oxides of nitrogen reported as nitrogen dioxide
- PM_{2.5} – filterable particulate with an aerodynamic diameter less than 2.5 microns
- PM₁₀ - filterable particulate with an aerodynamic diameter less than 10 microns
- PT- total filterable particulate
- PMCOND- condensable particulate matter defined as material in the vapor state at temperatures above 68° F. and a solid at lower temperatures.
- SO₂- sulfur dioxide
- VOCs – Volatile Organic Compounds.

More detailed definitions are provided in the notes located at the end of the report.

Emissions of all criteria pollutants from the point sources in Allegheny County declined in 2004 with the exception of condensable particulate. It increased by 1.6%.

**Table 1 - Estimated Point Source Criteria Air Emission Change in Allegheny County, PA
Tons per Year Emitted or % of 1996 Baseline Year**

1996 Base Year (Tons/Yr)	Pollutant							
	CO	NOx	PM2.5	PM10	PT	PMCOND	SO2	VOC
	10,259	24,141		4,205	9,666		46,789	4,762
1997	-2.1%	2.3%		-0.7%	-9.9%		7.6%	2.4%
1998	-9.2%	-18.0%		-16.2%	-27.4%		-18.1%	-20.2%
1999	-12.7%	-20.2%	1,768	-24.1%	-31.8%	1,602	-8.0%	-21.3%
2000	-9.6%	-21.7%	-12.5%	-32.3%	-38.5%	15.0%	7.3%	-30.9%
2001	-15.2%	-27.0%	-31.1%	-40.3%	-40.0%	-5.8%	16.0%	-40.2%
2002	-16.7%	-32.8%	-21.2%	-40.1%	-39.6%	-8.2%	0.9%	-44.6%
2003	-14.3%	-40.1%	-12.2%	-36.6%	-36.1%	-9.2%	8.7%	-48.1%
2004	-19.4%	-41.6%	-16.2%	-39.4%	-41.1%	1.6%	-1.1%	-45.7%

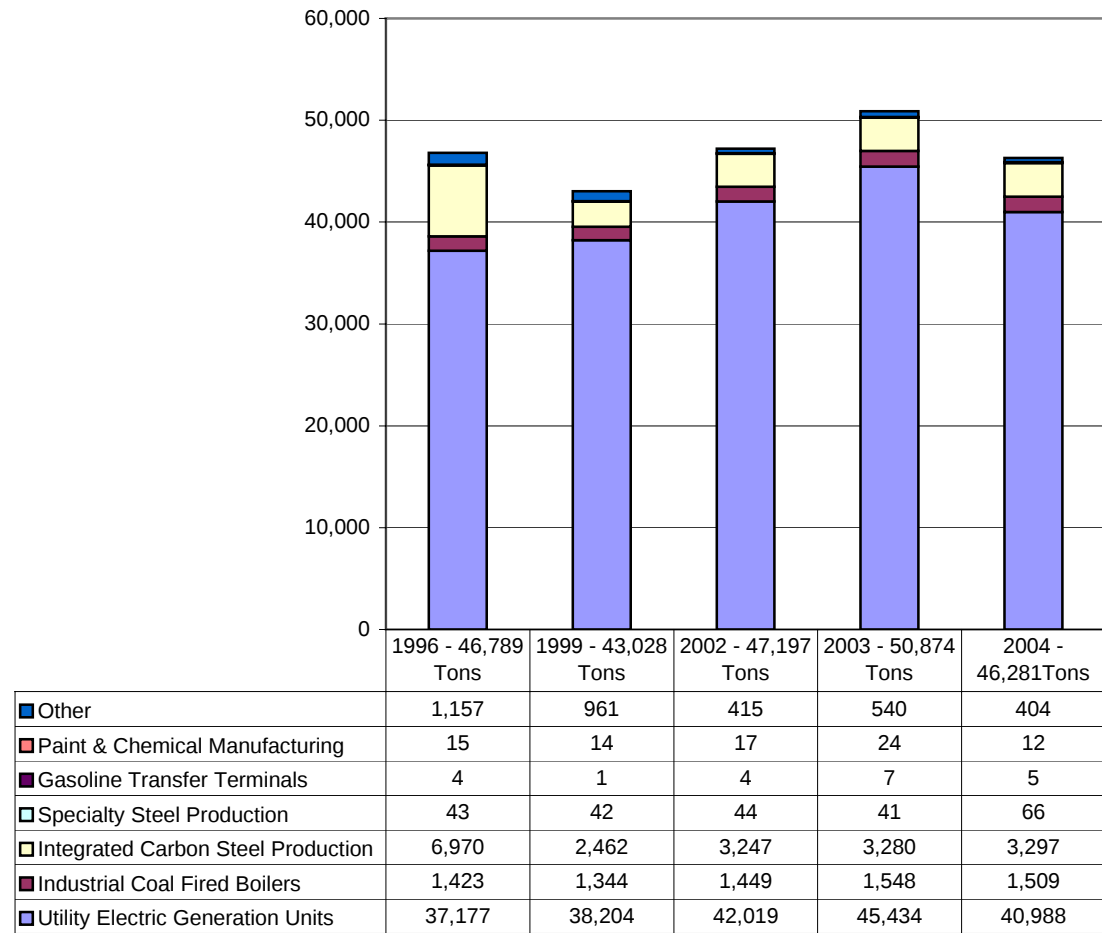
Trends in emissions of criteria pollutants in the County are discussed by industry sector in Section II. Section VI addresses contributions from the Cheswick Power Station to total County point source emissions.

Section II Criteria Point Source Air Emissions by Industrial Sector

Graphs 2a-2e detail emissions of each criteria pollutant from individual point source industrial sectors in the County. The six industrial sectors identified account for approximately 94% of all criteria point source air emissions. Facilities are sorted into sectors based on the size of their contribution to total air emissions. With the exception of sulfur dioxide, emissions of criteria pollutants have continued to decline overall. In 2004 a small increase in the condensable particulate was observed. Contributions from individual sectors show declines from the 1996 base despite some increases attributable to variable business conditions.

Sulfur Dioxide

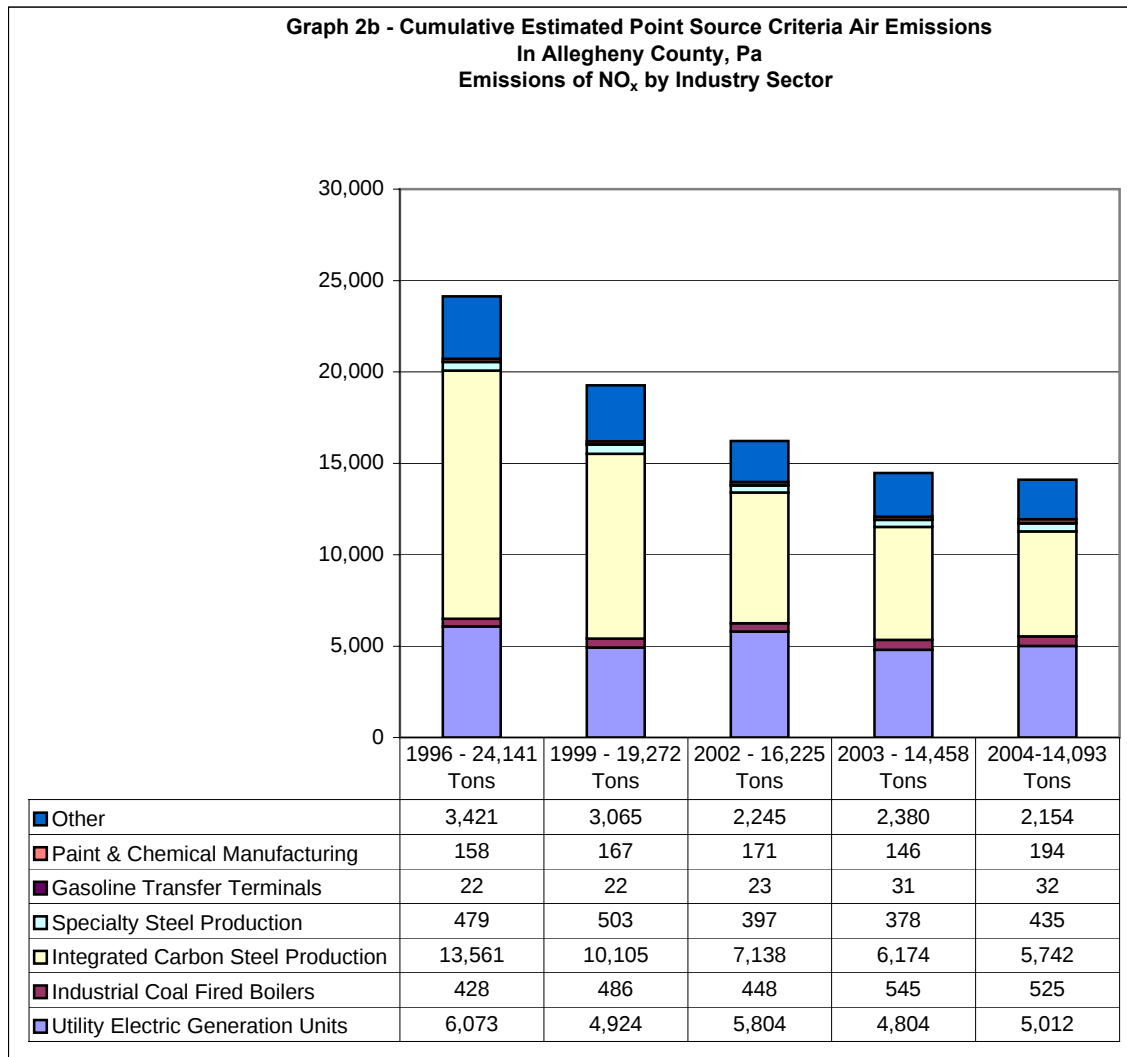
**Graph 2a - Cumulative Estimated Point Source Criteria Air Emissions in Allegheny County, Pa
Emissions of SO₂ by Industry Sector**



Sulfur dioxide emissions do not show a clear trend over the period examined. Approximately 90% of all sulfur dioxide emissions in the County in 2004 are from the Cheswick Power Station. Therefore, emissions of this compound from this source are addressed in Section VI. Emissions from this source overwhelm SO₂ emissions from other point sources in the County and determine the overall direction of SO₂ emissions.

Fifty percent of the decrease in sulfur dioxide emissions from integrated carbon steel production since 1998 is attributable to the closing of the Hazelwood LTV Coke Works.

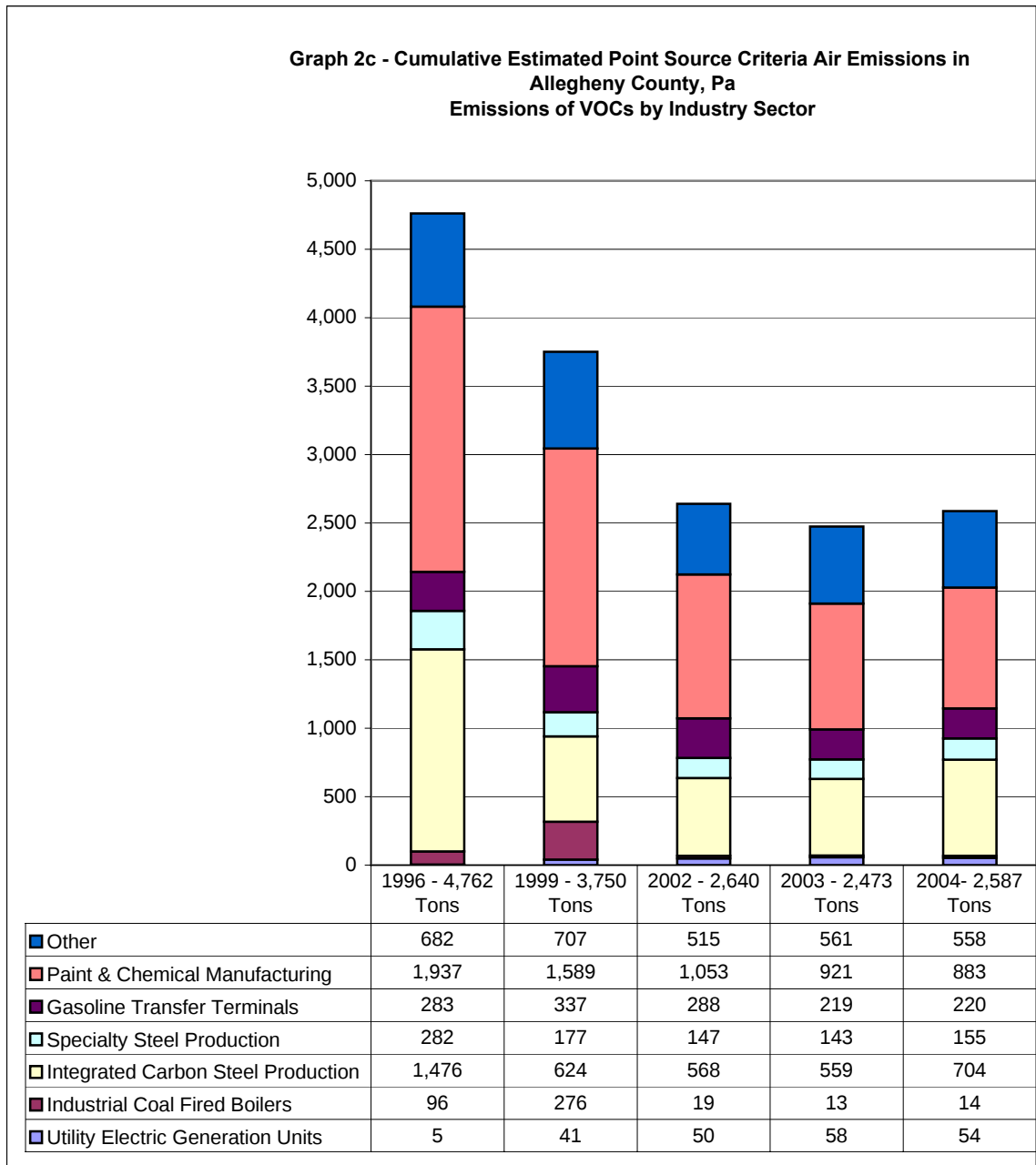
Nitrogen Dioxide



Prior to 2004 significant decreases in emissions of nitrogen oxides were observed. However, the rate of decrease in the emissions of this pollutant in the last two years has leveled off. Between 2002 and 2003 emissions of nitrogen oxides decreased 11%. Between 2003 and 2004 the decrease of emissions of this pollutant was only 3%. The small decrease in nitrogen dioxide emissions in 2004 is due to small decreases in the integrated carbon steel production sector partially offset by a small increase in the utility category.

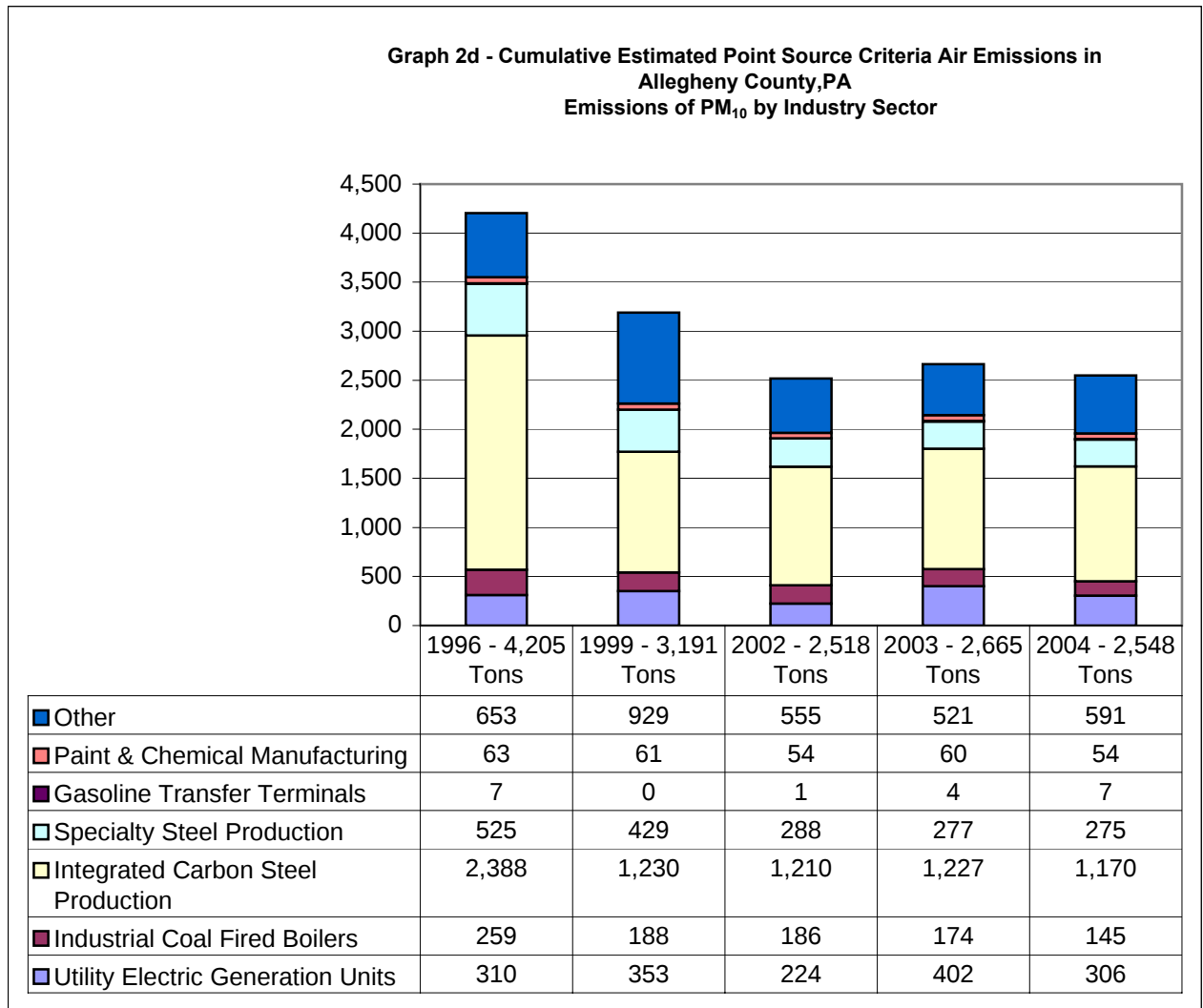
Unlike the period from 1996 to 2002, no large source of nitrogen oxide emissions has shut down recently. The large decreases in emissions of nitrogen oxides between 1996 and 2003 were largely attributable to the shutdown of the LTV Coke Works in 1998 and the Kosmos Cement kiln in 2001 and the installation of selective catalytic reduction control equipment at the Cheswick Power Station in 2003.

a) Volatile Organic Compounds (VOCs)



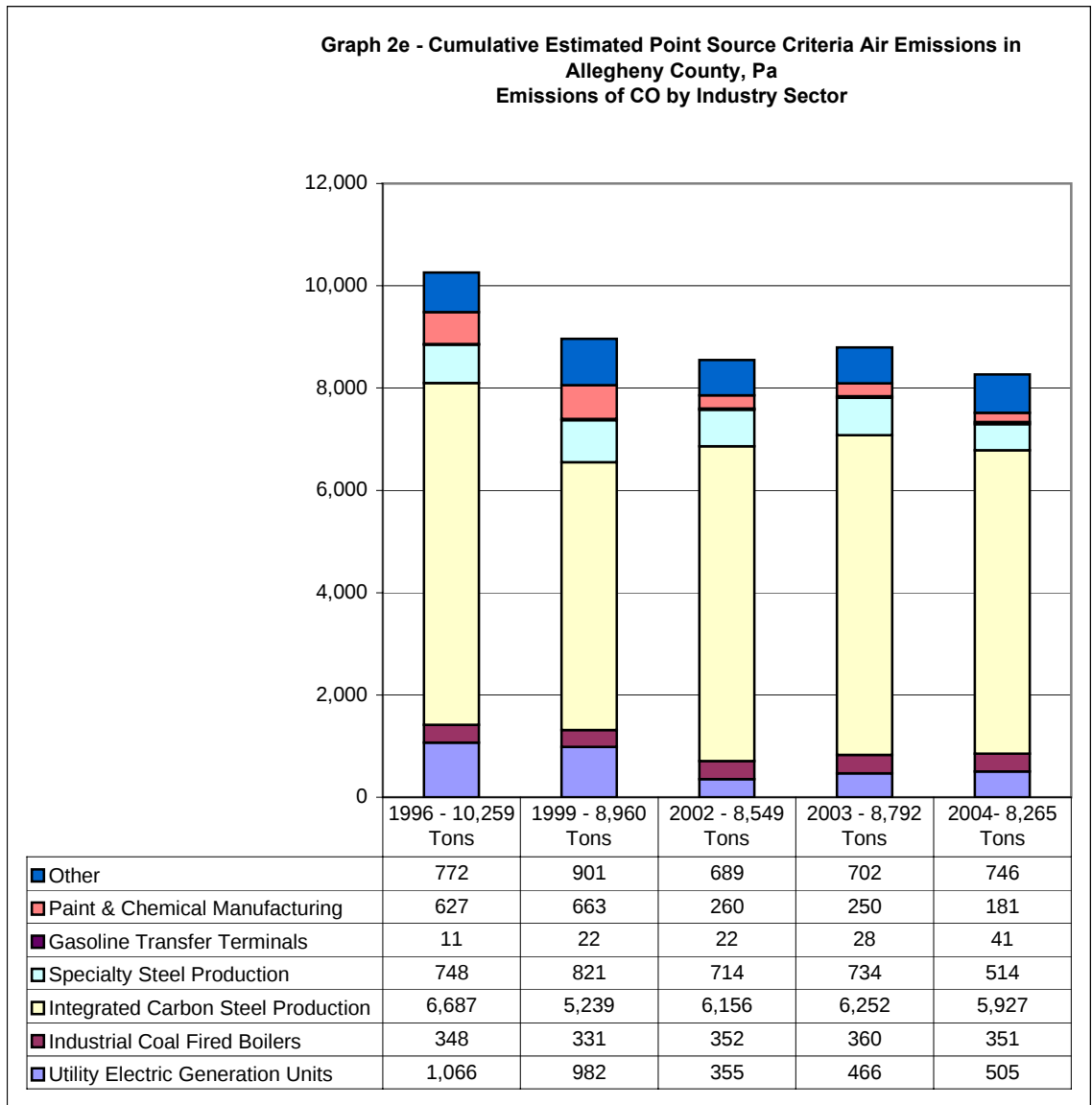
VOC emissions in 2004 increased 4.6% over 2003. Roughly three-quarters of this increase came from the integrated carbon steel sector. Otherwise as Graph 2c illustrates emissions of this pollutant have fluctuated within a narrow range since 2002.

b) PM₁₀



In 2004 PM₁₀ emissions declined 4.4% from 2003 despite an increase of 13.4% reported by sources included in the other industrial category on Graph 2d. This was offset by a 24 % decline in emissions from the utility sector.

c) Carbon Monoxide



Emissions of carbon monoxide continued to decline in 2004 decreasing 6% from the level reported in 2003. All industrial sectors exhibited a decline in emissions of this pollutant except for the sources included in the other industrial category where there was an increase of 6%.

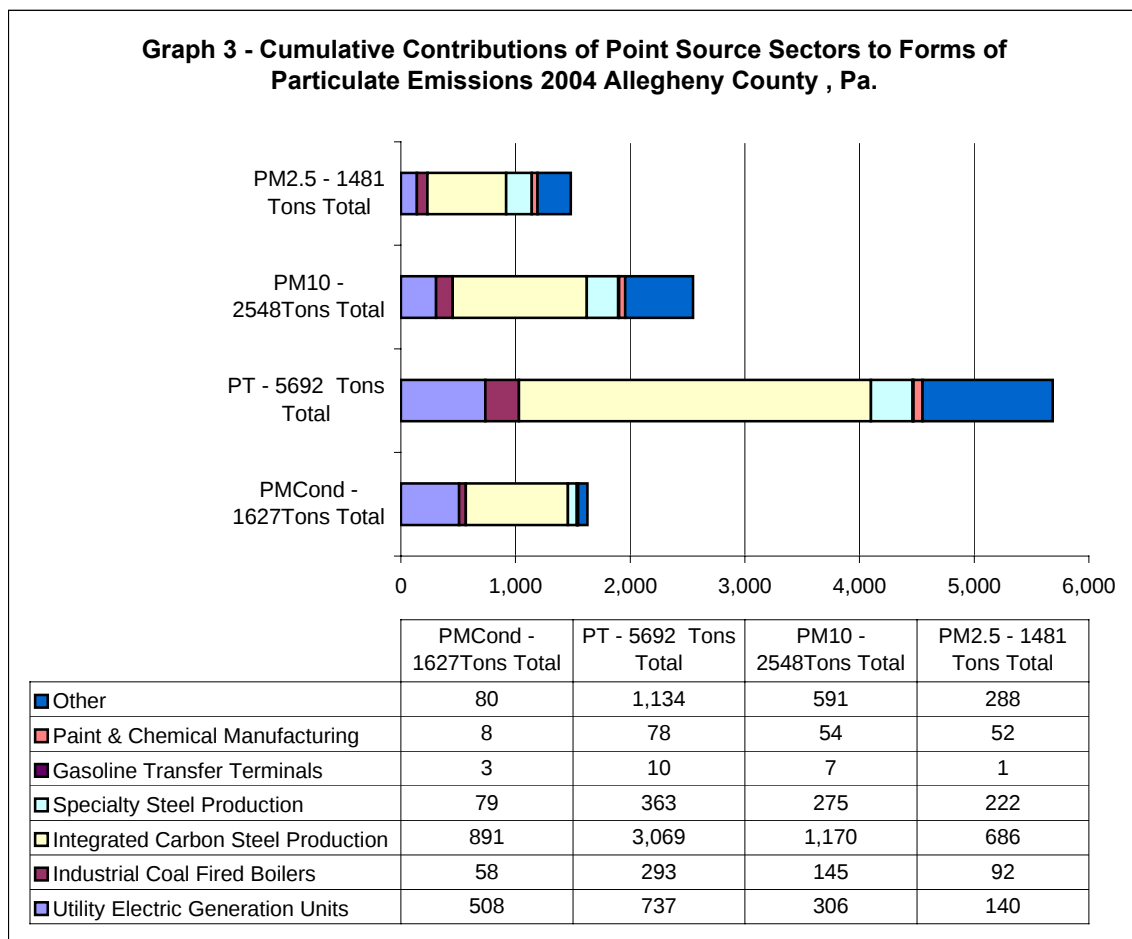
Section III Particulate Emissions and Their Sources

In the Allegheny County Emission Inventory, four forms of particulate matter are reported. These are total particulate (PT), condensable particulate (PMCond), PM₁₀ and PM_{2.5}. The last two are fractions of total particulate. Below are the definitions of each of these forms

- PT- total filterable particulate is the material captured from flue gas on a filter heated to 248°F.
- PM₁₀ - fraction of filterable particulate with an aerodynamic diameter less than 10 microns
- PM_{2.5} – fraction of filterable particulate with aerodynamic diameter less than 2.5 microns.
- PMCond- material collected from the filtered flue gas after it has passed through the 248°F filter as a gas and been condensed from the sample stream and dried.

PM2.5, PM10 and PT are not independent of each other. PM2.5 is a fraction of both PM10 and PT. PM10 is a fraction of PT. Condensable particulate is not part of filterable particulate and its fractions in flue gas. It is a gas that condenses in ambient air to fine particulates.

Graph 3 is an illustration of the amount of each form of particulate matter released by each industrial sector through 2004



Section IV Hazardous Air Pollutants (HAPS)

Facilities are required to report emissions of any of the 188 HAPs listed in ACHD Article XXI, Section 2101.20.a. Article XXI is consistent with EPA Section 112(b) of the Clean Air Act.

Both hydrogen sulfide and ammonia are reported in this category. Hydrogen sulfide is a contaminant listed in Article XXI. Ammonia must be reported because it is a particulate precursor in air. Some HAPs are speciated when reported. Speciation is applied to exceptionally toxic HAPS such as hexavalent chromium.

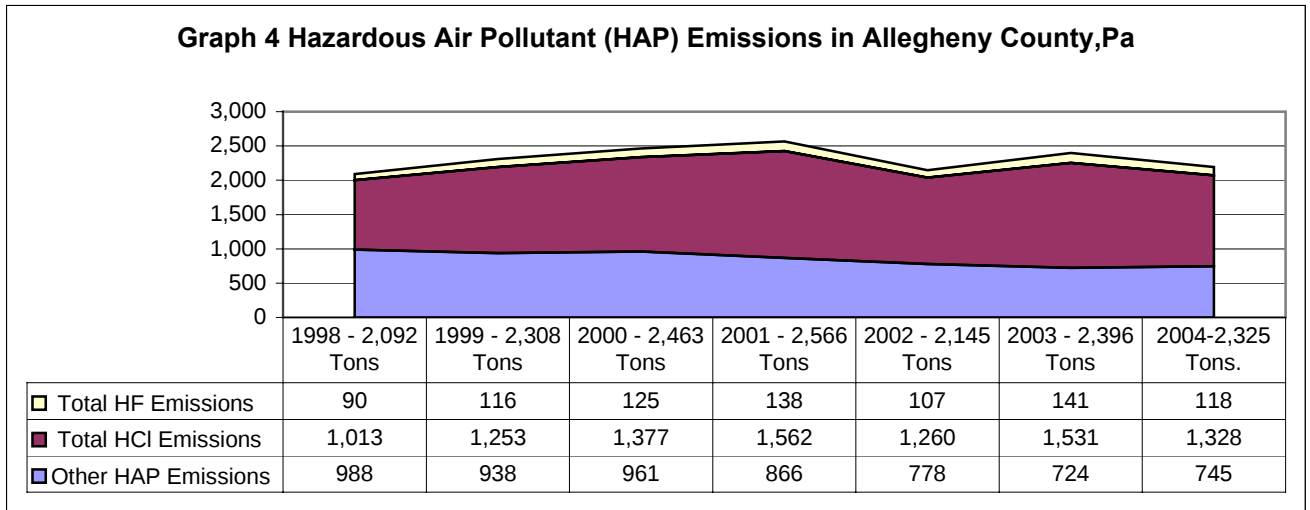
HAP reporting requirements became more stringent with the 1999 Emission Inventory. Speciation for some compounds was introduced. So HAP emission estimates prior to 1999 are not comparable to those of previous years.

Attachment B lists point source HAP emissions in Allegheny County by total amount of individual compound. Adjustments to emissions of hydrochloric acid (HCl) and hydrofluoric acid (HF) are explained following the table.

The impact of exposure to individual HAP compounds varies greatly with both the concentration and the chemical properties of the compound. Exposure concentrations required to observe negative health impacts can differ by several orders of magnitude among different compounds. Synergistic effects of exposure to combinations of HAPs at differing concentrations have not been thoroughly studied.

Section V. HAP Emission Trends

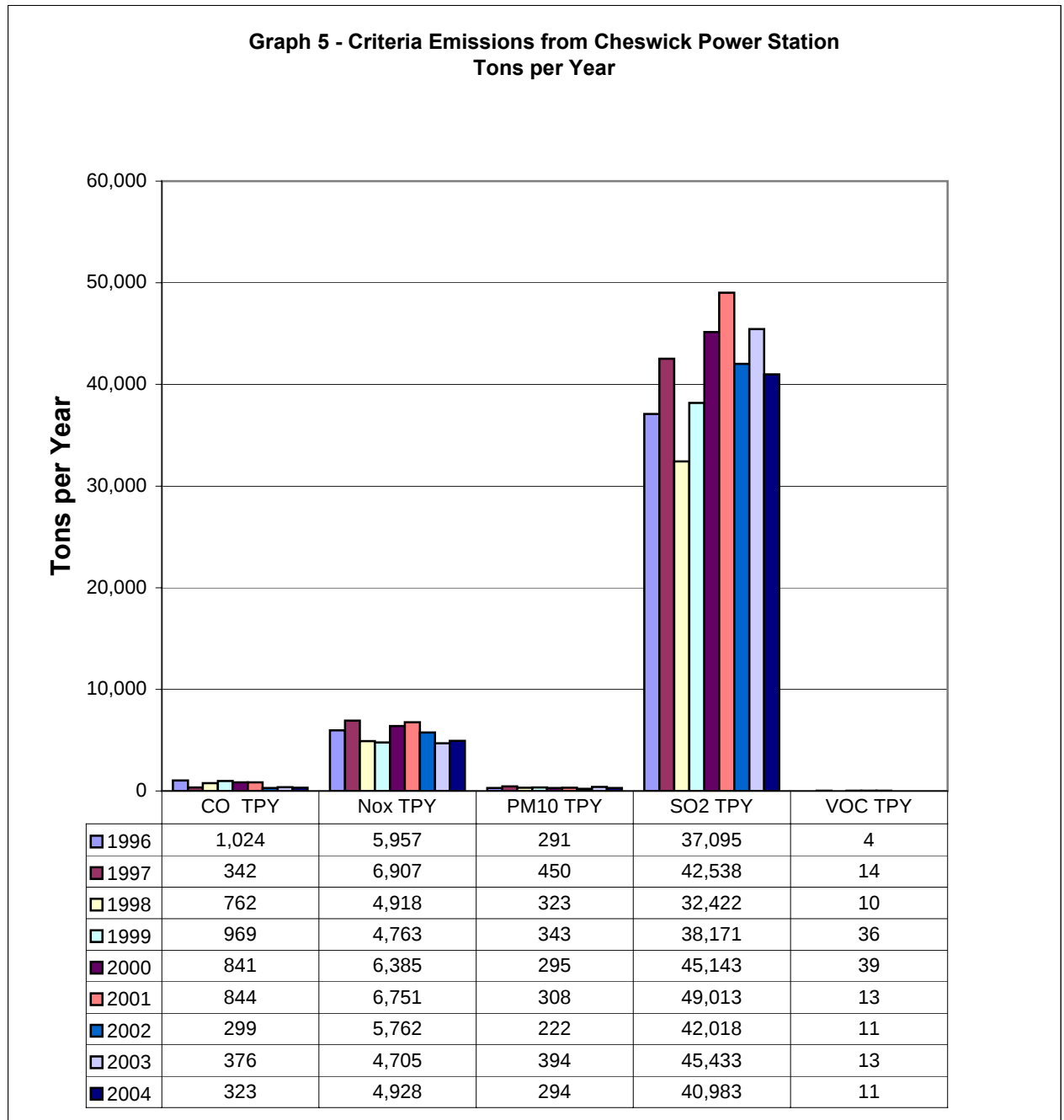
Graph 4 illustrates HAP emissions trends in Allegheny County.



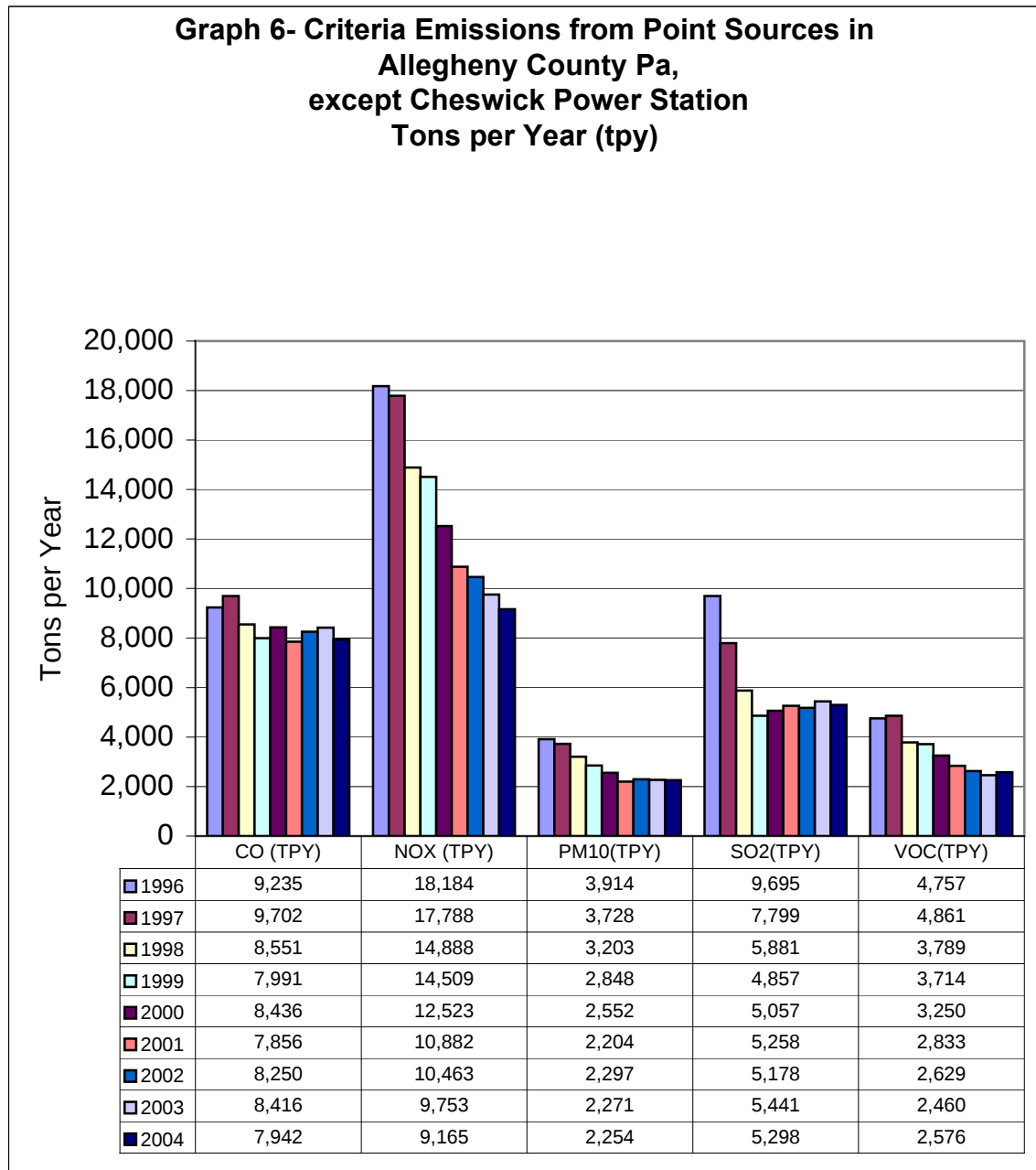
HF and HCl constitute 62% of total HAP emissions from County sources for the period 1998-2004. In 2003 and 2004 emissions of these two compounds from the Cheswick Power Station accounted for 40 % of total HAP emissions reported by point sources. The three largest sources of HCl and HF emissions are the Cheswick Power Station, the USS Clairton Works and the USS Irvin Plant. Emissions of HCl from Cheswick in any given year are between 30 to 40 times the amount emitted from the USS Clairton Works, the second largest emitter of this compound. In 2004 Cheswick accounted for 82% of total HCl emissions. Emissions of HF From Cheswick are approximately 85% of total emissions of this compound from point sources in the County. Emissions of HF and HCl rise and fall depending on the demand for electricity from the Cheswick Power Station and are therefore roughly proportional to the amount of coal burned. However, when emissions of these two HAPs are excluded from the total, Graph 4 shows emissions of HAP compounds from other sources have steadily declined-- falling 25% since 1998.

Section VI. Comparison Emissions of the Cheswick Power Station to Total County Point Source Emissions.

The Cheswick Power Station is the single largest point source emitter of both criteria pollutants and HAPs in Allegheny County. Graph 5 shows its contributions to total CO, PM₁₀, and VOCs is relatively small. But in 2004 it accounted for 35% of nitrogen oxide point source emissions and 89% of those of sulfur dioxide.

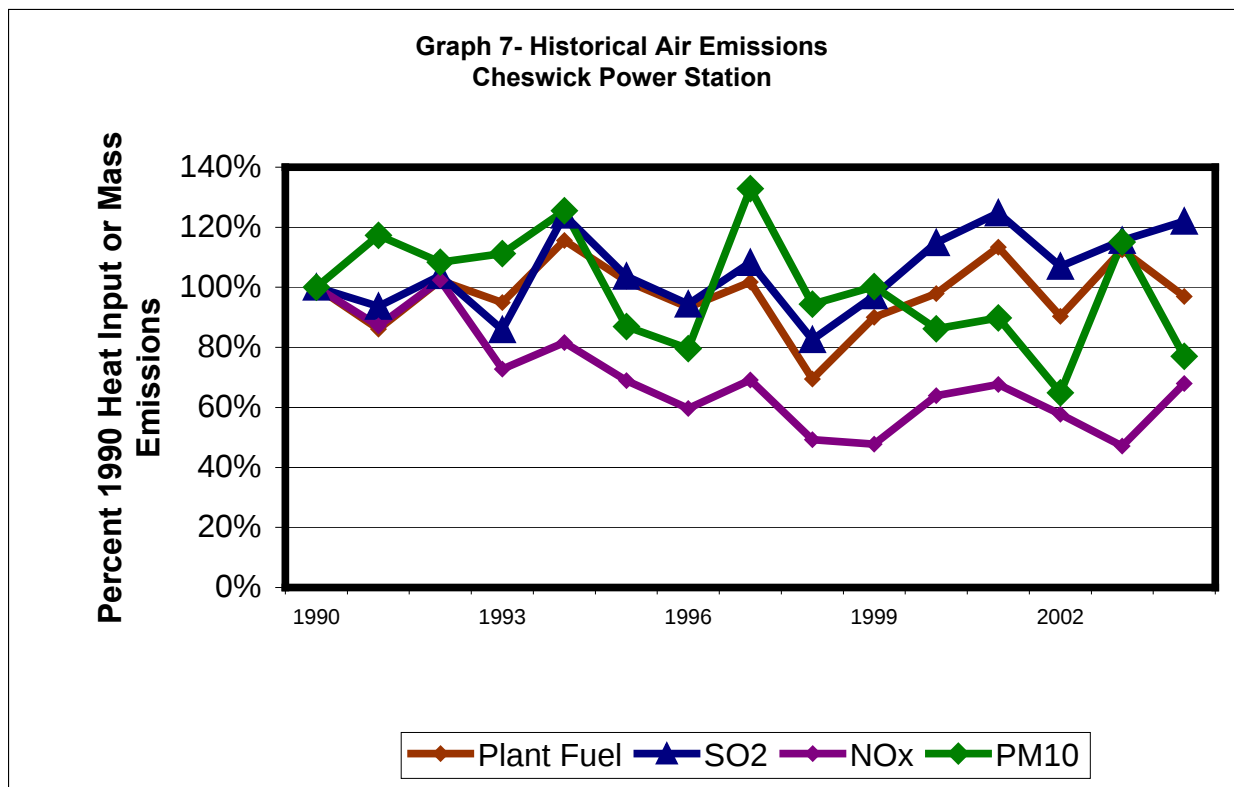


By comparison Graph 6 shows criteria emissions from all the other sources in the County.



Operations at Cheswick fluctuate with the demand for electricity, which is dependent on many economic factors. Demand for power from this plant disproportionately determines the total level of pollution in the County. The size of its contribution to total pollution masks emission trends from other point sources which overall are declining or fairly constant. See Graph 6.

Graph 7 examines trends of emissions of criteria pollutants from the Cheswick Power Station as a function of production since 1990. Since the sulfur content of the coal burned was relatively constant, sulfur dioxide emissions per unit of energy consumed were fairly stable.



The installation of particulate and nitrogen oxide control equipment has contributed to the overall decline of emissions of these two pollutants since 1990. However, the installation of a Selective Catalytic Reduction System (SCR) in 2003 while reducing NO_x emissions increased particulate emissions. In 2004 NO_x emissions increased slightly while particulate emissions again declined. This suggests the SCR was not as available in 2004 as it was in 2003.

Notes to the report:

1. Estimation of PM_{2.5} and condensable particulate (PMCOND) emissions started with the 1999 inventory year.
2. Hydrogen sulfide is considered a pollutant in Allegheny County. Ammonia is a particulate precursor. Both are listed in the HAP tables. They are not among the 188 compounds designated HAPs by USEPA. Speciated compounds of very toxic HAPs such as hexavalent chromium and dioxin isomers are not specifically listed in ACHD Article XXI as HAPS, but are reported at de-minimus emission levels in the inventory.
3. Lead emissions are included in the HAPs tables.
4. Definitions of Emissions
 - 4.1. Filterable Particulate – Material emitted as liquid or solid at 248°F
 - 4.2. Condensable Particulate (PMCOND) – Material that is not filterable at 248°F and condenses when passed through water in an ice bath.
 - 4.3. Total Particulate (PT) – Filterable Particulate
 - 4.4. PM₁₀ - Filterable particulate with aerodynamic diameter less than 10 microns.
 - 4.5. PM_{2.5} - Filterable particulate with aerodynamic diameter less than 2.5 microns
 - 4.6. Volatile Organic Compounds (VOCs) – Organic material that is photo reactive and a gas at 250°F. Contributes to the formation of ozone.
5. The sheet "HAPs" lists yearly emissions of HAPs for each source from 1998 - 2004. HAP emissions were estimated prior to this, but results are believed to be less accurate.
6. The DLM facility, formerly Heinz, is in the category Industrial Coal Fired Boiler.
7. Emission estimates for each facility are calculated each year. Estimates of previous years are not normally updated if emission factors or estimation techniques change for processes.

Attachment A
Individual Facility Criteria Pollutant Emissions

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Facility Name	Description Line	ZIP	Year of Inventory	Facility Criteria Emissions							VOC	Standard Industrial Code	SIC Description
				CO	NOx	PM2.5	PM10	PT	PMCond	SO2			
A. STUCKI COMPANY	REBLDG OF RR SHOCK ABSC 15225		1999								1.43	3568	Power Transmission Equipment
ACN-PITTSBURGH, LLC	BAKERSTOWN CONTAINER C 15007		1996	0.43	2.10		2.97	4.74		0.01	43.26	3412	Metal Barrels, Drums & Pails
			1997	1.20	1.70		3.28	7.70		0.28	41.34		
			1998	1.40	1.96		4.72	8.54		0.31	54.06		
			1999	1.27	1.78	3.93	5.53	9.43	0.09	0.01	52.87		
			2000	1.35	2.29	4.96	4.99	8.52	0.08	0.05	47.34		
			2001	1.22	1.97	3.33	4.90	8.46	0.08	0.03	36.28		
			2002	1.28	2.17	2.51	5.55	9.92	0.08	0.12	49.31		
			2003	1.49	2.59	3.45	7.42	14.16	0.09	0.13	72.28		
			2004	1.76	3.07	3.69	6.52	12.86	0.11	0.17	81.04		
AFFIVAL, INC.	PRODUCES CORED WIRE PR 15139		1998	0.00	0.00		0.19	0.38		0.00	0.00	3496	Misc. Fabricated Wire Products
ALLDERDICE SCHOOL	ALLDERDICE SCHOOL	15217	1998	0.67	0.80		0.02	0.02		0.00	0.04	8211	Elementary And Secondary Schools
			1999	0.96	1.14	0.02	0.02	0.02	0.06	0.01	0.06		
			2000	0.97	1.15	0.02	0.02	0.02	0.07	0.01	0.06		
			2001	0.78	0.93	0.02	0.02	0.02	0.05	0.01	0.05		
			2002	0.80	0.95	0.02	0.02	0.02	0.05	0.01	0.05		
			2003	0.85	1.02	0.02	0.02	0.02	0.06	0.01	0.06		
			2004	1.17	1.39	0.03	0.03	0.03	0.08	0.01	0.08		
ALLEGHENY AGGREGATES, INC. GRADED AGGREGATE FORMERLY HEIGHTS PLAZA MATERIALS, INC		15065	1998	2.38	6.92		10.15	33.94		0.66	1.21	1442	Construction Sand And Gravel
			1999	1.31	6.05	1.62	6.33	25.57	0.42	0.40	0.49		
			2000	1.87	8.63	1.80	6.42	25.30	0.61	0.57	0.71		
			2001	1.89	8.73	1.29	4.50	14.54	0.61	0.57	0.71		
			2002	1.90	8.80	1.29	4.48	20.21	0.62	0.58	0.72		
			2003	1.68	7.78	1.21	4.37	19.98	0.55	0.51	0.64		
			2004	2.17	10.01	1.99	8.12	23.26	0.70	0.66	0.82		

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Facility Name	Description Line	ZIP	Year of Inventory	Facility Criteria Emissions								Standard Industrial Code	SIC Description
				CO	NOx	PM2.5	PM10	PT	PMCond	SO2	VOC		
ALLEGHENY . ASPHALT MFG. INC	BITUMINOUS MFG PLANT	15219	1998	5.04	2.70		0.74	1.62		0.30	4.62	2951	Paving Mixtures And Blocks
			1999	6.92	7.02	0.64	5.64	15.47	4.91	0.61	5.92		
			2000	7.55	6.12	1.13	11.25	24.57	5.66	0.57	6.68		
			2001	19.71	6.80	7.82	14.04	35.22	0.00	0.66	4.91		
			2002	20.41	7.75	12.83	15.31	50.87	1.67	0.73	1.23		
			2003	24.91	9.76	15.60	18.61	57.59	0.94	0.90	1.51		
			2004	30.41	11.78	18.44	21.68	69.12	1.15	1.09	1.83		
ALLEGHENY COUNTY AIRPORT AUTHORITY	COMBINATION UTILITY	15231	1998	8.05	14.06		0.18	0.18		0.06	0.53	4581	Airports,Flying Fields
			1999	6.71	7.98	0.15	0.15	0.15	6.71	0.05	0.44		
			2000	7.51	8.94	0.17	0.17	0.68	0.51	0.05	0.49		
			2001	13.03	15.51	0.29	0.29	0.29	0.88	0.09	8.23		
			2002	7.52	9.15	0.17	0.18	0.18	0.51	0.05	15.31		
			2003	8.41	10.33	0.19	0.20	0.20	0.57	0.06	19.49		
			2004	8.59	10.62	0.21	0.21	0.21	0.58	0.06	18.53		
ALLEGHENY COUNTY SANITARY AUTHORITY	ALLEGHENY COUNTY SANIT/ 15233	15233	1996	1.18	16.03		2.60	2.60		27.60	21.13	4952	Sewerage Systems
			1997	19.33	11.60		3.37	6.53		17.39	17.51		
			1998	12.68	14.46		2.37	2.47		25.34	24.03		
			1999	12.21	7.11	1.33	1.73	5.88	1.20	21.52	25.72		
			2000	17.68	5.66	0.81	1.24	5.00	0.95	15.97	21.33		
			2001	20.49	6.00	0.81	1.25	5.28	1.10	19.08	16.61		
			2002	22.31	7.00	0.83	1.26	5.42	1.21	20.30	16.67		
			2003	21.02	6.94	0.83	1.27	5.29	1.14	18.90	16.66		
			2004	0.74	4.26	0.79	1.21	4.65	0.73	12.35	16.16		
ALLEGHENY ENERGYS SPRINGDALE CGT	GAS/OIL COMBUST. TURBINE 15144	15144	2000	12.78	12.36	0.16	0.33	0.33	0.82	0.59	0.37	4911	Electric Services
			2001	14.12	13.64	0.36	0.36	0.36	0.90	0.65	0.39		
			2002	24.25	23.30	0.63	0.63	0.63		0.01	0.69		
			2003	57.21	61.01	5.45	5.45	5.45	4.16	0.52	22.04		
			2004	158.16	60.70	10.72	10.72	10.72	9.68	1.21	16.74		

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2			
ALLEGHENY LUDLUM CORP BRACKENRIDGE	ALLEGHENY LUDLUM CORP	15014	1996	653.98	442.58		472.32	555.57		41.84	255.82	3312	Blast Furnaces And Steel Mills
			1997	742.24	441.32		469.23	514.19		44.00	174.35		
			1998	705.94	418.46		442.20	480.91		42.37	157.41		
			1999	708.28	470.60	326.88	393.26	490.37	90.43	41.85	165.50		
			2000	671.19	375.23	264.68	333.61	445.18	100.35	39.31	160.13		
			2001	628.81	323.96	210.92	265.20	342.05	86.07	36.99	134.18		
			2002	603.04	351.61	204.00	266.42	353.75	56.74	40.38	135.36		
			2003	630.15	332.00	211.22	256.32	331.64	64.12	37.68	132.21		
			2004	384.55	394.99	208.86	251.17	326.52	78.39	62.96	139.40		
ALLEGHENY POWER SPRINGDALE STATION	OIL FIRED UTILITY STATION	15144	1996	0.00	0.00		0.00	0.00		0.00	0.00	4911	Electric Services
			1997	0.00	0.00		0.00	0.00		0.00	0.00		
			1998	0.00	0.00		0.00	0.00		0.00	0.00		
			1999	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
			2000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
			2001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
ALLEGHENY VALLEY HOSPITAL	HEALTH CARE FACILITY	15065	1998	1.89	2.25		0.04	0.04		0.01	0.12	8062	General Medical &s Surgical Hospital
			1999	2.58	3.07	0.06	0.06	0.06	0.18	0.02	0.32		
			2000	2.58	3.07	0.06	0.06	0.06	0.18	0.02	0.32		
			2001	0.60	1.97	0.04	0.14	0.43	0.01	6.36	0.18		
			2002	0.60	2.04	0.03	0.14	0.43	0.01	6.36	0.17		
			2003	5.59	6.65	0.14	0.18	0.38	0.38	0.04	0.52		
			2004	6.51	7.75	0.15	0.15	0.15	0.44	0.06	0.83		
ALMATIS INC	ALUMINA GRINDING AND PKG	15056	1998				3.91	5.11				3295	Minerals, Ground Or Treated
			1999			0.40	3.89	3.89					
			2000			0.36	3.60	3.60					
			2001			0.16	1.32	1.45					
			2002			1.63	1.62	3.24					
			2003			2.30	2.30	4.59					
			2004			0.60	3.00		6.01				

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2	VOC		
AMERICAN BRIDGE MANUFACTURING	PAINT. AND FAB. OF STEEL	15108	2001	0.82	2.71	1.44	14.51	37.36	0.19	0.12	26.07	3441	Fabricated Structural Metal
			2002	0.93	2.84	0.57	2.54	8.66	0.19	0.13	7.72		
			2003	1.00	3.13	4.46	4.46	30.26	0.22	0.14	11.67		
			2004	1.08	3.22	4.56	4.56	25.27	0.22	0.14	9.64		
AMG RESOURCES CORP.	SECONDARY FERROUS RECYCLG	15225	1998	5.17	7.46		4.40	6.00		0.15	0.43	3341	Secondary Nonferrous Metals
			1999	3.89	8.80	0.52	4.41	6.04	2.67	0.39	0.56		
			2000	0.38	0.45	0.03	0.19	0.33	0.03	0.00	0.02		
			2001	0.63	2.23	0.10	0.49	1.67	0.00	0.15	0.24		
			2002	0.20	0.71	0.09	0.22	0.65	0.00	0.05	0.08		
ARISTECH CHEMICAL RESEARCH LAB	R&DCOMMERCIAL CHEM PRD	15146	1996		0.28		0.00	0.00			7.09	8731	Commercial Physical Research
							0.00	0.00			7.53		
							0.00	0.00			7.10		
							0.00	0.00			0.31		
							0.00	0.00			0.53		
ARROW CONCRETE CO.	CONCRETE BATCH PLANT	15203	1998	3.67	5.41		1.11	5.61		0.12	0.33	3273	Ready-Mixed Concrete
			1999	2.43	3.59	0.12	1.18	1.69	2.23	0.08	0.22		
			2000	2.43	3.59	0.21	1.62	2.29	0.15	0.08	0.22		
			2001	2.43	3.59	0.26	0.83	1.59	0.15	0.08	0.22		
			2002	2.62	4.47	1.35	1.35	1.68	0.15	0.14	0.35		
ARSENAL SCHOOL	ARSENAL SCHOOL	15201	1998	0.38	0.45		0.01	0.01		0.00	0.02	8211	Elementary And Secondary Schools
			1999	0.49	0.59	0.01	0.01	0.01	0.03	0.00	0.03		
			2000	0.42	0.50	0.01	0.01	0.01	0.03	0.00	0.03		
			2001	0.40	0.48	0.01	0.01	0.01	0.03	0.00	0.03		
			2002	0.46	0.54	0.01	0.01	0.01	0.03	0.00	0.03		
			2003	0.51	0.61	0.01	0.01	0.01	0.03	0.00	0.03		
			2004	0.45	0.53	0.01	0.01	0.01	0.03	0.00	0.03		

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2			
ASHLAND SPECIALTY CHEMICAL CO - NEVILLE	ASHLAND CHEMICAL CO	15225	1996	504.89	39.00		1.56	1.56		0.13	99.48	2865	Cyclic Crudes And Intermediate
			1997	518.35	40.08		3.62	6.87		0.20	100.91		
			1998	514.52	31.72		2.63	6.05		0.17	102.54		
			1999	549.11	35.96	1.99	2.61	6.04	1.25	2.08	101.99		
			2000	554.27	35.79	2.02	2.66	6.41	0.03	4.18	127.44		
			2001	367.48	34.27	1.74	1.82	2.25	1.13	4.33	93.99		
			2002	171.04	46.99	1.93	2.23	3.88	1.58	0.22	12.48		
			2003	162.91	45.16	1.86	1.90	2.23	1.50	0.21	17.96		
			2004	35.21	33.80	1.83	1.87	2.09	1.46	0.53	17.54		
AXIOM AUTOMOTIVE TECHNOLOGIES	AUTOMOTIVE PARTS REFURBIS	15206	1998	0.03	0.23		0.23	0.27		0.34	1.85	3714	Motor Vehicle Parts & Accessories
			1999	0.02	0.18	0.22	0.22	0.26	0.48	0.21	3.91		
			2000	0.03	0.24	0.86	0.30	0.35	0.23	0.29	4.22		
			2001	0.02	0.15	0.19	0.19	0.22	0.41	0.18	4.11		
			2002	0.52	0.73	0.20	0.20	0.22	0.42	0.18	21.09		
			2003	0.66	1.05	1.21	0.43	0.50	0.93	0.41	17.53		
			2004	2.28	2.74	0.37	0.43	0.48	0.83	0.34	21.61		
BACHARACH INC. RIDC PARK. OHARA TWP	BACHARACH INC. RIDC PARK	15238	1996	0.16	0.79		0.02	0.02		0.00	0.20	3823	Process Control Instruments
			1997	0.55	0.65		0.01	0.01		0.00	0.17		
			1998	0.39	0.45		0.01	0.01		0.00	1.38		
			1999	0.39	0.45		0.01	0.01		0.00	1.38		
			2000	0.39	0.45	0.00	0.01	0.01	0.03	0.00	1.38		
			2001	0.39	0.45	0.01	0.01	0.01	0.03	0.00	1.17		
BAKE- LINE GROUP LLC	COOKIES/CRACKERS MANUFACT	15206	1996	1.91	8.07		0.36	0.36		0.04	8.73	2052	Cookies And Crackers
			1997	4.87	5.80		0.11	0.11		0.03	5.34		
			1998	4.45	5.30		0.10	0.10		0.03	3.67		
			1999	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
			2000	2.71	3.23	0.06	0.06	0.06	0.18	0.02	0.22		
			2001	3.41	4.06	0.08	0.08	0.08	0.23	0.02	5.09		
			2002	3.47	4.13	0.08	0.08	0.08	0.24	0.02	5.62		
			2003	3.47	4.13	0.08	0.08	0.08	0.24	0.02	5.62		

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2	VOC		
BARBER SPRING	STEEL SIDED BUILDING	15201	1998	3.40	4.05		2.82	2.82		0.02	16.27	3493	Steel Springs, Except Wire
			1999	2.91	3.96	0.19	2.39	9.33	0.19	0.04	20.73		
			2000	4.67	6.29	0.24	3.23	12.59	0.31	0.06	27.37		
			2001	4.37	6.09	0.18	1.25	4.65	0.34	0.07	36.13		
			2002	4.01	5.24	0.50	3.16	11.78		0.07	20.42		
			2003	5.78	7.00	0.60	3.71	13.67		0.06	45.01		
			2004	4.92	6.29	0.66	4.79	20.79	0.36	0.07	27.39		
BELLEFIELD BOILER PLANT	BELLEFIELD BOILER PLANT	15213	1996	169.25	188.72		81.92	179.69		711.06	4.61	4961	Steam Supply
			1997	171.81	174.85		77.82	169.55		655.50	4.59		
			1998	157.09	164.48		77.72	171.37		575.80	4.45		
			1999	145.29	168.29	8.97	62.73	132.68	2.52	578.75	3.47		
			2000	157.44	197.64	7.72	69.06	138.01	2.90	601.16	3.66		
			2001	162.96	188.32	8.83	76.69	148.21	2.41	732.63	3.63		
			2002	176.10	197.30	16.39	80.30	158.51	2.61	722.02	4.03		
			2003	180.31	286.53	18.14	65.17	131.89	2.87	779.69	3.25		
BEST FEEDS & FARM SUPPLIES, INC.	JOY DOG FOOD	15071	1998	1.18	1.40		3.30	6.44		0.01	0.08	2047	Dog Cat And Other Pet Food
			1999	1.51	1.80	3.89	3.51	6.95	0.10	0.01	0.10		
			2000	1.51	1.80	3.23	3.23	6.39	0.10	0.01	0.10		
			2001	1.48	1.76	2.88	2.88	5.70	0.10	0.01	0.10		
			2002	1.21	1.44	0.71	2.60	5.36	0.08	0.01	0.08		
			2003	1.21	1.44	0.73	2.60	5.36	0.08	0.01	0.08		
BETTIS ATOMIC POWER LABORATORY	NUCLEAR PROPULSION TEST	15122	1996	2.59	10.58		0.49	0.47		0.92	5.89	8731	Commercial Physical Research
			1997	4.60	6.59		0.21	0.33		2.38	1.92		
			1998	3.77	5.71		0.22	0.21		1.98	1.24		
			1999	3.69	5.18	0.08	0.12	0.11	3.25	0.93	1.53		
			2000	5.41	6.92	0.12	0.13	0.14	0.35	0.19	0.81		
			2001	3.34	4.65	0.10	0.12	0.19	0.20	0.06	1.00		
			2002	4.57	5.87	0.11	0.11	0.13	0.29	0.04	0.85		
			2003	3.74	4.87	0.08	0.09	0.11	0.23	0.05	0.67		
			2004	3.98	5.37	0.13	0.13	0.15	0.25	0.05	0.78		

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2			
BFI - IMPERIAL LANDFILL	MSW LANDFILL	15126	1996	152.34	37.98		14.82	24.41		4.75	45.62	4953	Refuse Systems
			1997	194.62	50.17		23.53	40.17		6.16	29.33		
			1998	82.12	56.49		22.73	38.34		2.82	30.67		
			1999	139.97	76.61	18.05	48.74	89.24	2.18	8.43	35.65		
			2000	280.77	58.32	18.81	58.23	107.35	3.75	8.01	35.32		
			2001	13.77	56.24	19.86	86.21	207.21		15.98	10.84		
			2002	16.48	68.32	25.87	92.13	224.09		19.18	11.00		
			2003	15.94	66.15	50.93	85.30	254.80		18.54	10.60		
			2004	17.86	74.68	55.41	93.43	262.19		21.36	12.58		
BP PRODUCTS. NORTH AMERICA INC	BP CORAOPOLIS TERMINAL	15108	1996	0.01	0.04		0.12	0.01		0.14	28.33	5171	Petroleum Bulk
			1997	0.21	0.25		0.12	0.12		0.00	29.50	5171	Stations & Terminals
			1998	0.03	0.04		0.02	0.03		0.00	28.09		
			1999	0.05	0.06	0.04	0.02	0.01	0.05	0.00	28.38		
			2000	0.05	0.06	0.01	0.06	0.28	0.00	0.00	34.13		
			2001	0.04	0.05	0.01	0.07	0.30	0.00	0.00	18.41		
			2002	0.06	0.07	0.01	0.06	0.29	0.00	0.00	20.75		
			2003	0.06	0.07	0.01	0.06	0.28	0.00	0.00	16.79		
			2004	0.02	0.02	0.01	0.05	0.25		0.00	16.68		
BRADDOCK RECOVERY, INC.	BRADDOCK . RECOVERY, INC	15104	1998	1.84	8.00		3.55	6.63		1.30	0.12	3399	Primary Metal Products, Nec
			1999	8.40	10.00	0.42	3.82	7.63	1.71	0.06	0.55		
			2000	1.84	8.00	0.14	1.29	2.92	0.33	2.72	0.12		
			2001	0.82	3.57	0.07	0.72	2.40	0.14	1.21	0.05		
			2002	0.82	3.57	1.30	1.30	4.32	0.14	1.21	0.05		
			2003	0.88	3.83	1.42	1.42	4.72	0.16	1.30	0.06		
			2004	1.04	4.50	1.71	1.71	5.70	0.32	1.53	0.07		
BUCKEYE CORAOPOLIS PIPELINE FACILITY	REFINED PET. PIPELINE FAC.	15108	1998	2.00	4.90						37.45	4613	Refined Petroleum Pipe Lines
		15108	1999	1.69	4.22						40.71		
		15108	2000	0.49	1.21						33.58		
		15108	2001	0.78	1.96						31.05		
		15108	2002	1.76	4.39						33.61		
		15108	2003	2.77	6.93						34.79		
		15108	2004	2.38	5.94						27.81		

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2	VOC		
CALGON CARBON CORP.	NEVILLE ISLAND PLANT	15225	1998	19.72	21.34		20.11	23.65		24.46	3.77	2819	Industrial Inorganic Chemicals
			1999	11.46	18.95	1.34	6.21	7.31		4.24	4.14		
			2000	11.21	19.81	3.25	4.78	5.63		1.79	5.56		
			2001	4.74	6.89	3.24	4.67	7.23		2.40	1.16		
			2002	4.29	6.49	3.19	4.58	7.06		2.54	1.18		
			2003	3.22	5.11	3.33	4.81	7.09		3.17	1.26		
			2004	4.36	6.05	2.89	4.68	7.43		2.42	1.16		
CARGILL, INC. SALT DIVISION	BULK PROCESSING	15136	1998				5.27	10.92				5169	Chemicals And Allied Products, Nec
			1999			0.31	5.19	6.55					
			2000			0.21	1.73	3.19					
			2001	0.32	1.48	0.34	1.75	4.52		0.10	0.10		
			2002	0.20	0.91	2.51	1.49	3.88		0.06	0.06		
CARRICK SCHOOL	CARRICK SCHOOL	15210	1998	0.67	0.80		0.02	0.02		0.00	0.04	8211	Elementary And Secondary Schools
			1999	0.52	0.61	0.01	0.01	0.01	0.04	0.00	0.03		
			2000	0.36	0.43	0.01	0.01	0.01	0.02	0.00	0.02		
			2001	0.52	0.62	0.01	0.01	0.01	0.04	0.00	0.03		
			2002	0.52	0.62	0.01	0.01	0.01	0.04	0.00	0.03		
			2003	0.47	0.56	0.01	0.01	0.01	0.03	0.00	0.03		
			2004	0.41	0.49	0.01	0.01	0.01	0.03	0.00	0.03		
CDC, NIOSH., PITTSBURGH RESEARCH LAB	FEDERAL RESEARCH FACILITY	15236	1996	21.18	25.27		1.46	1.11		86.16	2.15	9199	General Government, Nec
			1997	17.10	21.38		0.90	1.98		73.46	1.15		
			1998	17.86	20.98		0.33	0.57		67.01	0.77		
			1999	18.93	22.32	0.11	0.34	0.78	0.11	71.60	0.51		
			2000	18.24	21.45	0.11	0.34	0.77	0.10	71.97	0.51		
			2001	16.02	20.72	0.21	0.56	1.25	0.17	77.17	0.22		
			2002	16.14	20.86	0.21	0.56	1.25	0.17	77.17	0.23		
			2003	16.07	20.54	0.19	0.54	1.23	0.15	78.14	1.26		
			2004	14.30	18.34	0.18	0.50	1.16	0.14	69.99	1.24		

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2	VOC		
CENTRAL FOOD KITCHEN	CENTRAL FOOD KITCHEN	15203	1998	1.05	1.25		0.02	0.02		0.01	0.07	8211	Elementary And Secondary Schools
			1999	0.74	0.88	0.02	0.02	0.02	0.05	0.01	0.05		
			2000	0.64	0.76	0.01	0.01	0.01	0.04	0.00	0.04		
			2001	0.62	0.74	0.01	0.01	0.01	0.04	0.00	0.04		
			2002	1.08	1.29	0.02	0.02	0.02	0.07	0.01	0.07		
			2003	0.64	0.76	0.01	0.01	0.01	0.04	0.00	0.04		
			2004	0.76	0.90	0.02	0.02	0.02	0.05	0.01	0.05		
CHAMBERS DEVELOPMENT CO., INC.	CHAMBERS, DEVELOPMENT CO.	15146	1996	14.49	52.13		20.34	32.30		9.15	17.82	4953	Refuse Systems
			1997	10.74	41.22		16.87	28.83		5.98	11.13		
			1998	29.79	33.73		14.50	26.46		3.77	6.49		
			1999	13.79	60.55	19.50	97.94	203.06	1.17	5.29	8.06		
			2000	21.05	86.65	9.08	27.76	48.98	2.04	7.97	15.70		
			2001	16.32	69.26	8.39	17.10	31.17	1.05	16.19	11.85		
			2002	12.70	51.98	17.31	47.55	78.30	1.15	12.32	9.71		
			2003	13.96	57.86	9.57	40.43	78.10	1.15	13.65	13.87		
CHILDRENS HOSPITAL OF PITTSBURGH (Lawrenceville)	HOSPITAL BOILERROOM	15201	1998	4.69	5.58		0.11	0.08		0.03	4.62	8062	General Medical & Surgical Hospitals
			1999	4.31	5.14	0.10	0.10	0.10	0.29	0.03	8.28		
			2000	5.41	6.44	0.12	0.12	0.12	0.37	0.04	3.60		
			2001	4.76	5.66	0.11	0.11	0.11	0.32	0.03	2.37		
			2002	4.76	5.66	0.11	0.11	0.11	0.32	0.03	1.86		
			2003	3.22	3.84	0.07	0.07	0.07	0.22	0.02	0.21		
			2004	1.12	1.34	0.03	0.03	0.03	0.08	0.01	0.07		
CLAIRTON SLAG, INC.	PAVING MATERIAL PLANT	15088	1996	7.51	1.70		15.92	18.46		1.66	1.35	2951	Paving Mixtures And Blocks
			1997	15.19	22.99		31.64	83.16		8.00	6.72		
			1998	17.72	22.54		37.07	97.30		12.27	7.49		
			1999	4.51	20.32	2.09	12.76	23.73	0.59	7.78	8.50		
			2000	18.50	20.69	1.66	12.93	23.35	0.01	4.41	6.74		
			2001	9.28	22.73	2.70	12.34	19.12	0.01	3.94	7.00		
			2002	14.33	17.51	10.46	9.80	15.11	0.01	3.08	4.80		
			2003	14.53	32.12	15.43	18.01	34.53	0.37	3.70	4.78		
			2004	12.05	16.27	3.85	4.31	12.89	0.37	1.14	1.59		

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2	VOC		
CLEARWATER, INC.	CHEMICAL MANUFACTURER	15225	1998	0.25	0.30		0.01	0.01		0.00	0.25	2819	Industrial Inorganic Chemicals
CONNELLEY SCHOOL	SCHOOL	15219	1998	0.80	0.95		0.01	0.02		0.01	0.05	8249	Vocational School,
			1999	0.93	1.11	0.02	0.02	0.02	0.06	0.01	0.06		
			2000	0.93	1.11	0.02	0.02	0.02	0.06	0.01	0.06		
			2001	0.96	1.14	0.02	0.02	0.02	0.06	0.01	0.06		
			2002	1.05	1.25	0.02	0.02	0.02	0.07	0.01	0.07		
			2003	1.10	1.31	0.02	0.02	0.02	0.07	0.01	0.07		
			2004	1.02	1.22	0.02	0.02	0.02	0.07	0.01	0.07		
CP INDUSTRIES	METAL FABRICATOR	15132	1998	3.15	3.75		0.52	0.52		0.02	1.41	3499	Fabricated Metal Products, Nec
			1999	3.16	3.76	3.33	3.33	3.33	0.21	0.02	1.41		
			2000	3.16	3.76	2.49	3.33	3.43	0.21	0.02	2.46		
			2001	2.32	2.76	2.48	3.31	3.41	0.16	0.02	2.40		
			2002	1.24	1.48	1.05	10.27	21.30	0.08	0.01	0.50		
			2003	1.39	1.65	8.74	8.74	18.11	0.09	0.01	0.51		
			2004	1.24	1.48	1.05	10.27	21.30	0.08	0.01	0.50		
CREIGHTON STATION	COMPRESSOR STATION	15030	1998	0.72	2.45		0.08	0.08		0.00	0.98	4922	Natural Gas Transmission
			1999	5.95	20.49	0.61	0.61	0.61	0.36	0.01	8.29		
			2000	3.83	21.05	0.42	0.42	0.27	0.01	0.01	1.30		
			2001	5.45	9.82	1.10	1.10	1.10	0.29	0.02	16.29		
			2002	0.88	1.45	0.18	0.18	0.18	0.05	0.00	2.67		
			2003	1.43	4.21	0.18	0.18	0.18	0.05	0.00	0.77		
			2004	8.89	18.72	1.37	1.37	1.37	0.35	0.02	2.97		
DAILY JUICE PRODUCTS/DIV. AMERICAN BVG	MFR OF JUICE PRODUCTS	15147	1998	0.37	2.68		0.05	0.05		0.18	1.85	2086	Bottled And s Canned Soft Drink

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2			
DICE COMPRESSOR STATION	COMPRESSION OF L NG IN WEL	15239	1996	4.63	45.91		0.02	0.02		0.01	4.11	4924	Natural Gas Distribution
			1997	6.98	39.16		0.17	0.17		0.01	3.57		
			1998	4.69	29.73		0.01	0.01		0.01	2.52		
			1999	5.02	31.36	0.01	0.01	0.01	0.01	0.01	3.33		
			2000	6.88	24.00	0.53	0.53	0.75	0.55	0.01	3.55		
			2001	3.19	23.15	0.40	0.40	0.40	0.10	0.01	2.39		
			2002	3.55	19.84	0.44	0.44	0.44	0.12	0.01	2.60		
			2003	3.76	21.30	0.47	0.47	0.47	0.13	0.01	2.64		
			2004	5.67	35.96	0.72	0.72	0.72	0.20	0.01	2.51		
DLM FOODS	PITTSBURGH FACTORY	15212	1996	135.12	187.40		120.90	216.86		573.88	78.75	2032	Canned Specialties
			1997	146.38	198.91		130.47	234.16		669.83	163.04		
			1998	145.97	200.20		129.72	232.72		618.70	162.43		
			1999	162.69	285.65	39.72	109.25	166.16	1.41	677.88	267.67		
			2000	158.15	301.33	16.75	86.01	130.50	1.18	692.40	32.37		
			2001	142.10	267.32	13.89	74.90	114.10	1.12	617.15	10.04		
			2002	146.18	214.48	20.85	82.13	144.83	1.15	626.47	6.27		
			2003	145.89	215.62	20.87	80.37	141.26	1.14	622.86	5.68		
			2004	142.10	208.25	51.43	65.10	116.37	24.33	598.64	7.66		
DUQUESNE LIGHT CO., MANCHESTER FACILITY	DUQUESNE LIGHT CO.	15233	1998	1.56	1.85		1.48	3.94		0.01	0.47	4911	Electric Services
			1999	1.42	1.69	0.54	1.47	3.93	0.10	0.01	0.46		
			2000	1.34	1.60	0.54	1.47	3.93	0.09	0.01	0.30		
			2001	1.49	2.41	0.03	0.03	0.03	0.10	0.01	0.20		
DUQUESNE UNIVERSITY	EDUCATIONAL SERVICES	15282	1998	6.87	20.42		4.13	4.13		0.17	1.61	8221	Colleges And Universities, Nec
			1999	4.52	18.95		4.18	4.25		0.19	1.65		
			2000	6.76	29.36	0.54	0.54	0.54	1.29	0.81	0.82		
			2001	3.03	27.70	0.58	0.58	0.58	1.28	0.84	0.79		
			2002	3.75	24.65	0.59	0.59	0.59	1.20	0.26	0.78		
			2003	18.08	24.97	0.53	0.53	0.53	1.22	0.21	0.94		
			2004	12.76	26.14	0.55	0.55	0.55	1.29	0.225972	0.76		

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2	VOC		
DURA - BOND INDUSTRIES INC.	PIPE COATINGS. FOR NG IND	15134	1996	0.18	0.90		2.51	5.78		0.00	0.43	3479	Metal Coating And Allied Services,nec
			1997	1.21	2.05		4.40	10.86		0.01	0.57		
			1998	1.66	1.98		0.47	0.90		0.01	0.18		
			1999	2.01	5.84	0.56	3.24	8.86	0.44	0.32	0.47		
			2000	2.05	5.93	1.17	2.11	3.63		0.32	0.46		
			2001	1.75	5.99	0.10	6.22	14.84	0.04	0.36	0.47		
			2002	2.04	7.10	7.34	6.38	14.92	0.04	0.42	0.55		
			2003	1.91	5.21	6.38	6.02	17.14	0.06	0.27	0.39		
			2004	2.11	6.13	5.82	5.70	16.07	0.06	0.33	0.48		
EASTMAN CHEMICAL RESINS, INC.	EASTMAN - JEFFERSON SITE	15088	2001	13.95	33.53	1.49	12.97	16.95	1.66	4.19	420.20	2821	Plastics Materials And Resins
			2002	36.14	34.79	13.04	14.27	19.24	1.83	4.92	425.84		
			2003	27.27	35.27	14.74	16.20	22.63	0.58	5.78	371.21		
			2004	75.73	92.77	20.91	22.45	29.10	3.80	6.10	370.46		
EDGEWATER STEEL LTD.	EDGEWATER STEEL LTD.	15139	1996	24.29	57.70		12.71	30.00		42.76	3.08	3462	Iron And Steel Forgings
			1997	26.38	27.39		8.35	37.00		15.55	1.99		
			1998	24.69	25.80		4.05	13.30		11.83	4.83		
			1999	19.37	20.82	0.43	1.68	7.61	1.18	0.13	4.26		
			2000	17.76	18.87	0.39	1.53	7.01	1.07	0.12	3.64		
			2001	10.66	11.33	0.24	1.00	5.06	0.64	0.07	2.18		
EPIC METALS CORP.	STEEL ROOF FABRICATION	15104	1998	0.03	0.04		0.00	0.00		0.00	20.09	3441	Fabricated Structural Metal
			1999			0.00	0.00	0.00	0.00	0.00	8.32		
			2000	0.15	0.18	0.00	0.00	0.00	0.01	0.00	4.32		
			2001	0.33	0.40	0.01	0.01	0.01	0.02	0.00	0.74		
			2002	0.45	0.53	0.01	0.01	0.01	0.03	0.00	0.97		
			2003	0.56	0.67	0.01	0.01	0.01	0.04	0.00	0.62		
			2004	0.57	0.68	0.01	0.01	0.01	0.01	0.00	0.69		

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2			
FERRO CORP.	INORGANIC PIGMENTS	15204	1996	0.07	0.36		1.30	1.52		0.00	0.03	2816	Inorganic Pigments
			1997	0.10	0.20		0.83	0.98		0.00	0.03		
			1998	0.25	0.27		0.65	0.77		0.00	0.02		
			1999	0.17	0.20	0.01	0.55	0.65	0.17	0.00	0.01		
			2000	0.28	0.34	0.03	0.70	0.82	0.02	0.00	0.03		
			2001	0.21	0.25	0.07	0.62	0.70		0.00	0.03		
FOX CHAPEL SENIOR HIGH SCHOOL	FOX CHAPEL HIGH SCHOOL	15238	1998	0.84	1.00		0.12	0.54		0.01	0.06	8211	Elementary And Secondary Schools
			1999	1.03	1.23	0.03	0.12	0.54	0.07	0.01	0.07		
			2000	0.96	1.14	0.03	0.12	0.52	0.07	0.01	0.06		
			2001	1.01	1.20	0.03	0.12	0.51	0.07	0.01	0.07		
			2002	1.09	1.30	0.03	0.12	0.52	0.07	0.01	0.07		
			2003	1.16	1.38	0.04	0.13	0.53	0.08	0.01	0.08		
			2004	1.10	1.31	0.02	0.02	0.02	0.07	0.01	0.07		
GALVTECH	HOT DIP GALVANIZING-STRIP	15207	1999	23.47	27.95	0.41	0.68	1.31	1.59	0.17	2.53	3479	Metal Coating Andc Allied Services,ne
			2000	25.75	30.65	0.64	0.82	1.83	1.75	0.18	3.10		
			2001	22.72	27.05	0.57	0.75	1.76	1.54	0.16	2.37		
			2002	28.78	34.26	0.71	0.90	1.93	1.95	0.21	2.54		
			2003	22.49	26.78	0.57	0.74	1.71	1.53	0.16	1.87		
			2004	24.76	29.48	0.62	0.79	1.76	1.68	0.18	2.53		
GARDNER,DENVER,) NASH(FORMERLY NASH ELMO	ENGINEERED VACUUM SYST 15037	15037	1998	0.22	0.27		0.01	0.01		0.16	3.17	3578	Air And Gas Compressors
			1999	0.22	0.27	0.01	0.01	0.01	0.21	0.15	1.90		
			2000	0.27	0.54	0.01	0.04	0.11	0.01	0.02	1.46		
			2001	0.83	1.18	0.02	0.05	0.12	0.05	0.02	4.61		
			2002	0.91	1.30	0.04	0.05	0.13	0.05	0.03	13.03		
			2003	0.80	1.10	0.19	0.19	1.32	0.05	0.02	3.40		
			2004	0.87	1.42	0.38	0.38	2.72	0.05	0.04	4.61		

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Facility Name	Description Line	ZIP	Year of Inventory	Facility Criteria Emissions							VOC	Standard Industrial Code	SIC Description
				CO	NOx	PM2.5	PM10	PT	PMCond	SO2			
GE CONSUMER PRODUCTS, LIGHTING	BRIDGEVILLE T GLASS PLAN	15017	1996	8.73	232.41		22.20	27.80		4.10	1.52	3229	Pressed And Blown Glass, Nec
			1997	8.51	236.22		5.68	6.19		4.27	1.46		
			1998	6.33	210.80		4.40	4.58		4.12	1.37		
			1999	11.86	230.39	3.53	4.25	4.15		4.23	1.79		
			2000	12.87	210.61	2.03	18.65	18.86	0.47	2.94	1.41		
			2001	9.62	166.09	1.51	13.92	20.11	0.37	2.95	1.56		
			2002	12.31	161.22	2.88	27.27	27.53	0.11	0.09	1.03		
			2003	9.40	110.30	2.18	21.16	21.26		0.10	0.82		
			2004	12.21	0.03	25.98	138.67	26.05	2.88	0.09	0.84		
GENERAL ELECTRIC APPARATUS SERVICE	REPAIR ELECT. POWER EQUIP	15122	1996	0.15	0.76		1.68	1.23		0.00	2.48	7699	Repair Services, Nec
			1997	2.25	2.65		1.76	1.71		0.02	3.75		
			1998	0.63	0.76		0.30	0.32		0.00	0.38		
			1999	0.52	0.62	0.45	0.45	0.45		0.00	1.77		
			2000	0.28	0.34	0.64	0.64	0.64	0.02	0.00	2.99		
			2001	0.24	0.28	0.24	0.24	0.24	0.02	0.00	2.03		
			2002	0.29	0.34	0.30	0.30	0.30	0.02	0.00	0.97		
			2003	0.32	0.39	0.23	0.23	0.23	0.02	0.00	1.42		
			2004	0.35	0.41	0.33	0.37	0.43	0.02	0.00	0.81		
GENERAL MOTORS PITTSBURGH PLANT	GENERAL MOTORS PITTSBURGH	15122	1996	2.44	10.00		2.42	2.80		4.84	4.76	3465	Automotive Stampings
			1997	13.55	8.29		2.50	2.88		4.82	6.65		
			1998	13.25	7.09		2.41	2.60		3.31	12.65		
			1999	15.88	7.79	0.29	0.60	2.28	0.52	9.01	6.83		
			2000	15.94	8.75	0.45	0.81	2.67	0.56	10.47	4.31		
			2001	15.82	7.81	0.54	1.30	5.34	0.49	1.18	4.42		
			2002	6.11	7.62	0.53	1.29	5.32	0.48	1.12	2.67		
			2003	6.70	7.35	0.93	2.84	13.29	0.46	1.12	2.47		
			2004	6.12	7.14	0.89	2.79	13.19	0.44	0.79	2.20		

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2	VOC		
GLENSHAW GLASS CO., INC.	GLASS CONTAINER MANU.	15116	1996	23.02	429.99		84.61	88.87		126.69	41.99	3221	Glass Containers
			1997	26.10	432.33		98.84	104.32		127.34	34.49		
			1998	27.17	436.48		96.48	101.60		127.93	34.75		
			1999	28.90	491.73	71.02	81.21	82.54	3.43	128.42	35.68		
			2000	129.34	444.50	66.28	76.10	78.33	3.21	117.22	32.46		
			2001	121.67	255.50	49.01	58.06	61.01	2.62	114.35	26.58		
			2002	117.77	233.96	53.79	54.96	59.76	2.55	106.53	24.71		
			2003	115.59	340.30	49.15	50.32	55.14	2.53	98.32	24.31		
			2004	58.05	258.46	32.27	36.32	44.18	2.03	76.88	19.10		
GOTTLIEB, INC.	SECONDARY ALUMINUM PROD.	15225	2003	1.66	20.46	0.73	1.27	3.47	0.04	2.02	4.33	3341	Secondary Aluminum Prod.
			2004	1.56	25.60	0.87	1.33	2.94	0.11	2.54	5.44		
GUARDIAN INDUSTRIES CORP. FLOREFFE	FLAT GLASS MANUFACTURING	15025	1996	6.09	655.91		57.60	67.20		220.41	6.75	3211	Flat Glass
			1997	7.09	717.42		62.33	72.05		240.15	7.16		
			1998	6.60	365.15		61.33	70.77		218.26	7.00		
			1999	7.03	377.09	41.69	63.03	74.74	0.06	227.10	17.23		
			2000	3.76	819.03	63.48	75.38	87.61	0.06	154.29	12.66		
			2001	7.01	1177.59	39.00	94.42	110.22	0.07	187.37	13.99		
			2002	7.90	1056.26	21.89	38.97	88.86	0.04	94.28	11.93		
			2003	6.57	1051.03	3.40	15.18	29.87	10.27	121.51	10.63		
			2004	7.72	996.64	3.53	15.22	29.80	19.71	109.89	12.74		
GULF OIL LIMITED PARTNERSHIP NEVILLE IS	GULF OIL LIMITED PARTNERS	15225	1996	0.05	0.19		0.02	0.02		4.00	32.72	5171	Petroleum Bulk Stations & Terminals
			1997	0.06	0.23		0.15	0.81		0.49	65.93		
			1998	0.03	0.11		0.01	0.00		0.23	34.65		
			1999	0.03	0.11	0.00	0.01	2.19	0.01	0.23	45.21		
			2000	7.63	7.69	0.00	0.00	1.98	0.00	0.49	45.02		
			2001	6.21	2.43	0.07	0.43	1.30	0.01	0.20	57.25		
			2002	6.00	2.39	0.07	0.44	1.31	0.01	0.26	58.74		
			2003	9.71	4.01	0.45	3.04	9.12	0.00	0.28	48.36		
			2004	10.59	4.42	0.49	3.32	9.97	0.00	0.40	42.70		

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Facility Name	Description Line	ZIP	Year of Inventory	Facility Criteria Emissions								Industrial Code	SIC Description
				CO	NOx	PM2.5	PM10	PT	PMCond	SO2	VOC		
HASKELL SENATOR INTERNATIONAL	HASKELL SENATOR INTL.	15147	1996	0.98	2.53		0.29	0.46		0.01	52.19	2522	Metal Office Furniture
			1997	2.51	2.93		0.22	0.40		0.02	53.16		
			1998	2.39	2.78		0.14	0.17		0.01	55.32		
			1999	2.31	2.68	0.13	0.16	0.18	0.12	0.01	58.41		
			2000	2.84	3.32	0.14	0.17	0.19	0.18	0.02	61.26		
			2001	2.72	2.19	0.12	0.13	0.15	0.12	0.02	35.21		
HEEKIN CAN, INC.	DIVISION OF BALL CORP.	15205	1996	0.18	0.71		0.07	0.07		0.00	10.53	3479	Metal Coating And Allied Services,nec
HENRY MILLER SPRING MANUFACTURING CO	SPRING MANUFACTURING	15125	1998	8.20	13.73		5.92	20.77		0.05	46.23	3493	Steel Springs, Except Wire
			1999	6.78	8.18	0.34	3.84	14.85	0.43	0.05	26.70		
			2000	0.52	0.63	0.02	0.23	0.88	0.03	0.00	1.12		
HERCULES INC.	HERCULES INC.	15088	1996	22.50	41.19		19.58	20.96		4.44	859.18	2821	Plastics Materials And Resins
			1997	28.44	36.12		15.18	22.09		6.52	563.32		
			1998	56.12	39.74		16.40	23.80		4.31	576.10		
			1999	16.39	37.81	0.31	12.42	14.07	1.89	4.57	651.08		
			2000	16.59	37.46	1.65	14.93	16.52	1.88	4.41	474.00		
HOECHSTETTER PRINTING	COMMERCIAL LITHO PRINTING	15143	2000	1.31	1.56	0.03	0.03	0.03	0.08	0.01	43.53	2752	Commercial Printing Lithograph
			2001	1.27	1.51	0.03	0.03	0.02	0.07	0.01	43.28		
			2002	0.23	0.27	0.01	0.01	0.01	0.02	0.00	42.99		
			2003	0.17	0.20	0.00	0.00	0.00	0.01	0.00	23.09		
			2004	0.37	0.45	0.01	0.01	0.01	0.03	0.00	18.65		

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2	VOC		
HUSSEY COPPER LTD.	HUSSEY COPPER LTD.	15056	1996	8.73	26.49		31.19	54.34		0.26	27.59	3351	Copper Rolling And Drawing
			1997	22.36	22.88		24.33	43.00		0.78	32.57		
			1998	20.92	21.43		48.02	91.07		0.76	14.34		
			1999	22.74	23.46	37.25	52.51	110.50	1.33	0.78	14.48		
			2000	22.23	23.83	36.18	48.86	98.33	1.35	0.43	18.06		
			2001	19.77	21.00	17.07	34.34	61.38	1.19	0.28	13.10		
			2002	19.33	20.79	15.79	33.72	57.05	1.18	0.23	9.87		
			2003	20.11	21.55	15.56	33.51	55.24	1.22	0.25	10.43		
			2004	20.74	21.64	28.74	39.87	73.52	1.22	0.26	10.55		
IA CONSTRUCTION GIBSONIA	HOT MIX ASPHALT PLANT	15044	1998	22.30	7.44		13.53	36.10		19.02	10.25	2951	Paving Mixtures And Blocks
			1999	20.59	4.56	0.97	8.46	31.87	1.60	8.37	1.35		
			2000	13.68	1.91	2.64	27.45	40.67	0.15	1.22	0.42		
			2001	19.41	2.65	2.01	14.57	52.39	0.20	1.32	0.58		
			2002	16.82	2.40	7.78	12.85	45.89	0.18	1.17	0.41		
			2003	7.37	1.13	3.57	5.77	20.47	0.12	0.27	0.19		
IDL INC.	IDL INC.	15239	1996	0.06	0.32		0.58	1.60		0.00	41.81	2752	Commercial Printing Lith
			1997	0.26	0.31		0.59	1.61		0.00	30.70		
			1998	0.29	0.34		0.58	1.61		0.00	29.56		
			1999	0.27	0.33	0.07	0.57	1.60	0.02	0.00	26.23		
			2000	0.32	0.38	0.07	0.56	1.56	0.02	0.00	22.52		
			2001	0.28	0.34	0.07	0.56	1.56	0.02	0.00	23.01		
			2002	0.28	0.34	0.07	0.56	1.56	0.02	0.00	13.25		
			2003	0.26	0.31	0.06	0.56	1.56	0.02	0.00	12.86		
			2004	0.26	0.31	0.06	0.56	1.56	0.02	0.00	11.14		
INTL PAPER (formerly Box U.S.A.)	CORRUGATED . BOX MFG	15215	1998	1.39	1.65		5.72	5.72		0.01	0.57	2653	Corrugated And Solid Fiber Box
			1999	1.58	1.89	0.04	5.87	5.87	0.11	0.01	0.79		
			2000	1.13	1.35	3.48	3.48	3.48	0.08	0.01	0.35		
			2001	1.39	1.66	0.85	3.71	3.71	0.09	0.01	0.52		
			2002	1.38	1.64	5.23	5.23	5.23	0.09	0.01	0.91		
			2003	0.65	0.97	1.66	1.67	1.68	0.06	0.42	0.44		
			2004	0.28	0.64	1.84	1.86	1.88	0.04	0.63	0.42		

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2			
IRON CITY. INDUSTRIAL CLEANING CORP	IRON CITY INDUSTRIAL CLEA	15206	1996	0.32	1.54		0.17	0.11		0.01	32.01	7218	Industrial Launderers
			1997	0.99	1.18		0.02	0.02		0.01	18.33		
			1998	0.84	1.00		0.02	0.02		0.01	10.85		
JEFFERSON REGIONAL MEDICAL CENTER	HEALTH CARE FACILITY	15236	1998	3.04	3.67		0.07	0.07		0.14	0.20	8062	General Medicals & Surgical Hospital
			1999	2.82	3.38	0.18	4.68	23.68	0.19	0.06	0.28		
			2000	2.79	3.45	0.11	1.25	6.07	0.20	1.09	0.28		
			2001	2.47	3.24	0.06	0.07	0.09	0.18	0.62	0.26		
			2002	3.12	3.75	0.07	0.07	0.07	0.21	0.08	0.26		
			2003	2.89	3.46	0.07	0.07	0.07	0.20	0.09	0.24		
			2004	2.97	3.58	0.07	0.07	0.07	0.20	0.09	0.24		
KELLY RUN SANITATION	MSW LANDFILL	15037	1996	91.56	9.61		16.52	31.72		2.01	4.39	4953	Refuse Systems
			1997	50.52	29.81		19.02	19.02		2.64	4.91		
			1998	55.21	30.66		19.58	19.72		2.77	6.58		
			1999	21.32	34.15	8.61	11.45	16.15	0.55	2.92	7.30		
			2001	22.83	33.38	7.65	9.46	16.02	0.49	2.96	6.73		
			2002	15.27	15.89	8.07	10.81	19.29	0.45	0.74	4.54		
			2003	10.69	9.22	4.16	6.00	10.65	0.33	0.38	1.10		
			2004	8.30	8.50	6.68	8.03	11.45	0.25	0.39	0.90		
KINDER MORGAN INDIANOLA PLANT	KINDER MORGAN	15051	1996	3.45	14.05		1.42	1.42		0.06	28.97	5171	Petroleum Bulk Stations & Terminals
			1997	7.19	9.18		0.25	0.70		0.73	29.84		
			1998	5.71	8.14		0.27	0.21		1.32	26.56		
			1999	6.07	7.46	0.14	0.16	0.16	0.42	0.25	36.98		
			2000	5.89	7.73	0.15	0.21	0.21	0.44	0.66	27.94		
			2001	4.51	7.53	0.15	0.33	0.33	0.42	1.93	30.49		
			2002	4.87	5.92	0.11	0.12	0.12	0.34	0.14	28.87		
			2003	5.51	10.03	0.20	0.29	0.49	0.56	3.06	29.34		
			2004	8.04	9.88	0.18	0.20	0.21	0.56	0.33	32.01		

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2	VOC		
KINDER-MORGAN LIQUIDS TERMINAL LLC (formerly BOSWEL LIQUID STORAGE)	PETROLEUM	15034	1998	1.70	3.50		0.02	0.22		3.74	5.22	4226	Services, Nec
			1999	1.76	2.22	0.04	0.05	0.06	1.76	0.02	2.00		
			2000	0.44	1.38	0.03	0.06	0.13	0.09	2.17	0.89		
			2001	1.49	7.15	0.16	0.39	0.63	0.06	4.31	0.26		
			2002	1.59	6.34	0.14	0.33	0.52	0.08	3.57	0.35		
			2003	1.64	6.19	0.29	0.43	0.50	0.21	3.40	0.44		
			2004	1.74	7.45	0.36	0.54	0.62	0.25	4.31	1.37		
KOPP GLASS, INC	MANUFACTURE GLASSWARE	15218	1998	5.67	7.22		0.14	0.14		0.04	4.27	3229	Pressed And Blown Glas
			1999	6.12	7.28	0.14	0.14	0.14	0.42	0.04	1.38	3229	And Blown Glass, Ne
			2000	5.90	7.02	0.13	0.13	0.13	0.40	0.04	1.91		
			2001	6.22	7.40	0.14	0.14	0.14	0.42	0.04	1.76		
			2002	4.83	5.75	0.11	0.13	0.11	0.33	0.03	0.61		
			2003	4.51	5.37	0.10	0.10	0.10	0.31	0.03	3.62		
			2004	3.56	4.24	0.08	0.08	0.08	0.24	0.03	2.65		
KOPPERS INDUSTRIES INC. CLAIRTON PLANT	KOPPERS IND. CLAIRTON	15025	1996	19.05	14.58		26.26	56.87		0.00	68.23	2865	Cyclic Crudes
			1997	20.96	12.50		11.78	32.33		39.19	57.20	2865	And Intermediate
			1998	22.88	15.11		13.32	54.47		44.10	50.16		
			1999	18.24	16.35	1.83	9.87	39.74	0.70	74.46	78.54		
			2000	14.37	13.96	6.21	15.63	57.05	0.55	0.35	66.10		
			2001	8.81	13.29	2.96	8.82	22.74	0.56	37.04	75.70		
			2002	18.61	13.88	6.71	9.25	23.79	0.60	1.35	76.52		
			2003	15.87	14.92	6.42	7.80	17.41	0.59	0.49	78.97		
			2004	18.74	15.42	5.98	7.39	16.77	0.91	0.92	96.10		
KOSMOS CEMENT CO.	KOSMOS CEMENT CO.	15225	1996	312.55	1519.32		238.51	395.16		559.50	29.03	5032	Cement, Hydraulic
			1997	344.42	1674.73		289.47	487.46		616.56	31.99		
			1998	324.73	962.87		188.30	346.70		232.33	22.86		
			1999	66.94	1018.82	135.55	252.44	422.82	13.83	245.31	24.14		
			2000	21.56	806.13	118.50	240.81	423.77		637.95	28.40		
			2001	1.67	114.25	12.75	71.50	133.65		90.50	4.03		
			2002			0.52	5.83	11.75					
			2003			0.53	5.90	11.89					
			2004			1.82	5.88	11.85					

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2			
LAUREL MOUNTAIN WHIRLPOOLS, INC.	WHIRPOOL TUB PRODUCTION	15145	1996	0.04	0.20		0.01	0.01		0.00	4.03	3083	Laminated Plastics Plate And Sheet
			1997	0.21	0.25		0.00	0.00		0.00	4.79		
			1998	0.25	0.30		0.01	0.01		0.00	5.17		
			1999	0.18	0.22	0.00	0.00	0.00	0.01	0.00	4.47		
			2000	0.17	0.20	0.00	0.00	0.00	0.01	0.00	4.34		
			2001	0.13	0.15	0.00	0.00	0.00	0.01	0.00	3.70		
			2002	0.14	0.17	0.00	0.00	0.00	0.01	0.00	6.45		
			2003	0.17	0.20	0.00	0.00	0.00	0.01	0.00	26.24		
			2004	0.14	0.16	0.00	0.00	0.00	0.01	0.00	16.46		
LIBERTY POLYGLAS PULTRUSIONS	LIBERTY POLYGLAS PULTRUSIONS	15122	1996	0.04	0.39		0.02	0.03		0.00	18.24	3083	Laminated Plastics Plate And Sheet
			1997	0.26	0.31		0.02	0.03		0.00	22.40		
			1998	0.17	0.20		0.01	0.02		0.00	10.01		
			1999	0.24	0.28	0.02	0.04	0.08	0.02	0.00	9.85		
			2000	0.23	0.28	0.03	0.06	0.11	0.02	0.00	9.41		
			2001	0.23	0.28	0.03	0.06	0.11	0.02	0.00	6.29		
			2002	0.23	0.28	0.03	0.03	0.11	0.02	0.00	6.29		
			2003	0.23	0.28	0.01	0.98	6.20	0.02	0.00	6.02		
			2004	0.24	0.28	0.01	0.98	6.20	0.02	0.00	7.39		
LIBERTY-PITTSBURGH. SYSTEMS, INC	AN INDUSTRIAL BUILDING	15233	1998								9.73	2752	Commercial Printing Lithograph
			1999								14.99		
			2000								14.74		
			2001								12.97		
			2002	0.03	0.04	0.00	0.00	0.00	0.00	0.00	10.75		
LINDY PAVING (formerly Trumbull)	BITUMINOUS MFG. PLANT	15225	1996	0.02	0.01		0.00				0.01	2951	Paving Mixtures And Blocks
			1998	11.26	1.23		19.20	52.55		6.83	4.24		
			1999	0.45	2.02	2.44	22.94	61.35		0.13	0.14		
			2000	19.68	5.98	2.47	23.39	63.14	0.58	0.64	4.87		
			2001	17.86	6.28	10.97	13.68	48.43	2.27	0.64	4.48		
			2002	20.97	8.91	11.67	14.46	50.65	2.62	0.84	5.35		
			2003	17.36	6.86	11.94	14.24	45.79	2.47	0.66	4.40		
			2004	25.49	8.61	4.06	12.03	40.83	3.68	0.87	9.16		

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2			
LOZIER CORP.	PARTS MANU FOR STEEL FIX.	15234	1996	0.20	0.83		0.39	0.39		0.00	0.02	2542	Metal Partitions And Fixtures
			1997	0.50	0.60		0.35	0.35		0.00	0.03		
			1998	0.46	0.55		0.37	0.35		0.00	0.03		
			1999	0.71	0.85	0.72	0.72	0.72	0.05	0.01	0.05		
			2000	0.71	0.85	0.72	0.72	0.92	0.05	0.01	0.05		
			2001	0.63	0.75	0.01	0.01	0.01	0.04	0.00	0.04		
			2002	0.55	0.65	0.01	0.01	0.01	0.04	0.00	0.04		
			2003	0.55	0.65	0.01	0.01	0.01	0.04	0.00	0.04		
			2004	0.46	0.55	0.01	0.01	0.01	0.03	0.00	0.03		
LTV STEEL CO. PITTSBURGH COKE PLANT	LTV STEEL CO.	15207	1996	650.63	2035.53		405.43	1043.90		1752.07	670.02	3312	Blast Furnaces And Steel Mills
			1997	642.28	1911.18		382.77	973.84		1469.15	623.53		
			1998	84.88	249.26		76.04	183.07		322.71	81.18		
MARATHON ASHLAND PET. - FLOREFFE TERMINAL	ASPHALT TERMINAL	15025	1996	1.09	4.34		0.09	0.09		0.02	9.47	5171	Petroleum Buls k Stations & Terminal
			1997	1.68	2.00		0.04	0.04		0.01	39.94		
			1998	5.34	4.06		0.06	0.06		0.02	24.29		
			1999	5.91	4.95	0.07	0.07	0.07	3.27	0.02	23.40		
			2000	4.50	4.46	0.08	0.08	0.08		0.02	13.76		
			2001	4.07	4.85	0.09	0.09	0.09	0.28	0.03	2.31		
MARSH ASPHALT, INC. DRAVOSBURG PLAN	ASPHALT PLANT	15304	1998	24.81	3.97		5.60	15.37		6.44	2.23	2951	Paving Mixtures And Blocks
			1999	13.84	3.01	1.30	4.79	12.79	0.20	2.92	0.88		
			2000	16.99	2.91	0.37	4.99	13.45	0.53	0.62	0.68		
			2001	16.87	3.30	1.11	7.74	26.68	0.13	0.62	0.68		
			2002	7.75	3.07	4.66	6.45	22.53	0.10	0.55	1.37		
			2003	3.39	6.47	3.66	4.89	19.80	0.32	2.39	3.12		

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2	VOC		
MAYVIEW STATE HOSPITAL	STATE HOSPITAL	15017	1998	6.21	7.42		0.14	0.14		0.05	0.41	8063	Psychiatric
			1999	6.27	7.59	0.16	0.16	0.16	0.43	0.06	0.41		
			2000	10.31	12.29	0.23	0.23	0.23	0.70	0.07	0.68		
			2001	5.93	7.06	0.13	0.13	0.13	0.40	0.04	0.39		
			2002	6.69	8.14	0.16	0.16	0.17	0.46	0.12	0.44		
			2003	6.81	8.56	0.16	0.18	0.21	0.49	0.28	0.45		
			2004	6.33	7.54	0.14	0.14	0.14	0.43	0.12	0.41		
MCCONWAY & TORLEY CORP.	STEEL CASTINGS MANUFACTURER	15201	1998	6.34	10.11		30.10	33.43		3.19	7.66	3325	Steel Foundries, Nec
			1999	13.40	10.54	48.57	59.74	67.83	1.78	3.05	14.05		
			2000	9.55	8.47	23.81	31.56	37.55	1.11	1.65	7.70		
			2001	7.43	5.82	48.36	57.49	65.67	1.00	1.63	2.61		
			2002	7.67	5.70	43.64	50.77	57.01	1.19	1.95	2.91		
			2003	12.97	9.26	56.70	70.34	79.11	2.16	3.36	5.08		
			2004	13.38	9.98	17.72	30.63	49.44	3.24	4.24	7.73		
MEDRAD, INC.	MEDICAL DEVICE MFR	15051	1998									3841	Surgical & Medical Instruments
			1999										
MERCY HOSPITAL F PITTSBURGH	HOSPITAL	15219	1998	5.75	6.85		0.13	0.13		0.04	5.63	8062	General Medica I & Surgical Hospitals
			1999	6.14	7.31	0.14	0.14	0.14	6.14	0.04	2.99		
			2000	6.33	7.53	0.14	0.14	0.14	0.43	0.05	2.93		
			2001	6.18	7.36	0.14	0.14	0.14	0.42	0.04	2.89		
			2002	5.91	7.06	2.99	2.99	2.99	0.40	0.29	3.20		
			2003	6.16	7.36	2.99	3.00	3.00	0.42	0.39	3.13		
			2004	6.37	7.64	3.00	3.00	3.00	0.43	0.15	3.08		
METALTECH	HOT DIP GALVANIZING-STRIP	15219	1998	14.20	16.90		2.00	7.29		0.10	3.17	3479	Metal Coating And Allied Services,nec
			1999	14.91	17.75	0.64	1.56	6.59	1.01	0.11	3.22		
			2000	13.61	16.20	0.61	1.53	6.56	0.92	0.10	2.88		
			2001	14.68	17.48	0.64	1.55	6.60	1.00	0.10	3.13		
			2002	14.15	16.85	0.64	1.62	6.92	0.96	0.10	1.19		
			2003	13.19	15.70	0.62	1.48	6.30	0.89	0.09	2.70		
			2004	14.35	17.08	0.64	1.50	6.32	0.97	0.10	3.17		

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2	VOC		
MID-CONTINENT COAL AND COKE	CLAIRTON SCREENING PLANT	15025	2000	0.10	0.41	0.48	4.79	10.44		0.15	0.00	5052	Coal & Other Minerals & Ores
			2001	0.09	0.37	0.48	4.48	8.32		0.13	0.00		
			2002	0.06	0.24	4.10	7.06	14.26		0.35	0.00		
MOTOR COILS MANUFACTURING COMPANY	BRADDOCK PLANT	15104	1998	0.00	0.00		0.00	0.19		0.00	15.83	3621	Motors And Generators
			1999	0.84	1.00	0.12	0.12	0.12	0.06	0.01	9.12		
			2000	0.50	0.60	0.05	0.05	0.05	0.03	0.00	2.80		
MT. LEBANON HIGH SCHOOL	EDUCATION INSTITUTION	15228	1998	0.50	0.60		0.01	0.01		0.00	0.03	8211	Elementary And Secondary Schools
			1999	1.26	1.50	0.09	1.31	6.52	0.09	0.01	0.08		
			2000	1.32	1.57	0.05	0.12	0.22	0.09	0.01	0.09		
			2001	1.77	2.11	0.06	0.13	0.23	0.12	0.01	0.12		
			2002	1.77	2.11	0.06	0.13	0.23	0.12	0.01	0.12		
			2003	1.62	1.93	0.04	0.04	0.05	0.11	0.01	0.11		
			2004	1.73	2.06	0.04	0.04	0.06	0.12	0.01	0.11		
MULTISERV	SLAG PROCESSING	15104	1998				39.14	103.95				3295	Special Trade Contractors Nec
			1999			8.97	37.24	189.08					
			2000			8.87	35.04	158.94					
			2001			4.85	23.03	78.42					
			2002			6.07	25.20	83.32					
			2003			5.34	26.47	87.85					
			2004			5.55	28.91	104.09					
NATIONAL ENERGY TECHNOLOGY LAB - PGH	NETL - NATIONAL ENERGY TECH	15236	1996	0.17	4.35		0.11	0.38		14.49	0.28	8731	Commercial Physical Research
			1997	0.59	3.30		0.14	0.55		14.49	0.04		
			1998	0.51	4.35		1.61	6.94		14.49	0.28		
			1999	0.82	2.45	0.02	0.11	0.37	0.06	8.75	0.07		
			2000	0.17	0.95	0.01	0.11	0.43	0.01	4.05	0.01		
			2001	0.34	0.89	0.26	1.49	5.43	0.01	3.40	0.02		
			2002	0.36	0.98	0.25	1.35	4.87	0.02	4.38	0.03		
			2003	0.30	1.12	0.34	1.55	5.69	0.01	5.65	0.02		
			2004	0.25	1.26	0.09	0.40	2.27	0.39	6.50	0.02		

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2	VOC		
NEVILLE CHEMICAL CO.	NEVILLE CHEMICAL CO.	15225	1996	17.67	33.03		25.35	29.44		9.24	453.75	2821	Plastics
			1997	19.21	55.90		13.67	21.26		9.99	756.94		Materials And Resins
			1998	28.26	50.63		3.56	10.96		8.99	506.57		
			1999	28.61	51.97	2.25	3.43	10.88	2.00	6.02	397.89		
			2000	29.30	54.72	2.26	3.41	10.90	2.11	6.17	382.68		
			2001	28.35	51.11	2.39	3.43	10.98	2.06	6.55	317.68		
			2002	28.87	57.35	2.63	3.61	11.16	2.12	9.75	266.05		
			2003	31.36	37.61	2.29	3.97	10.72	2.31	4.72	241.06		
			2004	29.22	31.69	2.14	3.42	8.44	2.03	3.32	241.56		
NEVILLE PULVERIZED LIME	AGGREGATE PULVRIZING FCY	15056	1998	0.05	0.23		14.03	21.95		0.02	0.02	3295	Minerals, d
			1999	0.15	0.70	0.56	11.67	18.09		0.05	0.05		Ground Or Treat
			2000	0.21	0.96	0.42	14.13	21.18		0.06	0.07		
			2001	0.25	1.17	0.37	3.75	9.80		0.08	0.10		
			2002	0.25	1.18	4.12	4.12	10.71		0.08	0.09		
			2003	0.31	1.46	4.29	4.29	11.12		0.10	0.11		
			2004	0.41	1.94	5.68	5.68	14.73		0.13	0.14		
NEXTECH	HOT DIP GALVANIZING-STRIP	15145	1998	11.97	14.25		0.97	1.38		0.09	1.52	3479	Metal Coating
			1999	13.49	16.07	0.31	0.31	0.31	0.92	0.10	1.61		And Allied Services,nec
			2000	11.29	13.44	0.26	0.26	0.26	0.77	0.08	1.47		
			2001	10.79	12.84	0.24	0.24	0.24	0.73	0.08	1.04		
			2002	10.16	12.09	0.23	0.23	0.23	0.69	0.07	0.90		
			2003	10.45	12.44	0.24	0.24	0.24	0.71	0.07	0.99		
			2004	10.48	12.47	0.24	0.24	0.24	0.71	0.07	1.10		
NORTH COAST CALIG CORP	NORTH COAST CALIG CORP	15136	1996	0.52	2.46		0.44	1.09		0.01	76.47	3412	Metal Barrels,s
			1997	2.24	2.66		0.05	0.05		0.02	64.00		Drums & Pail
			1998	2.24	2.66		0.05	0.05		0.02	64.00		

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2			
NRG ENERGY CENTER PITTSBURGH	NRG ENERGY CTR PITTSBURGH	15212	1996	19.74	76.39		2.54	2.58		1.94	0.74	4961	Steam Supply
			1997	44.27	67.06		1.00	1.00		0.32	2.90		
			1998	45.53	67.90		1.03	1.03		0.33	2.98		
			1999	46.74	70.29	1.06	1.06	1.06	3.17	0.38	3.06		
			2000	46.12	63.08	1.05	1.09	1.14	3.18	2.25	3.02		
			2001	33.73	47.25	0.78	0.84	0.93	2.37	3.43	2.21		
			2002	31.73	43.93	0.72	0.72	0.72	2.15	0.23	2.08		
			2003	30.76	43.88	1.10	1.11	1.12	2.10	0.59	2.01		
			2004	28.28	40.41	1.33	1.33	1.33	1.92	0.24	1.86		
O. HOMMEL CO.	CERAMIC COATING MANUFACTR	15106	1996	0.09	0.61		0.47	0.50		0.11	2.90	2899	Chemical Preparations, Nec
			1997	0.16	0.32		5.14	5.48		0.01	3.64		
			1998	0.30	0.49		0.79	0.84		0.01	4.12		
			1999	0.42	1.77	0.04	0.99	1.06	0.16	0.01	5.94		
			2000	0.54	0.85	0.10	0.93	0.99	0.03	0.01	7.82		
			2001	0.50	0.79	0.32	0.66	0.70	0.03	0.00	4.20		
ORION POWER MIDWEST BRUNOT ISLAND	ELECTRICAL GENERATING	15204	1996	1.08	15.65		0.85	0.85		4.53	0.50	4911	Electric Services
			1997	2.60	37.84		2.06	2.06		10.95	1.07		
			1998	7.20	104.69		5.70	5.70		18.18	2.99		
			1999	10.84	157.59	8.58	8.58	8.58	5.19	31.70	4.27		
			2000	0.44	116.94	0.57	0.57	0.57	0.96	16.38	0.07		
			2001	0.65	57.73	0.35	0.35	0.35	0.21	1.38	0.30		
			2002	31.92	18.82	0.33	1.72	1.72	0.75	1.14	38.44		
			2003	33.20	38.22	2.14	2.14	2.14	0.59	1.03	22.56		
			2004	23.83	23.02	1.44	1.44	1.44	0.50	3.50	26.04		

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Facility Name	Description Line	ZIP	Year of Inventory	Facility Criteria Emissions								Industrial Code	SIC Description
				CO	NOx	PM2.5	PM10	PT	PMCond	SO2	VOC		
ORION POWER MIDWEST, CHESWICK STATION	CHESWICK POWER STATION	15024	1996	1024.34	5957.35		291.02	1419.15		37094.67	4.37	4911	Electric Services
			1997	341.98	6906.84		449.69	897.28		42538.16	14.15		
			1998	761.84	4917.81		323.10	710.13		32421.78	9.98		
			1999	968.95	4762.75	196.38	342.89	679.22	450.96	38171.03	35.74		
			2000	840.56	6385.36	152.11	295.27	428.35	512.67	45143.45	39.45		
			2001	844.35	6751.05	116.64	307.66	887.02	438.68	49013.38	13.32		
			2002	298.92	5761.73	88.92	221.51	596.09	501.30	42018.35	10.69		
			2003	375.71	4704.70	186.51	394.44	935.06	430.07	45432.80	13.01		
			2004	322.77	4928.01	127.59	293.68	724.77	498.25	40982.82	11.32		
ORION POWER MIDWEST PHILLIPS STATION	ORION POWER MIDWEST, PHIL	15081	1996	0.31	1.24		0.12	0.12		1.76	0.06	4911	Electric Services
			1997	0.33	1.32		0.13	0.26		1.88	0.05		
			1998	0.21	0.84		0.08	0.17		1.75	0.10		
			1999	0.31	1.49	0.03	0.12	0.25	0.08	1.16	0.11		
			2000	0.21	1.00	0.02	0.08	0.17	0.05	0.78	0.02		
			2001	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01		
			2002	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01		
PANNIER CORP. GRAPHICS DIVISION	GRAPHIC SIGNAGE	15044	1999	0.10	0.12	0.00	0.00	0.00	0.01	0.00	9.13	3083	Laminated Plastics Plate And Shee
			2000	0.11	0.14	0.00	0.00	0.00	0.01	0.00	10.84		
			2001	0.10	0.12	0.00	0.00	0.00	0.01	0.00	7.94		
			2002	0.09	0.11	0.00	0.00	0.00	0.01	0.00	7.77		
			2003	0.09	0.11	0.00	0.00	0.00	0.01	0.00	8.64		
			2004	0.10	0.12	0.00	0.00	0.00	0.01	0.00	10.58		
PARC TECHNICAL SERVICES, INC.	FUEL & LUBRICANT RESEARCH	15238	1998	13.47	0.76		0.50			0.68	2.85	8734	Testing Laboratories
			1999	62.11	3.60	0.30	0.34	0.25		0.08	3.57		
			2000	3.97	6.44	0.20	0.20	0.24		0.15	4.24		
			2001	0.93	1.49	0.11	0.11	0.11		0.07	1.71		
			2002	0.24	1.50	1.01	1.01	1.01		0.08	4.15		
			2003	0.92	5.75	3.80	3.80	3.80		0.35	6.17		
			2004	1.44	1.64	0.12	0.12	0.12		0.08	4.36		

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2	VOC		
PENN-RILLTON CO.	PENN-RILLTON CO.	15088	1998	0.08	0.10		0.23	0.23		0.00	0.01	3999	Manufacturing Industries, Nec
PENNSYLVANIA ELECTRIC COIL LTD	MFG MTR COILS & REP MTRS	15015	1996	0.21	1.05		0.97	1.78		0.01	5.77	7694	Electrical Equipment & Supply
			1997	1.02	1.23		0.33	0.33		0.01	14.69		
			1998	1.09	1.29		1.24	2.78		0.01	15.05		
			1999	1.30	1.65	0.14	0.33	0.85	1.28	0.01	10.40		
			2000	1.30	1.65	0.08	0.47	1.94	0.09	0.01	9.20		
			2001	0.36	0.43	0.01	0.01	0.01	0.02	0.00	0.74		
			2002	0.57	0.74	0.01	0.03	0.08	0.04	0.01	2.67		
			2003	0.57	0.68	0.01	0.01	0.01	0.04	0.00	2.38		
			2004	0.55	0.66	0.01	0.01	0.01	0.04	0.00	3.25		
PHILIP SERVICES DUQUESNE BRICKETTING	BRICKETTING MANUFACTURER	15110	1998	0.20	0.23		22.68	45.36		0.00	14.17	2819	Industrial Inorganic Chemicals
			1999	0.18	0.21	20.84	20.84	22.92	0.01	0.00	12.75		
PITT PENN OIL CO.	PITT PENN OIL CO.	15030	1996	0.03	0.11		0.76	0.76		0.00	15.53	2992	Lubricating Oils And Greases
			1997	0.05	0.21		0.98	2.75		0.00	19.35		
			1998	0.16	0.19		0.86	2.48		0.00	16.91		
			1999	1.30	1.82	0.06	0.63	3.05	0.01	0.00	20.12		
			2000	1.38	1.94	0.16	0.68	3.27	0.01	0.00	20.74		
			2001	1.05	1.47	0.05	0.38	1.17	0.01	0.00	14.51		
			2002	1.02	1.50	0.10	0.43	2.05	0.01	0.00	7.78		
			2003	0.92	1.35	0.01	0.05	0.05	0.01	0.00	4.83		
			2004	0.98	1.44	0.05	0.05	0.05	0.01	0.00	4.59		
PITTSBURGH ALLEGHENY COUNTY THERMAL, LTD	PITTSBURGH ALLEGHENY COUNTY	15222	1996	19.40	94.29		1.46	1.47		0.74	0.68	4961	Steam Supply
			1997	36.20	120.68		0.82	0.82		0.26	2.37		
			1998	31.96	106.55		0.72	0.72		0.25	2.09		
			1999	35.73	119.10	0.81	0.81	0.82	2.43	0.34	2.34		
			2000	36.40	121.39	0.83	0.84	0.85	2.48	0.54	2.38		
			2001	34.06	87.85	0.77	0.79	0.81	2.40	0.54	2.24		
			2002	35.53	91.04	0.80	0.80	0.80	2.41	0.25	2.33		
			2003	38.10	94.77	0.86	0.88	0.89	2.66	0.39	2.50		

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2	VOC		
PITTSBURGH BREWING CO. PITTSBURGH	PITTSBURGH. BREWING CO	15201	1996	22.24	30.42		24.67	64.75		101.24	5.86	2082	Malt Beverages
			1997	12.91	16.00		12.89	33.81		50.46	3.96		
			1998	16.54	20.56		16.55	43.64		68.90	4.30		
			1999	11.83	17.80	2.79	12.03	31.50	2.03	42.28	4.26		
			2000	17.10	21.18	3.47	15.84	41.70	0.32	58.61	4.24		
			2001	16.62	20.55	3.09	14.37	37.77	0.35	45.60	3.39		
			2002	22.54	28.03	4.56	21.82	57.74	0.30	77.91	3.47		
			2003	24.54	30.63	5.09	25.45	67.44	0.21	114.92	3.57		
			2004	23.19	28.93	8.28	21.54	57.73	3.91	94.63	3.31		
PITTSBURGH ELECTRICAL INSULATION	MFG&DIST ELEC INSULATION	15120	1997	0.07	0.08		0.00	0.00		0.00	10.78	5065	Electronic Parts And Equipment
			1998	0.07	0.08		0.00	0.00		0.00	5.54		
			1999	0.07	0.08	0.00	0.00	0.00	0.00	0.00	5.54		
			2000	0.06	0.07	0.01	0.01	0.01		0.00	9.52		
			2001	0.15	0.18	0.00	0.00	0.00		0.00	0.62		
			2002	0.06	0.07	0.00	0.00	0.00		0.00	0.76		
			2003	0.07	0.09	0.00	0.00	0.00		0.00	0.31		
			2004	0.71	0.85	0.02	0.02	0.02		0.01	0.50		
PITTSBURGH IAP/ARS	National Security	15108	2004	8.08	10.95	1.94	2.00	2.41	0.10	0.39	1.89	9711	National Security
PITTSBURGH TERMINALS CORP NEVILLE ISLAND		15225	1996	0.09	0.39		4.62	7.82		0.03	59.71	5171	Petroleum Bulk
		15225	1997								66.07	5171	Stations & Terminals
			1998								63.64		
			1999	0.28	0.45		0.03	0.03		0.03	68.43		
			2000	0.28	0.45	0.00	0.03	0.03		0.03	59.60		
			2001	0.28	0.45	0.00	0.03	0.03		0.03	38.89		
			2002	0.28	0.45	0.03	0.03	0.03		0.03	39.87		
			2003	0.30	0.47	0.03	0.03	0.03		0.03	28.10		
			2004	0.30	0.47	0.03	0.03	0.03		0.03	23.30		

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2			
PITTSBURGH TERMINALS CORP. - CORAOPOLIS	MOTIVA ENTERPRISES LLC	15108	1996	6.10	2.40			0.00		0.00	38.53	5171	Petroleum Bulk Stations & Terminals
			1997	2.46	6.18		0.00	0.01		0.02	68.25		
			1998	6.36	2.62		0.00	0.00		0.02	55.45		
			1999	6.32	2.63	0.00	0.00	0.00	0.01	0.02	46.24		
			2000	7.71	3.16	0.00	0.00	0.00	0.01	0.01	59.48		
			2001	7.83	3.22	0.00	0.00	0.01	0.01	0.03	58.78		
			2002	7.57	3.14	0.00	0.00	0.01	0.01	0.04	52.73		
			2003	8.27	3.42	0.00	0.00	0.00	0.01	0.04	37.11		
			2004	9.03	3.66	0.00	0.00	0.00	0.00	0.00	42.87		
PPG INDUSTRIES - CHEMICALS TECHNICAL CTR	CHEMICAL R&D FACILITY	15146	1998	1.68	2.00		0.04	0.04		0.01	9.82	2812	Alkalies And Chlorine
			1999	1.68	2.00	0.04	0.04	0.04	1.68	0.01	14.51		
			2000	1.68	2.00	0.04	0.04	0.04	0.11	0.01	8.17		
			2001	2.48	2.95	0.06	0.06	0.06	0.17	0.02	9.92		
			2002	1.97	2.35	0.04	0.04	0.04	0.13	0.01	12.72		
			2003	1.97	2.35	0.04	0.04	0.04	0.13	0.01	15.63		
			2004	1.97	2.35	0.04	0.04	0.04	0.13	0.01	15.47		
PPG INDUSTRIES, INC.	FIBER GLASS RESEARCH CTR.	15238	1998	6.25	40.07		5.38	5.55		5.92	0.36	3231	Products Of Purchased Glass
PPG INDUSTRIES, INC. SPRINGDALE	PPG INDUSTRIES, INC.	15144	1996	2.89	11.58		2.51	2.51		0.05	202.75	2851	Paints And Allied Products
			1997	6.12	7.95		1.74	1.74		0.05	312.41		
			1998	7.03	7.31		2.25	2.25		1.12	296.88		
			1999	6.74	6.94	2.09	2.09	2.09	4.38	1.13	254.16		
			2000	7.17	6.54	3.00	3.01	3.01	7.29	2.05	234.24		
			2001	6.36	5.61	0.36	2.67	2.67	6.49	2.00	200.10		
			2002	2.90	5.75	0.35	3.01	3.01	6.28	1.77	223.72		
			2003	4.52	3.96	2.33	2.33	2.33	5.18	1.46	165.09		
			2004	2.85	2.26	2.02	2.41	2.41	0.13	1.15	134.03		

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2			
PRECOAT METALS, A DIV. OF SEQUA COATINGS	PRECOAT METALS	15132	1996	3.07	12.51		0.56	0.56		0.06	56.96	3479	Metal Coatingc And Allied Services,ne
			1997	10.04	11.95		0.23	0.23		0.07	68.42		
			1998	6.91	8.22		0.16	0.16		0.05	46.17		
			1999	8.72	10.39	0.20	0.20	0.20	0.59	0.06	48.54		
			2000	8.87	10.56	0.20	0.20	0.20	0.59	0.06	41.73		
			2001	12.24	14.57	0.28	0.28	0.28	0.81	0.09	47.35		
			2002	9.40	11.19	0.21	0.21	0.21	0.62	0.07	50.20		
			2003	12.16	14.47	0.27	0.27	0.27	0.81	0.09	56.59		
			2004	9.46	11.26	0.21	0.21	0.21	0.63	0.07	58.39		
PRESSURE CHEMICAL CO.	CHEMICAL PRODUCTION PLANT	15201	1996	0.09	0.41		0.02	0.02		0.00	14.80	2869	Industria I Organic Chemicals,nec
			1997	1.51	1.80		0.03	0.03		0.01	20.80		
			1998	0.34	0.40		0.01	0.01		0.00	26.12		
			1999	0.06	0.07	0.00	0.00	0.00	0.00	0.00	26.20		
			2000	0.40	0.48	0.01	0.01	0.01	0.03	0.00	29.73		
			2001	0.34	0.41	0.01	0.01	0.01	0.02	0.00	24.02		
			2002	0.42	0.50	0.01	0.01	0.01	0.03	0.00	22.03		
			2003	0.46	0.55	0.01	0.01	0.01	0.03	0.00	22.03		
			2004	0.48	0.58	0.01	0.01	0.01	0.03	0.00	18.82		
PRUETT-SCHAFFER . CHEMICAL CO., INC	PRUETT-SCHAFFER CHEMICAL CO., INC	15204	1996	0.01	0.07		1.01	1.19		0.00	3.52	2851	Paints And Allied Products
			1997	0.04	0.05		0.83	0.98		0.00	3.88		
			1998	0.04	0.05		1.02	1.20		0.00	3.70		
			1999	0.06	0.07	0.11	1.07	1.26	0.06	0.00	4.59		
			2000	0.05	0.06	0.11	1.03	1.22	0.00	0.00	6.82		
			2001	0.10	0.12	0.09	0.92	1.08	0.00	0.00	6.21		
			2002	0.12	0.14	0.76	0.76	0.89	0.01	0.00	3.89		
			2003	0.17	0.19	0.48	0.48	0.56	0.01	0.00	3.72		
			2004	0.18	0.20	0.55	0.55	0.65	0.01	0.00	4.11		

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2			
RANBAR TECHNOLOGY INC.	RANBAR TECHNOLOGY INC.	15116	1996	0.29	1.40		2.06	2.06		0.00	17.96	2851	Paints And Allied Product
			1997	1.18	1.40		2.45	2.72		0.01	18.98		
			1998	1.01	1.20		0.92	0.92		0.01	15.10		
			1999	1.09	1.30	0.97	1.68	1.68	0.07	0.01	16.26		
			2000	1.08	1.28	0.09	0.64	0.65	0.07	0.01	16.61		
			2001	1.02	1.22	0.08	0.61	0.61	0.07	0.01	15.86		
			2002	1.09	1.30	0.66	0.66	0.66	0.07	0.01	18.90		
			2003	0.82	0.97	0.41	0.41	0.41	0.06	0.01	8.95		
			2004	0.20	0.24	0.01	0.01	0.01	0.01	0.00	0.57		
REDLAND BRICK INC HARMAR PLANT	BRICK MANUFACTURER	15024	1998	47.24	14.58		13.47	19.12		23.69	1.73	3251	Brick And Structural Clay Tile
			1999	21.72	8.79	1.21	9.91	12.37		57.32	1.57		
			2000	24.60	14.90	1.14	11.07	15.37	18.07	83.98	2.04		
			2001	25.21	12.76	1.19	11.33	18.50	11.57	41.69	1.82		
			2002	56.11	29.29	15.59	20.82	31.48	3.96	2.78	3.21		
			2003	58.81	31.52	17.07	19.38	27.76	5.30	38.31	3.32		
			2004	65.49	35.20	17.53	21.84	32.06	13.03	22.86	5.84		
REICHHOLD, INC.	REICHHOLD, INC.	15017	1996	5.20	20.79		0.93	0.96		0.47	14.85	2821	Plastics Materials And Resins
			1997	11.07	13.53		19.46	19.83		0.08	9.01		
			1998	10.58	12.60		27.26	27.69		0.08	7.66		
			1999	10.66	17.14	2.93	27.14	27.15	2.25	0.08	7.95		
			2000	10.65	12.75	2.14	19.18	19.18	0.72	0.08	4.91		
			2001	9.75	11.62	2.15	19.08	19.07	0.66	0.25	3.87		
			2002	9.93	11.83	19.20	19.20	19.20	0.67	0.07	12.32		
			2003	9.06	12.05	19.13	19.17	19.24	0.68	11.46	14.87		
			2004	22.60	20.78	12.06	12.06	12.06	0.59	0.783704	16.04		

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Facility Name	Description Line	ZIP	Year of	CO	NOx	Facility Criteria Emissions						Industrial	SIC Description
			Inventory			PM2.5	PM10	PT	PMCond	SO2	VOC		
ROYSTON LABORATORIES DIVISION	COATING	15238	1996	0.05	0.27		0.04	0.03		0.00	7.09	2891	Adhesives And Sealants
	MANUFACTURER		1997	0.01	0.01		0.03	0.05		0.00	6.22		
			1998	0.01	0.01		0.02	0.05		0.00	5.33		
			1999	0.04	0.04	0.02	0.02	0.04	0.00	0.00	4.78		
			2000	0.04	0.05	0.01	0.05	0.05	0.00	0.00	7.19		
			2001	0.03	0.04	0.01	0.10	0.10	0.00	0.00	9.60		
			2002	0.03	0.04	0.09	0.09	0.09	0.00	0.00	6.09		
			2003	0.04	0.05	3.14	3.14	3.14	0.00	0.00	6.38		
			2004	0.05	0.05	3.40	3.40	3.40	0.00	0.00	6.47		
SANYO . CHEMICAL & RESIN, INC	SANYO	15088	2001			0.02	0.25	0.25		3.40	2821	Plastics Materials And Resins	
	JEFFERSON SITE		2002			0.19	0.19	0.19		3.17			
			2003			0.12	0.12	0.16		3.60			
			2004			1.76	1.76	1.79		8.37			
SCHENLEY SCHOOL	SCHENLEY SCHOOL	15213	1998	0.84	1.00		0.02	0.02		0.01	0.06	8211	Elementary And Secondary Schools
			1999	0.91	1.08	0.02	0.02	0.02	0.06	0.01	0.06		
			2000	0.85	1.02	0.02	0.02	0.02	0.06	0.01	0.06		
			2001	0.77	0.91	0.02	0.02	0.02	0.05	0.01	0.05		
			2002	0.97	1.15	0.02	0.02	0.02	0.07	0.01	0.06		
			2003	1.02	1.21	0.02	0.02	0.02	0.07	0.01	0.07		
			2004	0.93	1.11	0.02	0.02	0.02	0.06	0.01	0.06		
SERVSTEEL, INC.	REFRACTORY MANUFACTURER	15064	1998	1.47	1.75		0.86	0.55		0.01	1.67	3255	Clay Refractories
			1999	1.34	1.59	0.53	0.53	0.53	2.02	2.26	1.93		
			2000	1.27	1.51	0.43	0.43	0.43	3.05	4.72	3.05		
			2001	1.16	1.38	0.42	0.42	0.42	2.78	3.01	2.77		

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2	VOC		
SHALER AREAL INTERMEDIATE SCHOOL	EDUCATIONAL COMPLEX	15116	1998	0.42	0.50		0.01	0.01			0.03	8299	Schools & Educational Services
			1999	0.42	0.50	0.01	0.01	0.01	0.03		0.03		
			2000	0.42	0.50	0.01	0.01	0.01	0.03		0.03		
			2001	0.42	0.50	0.01	0.01	0.01	0.03	0.00	0.03		
			2002	0.42	0.50	0.01	0.01	0.01	0.03	0.00	0.03		
			2003	0.42	0.50	0.01	0.01	0.01	0.03	0.00	0.03		
			2004	0.42	0.50	0.01	0.01	0.01	0.03	0.00	0.03		
SHENANGO INC.	SHENANGO COKE PLANT	15225	1996	191.49	442.75		66.28	250.68		2192.73	38.87	3312	Blast Furnaces And Steel Mills
			1997	208.02	462.69		55.03	197.48		1030.02	44.49		
			1998	199.52	477.03		133.52	271.76		1092.19	44.30		
			1999	254.08	427.58	46.46	63.31	180.96		496.92	45.42		
			2000	390.61	454.38	46.13	71.02	244.29	14.48	493.29	43.93		
			2001	389.38	424.50	38.23	68.44	244.75	11.82	468.80	37.44		
			2002	364.95	465.20	38.96	63.56	252.98	29.94	307.78	27.39		
			2003	371.42	422.71	38.79	58.71	180.55	30.92	349.38	24.29		
SOUTH HIGH SCHOOL	SOUTH HIGH SCHOOL	15203	1998	0.51	0.65		0.01	0.01		0.00	0.04	8211	Elementary And Secondary School
			1999	0.59	0.70	0.01	0.01	0.01	0.04	0.00	0.04		
			2000	0.71	0.85	0.02	0.02	0.02	0.05	0.01	0.05		
			2001	0.61	0.73	0.01	0.01	0.01	0.04	0.00	0.04		
			2002	0.69	0.83	0.02	0.02	0.02	0.05	0.00	0.05		
			2003	0.65	0.77	0.01	0.01	0.01	0.04	0.00	0.04		
			2004	0.66	0.78	0.01	0.01	0.01	0.04	0.00	0.04		
STATE CORRECTIONAL . INSTITUTION -- PGH	STATE CORRECTIONAL INSTIT	15233	1996	8.64	13.99		16.68	82.63		34.16	0.53	9223	Correctional Institutions
			1997	11.12	13.67		11.85	19.82		40.78	0.60		
			1998	11.12	13.77		3.63	4.92		40.78	0.60		
			1999	11.56	14.35	0.30	3.97	5.38	0.13	44.77	0.58		
			2000	10.97	13.82	0.30	3.79	5.13	0.12	42.55	0.78		
			2001	7.68	9.61	0.21	2.29	3.09	0.18	25.49	0.57		
			2002	6.83	8.56	0.19	2.03	2.74	0.13	22.59	5.23		
			2003	8.94	12.07	0.32	2.77	3.71	0.19	30.20	0.29		
			2004	12.52	15.74	0.34	4.87	6.61	2.12	55.28	0.12		

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2	VOC		
SUBURBAN GENERAL HOSPITAL	HOSPITAL	15202	1996	1.57	3.89		0.81	1.47		0.66	2.28	8062	General Medical & Surgical Hospitals
			1997	2.70	3.23		0.73	1.44		0.66	1.83		
			1998	2.87	3.43		0.74	1.45		0.67	1.97		
			1999	1.80	2.15	0.06	0.10	0.16	0.12	0.07	1.07		
			2000	1.56	1.86	0.04	0.04	0.04	0.11	0.01	0.80		
SUN REFINING AND MARKETING, SUN REFINING AND BLAWNOX	MARKETING	15238	1996								29.42	5171	Petroleum Bulk Stations & Terminals
			1997	1.18	0.47		0.00	0.00		0.00	7.84		
			1998	0.03	0.03		0.00	0.00		0.00	2.48		
			1999	0.03	0.03	0.00	0.00	0.00	0.00	0.00	3.23		
			2000	0.03	0.03	0.00	0.00	0.00	0.00	0.00	3.08		
			2001	0.13	0.16	0.00	0.00	0.00	0.01	0.00	2.22		
			2002	0.13	0.16	0.00	0.00	0.00	0.01	0.00	3.01		
			2003	0.13	0.16	0.00	0.00	0.00	0.01	0.00	3.03		
			2004	0.12	0.15	0.00	0.00	0.00	0.01	0.00	3.35		
SUNOCO CHEMICALS INC.. NEVILLE ISLAND	MANUFACTURE OF PLASTICIZER	15225	1996	49.30	5.40		2.93	7.34		0.10	90.34	2869	Industrial Organic Chemicals,nec
			1997	44.80	5.10		3.56	3.56		0.03	68.39		
			1998	44.80	5.10		4.02	7.42		0.03	39.89		
			1999	44.80	5.10	3.19	3.81	7.28	0.22	0.03	37.10		
			2000	18.49	2.87	3.00	3.26	4.72	0.03	0.03	16.02		
			2001	0.05	0.00	0.24	2.56	2.60		0.00	8.01		
			2002	4.01	0.10	0.53	0.60	0.96		0.01	12.11		
			2003	7.64	0.20	2.64	2.71	3.10		0.01	11.00		
			2004	8.74	0.23	2.48	2.49	2.51		0.01	29.72		

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2			
SUNOCO, INC -PGH TERMINAL	GASOLINE TERMINAL	15201	1996								38.27	5171	Petroleum Bulk Stations & Terminals
			1997								41.27		
			1998								45.44		
			1999								42.00		
			2000								46.13		
			2001								54.37		
			2002								50.21		
			2003								21.00		
			2004								24.24		
THE LANE CONSTRUCTION BRIDGEVILLE	BRIDGEVILLE PLANT	15017	1996	3.62	3.20		0.11	0.46		20.27	0.97	2951	Paving Mixtures And Blocks
			1997	2.58	15.47		27.78	102.78		93.23	7.55		
			1998	3.13	6.34		11.45	29.05		20.14	2.06		
			1999	3.42	8.84	1.01	9.96	24.79	2.47	36.93	2.12		
			2000	3.25	9.50	0.71	6.96	20.20	1.16	47.43	1.93		
			2001	1.11	11.82	1.44	14.27	34.84	1.60	73.75	0.87		
			2002	1.32	25.48	4.14	4.14	18.89	1.04	29.07	6.45		
			2003	1.24	25.42	3.67	3.67	17.98	1.04	28.87	6.38		
			2004	33.01	21.27	0.27	0.35	1.05	0.33	26.98	3.69		
THE LANE CONSTRUCTION CORP SPRINGDALE	CRUSHING AGGREGATES- RIVER	15144	1996				61.50	61.50				1442	Construction Sand And Gravel
			1997				3.20	13.53					
			1998				6.54	17.06			0.11		
			1999	5.33	13.05	0.74	9.13	27.09	0.49	0.10	0.20		
			2000	5.80	14.20	1.11	9.35	33.32	0.35	0.11	0.21		
			2001	0.12	0.29	0.15	1.18	2.61	0.05	0.00	0.09		

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2	VOC		
THE LANE MCKEES ROCK ASPHALT PLANT	ASPHALT BATCH MIX PLANT	15136	1996	2.83	5.69		14.47	51.64		24.98	0.68	2951	Paving Mixtures And Blocks
			1997	114.48	6.18		82.21	537.32		79.19	15.63		
			1998	31.31	15.47		12.24	31.56		82.17	2.66		
			1999	6.24	16.12	1.45	11.27	15.16	4.32	90.88	3.45		
			2000	4.64	13.07	0.97	9.57	13.04	1.62	85.82	2.64		
			2001	2.66	18.74	2.06	20.23	27.48	3.52	146.76	5.65		
			2002	1.56	27.57	4.43	4.44	4.46	0.67	22.43	5.40		
			2003	1.48	36.60	4.94	4.95	27.99	0.67	29.22	6.90		
			2004	61.69	40.33	0.36	0.52	1.66	0.40	21.51	4.42		
THE VALSPAR CORPORATION	VALSPAR COATINGS	15233	1996	0.42	1.68		0.76	1.08		0.08	46.01	2851	Paints And Allied Products
			1997	1.26	1.50		0.72	0.72		0.01	46.82		
			1998	1.63	1.95		0.32	0.31		0.01	42.51		
			1999	1.80	2.14	0.50	2.54	2.98	0.05	0.01	47.93		
			2000	2.10	2.50	0.29	2.54	2.99	0.04	0.01	47.68		
			2001	1.58	1.88	0.43	4.00	4.70	0.03	0.01	18.45		
			2002	1.75	2.08	3.04	3.04	3.57	0.04	0.01	16.44		
			2003	1.81	2.15	2.80	2.80	3.29	0.04	0.01	17.47		
			2004	1.75	2.08	0.50	0.50	0.58	0.04	0.01	17.19		
TRINITY INDUSTRIES PLANT 112	RAILCAR AXLE FORGINGS	15136	1998	22.30	26.55		1.31	1.59		0.16	1.46	3462	Iron And Steel Forgings
			1999	21.46	25.55	1.29	1.29	1.29	1.46	0.15	1.41		
			2000	12.59	14.99	1.09	1.09	1.09	0.85	0.09	0.82		
			2001	4.16	4.94	0.09	0.09	0.09	0.28	0.03	0.27		
			2002	6.28	7.48	0.13	0.13	0.13	0.40	0.04	0.39		
			2003	17.39	20.70	0.39	0.39	0.39	1.11	0.12	1.14		
			2004	24.80	30.07	1.05	1.17	1.79	1.72	0.18	1.66		
TRINITY INDUSTRIES, INC. PLT # 441	RAILCAR MAINTENANCE	15136	1998	0.89	1.06		1.10	1.33		0.01	8.01	4789	Transportation Services, Nec
			1999	0.89	1.06	0.96	1.10	1.88	0.06	0.01	14.31		
			2000	0.89	1.06	1.02	1.16	1.94	0.06	0.01	14.88		
			2001	0.28	0.33	0.12	0.12	0.92	0.02	0.00	9.10		
			2002	0.28	0.33	0.12	0.12	0.92	0.02	0.00	9.10		

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2	VOC		
TUBE CITY, INC.	SCRAP METAL PROCESSOR	15236	1998	0.11	0.40		5.80	13.15		0.00	0.25	5093	Scrap And Waste Materials
			1999	0.04	0.05	1.29	3.71	12.22	0.00	0.00	0.03		
			2000	0.04	0.05	1.29	3.71	12.22	0.00	0.00	0.03		
			2001	0.05	0.07	0.58	3.13	5.74	0.00	0.00	0.01		
			2002	0.05	0.07	0.65	3.08	5.72	0.00	0.00	0.01		
			2003	0.07	0.08	0.65	3.08	5.72	0.00	0.00	0.01		
			2004	0.15	0.17	1.17	7.73	15.99	0.01	0.00	0.01		
UNION ELECTRIC STEEL CORP.	HARDENING OF STEEL	15106	1998	4.16	4.95		0.09	0.09		0.03	1.45	3547	Rolling Mil I Machinery
			1999	3.38	4.02	0.08	0.08	0.08	0.23	0.02	3.94		
			2000	4.03	4.80	0.09	0.09	0.09	0.27	0.03	4.36		
			2001	3.69	5.89	0.08	0.08	0.08	0.25	0.03	5.54		
			2002	4.47	7.15	0.10	0.10	0.10	0.30	0.03	5.54		
			2003	5.06	6.02	0.11	0.11	0.11	0.34	0.04	5.15		
			2004	5.37	6.39	0.12	0.12	0.12	0.36	0.04	5.17		
UNITED REFINING CO. SPRINGDALE	ASPHALT STORAGE& TERMINAL	15144	1998	2.37	4.32		0.16	0.10		2.90	0.76	2951	Paving s Mixtures And Block
			1999	1.40	3.08	0.04	0.10	0.18	0.17	6.40	0.15		
			2000	0.87	1.20	0.02	0.03	0.04	0.07	0.67	0.13		
			2001	1.10	1.65	0.03	0.04	0.06	0.09	1.35	0.19		
			2002	0.59	0.70	0.01	0.01	0.01	0.04	0.00	0.11		
			2003	4.47	17.05	0.22	0.84	1.68	1.11	59.29	0.56		
			2004	0.33	0.54	0.01	0.02	0.02	0.03	0.58	0.07		
UNIV OF PITT APPLIED RESEARCH CTR- UPARC	OFFICE, LAB, INDUST. SITE	15238	1998	9.89	8.09		0.35	0.71		0.06	0.56	8741	Management Services
			1999	9.92	7.98	0.17	0.22	0.33	0.46	0.06	0.59		
			2000	9.07	8.64	0.18	0.21	0.27	0.49	0.06	0.56		
			2001	9.08	8.64	0.18	0.21	0.27	0.49	0.06	0.56		
			2002	9.11	8.71	0.18	0.21	0.27	0.49	0.06	0.57		
			2003	9.70	9.41	0.19	0.22	0.29	0.53	0.07	0.61		
			2004	7.25	8.65	0.17	0.17	0.17	0.49	0.05	0.48		

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2	VOC		
UNIVERSAL STAINLESS & ALLOY PRODUCTS	UNIVERSAL STAINLESS	15017	1996	65.69	28.44		22.24	22.24		1.54	8.25	3312	Blast Furnaces And Steel Mills
			1997	130.57	34.01		44.91	69.54		0.49	13.53		
			1998	112.24	32.51		38.57	59.99		0.43	11.59		
			1999	112.67	32.52	14.20	36.02	55.27	1.71	0.43	11.48		
			2000	113.36	33.22	14.82	29.60	60.74	1.75	0.44	11.26		
			2001	124.17	52.43	13.01	23.27	30.23	1.80	4.58	13.36		
			2002	111.26	45.37	12.10	21.53	27.80	1.56	3.93	11.98		
			2003	104.04	45.59	11.70	20.76	31.00	1.62	3.79	11.14		
			2004	149.67	44.01	13.74	24.19	35.48	1.10	5.15	16.01		
UNIVERSITY OF PITTSBURGH (MAIN CAMPUS)	UNIVERSITY	15213	2002	4.08	5.70	0.17	0.17	0.17	0.34	0.10	6.10	8221	Colleges And Universities, Nec
			2003	3.60	4.93	0.14	0.14	0.14	0.29	0.22	4.99		
			2004	3.39	4.61	0.13	0.13	0.13	0.27	0.07	4.47		
UPMC MAGEE HOSPITAL	MED. SERVICES FOR WOMEN	15213	1998	4.59	5.18		0.12	0.12		0.10	1.70	8062	General Medical & Surgical Hospitals
			1999	5.14	6.05	0.12	0.08	0.12	0.34	0.07	1.69		
			2000	5.27	6.27	0.13	0.09	0.13	0.36	0.08	1.70		
			2001	5.31	6.55	0.14	0.14	0.14	0.36	0.14	1.72		
			2002	5.42	7.00	0.17	0.17	0.53	0.37	0.88	1.75		
			2003	5.40	6.94	0.16	0.17	0.17	0.36	0.66	1.75		
			2004	5.40	6.96	0.14	0.14	0.14	0.36	0.56	1.51		
UPMC MCKEESPORT	HOSPITAL	15132	1998	5.68	7.49		0.08	0.08		0.18	4.11	8062	General Medical & Surgical Hospitals
			1999	5.55	7.59	0.11	0.11	0.11	0.20	0.13	3.53		
			2000	3.17	4.51	0.15	0.15	0.15	0.22	0.64	2.73		
			2001	3.46	8.78	0.24	0.28	0.36	0.30	3.90	4.43		
			2002	2.94	8.97	0.21	0.21	0.21	0.15	0.22	3.33		
			2003	4.70	13.64	0.29	0.32	0.35	0.27	1.28	3.15		
			2004	5.02	13.83	0.27	0.28	0.28	0.26	0.11	3.93		

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2	VOC		
UPMC OAKLAND CAMPUS	HEALTH CARE FACILITY	15213	1998	6.13	7.31		0.12	1.11		0.48	2.22	8062	General Medical & Surgical Hospitals
			1999	6.61	7.89	0.13	0.13	1.56	0.38	0.68	2.35		
			2000	6.34	7.57	0.23	0.64	1.33	0.37	0.56	2.59		
			2001	6.03	7.50	0.27	0.88	1.65	0.34	0.74	2.76		
			2002	5.86	7.13	0.23	0.71	1.29	0.35	0.58	1.98		
			2003	5.45	6.63	0.12	0.14	0.15	0.37	0.07	1.55		
			2004	5.23	6.30	0.12	0.16	0.15	0.35	0.05	1.46		
UPMC SHADYSIDE	HOSPITAL & MEDICAL CENTER	15232	1998	8.36	24.06		0.92	0.92		0.43	4.35	8062	General Medica I & Surgical Hospitals
			1999	7.77	14.26	0.60	1.42	1.42	0.39	0.58	2.59		
			2000	7.43	11.46	0.42	0.50	0.61	0.44	0.38	2.53		
			2001	6.70	9.26	0.26	0.26	0.26	0.42	0.42	2.37		
			2002	10.18	13.44	0.33	0.33	0.33	0.65	0.45	1.51		
			2003	11.21	13.81	0.29	0.29	0.29	0.75	0.22	2.58		
			2004	11.65	14.53	0.31	0.31	0.32	0.78	0.17	2.63		
UPMC SOUTHSIDE	HOSPITAL	15203	1998	1.51	1.80		0.03	0.03		0.01	0.10	8062	General Medical & Surgical Hospitals
			1999	1.37	1.63	0.03	0.03	0.03	0.09	0.01	0.09		
			2000	1.38	1.64	0.03	0.03	0.03	0.09	0.01	0.09		
			2001	1.48	1.77	0.03	0.03	0.03		0.03	0.10		
			2002	1.79	2.48	0.07	0.07	0.07	0.12	0.06	0.15		
			2003	1.12	1.41	0.03	0.03	0.03	0.07	0.01	0.08		
			2004	1.30	1.57	0.03	0.03	0.03	0.09	0.02	0.09		
US AIRWAYS MAINTENANCE BASE	US AIRWAYS MTCE. BASE	15231	1996	6.07	10.17		1.40	1.39		0.44	43.03	4581	Airports, Flying Fields, And Services
			1997	8.91	9.68		1.23	1.14		0.24	44.03		
			1998	8.12	7.49		1.08	1.08		0.18	36.11		
			1999	10.48	8.66	0.30	1.06	1.04	0.29	0.21	39.23		
			2000	10.61	9.03	1.21	1.16	1.16		0.22	63.57		
			2001	13.99	7.15	0.38	0.38	0.38		0.17	63.65		
			2002	11.39	5.47		0.10	0.10			25.57		
			2003	4.30	6.05	0.12	0.13	0.16	0.26	0.07	44.08		
			2004	4.05	7.31	0.58	0.59	0.61	0.24	0.14	51.97		

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2	VOC		
US STEEL CORPORATION IRVIN PLANT	USS IRVIN PLANT	15034	1996	148.25	1194.82		132.81	151.59		147.18	38.10	3312	Blast Furnaces And Steel Mills
			1997	335.00	647.04		129.61	142.04		90.56	76.19		
			1998	252.63	606.86		131.85	143.92		68.44	68.03		
			1999	216.67	638.30	29.33	31.19	43.37	63.28	69.65	97.56		
			2000	234.21	547.88	30.57	32.00	43.88	59.58	47.39	103.52		
			2001	188.85	431.10	25.92	27.04	36.65	86.47	219.84	117.94		
			2002	227.48	596.25	26.41	36.79	54.54	43.44	330.23	86.93		
			2003	204.30	563.25	24.36	34.14	51.31	40.89	384.04	80.75		
			2004	242.85	699.04	33.68	44.45	63.80	24.27	523.35	96.24		
USS - CLAIRTON WORKS	USS - CLAIRTON WORKS	15025	1996	3805.65	9079.76		1191.16	3571.49		1976.96	478.75	3312	Blast Furnaces And Steel Mills
			1997	3844.47	9362.46		1057.48	2830.71		1581.79	482.12		
			1998	3503.91	9230.27		945.31	2710.83		1338.93	413.11		
			1999	3186.76	8710.04	351.35	795.12	2481.13	174.26	1075.63	373.80		
			2000	3461.93	6767.39	330.50	707.99	2361.41	389.24	1040.41	377.37		
			2001	3959.10	6089.06	310.80	687.69	2274.36	344.87	1221.08	348.21		
			2002	4051.00	5764.22	319.04	740.52	2461.20	109.06	1356.39	352.99		
			2003	4141.76	4863.14	327.83	752.33	2528.66	114.19	1572.46	353.28		
			2004	3893.90	4367.92	306.32	711.93	2386.92	117.01	1653.76	448.60		
USS CORPORATION EDGAR THOMSON WORKS	USS EDGAR THOMSON PLANT	15104	1996	1621.75	572.09		426.07	590.06		886.33	89.42	3312	Blast Furnaces And Steel Mills
			1997	1398.93	295.42		311.54	417.53		685.80	24.04		
			1998	1484.43	294.88		316.84	420.68		695.43	25.83		
			1999	1563.63	312.99	266.28	330.54	453.94	700.30	745.74	28.28		
			2000	1482.74	290.60	257.34	315.68	426.43	674.37	715.52	26.60		
			2001	1057.23	285.11	193.75	245.28	355.48	468.05	954.58	20.88		
			2002	1493.84	298.17	291.23	359.47	494.71	671.03	1251.56	23.77		
			2003	1518.60	310.34	308.12	374.47	518.26	697.42	973.49	21.39		
			2004	1337.89	273.78	300.21	344.51	477.57	719.10	672.05	23.23		

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				CO	NOx	PM2.5	PM10	PT	PMCond	SO2	VOC		
VA MEDICAL CENTER ASPINWAL FACILITY	HEALTH CARE FACILITY	15240	1998	1.64	1.95		0.04	0.04		0.01	0.23	8051	Skilled Nursings Care Facilitie
			1999	2.31	2.75	0.05	0.05	0.05	0.16	0.02	0.34		
			2000	1.67	2.33	0.08	0.08	0.08	0.14	1.38	0.21		
			2001	1.19	2.87	0.04	0.10	0.18	0.16	4.66	0.17		
			2002	1.75	2.08	0.04	0.04	0.04	0.12	0.01	0.21		
			2003	1.68	2.18	0.04	0.05	0.06	0.13	0.76	0.21		
			2004	1.76	2.10	0.04	0.04	0.04	0.12	0.01	0.22		
VA MEDICAL CENTER HIGHLAND DRIVE FAC	HEALTH CARE FACILITY	15206	1998	5.14	6.10		0.12	0.12		0.04	0.49	8062	General Medical & Surgical Hospitals
			1999	5.22	6.25	0.12	0.12	0.12	0.36	0.19	0.56		
			2000	5.16	7.05	0.24	0.24	0.24	0.41	7.23	0.54		
			2001	3.72	8.41	0.11	0.28	0.50	0.46	12.74	0.36		
			2002	2.17	2.59	0.05	0.05	0.05	0.15	0.05	0.42		
			2003	4.35	5.23	0.10	0.10	0.11	0.30	0.25	0.47		
			2004	5.08	6.05	0.11	0.11	0.11	0.34	0.04	0.42		
VA MEDICAL CENTER OAKLAND FACILITY	HEALTH CARE FACILITY	15240	1998	2.73	3.25		0.06	0.06		0.02	5.86	8062	General Medical & Surgical Hospitals
			1999	2.94	3.51	0.07	0.07	0.07	0.20	0.09	5.95		
			2000	2.82	3.69	0.11	0.11	0.11	0.21	1.38	5.74		
			2001	2.12	4.78	0.06	0.16	0.29	0.26	7.20	5.86		
			2002	3.23	3.85	0.07	0.07	0.07	0.22	0.02	6.63		
			2003	3.03	3.88	0.07	0.09	0.11	0.22	1.17	5.33		
			2004	3.32	3.95	0.08	0.08	0.08	0.22	0.02	6.55		
VALLEY PROTEINS (PA), INC.	RENDERING FACILITY	15225	1998	7.24	8.68		2.87	2.87		0.11	0.47	2077	Animal And Marine Fats And Oil
			1999	4.00	4.76	0.19	0.19	0.28	0.27	0.03	0.26		
			2000	3.94	4.69	0.19	0.49	0.80	0.27	0.03	0.26		
			2001	0.12	10.11	0.16	0.53	1.00	0.00	0.03	0.02		
			2002	0.11	9.16	0.15	0.50	0.94	0.35	0.01	0.02		
			2003	0.07	4.71	0.13	0.41	0.74	0.18	0.19	0.01		
			2004	0.00	0.00	0.02	0.02	0.03	0.00	0.00	0.00		

Allegheny County Health Department

Air Quality Program

Point Source Criteria Air Emission Report 1996-2004

Facility Name	Description Line	ZIP	Year of Inventory	Facility Criteria Emissions								Standard Industrial Code	SIC Description
				CO	NOx	PM2.5	PM10	PT	PMCond	SO2	VOC		
VORTEC U-PARC PROCESS TEST FACILITY	PROCESS TESTING FACILITY	15238	1999	0.09	0.18	0.02	0.02	0.02		0.00		8731	Commercial Physical Research
			2000	0.03	0.04	0.00	0.00	0.00	0.00	0.00	0.00		
			2001	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00		
			2002	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00		
WATSON STD CO.	HARWICK PLANT	15049	1998				2.15	2.53			14.82	2851	Paints And Allied Products
			1999			0.00	0.05	0.06			12.78		
			2000			0.01	0.04	0.05			11.11		
			2001			0.04	0.10	0.20			11.25		
			2002			0.58	0.58	0.68			17.84		
			2003			0.63	0.63	0.75			15.57		
			2004			1.06	1.06	1.06			14.26		
WATSON STD CO. NEVILLE ISLAND	NEVILLE ISLAND PLANT	15225	1998				6.51	7.66			5.74	2851	Paints And Allied Product
			1999			0.14	1.35	1.58			7.48		
			2000			0.01	0.14	0.17			6.81		
			2001			0.02	0.14	0.16			7.13		
			2002			0.00	0.00	0.00			9.78		
			2003			0.09	0.09	0.10			9.87		
			2004			0.10	0.10	0.10			9.44		
WESTINGHOUSE SCHOOL	WESTINGHOUSE SCHOOL	15208	1998	0.92	1.10		0.02	0.02		0.01	0.06	8211	Elementary And Secondary Schools
			1999	0.81	0.97	0.02	0.02	0.02	0.06	0.01	0.05		
			2000	0.78	0.92	0.02	0.02	0.02	0.05	0.01	0.05		
			2001	0.51	0.61	0.01	0.01	0.01	0.03	0.00	0.03		
			2002	0.66	0.78	0.01	0.01	0.01	0.04	0.00	0.04		
			2003	0.67	0.80	0.02	0.02	0.02	0.05	0.00	0.04		
			2004	0.61	0.73	0.01	0.01	0.01	0.04	0.00	0.04		

Allegheny County Health Department

Air Quality Program

Point Source Criteria Air Emission Report 1996-2004

Facility Name	Description Line	ZIP	Year of Inventory	Facility Criteria Emissions								Standard Industrial Code	SIC Description
				CO	NOx	PM2.5	PM10	PT	PMCond	SO2	VOC		
WHEMCO HAYS PLANT	METAL HEAT TREATING	15120	1998	4.33	4.17		0.60	0.60		0.03	0.28	3398	Metal Heat Treating
			1999	2.70	2.86	0.19	0.56	2.62	0.18	0.02	0.18		
			2000	3.16	2.79	0.20	0.59	2.76	0.21	0.02	0.21		
			2001	2.26	2.00	0.09	0.20	0.82	0.15	0.02	0.15		
			2002	3.06	2.71	0.11	0.22	0.84	0.21	0.02	0.20		
			2003	3.51	3.34	0.12	0.23	0.85	0.24	0.03	0.23		
			2004	3.81	3.50	0.13	0.24	0.86	0.26	0.03	1.10		
WHEMCO WEST HOMESTEAD FACILITY	METAL MACHINING/FINISHING	15120	1998	3.93	4.75		0.09	0.09		0.03	1.40	3547	Rolling Mill Machinery
			1999	3.54	4.21	0.08	0.08	0.08	0.24	0.03	1.38		
			2000	3.78	4.50	0.09	0.09	0.09	0.26	0.03	1.39		
			2001	2.08	2.48	0.05	0.05	0.05	0.14	0.01	2.39		
			2002	2.09	2.54	0.05	0.05	0.05	0.14	0.02	1.91		
			2003	2.51	3.00	0.06	0.06	0.06	0.17	0.02	1.49		
			2004	2.32	2.70	0.05	0.05	0.05	0.16	0.02	1.88		
WINTHROP MANAGEMENT US STEEL TOWER	HIGH RISE OFFICE BLDG	15219	1998	5.30	6.31		0.12	0.09		0.04	0.35	6512	Nonresidential Building Operators
			1999	5.24	6.24	0.12	0.12	0.12	0.36	0.04	0.34		
			2000	5.73	6.82	0.13	0.13	0.13	0.39	0.04	0.38		
			2001	4.23	9.06	0.12	0.29	0.52	0.50	12.90	0.25		
			2002	5.88	7.00	0.13	0.13	0.13	0.40	0.04	0.39		
			2003	6.01	7.15	0.14	0.14	0.14	0.41	0.04	0.39		
			2004	5.17	6.15	0.12	0.12	0.12	0.35	0.04	0.34		
WOODLINE PRODUCTS INC.	PLASTICS MANUFACTURING	15084	2000	0.04	0.05	0.32	0.32	0.32		0.00	13.67	3087	Custom Compound Purchased Resins
			2001	0.03	0.04	0.24	0.24	0.24		0.00	7.97		

Allegheny County Health Department

Air Quality Program

Point Source Criteria Air Emission Report 1996-2004

Facility Name	Description Line	ZIP	Year of Inventory	Facility Criteria Emissions								Standard Industrial Code	SIC Description
				CO	NOx	PM2.5	PM10	PT	PMCond	SO2	VOC		
2004 Inventoried Point Source emissions			<u>2004</u>	8265.20	14092.73	1481.03	2548.46	5692.43	1626.94	46281.47	2586.53		
<i>Emissions from plants actually inventoried during 1996 & 1997</i>													
			1996	9875	23747		3959	9202		46693	4462	Tons	
			1997	9660	24301		3932	8240		50241	4575	Tons	
<i>Sum of Emissions for Additional 1998 Plants.</i>													
				384	394		246	464		96	300	Tons	
<i>96 & 97 Emissions adjusted for Later Total Plant Inventory</i>													
			1996	10259	24141		4205	9666		46789	4762	Tons	
			1997	10044	24695		4178	8704		50337	4875	Tons	

Allegheny County Health Department

Air Quality Program

Point Source Criteria Air Emission Report 1996-2004

Facility Name	Description Line	ZIP	Year of Inventory	Facility Criteria Emissions							VOC	Standard	
				CO	NOx	PM2.5	PM10	PT	PMCond	SO2		Industrial Code	SIC Description

Assessment Total of Criteria Point Source Emission Inventory in Allegheny County. Units are Tons per Year. 1996 & 1997 values were adjusted to

Year	CO	NOx	PM2.5	PM10	PT	PMCOND	SO2	VOC	
1996	10259	24141		4205	9666		46789	4762	Tons
1997	10044	24695		4178	8704		50337	4875	Tons
1998	9313	19806		3526	7016		38303	3799	Tons
1999	8960	19272	1768	3191	6591	1602	43028	3750	Tons
2000	9277	18908	1548	2848	5949	1842	50200	3289	Tons
2001	8700	17634	1218	2511	5798	1509	54271	2847	Tons
2002	8549	16225	1394	2518	5838	1471	47197	2640	Tons
2003	8792	14458	1551	2665	6179	1454	50874	2473	Tons
2004	8265	14093	1481	2548	5692	1627	46281	2587	Tons

Attachment B
Individual HAP Emissions from all Facilities

Attachment B
Total Point Source HAP Emissions Including Ammonia and HydrogenSulfide

		Total County Emissions of Chemical Compounds Tons per Year						
		1998	1999	2000	2001	2002	2003	2004
7647010	HYDROCHLORIC ACID	1013	1253	1377	1562	1260	1531	1328
7664417	AMMONIA	940	398	538	717	700	578	512
7783064	HYDROGEN SULFIDE	186	162	177	168	172	176	168
7664393	HYDROGEN FLUORIDE	90	116	125	138	107	141	118
108883	TOLUENE	137	158	183	120	103	95	109
71432	BENZENE	90	55	47	44	45	44	86
1330207	XYLENE (MIXED ISOMERS)	177	149	145	123	84	69	66
100425	STYRENE	51	54	53	53	45	63	56
78933	METHYL ETHYL KETONE	112.86	93.32	74.45	72.69	71.11	26.56	42.72
67561	METHANOL	57.66	97.28	97.86	95.39	81.01	85.16	40.09
CNC	CYANIDE COMPOUNDS	32.48	30.25	38.91	38.61	39.32	40.65	38.06
108952	PHENOL	25.25	15.90	24.75	23.46	23.10	23.61	22.52
110543	HEXANE	13.83	12.16	20.31	16.04	18.46	20.69	22.04
74873	METHYL CHLORIDE	0.32	0.34	0.37	3.18	2.97	3.09	20.81
75150	CARBON DISULFIDE	0.14	0.89	18.71	19.11	20.11	19.97	18.91
108101	METHYL ISOBUTYL KETONE	39.96	34.15	28.59	25.58	27.13	20.98	18.20
POM	POLYCYCLIC ORGANIC MATTER	39.43	23.02	25.37	14.62	15.95	14.88	15.32
91203	NAPHTHALENE	36.62	29.95	28.31	26.64	25.89	19.87	14.58
100414	ETHYL BENZENE	26.52	25.11	24.73	24.74	14.92	13.10	14.30
102409	GLYCOL ETHER 102409	0.00	3.62	2.40	6.97	8.38	8.50	9.63
PB	LEAD	3.91	6.30	8.26	6.22	6.71	9.35	8.99
1634044	METHYL TERT-BUTYL ETHER	7.04	13.14	5.65	8.77	11.01	9.90	8.59
108907	CHLOROBENZENE	1.25	0.93	2.69	3.39	3.07	2.98	8.25
50000	FORMALDEHYDE	8.33	4.38	5.71	6.05	4.61	4.79	7.25
77736	DICYCLOPENTADIENE	0.28	0.00	0.27	0.00	0.10	5.51	6.64
7782492	SELENIUM	19.85	37.56	46.94	46.74	6.10	6.58	6.31
98828	CUMENE	4.62	4.41	3.29	3.87	3.93	4.24	6.01
GLYET	GLYCOL ETHERS	24.79	13.09	9.83	2.70	2.14	1.02	5.96
7439965	MANGANESE	2.77	5.19	5.53	4.95	5.71	6.54	5.19
85018.000	PHENANTHRENE	0.72	2.04	3.53	4.15	4.68	4.47	4.90

Attachment B
Total Point Source HAP Emissions Including Ammonia and HydrogenSulfide

		Total County Emissions of Chemical Compounds Tons per Year						
		1998	1999	2000	2001	2002	2003	2004
75092	METHYLENE CHLORIDE	2.71	3.11	3.78	2.61	4.27	3.06	4.05
95636	1,2,4-TRIMETHYLBENZENE	4.68	4.55	4.71	6.76	8.29	3.72	3.93
78591	ISOPHORONE	1.67	5.53	3.76	4.84	2.84	3.25	3.59
111762	2-BUTOXY ETHANOL	0.00	0.00	0.00	0.00	19.98	17.28	3.56
80626	METHYL METHACRYLATE	0.16	2.27	3.90	4.09	3.08	2.97	3.46
75058	ACETONITRILE	0.00	0.40	0.09	0.00	1.40	0.74	3.01
7440020	NICKEL	1.61	2.05	2.36	2.51	2.41	2.39	2.89
CRC	CHROMIUM COMPOUNDS	10.69	16.12	4.11	9.61	8.08	8.28	2.75
7782505	CHLORINE	1.10	1.11	2.95	3.07	3.05	3.45	2.62
206440	FLUORANTHENE	0.17	0.02	0.00	0.57	2.57	2.46	2.54
127184	TETRACHLOROETHYLENE	0.43	1.55	1.37	1.52	1.31	1.24	2.17
85449	PHTHALIC ANHYDRIDE	8.22	2.57	1.43	2.05	3.51	2.09	2.11
67663	CHLOROFORM	0.80	0.94	0.58	0.68	0.99	2.36	2.10
1319773	CRESOLS (MIXED ISOMERS)	0.49	0.18	2.08	1.98	2.03	2.07	1.95
129000	PYRENE	0.15	0.00	0.13	0.57	1.91	1.84	1.90
83329	ACENAPHTHENE	0.00	0.00	0.00	0.00	1.08	1.81	1.71
2551137	TRIMETHYL BENZENE	0.77	0.37	0.00	0.04	0.05	0.98	1.69
107211	ETHYLENE GLYCOL	2.82	3.39	3.11	2.31	2.11	5.17	1.66
218019	CHRYSENE	0.00	0.00	0.03	0.19	1.70	1.68	1.64
56553	BENZ(A)ANTHRACENE	0.09	0.01	0.06	0.19	1.56	1.53	1.58
79345	1,1,2,2-TETRACHLOROETHANE	0.12	0.27	0.23	0.52	0.59	0.49	1.53
86737	FLUORENE	0.00	0.00	0.00	0.24	1.45	2.79	1.39
141786	ETHYL ACETATE	0.00	0.00	0.00	0.00	0.75	0.02	1.31
106887	1,2-EPOXYBUTANE	0.00	0.00	0.00	0.00	0.44	1.10	1.25
131113	DIMETHYL PHTHALATE	0.41	0.15	0.16	0.14	0.10	0.17	1.03
79016	TRICHLOROETHYLENE	3.14	1.41	0.49	0.59	0.70	0.78	1.02
142961	1,1-OXYBISBUTANE	0.00	0.00	0.00	0.00	0.26	0.15	0.98
75218	ETHYLENE OXIDE	6.89	6.00	4.67	2.86	3.22	1.22	0.96
120127	ANTHRACENE	0.03	0.80	0.29	0.78	0.82	0.71	0.94
10102439	NO	0.00	0.00	0.00	0.00	0.00	0.00	0.90
540841	2,2,4-TRIMETHYLPENTANE	1.02	0.74	0.93	0.97	1.23	0.95	0.89
109999	TETRAHYDROFURAN	0.00	0.00	0.18	0.71	0.49	4.59	0.87

Attachment B
Total Point Source HAP Emissions Including Ammonia and HydrogenSulfide

		Total County Emissions of Chemical Compounds Tons per Year						
		1998	1999	2000	2001	2002	2003	2004
108383	M-XYLENE	0.00	0.83	0.94	1.44	1.71	1.49	0.84
208968	ACENAPHTHYLENE	0.00	0.00	0.00	0.45	1.58	0.75	0.82
108316	MALEIC ANHYDRIDE	2.55	2.32	2.18	2.00	0.87	0.88	0.79
50328	BENZO(A)PYRENE	0.03	0.00	0.01	0.13	0.71	0.70	0.71
142825	HEPTANE	0.00	0.00	0.00	0.00	0.80	1.47	0.67
107028.000	ACROLIEN	0.13	0.17	0.19	0.55	0.51	0.57	0.65
7723140	PHOSPHORUS (YELLOW OR WHITE)	0.17	0.50	3.64	0.87	0.60	0.61	0.65
106423	P-XYLENE	0.00	0.63	0.66	0.76	0.88	0.92	0.62
7440360	ANTIMONY	1.00	0.98	0.38	0.81	0.72	0.70	0.61
106467	1,4-DICHLOROBENZENE	0.13	0.13	0.34	0.39	0.41	0.39	0.58
75070	ACETALDEHYDE	0.62	0.68	0.87	0.71	0.61	0.70	0.58
75014	VINYL CHLORIDE	0.29	0.69	0.55	0.63	0.80	0.49	0.56
108054	VINYL ACETATE	0.28	0.14	0.00	0.56	0.57	0.59	0.55
123911	1,4-DIOXANE	0.00	0.00	0.00	0.55	0.57	0.58	0.54
67630.000	ISOPROPANOL	0.00	0.00	0.00	0.00	0.00	0.00	0.53
100447	BENZYL CHLORIDE	0.32	0.42	0.46	0.53	0.42	0.53	0.45
95501	1,2-DICHLOROBENZENE	0.02	0.00	0.00	0.00	0.00	0.00	0.44
117817	BIS(2-ETHYLHEXYL)PHTHALATE	0.93	0.00	0.58	0.41	0.44	0.41	0.42
132649	DIBENZOFURAN	0.00	0.00	0.07	0.36	0.37	0.41	0.41
7664939.000	SULFURIC ACID	0.00	0.00	0.00	0.00	0.00	0.00	0.39
121448	TRIETHYLAMINE	0.09	0.26	0.09	0.14	0.11	0.14	0.38
108214	ISOPROPYL ACETATE	0.00	0.00	0.00	0.00	0.46	0.00	0.35
193395	INDENO(1,2,3-CD)PYRENE	0.13	0.34	0.06	0.35	0.35	0.35	0.35
207089	BENZO(K)FLUORANTHENE	0.03	0.00	0.00	0.08	0.35	0.32	0.33
56832736	BENZOFLUORANTHENES	0.03	0.00	0.00	0.08	0.35	0.32	0.33
86748	CARBAZOLE	0.00	0.00	0.00	0.00	0.38	0.34	0.33
64742525	DISTILLATES, (PETROLEUM), HYDROTRE	0.00	0.00	0.00	0.00	0.73	0.00	0.30
203645.000	PHENANTHRENE, CYCLOPENTA-,	0.00	0.00	0.00	0.00	0.25	0.25	0.29
191242	BENZO(G,H,I)PERYLENE	0.00	0.00	0.00	0.19	0.28	0.28	0.26
92524	BIPHENYL	0.33	0.39	0.20	0.33	0.30	0.27	0.26
7440382	ARSENIC	0.03	0.27	0.27	0.40	0.41	0.52	0.26
75003	ETHYL CHLORIDE	0.06	0.36	0.30	0.37	0.20	0.29	0.25

Attachment B
Total Point Source HAP Emissions Including Ammonia and HydrogenSulfide

		Total County Emissions of Chemical Compounds Tons per Year						
		1998	1999	2000	2001	2002	2003	2004
123386	PROPIONALDEHYDE	0.00	0.00	0.00	0.29	0.23	0.29	0.24
7440484	COBALT	1.97	0.20	0.14	0.53	0.31	0.32	0.23
872504	1-METHYL-2-PYRROLIDINONE	0.00	0.00	0.00	0.00	0.00	0.00	0.22
60297	1,1'-OXYBISETHANE	0.00	0.00	0.00	0.00	0.00	0.00	0.21
107879	2-PENTANONE	0.00	0.00	0.00	0.00	0.00	0.02	0.20
7439976	MERCURY	0.56	0.55	0.10	0.16	0.14	0.13	0.20
110805	2-ETHOXYETHANOL	0.00	0.00	0.00	0.00	0.00	0.00	0.17
64197	ACETIC ACID	0.00	0.00	0.00	0.00	0.12	0.00	0.17
31711532	METHYLPHENANTHRENES	0.00	0.00	0.00	0.14	0.15	0.16	0.16
25013154	METHYLSTYRENE	0.00	0.00	0.00	0.32	0.00	0.13	0.15
7440439	CADMIUM	0.07	0.19	0.36	0.04	0.30	0.17	0.14
71556	METHYL CHLOROFORM	9.91	1.35	0.08	0.08	0.07	0.08	0.13
95136	INDENE	0.00	0.00	0.00	0.00	0.00	0.00	0.12
71238	PROPANOL	0.00	0.00	0.00	0.00	0.17	0.00	0.12
60344	METHYLHYDRAZINE	0.08	0.10	0.11	0.13	0.10	0.13	0.11
74839	METHYL BROMIDE	1.00	0.10	0.11	6.12	0.10	0.12	0.10
53703	DIBENZ(A,H)ANTHRACENE	0.00	0.00	0.00	0.01	0.10	0.09	0.10
18540299	CHROMIUM (VI)	0.00	0.00	0.00	0.00	0.10	0.10	0.10
79005	1,1,2-TRICHLOROETHANE	0.05	0.05	0.05	0.05	0.05	0.05	0.10
1314563	PHOSPHOROUS OXIDE	0.03	0.00	0.02	0.02	0.03	0.03	0.09
107062	ETHYLENE DICHLORIDE	0.03	0.04	0.04	0.06	0.16	0.06	0.08
PNA	POLYNUCLEAR AROMATICS	0.00	0.00	0.00	0.03	0.03	0.06	0.08
108838	2,6 DIMETHYL-4-HEPTANONE	0.00	0.00	0.00	0.00	0.00	0.00	0.07
110861	PYRIDINE	0.00	0.00	0.00	0.04	0.06	0.07	0.07
106514	QUINONE	0.05	0.07	0.05	0.08	0.05	0.06	0.06
95487.000	O-CRESOL	0.00	0.03	0.02	0.05	0.05	0.07	0.06
95476	O-XYLENE	0.00	0.41	1.51	0.92	0.75	0.35	0.06
108394	M-CRESOL	0.00	0.06	0.05	0.06	0.05	0.06	0.05
106445	P-CRESOL	0.00	0.05	0.05	0.06	0.04	0.05	0.05
111466	BIS(2-HYDROXYETHYL) ETHER	0.00	0.00	0.00	0.00	0.01	0.01	0.03
PAH	PAH	0.00	0.00	0.00	0.00	0.11	0.09	0.03
77781	DIMETHYL SULFATE	0.11	0.11	0.10	0.15	0.03	0.04	0.03

Attachment B
Total Point Source HAP Emissions Including Ammonia and HydrogenSulfide

		Total County Emissions of Chemical Compounds Tons per Year						
		1998	1999	2000	2001	2002	2003	2004
75252	BROMOFORM	0.00	0.00	0.00	0.00	0.02	0.03	0.02
205992	BENZ(E)ACEPHENANTHRYLENE	0.16	0.00	0.00	0.11	0.10	0.11	0.02
107131.000	ACRYLONITRILE	0.18	0.17	0.00	0.15	0.16	0.03	0.02
106990	1,3-BUTADIENE	0.01	0.01	0.04	0.04	0.00	0.06	0.02
271896	BENZOFURAN	0.00	0.00	0.00	0.00	0.00	0.00	0.02
108703	1,3,5 TRICHLORBENZENE	0.00	0.00	0.00	0.00	0.00	0.00	0.02
540590	1,2 DICHLOROETHYLENE	0.00	0.00	0.00	0.00	0.00	0.00	0.02
7440417	BERYLLIUM	0.00	0.00	0.00	0.06	0.06	0.07	0.02
98862	ACETOPHENONE	0.03	0.01	0.01	0.01	0.01	0.01	0.01
110827	CYCLOHEXANE	0.00	0.00	0.00	0.00	0.23	0.01	0.01
84742	DIBUTYL PHTHALATE	0.02	0.07	0.02	0.00	0.00	0.01	0.01
100470	BENZONITRILE	0.00	0.00	0.00	0.00	0.00	0.01	0.01
532274	2-CHLOROACETOPHENONE	0.00	0.00	0.00	0.01	0.00	0.01	0.00
16065831	CHROMIUM (III)	0.18	0.29	0.27	0.20	0.02	0.00	0.00
75569	PROPYLENE OXIDE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
91576	2-METHYLNAPHTHALENE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80057	BISPHENOL A	0.30	0.30	0.20	0.20	0.18	0.00	0.00
106934	ETHYLENE DIBROMIDE	0.00E+00	0.00E+00	0.00E+00	9.06E-04	7.13E-04	9.02E-04	7.64E-04
1333820	CHROMIC ACID	0.00E+00	1.38E-04	1.38E-04	2.20E-04	5.50E-04	3.42E-04	5.50E-04
111773	2-(2-METHOXYETHOXY) ETHANOL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-03	3.52E-04
121142	2,4-DINITROTOLUENE	0.00E+00	0.00E+00	0.00E+00	2.11E-04	1.66E-04	2.10E-04	1.78E-04
10035106	HYDROGEN BROMIDE	1.66E-02	2.27E-02	1.55E-02	1.41E-02	1.09E-02	1.71E-04	1.78E-04
140885	ETHYL ACRYLATE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.63E-05	8.97E-05
56235	CARBON TETRACHLORIDE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.55E-05
68476346	ALIPHATIC PETROLEUM DISTILLATE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.50E-05	4.55E-04	5.50E-05
112345	2-(2-BUTOXYETHOXY) ETHANOL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-03	3.52E-05
110009	FURAN	0.00E+00	0.00E+00	0.00E+00	1.33E-06	1.05E-06	1.32E-06	1.12E-06
57976	DIMETHYLBENZ(A)ANTHRACENE	0.00E+00	0.00E+00	0.00E+00	6.83E-07	1.89E-06	0.00E+00	8.65E-07
542756	1,3-DICHLOROPROPENE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.42E-07
51207310.000	2,3,7,8 TCDF	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-07
56495	3-METHYLCHOLANTHRENE	0.00E+00	0.00E+00	0.00E+00	7.68E-08	2.13E-07	0.00E+00	9.73E-08
205823	BENZO(J)FLUORANTHENE	0.00E+00	0.00E+00	0.00E+00	7.68E-08	1.31E-07	0.00E+00	9.73E-08

Attachment B
Total Point Source HAP Emissions Including Ammonia and HydrogenSulfide

		Total County Emissions of Chemical Compounds Tons per Year						
		1998	1999	2000	2001	2002	2003	2004
1746016	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN	0.00E+00	8.51E-09	9.70E-09	3.90E-08	3.07E-08	5.00E-08	4.72E-08
34465468	HEXACHLORODIBENZODIOXIN,1,2,3,6,7,8	0.00E+00	1.71E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
107982	1-METHOXY-2-PROPANOL	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-01	1.00E-02	0.00E+00
2807309	2-PROPOXYETHANOL	0.00E+00	7.53E-03	1.00E-02	0.00E+00	1.00E-02	1.00E-02	0.00E+00
534521	4,6-DINITRO-O-CRESOL	0.00E+00	0.00E+00	7.00E-05	0.00E+00	0.00E+00	0.00E+00	0.00E+00
123864	BUTYL ACETATE	0.00E+00	0.00E+00	1.50E-01	1.00E-01	3.24E-01	0.00E+00	0.00E+00
76131	CFC-113	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
121697	DIMETHYLANILINE, N,N-	2.00E-04	2.00E-04	2.00E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68122.000	DIMETHYLFORMAMIDE, N,N-	1.00E-02	9.80E-02	1.01E-01	4.46E-02	0.00E+00	0.00E+00	0.00E+00
75343	ETHYLIDENE DICHLORIDE	3.62E-01	8.29E-01	5.78E-02	3.60E-04	0.00E+00	0.00E+00	0.00E+00
111308	GLUTARALDEHYDE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
822060	HEXAMETHYLENE-1,6-DIISOCYANATE	0.00E+00	0.00E+00	5.00E-03	1.00E-04	0.00E+00	0.00E+00	0.00E+00
101688	METHYLENE DIPHENYL DIISOCYANATE	0.00E+00	0.00E+00	1.43E-01	8.00E-02	0.00E+00	0.00E+00	0.00E+00
64741668	NAPHTHA, (PETROLEUM), LIGHT ALKYLAR	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
19089475	PROPYLENE GLYCOL ETHYL ETHER	5.30E-02	9.55E-02	6.00E-02	1.40E-01	2.00E-01	1.19E-01	0.00E+00
57117416	1,2,3,7,8-PENTACHLORODIBENZOFURAN	0.00E+00	2.10E-07	2.32E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
57117314	2,3,4,7,8-PENTACHLORODIBENZOFURAN	0.00E+00	2.66E-08	3.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
51207319	2,3,7,8-TETRACHLORODIBENZOFURAN	0.00E+00	3.03E-08	3.35E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
105679	2,4-DIMETHYLPHENOL	0.00E+00	0.00E+00	0.00E+00	3.00E-03	2.00E-03	1.00E-03	0.00E+00
122996	2-PHENOXYETHANOL	9.00E-02	4.69E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
101779	4,4'-METHYLENEDIANILINE	1.30E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
108247	ACETIC ANHYDRIDE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-01	4.84E-01	0.00E+00
79061	ACRYLAMIDE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.85E-05	0.00E+00	0.00E+00
79107	ACRYLIC ACID	2.88E-01	2.86E-01	8.67E-01	7.80E-01	0.00E+00	0.00E+00	0.00E+00
192972.000	BENZO(E)PYRENE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-09	0.00E+00	0.00E+00
74975	BROMOCHLOROMETHANE	9.58E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CE	COKE OVEN EMISSIONS	1.86E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
38998753	HEPTA CHLORO FURANS	0.00E+00	4.57E-08	5.48E-08	0.00E+00	0.00E+00	0.00E+00	0.00E+00
68476868	HYDROCARBON	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.53E-06	0.00E+00	0.00E+00
123319	HYDROQUINONE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.75E-01	0.00E+00
7440746	INDIUM	2.50E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
78831	ISOBUTYL ALCOHOL	0.00E+00	0.00E+00	0.00E+00	3.15E-02	4.25E-02	5.10E-02	0.00E+00

Attachment B
Total Point Source HAP Emissions Including Ammonia and HydrogenSulfide

		Total County Emissions of Chemical Compounds Tons per Year						
		1998	1999	2000	2001	2002	2003	2004
78795	ISOPRENE	3.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
10045940	MERCURIC NITRATE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
74884	METHYL IODIDE	0.00E+00	0.00E+00	0.00E+00	1.76E-03	0.00E+00	0.00E+00	0.00E+00
5124301	METHYLENE BIS(4-CYCLOHEXYLISOCYA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-01	0.00E+00
101688	METHYLENE DIPHENYL DIISOCYANATE	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.05E-01	0.00E+00
17557232	NEOPENTYL GLYCOL DIGLYCIDYL ETHE	0.00E+00	1.55E-02	4.34E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
39001020.000	OCTACHLORODIBENZOFURANS, TOTAL	0.00E+00	0.00E+00	3.95E-08	4.36E-08	0.00E+00	0.00E+00	0.00E+00
3268879.000	OCTACHLORODIBENZO-P-DIOXIN	0.00E+00	2.48E-07	2.73E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00
7697372	NITRIC ACID	1.31E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
103651	PROPYL BENZENE	6.00E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
78104	SILICIC ACID, TETRAETHYL ESTER	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-01	0.00E+00	0.00E+00
681845	SILICIC ACID, TETRAMETHYL ESTER	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-01	0.00E+00	0.00E+00
8052413	STODDARD SOLVENT	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.80E-02	0.00E+00	0.00E+00
Total Air Emissions HAPS including NH₃ AND H₂S		3216.96	2866.82	3179.14	3452.93	3018.54	3150.54	2870.94
Air Emissions HAPS only		2090.96	2306.82	2464.14	2567.93	2146.54	2396.54	2324.94

Previous emission inventory assessments are not normally recalculated when estimation are improved techniques or emission factors updated. Therefore, emissions may appear to increase or decrease, but such changes are not real. An exception has been made for the acid gases HCl and HF, and adjustments have been made to previous years' inventories.

Examples are the estimates of emissions of the two acid gasses from the Cheswick Power Station. Changes in the emission factors used for HCl and HF during 2002 produced estimates different enough to significantly affect the reported HAP emissions from this plant, total emissions of these pollutants and the total HAP emission inventory.

During 2000, source testing was performed for HCl emissions from coke oven stacks at the USS Clairton Coke Plant. This testing found HCl emissions not previously known. These emissions were included in the 2000 and later inventories.

Adjustments were made to previously reported Total Point Source HAP Emissions to account for these changes. Adjusted values are used for this comparison only. Agency emission inventory records have not been adjusted.

Emissions of hydrochloric acid (HCl) are about 40% of the total emissions in Attachment B. Emissions of ammonia (NH₃) contribute an additional 25%.

Attachment C
Hazardous Air Pollutant Emissions from Individual
Facilities

Allegheny County Health Department
Air Quality Program
Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004

Estimated Tons of Chemicals Released to the Environment for 1998-2004										
Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
ACN-Pittsburgh,LLC	15007	100414	ETHYL BENZENE		0.14	0.12	0.03	0.07	0.10	0.45
		108101	METHYL ISOBUTYL KETONE	0.62	0.45	0.52	0.11	0.00	0.00	0.02
		108883	TOLUENE	1.09	0.39	0.20	0.09	0.31	0.75	2.62
		108952	PHENOL	0.03	0.01	0.03	0.06	0.14	0.08	0.36
		111762	2-BUTOXY ETHANOL					3.22	5.97	2.34
		121448	TRIETHYLAMINE	0.09	0.09	0.09	0.10	0.11	0.14	0.16
		1330207	XYLENE (MIXED ISOMERS)	5.99	0.83	0.61	0.45	0.66	0.71	3.60
		50000	FORMALDEHYDE		0.03	0.03	0.03	0.06	0.02	0.01
		78933	METHYL ETHYL KETONE	0.53	0.97	1.13	0.53	1.41	1.00	1.50
		95487	O-CRESOL		0.01	0.01	0.00	0.00	0.00	0.00
		CDC	CADMIUM COMPOUNDS	0.00	0.12	0.01	0.01	0.00	0.00	0.00
		PBC	LEAD COMPOUNDS	6.32E-06	1.74	0.30	0.30	0.02	0.02	0.02
ALLDERDICE SCHOOL	15217	110543	HEXANE						0.02	0.025
ALLEGHENY ASPHALT MFG. INC.	15219	100414	ETHYL BENZENE		0.03	0.03	0.04	0.04	0.04	0.054
		108883	TOLUENE		0.02	0.02	0.02	0.02	0.03	0.034
		110543	HEXANE				0.14	0.14	0.17	0.209
		1330207	XYLENE (MIXED ISOMERS)		0.02	0.03	0.03	0.03	0.04	0.045
		18540299	CHROMIUM (VI)		4.91E-05	5.66E-05				0.000
		50000	FORMALDEHYDE	0.32	0.34	0.39	0.46	0.47	0.57	0.698
		71432	BENZENE	0.11	0.63	0.73	0.06	0.06	0.07	0.088
		71556	METHYL CHLOROFORM						0.01	0.011
		75070	ACETALDEHYDE	0.12	0.14	0.16				0.000
		CRC	CHROMIUM COMPOUNDS				0.00	0.00	0.00	0.001
		HGC	MERCURY COMPOUNDS		8.24E-07	9.50E-07	3.82E-05	3.93E-05	4.77E-05	0.072
		PBC	LEAD COMPOUNDS		3.88E-04	4.47E-04	9.87E-05	1.01E-04	1.24E-04	0.000
		PNA	POLYNUCLEAR AROMATICS						0.03	0.043
ALLEGHENY COUNTY AIRPORT AUTHORITY	15231	107211	ETHYLENE GLYCOL				0.05	0.00	4.17	0.102
		110543	HEXANE				0.28	0.16	0.18	0.183
		67561	METHANOL				2.26	3.10	3.00	3.72
		7647010	HYDROCHLORIC ACID			3.47E-06	0.22	0.26	0.01	0.04
		PB	LEAD							3.02E-08

Allegheny County Health Department
Air Quality Program
Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004

Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
ALLEGHENY COUNTY SANITARY AUTHORITY	15233	100414	ETHYL BENZENE	0.34	0.34	0.32	0.32	0.32	0.32	0.32
		100425	STYRENE	0.07	0.07	0.04	0.04	0.04	0.04	0.04
		106467	1,4-DICHLOROBENZENE	0.13	0.13	0.34	0.39	0.41	0.38	0.29
		107062	ETHYLENE DICHLORIDE	0.03	0.03	0.03	0.03	0.03	0.03	0.03
		108703	1,3,5-TRICHLOROBENZENE	0.00						
		108883	TOLUENE	1.18	1.19	1.11	1.11	1.11	1.11	1.80
		108907	CHLOROBENZENE	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		110543	HEXANE				0.01	0.02	0.02	0.01
		117817	BIS(2-ETHYLHEXYL)PHTHALATE			0.04	0.05	0.05	0.05	0.03
		127184	TETRACHLOROETHYLENE		0.62	0.56	0.56	0.56	0.56	0.56
		1330207	XYLENE (MIXED ISOMERS)	1.47	1.47	1.39	1.39	1.39	1.39	1.39
		1746016	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN			0.00	0.00	0.00	0.00	2.3E-10
		18540299	CHROMIUM (VI)		0.00	0.00	0.00	0.00	0.00	4.60E-05
		67663	CHLOROFORM	0.50	0.51	0.47	0.47	0.47	0.47	0.467
		71432	BENZENE	0.05	0.05	0.05	0.05	0.05	0.05	0.045
		71556	METHYL CHLOROFORM	0.05	0.05	0.05	0.05	0.05	0.05	0.050
		7439976	MERCURY	0.015	0.004	0.003	0.003	0.004	0.003	0.002
		7440020	NICKEL	8.9082E-05	9.71E-05	7.58E-05	9.07E-05	9.65E-05	8.98E-05	4.61E-05
		7440382	ARSENIC		3.13E-04	2.59E-04	3.09E-04	3.30E-04	3.06E-04	1.52E-04
		7440417	BERYLLIUM		4.30E-05	3.08E-05	3.69E-05	3.91E-05	3.66E-05	8.59E-06
		7440439	CADMIUM		3.78E-06	3.34E-05	3.99E-05	4.25E-05	3.95E-05	2.26E-05
		7440473	CHROMIUM		3.48E-04	2.72E-04	3.24E-04	3.45E-04	3.22E-04	1.44E-04
		74873	METHYL CHLORIDE	0.00162	0.002	0.001	0.001	0.001	0.001	0.00
		74975	BROMOCHLOROMETHANE	0.09578						
		75092	METHYLENE CHLORIDE	0.14159	0.14	0.14	0.14	0.14	0.14	0.14
		75150	CARBON DISULFIDE	0.0845	0.08	0.08	0.08	0.08	0.08	0.08
		76131	CFC-113					0.00	0.00	0.00
		7647010	HYDROCHLORIC ACID			0.54	0.96	1.02	0.95	0.62
		7782505	CHLORINE	0	0.00	0.00	0.00	0.00	0.00	0.00
		7783064	HYDROGEN SULFIDE	20.7565	22.55	17.47	17.47	17.47	17.47	17.47
		78933	METHYL ETHYL KETONE							0.18
		79005	1,1,2-TRICHLOROETHANE	0.04871	0.05	0.05	0.05	0.05	0.05	0.05
		79016	TRICHLOROETHYLENE		0.05	0.04	0.04	0.04	0.04	0.04
		91203	NAPHTHALENE	0.33999	0.34	0.43	0.45	0.46	0.45	0.41
		95501	1,2-DICHLOROBENZENE	0.01817						
		95636	1,2,4-TRIMETHYLBENZENE	0.6594						
		PB	LEAD	9.695E-05	1.55E-04	1.22E-04	1.45E-04	1.55E-04	1.44E-04	9.97E-05
		SEC	SELENIUM COMPOUNDS	0		0	0	0		0.00

Allegheny County Health Department Air Quality Program Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004										
Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
ALLEGHENY ENERGY SPRINGDALE CGT	15144	7664939	SULFURIC ACID			0	0			0.39
		108883	TOLUENE						0.11	0.27
		1330207	XYLENE (MIXED ISOMERS)							0.13
		50000	FORMALDEHYDE			1.53E-04	1.68E-04	0.296516	0.33	0.63
		7664417	AMMONIA						3.25	8.65
ALLEGHENY LUDLUM CORP BRACKENRIDGE	15014	110543	HEXANE			3.8363	3.31712	3.0681	2.88	3.02
		7440622	VANADIUM					0		0.00
		7664393	HYDROGEN FLUORIDE	0.09	5.10	2.08	1.60	1.81	1.61	1.52
		7697372	NITRIC ACID	1.31						
		91203	NAPHTHALENE			6.50E-06				
		CRC	CHROMIUM COMPOUNDS	1.69	2.55	2.49	2.23	2.38	2.29	2.14
		MNC	MANGANESE COMPOUNDS	2.53	4.18	4.31	3.85	4.33	4.23	2.33
		NIC	NICKEL COMPOUNDS	1.15	1.62	1.58	1.28	1.28	1.28	1.81
		PBC	LEAD COMPOUNDS	1.76	2.24	2.38	1.81	1.83	1.78	1.82
		POM	POLYCYCLIC ORGANIC MATTER			0.00				
ALLEGHENY POWER SPRINGDALE STATION	15144	PBC	LEAD COMPOUNDS	0.00	0.00	0.00	0.00			
ALLEGHENY VALLEY HOSPITAL	15065	107211	ETHYLENE GLYCOL	0.00	0.00	0.00	0.00	0.00	0.00	
		110543	HEXANE			0.06	0.00	0.00	0.12	
		75218	ETHYLENE OXIDE	0.15	0.15	0.15	0.15	0.15	0.15	
AMERICAN BRIDGE MANUFACTURING	15108	100414	ETHYL BENZENE				0.61	0.22	0.31	0.40
		107211	ETHYLENE GLYCOL				0.17	0.04	0.00	0.00
		108101	METHYL ISOBUTYL KETONE				0.29	0.12	0.10	0.24
		108883	TOLUENE				2.55	0.84	1.39	0.79
		110543	HEXANE				0.00	0.01	0.01	0.01
		1330207	XYLENE (MIXED ISOMERS)				3.15	1.04	1.25	2.00
		67561	METHANOL				0.09	0.01	0.00	0.00
		78933	METHYL ETHYL KETONE				5.95	2.41	0.91	0.24
		91203	NAPHTHALENE				0.01	0.00	0.00	0.002
		95636	1,2,4-TRIMETHYLBENZENE				0.11	0.00	0.00	0.00
		CRC	CHROMIUM COMPOUNDS				6.97E-04	4.93E-05	1.44E-04	5.28E-05
		MNC	MANGANESE COMPOUNDS				9.03E-02	3.90E-03	6.57E-03	6.76E-04
		NIC	NICKEL COMPOUNDS				1.60E-03	1.19E-04	3.61E-04	1.57E-04
AMG RESOURCES CORPORATION	15225	PBC	LEAD COMPOUNDS	0.03	0.01	0.00	0.00	0.00		

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Estimated Point Source HAP, H2S & NH3 Emissions for 1998-2004											
Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year							
				1998	1999	2000	2001	2002	2003	2004	
ARISTECH CHEMICAL RESEARCH LAB	15146	100425	STYRENE	0.00	0.00	0.00					
		108883	TOLUENE	0.16	0.20	0.40					
		110543	HEXANE	4.38	0.07	0.10					
		80626	METHYL METHACRYLATE	0.01	0.01	0.01					
ARSENAL SCHOOL	15201	110543	HEXANE						0.01	9.61E-03	
ASHLAND SPECIALTY CHEMICAL CO - NE	15225	7439976	MERCURY							1.05E-04	
		7440439	CADMIUM								2.85E-05
		51207310	2,3,7,8 TCDF								1.00E-07
		100414	ETHYL BENZENE	10.13	8.06	11.10	7.05	0.00	0.00	0.00	
		100425	STYRENE	12.69	11.47	12.57	10.76	4.10	3.54	3.93	
		107211	ETHYLENE GLYCOL	0.04	0.01	0.01	0.06	0.08	0.08	0.07	
		108316	MALEIC ANHYDRIDE	2.07	1.92	1.88	1.75	0.59	0.69	0.50	
		110543	HEXANE			0.31	0.29	0.49	0.47	0.46	
		121697	DIMETHYLANILINE, N,N-	2.00E-04	2.00E-04	2.00E-04	0.00	0.00	0.00	0.00	
		1330207	XYLENE (MIXED ISOMERS)	38.11	30.33	41.74	26.50	0.02	0.00	0.03	
		18540299	CHROMIUM (VI)						0.00	0.00	
		25013154	METHYLSTYRENE				0.32	0.00	0.00	0.00	
		67561	METHANOL	0.02	0.01	0.01	0.00	0.00	0.00	0.00	
		7664417	AMMONIA	0.10	0.10	0.10	0.00	0.10	0.10	0.10	
		77736	DICYCLOPENTADIENE	0.28		0.27	0.00	0.10	0.13	0.09	
		79107	ACRYLIC ACID	0.29	0.29	0.87	0.78	0.00	0.00	0.00	
		80626	METHYL METHACRYLATE	0.15	0.14	0.12	0.32	0.11	0.10	0.10	
		85449	PHTHALIC ANHYDRIDE	0.26	0.22	0.18	0.17	0.90	0.98	0.82	
		CRC	CHROMIUM COMPOUNDS			1.19E-04	0	0		0.00	
		HGC	MERCURY COMPOUNDS			8.8001E-05	0	0	0	1.05E-04	
		PBC	LEAD COMPOUNDS		1.2603E-05	3.404E-05	0	0	0	3.00E-05	
AXIOM AUTOMOTIVE TECHNOLOGIES	15136	110543	HEXANE					0.0072	0.01	0.01	
		7647010	HYDROCHLORIC ACID		0.051	0.051	4.31E-02	0.041496	0.10	0.07	
		ASC	ARSENIC COMPOUNDS		6.69E-04	9.00E-04	5.67E-04	5.46E-04	0.00		
		BEC	BERYLLIUM COMPOUNDS		2.01E-05	2.70E-05	1.70E-05	1.64E-05	3.76E-05		
		CDC	CADMIUM COMPOUNDS		1.34E-04	1.80E-04	1.13E-04	1.09E-04	2.50E-04		
		COC	COBALT COMPOUNDS		5.80E-05	7.80E-05	4.91E-05	4.73E-05	1.09E-04		
		CRC	CHROMIUM COMPOUNDS		2.01E-03	2.70E-03	1.70E-03	1.64E-03	3.76E-03		
		MNC	MANGANESE COMPOUNDS		5.58E-04	7.50E-04	4.73E-04	4.55E-04	1.04E-03		
		NIC	NICKEL COMPOUNDS		0.00	2.40E-03	1.51E-03	1.46E-03	3.34E-03		
		PBC	LEAD COMPOUNDS	0.0073	6.70E-05	6.70E-05	1.08E-04	1.04E-04	2.38E-04	0.00	
		SBC	ANTIMONY COMPOUNDS		5.02E-05	6.75E-05	4.25E-05	4.10E-05	9.39E-05		

Allegheny County Health Department
Air Quality Program
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Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
BACHARACH INC. RIDC PARK. OHARA TV	15238	106990 84742	1,3-BUTADIENE DIBUTYL PHTHALATE	0.001 0.017	0.001 0.017	0.001 0.017	0.0009 0			
BAKE- LINE GROUP LLC	15206	74839 75070 7664417 PBC	METHYL BROMIDE ACETALDEHYDE AMMONIA LEAD COMPOUNDS	0 0.13 18.94 0	0 0.00 0.00	0 0.00 0.00	6 0.18 0.03	0 0.20 0.10	0 0.20 0.10	
BARBER SPRING	15201	1330207 106423 108383 110543 78933 PBC	XYLENE (MIXED ISOMERS) P-XYLENE M-XYLENE HEXANE METHYL ETHYL KETONE LEAD COMPOUNDS				0.121 0.14 0.319 0.09 0.10 2.28E-05	0.244 0.28 0.638 2.19E-05	0.244 0.28 0.638 3.08E-05	2.79 0.10 0.00
BELLEFIELD BOILER PLANT	15213	110543 18540299 7647010 7664393 91203 ASC BEC CDC COC HGC NIC PBC	HEXANE CHROMIUM (VI) HYDROCHLORIC ACID HYDROGEN FLUORIDE NAPHTHALENE ARSENIC COMPOUNDS BERYLLIUM COMPOUNDS CADMIUM COMPOUNDS COBALT COMPOUNDS MERCURY COMPOUNDS NICKEL COMPOUNDS LEAD COMPOUNDS	26.18 3.27 0.01	23.28 2.91 0.01	24.88 3.11 0.01	0.30 27.35 3.42 0.01	0.52 0.10 29.44 3.68 1.74E-04 7.54E-05 0.009 0.003 3.27E-05 8.01E-05 0.07 0.01	0.59 0.10 30.46 3.81 1.98E-04 8.56E-05 0.009 0.003 3.72E-05 9.12E-05 0.08 0.01	0.05 0.10 29.81 3.73 1.72E-04 5.64E-05 3.18E-03 0.02 2.37E-05 7.33E-05 0.06 2.47E-03
BEST FEEDS & FARM SUPPLIES, INC.	15071	110543	HEXANE			0.03	0.03	0.03	0.03	
BETTIS ATOMIC POWER LABORATORY	15122	10045940 107211 110543 16065831 7647010 CRC HGC PBC	MERCURIC NITRATE ETHYLENE GLYCOL HEXANE CHROMIUM (III) HYDROCHLORIC ACID CHROMIUM COMPOUNDS MERCURY COMPOUNDS LEAD COMPOUNDS	2.97E-05	0.136 0.099 0.205 2.50E-06 0.008 4.65E-05	0.108 0.04 3.95E-05	0.352 0.02 1.92E-05	0 0.001 2.74E-05	0 0.002 2.25E-05	0.08 2.15E-05

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Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
BFI - IMPERIAL LANDFILL	15126	100414	ETHYL BENZENE	0.85	0.61					
		108101	METHYL ISOBUTYL KETONE	0	0.0159	0.016	0.013	0.12	0.11	0.153
		108883	TOLUENE	1.422	3.13	3.05	2.56	2.32	2.22	2.967
		110543	HEXANE	0	0.14	0.14	0.12	0.11	0.10	0.135
		127184	TETRACHLOROETHYLENE	0	0.53	0.52	0.44	0.4	0.38	0.507
		1330207	XYLENE (MIXED ISOMERS)	2.236	1.11	1.08	0.91	0.82	0.79	1.052
		75003	ETHYL CHLORIDE	0	0.2	0.2	0.16	0.15	0.14	0.191
		75014	VINYL CHLORIDE	0	0.4	0.39	0.32	0.29	0.28	0.376
		75092	METHYLENE CHLORIDE	0	1.05	1.02	0.86	0.78	0.75	0.995
		7647010	HYDROCHLORIC ACID	0.43	0.34	2.62	3.12	3.57	3.42	4.566
		7782505	CHLORINE	0						
		78933	METHYL ETHYL KETONE	0.134	0.44	0.43	0.36	0.33	0.31	0.419
		79016	TRICHLOROETHYLENE	0	0.32	0.31	0.26	0.24	0.23	0.304
		79345	1,1,2,2-TETRACHLOROETHAN	0	0.16	0.16	0.13	0.12	0.11	1.527
		PBC	LEAD COMPOUNDS	0	0	0	0	0	0	
BP EXPLORATION & OIL INC.	15108	100414	ETHYL BENZENE					0.01	0.00	0.004
		108883	TOLUENE	0.28	0.20	0.25	0.26	0.17	0.13	0.000
		110543	HEXANE	1.24	1.02	1.23	0.66	0.76	0.61	0.610
		1330207	XYLENE (MIXED ISOMERS)	0.11	0.08	0.11	0.08	0.09	0.07	0.072
		540841	2,2,4-TRIMETHYLPENTANE	0.24	0.00	0.26	0.13	0.15	0.12	0.120
		67561	METHANOL	0.11	0.10	0.05	0.11	0.09	0.00	0.000
		71432	BENZENE	0.12	0.12	0.12	0.07	0.08	0.06	0.062
		91203	NAPHTHALENE					2.00E-04		
BUCKEYE CORAOPOLIS PIPELINE FACILITY	15108	100414	ETHYL BENZENE		0.00	0.04	0.03	0.03	0.08	0.03
		100425	STYRENE			0.03	0.03	0.03	0.03	0.02
		108883	TOLUENE	0.38	0.37	0.36	0.35	0.36	0.37	0.31
		108952	PHENOL					0.00	0.00	1.30E-04
		110543	HEXANE	1.90	2.15	1.86	1.69	1.72	1.83	1.506
		1319773	CRESOLS (MIXED ISOMERS)		0.00	0.00	0.00	0.00	0.00	0.000
		1330207	XYLENE (MIXED ISOMERS)	0.13	0.13	0.12	0.12	0.12	0.12	0.107
		1634044	METHYL TERT-BUTYL ETHER	1.31	1.42	1.13	1.05	1.09	1.20	0.948
		540841	2,2,4-TRIMETHYLPENTANE	0.35	0.38	0.31	0.28	0.29	0.32	0.254
		71432	BENZENE	0.26	0.28	0.24	0.24	0.25	0.25	0.209
		91203	NAPHTHALENE		0.00	0.07	0.00	0.00	0.01	0.001
		98828	CUMENE			0.01	0.01	0.01	0.02	0.007

Allegheny County Health Department
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Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
CALGON CARBON CORPORATION	15225	18540299	CHROMIUM (VI)						2.50E-05	2.00E-05
		7647010	HYDROCHLORIC ACID	0.1	0.12	0.13	0.24	0.19	0.26	1.40E-03
		7664393	HYDROGEN FLUORIDE	0.005	0.007	0.007	0.007	0.006	0.004	0.060
		7664417	AMMONIA	287.63	179.02	178.38	203.26	219.67	228.3	0.770
		7782505	CHLORINE						0.02	0.060
		CRC	CHROMIUM COMPOUNDS	0.07	0.09	0.09	0.10	0.12	0.16	169.98
		HGC	MERCURY COMPOUNDS	0.01	0.01	0.01	0.00	0.00	0.00	0.02
		PBC	LEAD COMPOUNDS	0.01	0.01	0.01	0.00	0.00	0.00	0.00
CARRICK SCHOOL	15203	110543	HEXANE						0.010	0.008
CDC, NIOSH, PITTSBURGH . RESEARCH LAB.	15236	108883	TOLUENE	0.02	0.02	0.02	0	0	0	0.000
		110543	HEXANE				0.004	0.007	0.007	0.004
		1330207	XYLENE (MIXED ISOMERS)	0.17	0.17	0.17	0	0	0	0.000
		64741668	NAPHTHA, (PETROLEUM), LIGHT ALKYLATE				0	0		0.000
		7647010	HYDROCHLORIC ACID	3.07	3.28	3.11	3.12	3.12	3.12	2.80
		PBC	LEAD COMPOUNDS	1.15E-05	1.24E-05	1.17E-05	2.34E-05	2.34E-05	2.34E-05	1.95E-05
CENTRAL FOOD KITCHEN	15203	110543	HEXANE						0.01	0.02
CHAMBERS DEVELOPMENT CO., INC.	15146	108101	METHYL ISOBUTYL KETONE	0.03	0.03	0.07	0.04	0.114	0.07	0.06
		108883	TOLUENE	0.57	0.48	1.28	0.87	2.20	1.37	1.15
		110543	HEXANE	0.03	0.02	0.06	0.04	0.1	0.06	0.05
		127184	TETRACHLOROETHYLENE	0.1	0.08	0.22	0.15	0.113	0.23	0.20
		1330207	XYLENE (MIXED ISOMERS)	0.2	0.17	0.45	0.31	0.781	0.48	0.41
		75003	ETHYL CHLORIDE	0.04	0.03	0.08	0.06	0	0.09	0.00
		75014	VINYL CHLORIDE	0.07	0.06	0.16	0.11	0.279	0.17	0.15
		75092	METHYLENE CHLORIDE	0.19	0.16	0.43	0.29	0.74	0.46	0.39
		7647010	HYDROCHLORIC ACID	0.97	0.82	1.42	1.47	1.61	1.61	1.37
		78933	METHYL ETHYL KETONE	0.08	0.07	0.18	0.12	0.311	0.19	0.16
		79016	TRICHLOROETHYLENE	0.06	0.05	0.13	0.09	0.225	0.14	0.12
		79345	1,1,2,2-TETRACHLOROETHAN	0.03	0.02	0.07	0.04	0.113	0.07	0.06

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Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
CHILDRENS HOSPITAL OF PITTSBURGH	15201	110543	HEXANE						0.07	0.02
		1330207	XYLENE (MIXED ISOMERS)	0.1						
		50000	FORMALDEHYDE	0.1						
		67561	METHANOL	0.4						
		75218	ETHYLENE OXIDE	2	3.577	3.25	2.06	1.55	0	0
		GLYET	GLYCOL ETHERS	0.25						
		PBC	LEAD COMPOUNDS	0						
CLAIRTON SLAG, INC.	15088	120127	ANTHRACENE		3.59E-05	3.31E-05				4.46E-06
		129000	PYRENE							1.32E-06
		7439976	MERCURY COMPOUNDS		2.19E-05	2.02E-04		1.17E-05	8.39E-06	8.71E-06
		100414	ETHYL BENZENE	0.13	0.15	0.14	0.01	0.01	0.04	0.046726
		108883	TOLUENE	0.07	0.08	0.07	0.01	0.00	0.02	0.02
		1330207	XYLENE (MIXED ISOMERS)	0.17	0.19	0.18	0.01	0.01	0.05	0.06
		18540299	CHROMIUM (VI)		4.37E-07	2.90E-07		1.27E-06	9.10E-07	1.02E-06
		191242	BENZO(G,H,I)PERYLENE		2.12e-8					2.12E-08
		193395	INDENO(1,2,3-CD)PYRENE		2.12e-8					2.12E-08
		205992	BENZ(E)ACEPHENANTHRYLENE		1.91e-7					1.91E-07
		206440	FLUORANTHENE		3.40e-6					3.40E-06
		207089	BENZO(K)FLUORANTHENE		2.76e-7					2.76E-07
		208968	ACENAPHTHYLENE		1.23e-5					1.23E-05
		218019	CHRYSENE		8.50e-8					8.50E-08
		50000	FORMALDEHYDE		0.04	0.04	0.11	0.08	0.01	0.05
		50328	BENZO(A)PYRENE		2.12e-8					2.12E-08
		53703	DIBENZ(A,H)ANTHRACENE		2.12e-8					2.12E-08
		56553	BENZ(A)ANTHRACENE		1.06e-7					1.06E-07
		71432	BENZENE		0.02	0.01	0.01	0.01	0.01	0.01
		71432	BENZENE		0.01					0.01
		7439976	MERCURY		8.71e-6					8.71E-06
		75070	ACETALDEHYDE		0.03	0.03				
		83329	ACENAPHTHENE		1.91e-5					1.91E-05
		85018	PHENANTHRENE		5.52e-5					5.52E-05
		86737	FLUORENE		3.40e-5					3.40E-05
		91203	NAPHTHALENE		0.002	0.002	0.003	0.002	0.001	7.65E-04
		91203	NAPHTHALENE		0.001					7.65E-04
		91576	2-METHYLNAPHTHALENE		0.002					0.002
		MNC	MANGANESE COMPOUNDS		0.000	0.000	0.000	0.021	0.017	0.007
CLEARWATER, INC.	15225	107211	ETHYLENE GLYCOL	0.004						
		108883	TOLUENE	0.020						
		67561	METHANOL	0.120						
		7664417	AMMONIA	0.028						
CONNELLEY SCHOOL	15219	110543	HEXANE						0.02	0.02

Allegheny County Health Department Air Quality Program Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004										
Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
CP INDUSTRIES	15132	100414	ETHYL BENZENE	0.05	0.05	0.07	0.07	0.07	0.07	0.07
		107982	1-METHOXY-2-PROPANOL					0.01	0.01	
		108101	METHYL ISOBUTYL KETONE	0.02	0.01	0.01	0.01	0.01	0.01	0.01
		108883	TOLUENE	0.21	0.01	0.01	0.01	0.02	0.02	0.02
		110543	HEXANE				0.05	0.03	0.03	0.03
		111762	2-BUTOXY ETHANOL					0.07	0.07	
		1330207	XYLENE (MIXED ISOMERS)	0.14	0.09	0.11	0.11	0.17	0.17	0.17
		2807309	2-PROPOXYETHANOL					0.01	0.01	
		67561	METHANOL	0	0	0.01	0.01	0.01	0.01	0.01
		78933	METHYL ETHYL KETONE	0.05	0.05	0.06	0.06	0.1	0.1	0.10
CREIGHTON STATION	15030	75070	ACETAALDEHYDE							0.14
		107028	ACROLIEN							0.14
		50000	FORMALDEHYDE			0.59				1.01
		71432	BENZENE			0.02				
DICE COMPRESSOR STATION	15239	50000	FORMALDEHYDE	4.36	0.31	0.76	0.57	0.63	0.67	1.03
		71432	BENZENE	0.1	0.1	1.31E-05	0	0	0	0.00
DLM FOODS	15212	7647010	HYDROCHLORIC ACID	28.61	31.48	31.24	27.84	28.67	28.63	27.84
		7664393	HYDROGEN FLUORIDE	3.58	3.93	3.90	3.48	3.58	3.58	3.48
		PBC	LEAD COMPOUNDS	0.01	0.01	0.01	0.01	0.01	0.01	0.01
DUQUESNE LIGHT COMPANY MANCHESTER FACILTY	15233	1330207	XYLENE (MIXED ISOMERS)				0.008			
		50000	FORMALDEHYDE	0.001	0.001	0.001	0.001			

Allegheny County Health Department
Air Quality Program
Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004

Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
DUQUESNE UNIVERSITY	15282	108883	TOLUENE			0.03	0.03	0.00	0.03	
		110543	HEXANE	0.04	0.00	0.08	0.06	0.06	0.06	0.07
		121448	TRIETHYLAMINE				0.00	0.00		
		1330207	XYLENE (MIXED ISOMERS)						0.01	
		193395	INDENO(1,2,3-CD)PYRENE		5.94e-8					5.94E-08
		207089	BENZO(K)FLUORANTHENE		5.94e-8					5.94E-08
		218019	CHRYSENE		5.94e-8					5.94E-08
		50000	FORMALDEHYDE			0.16	0.16	0.00	0.15	0.15
		50328	BENZO(A)PYRENE		3.96e-8					3.96E-08
		53703	DIBENZ(A,H)ANTHRACENE		3.96e-8					3.96E-08
		56553	BENZ(A)ANTHRACENE		5.94e-8					5.94E-09
		67561	METHANOL	0.080	0.010	0.004				
		67663	CHLOROFORM	0.186	0.074	0.041	0.025	0.104	0.1202	0.06
		68476868	HYDROCARBON					4.53E-06		
		75058	ACETONITRILE					0.001		
		75058	ACETONITRILE		0.003	0.003				
		75092	METHYLENE CHLORIDE	0.1	0.008	0.003	0.001	0.003		
		7647010	HYDROCHLORIC ACID				0.002	0.000		
		79061	ACRYLAMIDE					1.85E-05		
	15282	HGC	MERCURY COMPOUNDS				1.67E-05		7.3748E-06	8.58E-06
		PBC	LEAD COMPOUNDS					1.43E-05	1.41E-05	1.65E-05
DURA - BOND INDUSTRIES INC.	15134	110543	HEXANE				0.013	0.014	0.022	0.020
		PBC	LEAD COMPOUNDS			6.58E-06	3.86E-06	4.29E-06	6.71E-06	6.27E-06

Allegheny County Health Department
Air Quality Program
Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004

Estimated Tons per Year of Air Emissions for 1998-2004										
Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
EASTMAN CHEMICAL RESINS, INC.	15088	100414	ETHYL BENZENE				5.20	5.20	4.88	4.90
		100425	STYRENE				18.41	19.72	17.06	18.25
		103651	PROPYL BENZENE				0.01	0.01	0.18	0.24
		108883	TOLUENE				38.77	36.88	29.61	35.13
		108952	PHENOL				0.00	0.00		
		110543	HEXANE					0.02	0.19	0.17
		110827	CYCLOHEXANE						0.01	0.01
		1330207	XYLENE (MIXED ISOMERS)				13.51	10.82	9.94	10.72
		142290	CYCLOPENTENE						0.84	1.01
		25013154	METHYLSTYRENE						0.13	0.15
		2551137	TRIMETHYL BENZENE				0.01	0.01	0.01	0.01
		71432	BENZENE				1.94	1.96	2.06	2.05
		7647010	HYDROCHLORIC ACID				4.52	1.69	3.90	2.62
		7664393	HYDROGEN FLUORIDE				0.41	0.27	0.27	0.32
		7664417	AMMONIA				27.23	22.91	24.87	34.00
		7782505	CHLORINE				0.27	0.17	0.38	0.24
		91203	NAPHTHALENE				0.84	1.11	0.90	0.88
		95636	1,2,4-TRIMETHYLBENZENE						0.22	0.30
		98828	CUMENE				3.48	3.59	3.70	3.69
		PBC	LEAD COMPOUNDS						3.17	2.93
EDGEWATER STEEL LTD.	15139	PBC	LEAD COMPOUNDS	1.70E-04	1.11E-04	1.01E-04	6.0432E-05			
EPIC METALS CORPORATION	15104	100414	ETHYL BENZENE	0.38	0.05	0.02	0.02	0.02	0.02	0.03
		108101	METHYL ISOBUTYL KETONE	0.87	0.47	0.35	0.06	0.09	0.09	0.10
		108883	TOLUENE	2.66	0.69	0.25	0.01	0.02	0.01	0.01
		1330207	XYLENE (MIXED ISOMERS)	5.05	3.02	1.98	0.25	0.34	0.18	0.25
		19089475	PROPYLENE GLYCOL ETHYL	0.05	0.10	0.06	0.14	0.20	0.12	0.00
		2551137	TRIMETHYL BENZENE	0.77	0.37		0.02	0.03		
		67561	METHANOL		0.00					0.00
		78831	ISOBUTYL ALCOHOL				0.03	0.04	0.05	
		78933	1,2,4-TRIMETHYLBENZENE		0.01					0.00
		78933	METHYL ETHYL KETONE	6.08	2.47	0.75	0.10	0.13	0.05	0.10
		CDC	CADMIUM COMPOUNDS				0.000			
		GLYET	GLYCOL ETHERS						0.007	0.002
		PBC	LEAD COMPOUNDS				0.004			

Allegheny County Health Department Air Quality Program Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004										
Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
FERRO CORP	15204	16065831	CHROMIUM (III)	0.03	0.03	0.11	0.03			
		67561	METHANOL	0.00	0.00	0.01	0.01			
		GLYET	GLYCOL ETHERS		0.00	0.00	0.00			
		PBC	LEAD COMPOUNDS	0.13	0.07	0.11	0.06			
FOX CHAPEL SENIOR HIGH SCHOOL	15238	110543	HEXANE		0.02					0.02
GALVTECH	15207	110543	HEXANE			0.55	0.49	0.62	0.48	0.53
		50000	FORMALDEHYDE			0.02	0.02	0.03	0.02	0.02
		PBC	LEAD COMPOUNDS		0.00	0.00	0.00	0.00	0.00	0.00
		SBC	ANTIMONY COMPOUNDS		0.00	0.00	0.00	0.00	0.00	0.00
GARDNER,DENVER,NASH LLC (FORMERLY NASH ELMO)	15037	100414	ETHYL BENZENE			0.40	0.05	0.03	0.09	0.18
		107879	2-PENTANONE				0.000	0.000	0.017	0.03
		108101	METHYL ISOBUTYL KETONE			0.010	0.009	0.007	0.047	0.01
		108883	TOLUENE	0.004	0.012	0.130	0.105	0.111	0.191	0.01
		111762	2-BUTOXY ETHANOL					0.08	0.09	0.00
		1330207	XYLENE (MIXED ISOMERS)	0.22	0.09	0.10	0.15	0.12	0.46	0.40
		2807309	2-PROPOXYETHANOL			0.01				
		67561	METHANOL	0.06	0.01	0.00	0.02	0.02	0.05	6.22E-04
		78933	METHYL ETHYL KETONE		0.00	0.03	0.03	0.03	0.40	0.37125
		822060	HEXAMETHYLENE-1,6-DIISOCYANATE				0.00	0.00	0.00	0
		84742	DIBUTYL PHTHALATE		0.00		0.00	0.00	0.00	0
		91203	NAPHTHALENE				0.00	0.01	0.03	0.00048

Allegheny County Health Department
Air Quality Program
Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004

Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
GE CONSUMER PRODUCTS, LIGHTING	15017	106990	1,3-BUTADIENE	0		2.61E-07	0	4.25E-07	1.35E-06	4.78E-07
		107028	ACROLEIN	0		5.88E-07	0	1.00E-06	3.19E-06	1.13E-06
		108883	TOLUENE	1.000E-05		2.68E-06	0	4.45E-06	1.41E-05	5.00E-06
		111308	GLUTARALDEHYDE					0.00	0.00	0.00
		1330207	XYLENE (MIXED ISOMERS)					3.09E-06	9.83E-06	3.48E-06
		50000	FORMALDEHYDE	4.000E-05		0.03	0.04	1.47E-03	8.05E-03	0.01
		71432	BENZENE	4.000E-05		6.07E-06	0	1.01E-05	3.22E-05	1.14E-05
		75070	ACETALDEHYDE	3.000E-05		5.03E-06	0	8.33E-06	2.65E-05	9.38E-07
		95476	O-XYLENE	1.000E-05		1.89E-06	0			
		CDC	CADMIUM COMPOUNDS	0.03	0.03	0.23	0.02	0.29	0.15	0.11
		COC	COBALT COMPOUNDS	0.02	0.03	0.05	0.04	0.04	0.03	
		CRC	CHROMIUM COMPOUNDS	2.45E-03	8.17E-04	1.60E-06		1.05E-06	3.79E-06	1.16E-06
		HGC	MERCURY COMPOUNDS	0.42	0.42	0	0	0	0	0
		NIC	NICKEL COMPOUNDS	0.04	0.04	0.15	0.06	0.05	0.03	
		PAH	PAH			1.11E-06	0	1.82E-06	5.80E-06	2.06E-06
		PBC	LEAD COMPOUNDS	0.58	0.58	4.13	3.13	3.90	3.16	3.20
		SBC	ANTIMONY COMPOUNDS	1.00	0.98	0.33	0.29	0.32	0.29	0.28
		SEC	SELENIUM COMPOUNDS	0.02	0.02	0.03	0.04	0.05	0.02	0.02
GENERAL ELECTRIC APPARATUS SERVICE	15122	100414	ETHYL BENZENE		0.006	0.011	0.009	0.006	0.001	0.002
		106467	1,4-DICHLOROBENZENE					0.003	0.009	0.008
		108101	METHYL ISOBUTYL KETONE		0.002	0.005	0.002	0.003	0.002	0.002
		108883	TOLUENE			0.001	0.001	0.003	0.009	0.022
		110543	HEXANE			0.006	0.005	0.006	0.007	0.007
		127184	TETRACHLOROETHYLENE		0.027	0.073	0.065			
		1330207	XYLENE (MIXED ISOMERS)		0.065	0.052	0.042	0.025	0.008	0.012
		67561	METHANOL		0.023	0.062	0.025	0.033	0.023	0.023
		71432	BENZENE					0.003	0.009	0.008
		7439965	MANGANESE		0.034	0.065	0.027	0.046	0.029	0.040
		7440020	NICKEL	0.028	0.007	0.014	0.003	0.003	0.002	0.004
		7440473	CHROMIUM		0.080	0.121	0.049	0.084	0.053	0.080
		7723140	PHOSPHORUS (YELLOW OR V	0.025	0.005	0.010	0.002	0.000	0.000	0.000
		78933	METHYL ETHYL KETONE		0.012	0.007	0.003	0.000	0.000	0.000
		GLYET	GLYCOL ETHERS	0.090	0.007	0.006	0.003	0.000	0.002	0.005

Allegheny County Health Department
Air Quality Program
Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004

Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
GENERAL MOTORS PITTSBURGH PLANT	15122	100414	ETHYL BENZENE				4.90E-04	5.00E-04	5.00E-04	4.60E-03
		108883	TOLUENE				4.90E-04	5.00E-04	5.00E-04	5.03E-02
		110543	HEXANE			4.31E-02	4.69E-02	4.79E-02	4.01E-02	5.88E-02
		1330207	XYLENE (MIXED ISOMERS)				4.90E-04	5.00E-04	5.00E-04	2.99E-02
		1634044	METHYL TERT-BUTYL ETHER				2.48E-04	2.53E-04	2.53E-04	4.80E-02
		50000	FORMALDEHYDE		9.70E-03	1.13E-02	8.37E-03	7.95E-03	7.80E-03	5.21E-03
		71432	BENZENE				4.95E-04	5.05E-04	5.05E-04	9.10E-03
		91203	NAPHTHALENE				4.90E-05	5.00E-05	5.00E-05	2.50E-03
		PB	LEAD		7.96E-6	7.93E-06	9.38E-06	9.25E-06	8.05E-06	7.96E-06
		POM	POLYCYCLIC ORGANIC MATTER		6.67E-04	7.76E-04	5.76E-04	5.46E-04	5.36E-04	3.58E-04
GLENSHAW GLASS COMPANY, INC.	15116	16065831	CHROMIUM (III)	0.150	0.160	0.160	0.170	0.014	0.001	0.001
		7647010	HYDROCHLORIC ACID	5.566	5.722	5.213	4.267	3.950	3.878	2.437
		91203	NAPHTHALENE						0.000	0.002
		SEC	SELENIUM COMPOUNDS	1.640	1.688	7.290	2.390	1.963	2.230	2.290
GOTTLIEB, INC.	15225	110543	HEXANE						0.012	0.033
		1746016	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN						1.13E-08	1.42E-08
		50000	FORMALDEHYDE		0.001389					0.001
		7647010	HYDROCHLORIC ACID						1.96	2.47
		7664393	HYDROGEN FLUORIDE						0.78	0.99
GUARDIAN INDUSTRIES CORP . FLOREFFE	15025	CDC	CADMIUM COMPOUNDS						0.004	7.96E-08
		COC	COBALT COMPOUNDS	1.87	0.08	0.00	0.00	0.00	0.00	0.00
		CRC	CHROMIUM COMPOUNDS	8.50	12.80	0.33	0.45	0.01	0.00	0.08
		SEC	SELENIUM COMPOUNDS	18.18	35.07	38.75	41.95	1.48	1.03	1.94
GULF OIL LIMITED PARTNERSHIP NEVILLE IS.	15225	100414	ETHYL BENZENE	1.01	0.85	0.86	0.82	1.01	0.45	0.17
		108883	TOLUENE	1.09	1.43	1.42	1.80	2.06	3.14	1.42
		110543	HEXANE	0.02	0.02	0.02	0.02	0.23	0.83	0.67
		1330207	XYLENE (MIXED ISOMERS)	1.09	0.72	0.85	0.82	1.09	2.43	0.24
		1634044	METHYL TERT-BUTYL ETHER	3.65	3.67	3.83	4.66	6.74	4.77	4.16
		540841	2,2,4-TRIMETHYLPENTANE					0.08	0.00	0
		71432	BENZENE	4.40	2.95	3.00	0.71	4.76	0.86	0.82
		91203	NAPHTHALENE	6.74	7.47	7.70	9.58	9.70	0.52	0.48
		95636	1,2,4-TRIMETHYLBENZENE					0.03	0.00	0
		98828	CUMENE					0.00	0.19	1.24

Allegheny County Health Department
Air Quality Program
Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004

Estimated Tons of Chemicals Released to the Environment by 100 Firms										
Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
HASKELL SENATOR INTERNATIONAL	15147	100414	ETHYL BENZENE	1.00	1.33	1.35	1.00			
		108101	METHYL ISOBUTYL KETONE	0.35	0.44	0.45	0.28			
		108883	TOLUENE	8.35	7.44	7.49	4.68			
		110543	HEXANE	0.68	0.59	0.66	0.46			
		1330207	XYLENE (MIXED ISOMERS)	24.42	24.32	24.16	12.06			
		50000	FORMALDEHYDE	0.05	0.05	0.05	0.04			
		75092	METHYLENE CHLORIDE	0.15	0.18	0.33	0.21			
		78933	METHYL ETHYL KETONE	0.72	0.54	0.54	0.32			
		91203	NAPHTHALENE	0.26	0.37	0.37	0.24			
		98828	CUMENE	0.11	0.13	0.13	0.08			
		GLYET	GLYCOL ETHERS	0.79	0.97	0.99	0.62			
HEIGHTS PLAZA MATERIALS, INC	15065	110543	HEXANE			1.43E-04	1.29E-04			
HENRY MILLER SPRING & . MANUFACTURING CO	15125	1330207	XYLENE (MIXED ISOMERS)	0.17	0.06	0.00				
		CRC	CHROMIUM COMPOUNDS	0.07	0.01	0.00				
		MNC	MANGANESE COMPOUNDS	0	1.00E-07	1.04E-08				
		NIC	NICKEL COMPOUNDS	0.072	0.008	0.001				
		PBC	LEAD COMPOUNDS	3.06E-05	3.39E-05	2.67E-06				
HERCULES INCORPORATED	15088	100414	ETHYL BENZENE	3.73	3.69	3.56				
		100425	STYRENE	16.24	16.20	10.88				
		108883	TOLUENE	21.34	61.22	88.33				
		108952	PHENOL	0.00	0.00	0.00				
		1330207	XYLENE (MIXED ISOMERS)	13.04	12.72	7.18				
		71432	BENZENE	2.18	2.16	1.80				
		7647010	HYDROCHLORIC ACID	5.42	5.82	5.37				
		7664393	HYDROGEN FLUORIDE	0.43	0.44	0.43				
		7664417	AMMONIA			26.58				
		7782505	CHLORINE	0.28	0.29	0.29				
		91203	NAPHTHALENE			0.12				
		98828	CUMENE	4.19	4.08	2.86				
HOECHSTETTER PRINTING	15143	107211	ETHYLENE GLYCOL		0.34	0.39		0.48	0.24	0.74
		110543	HEXANE		0.14	0.13		0.23	0.00	
		111762	2-BUTOXY ETHANOL					8.05	2.74	
		123319	HYDROQUINONE						0.28	
		1330207	XYLENE (MIXED ISOMERS)		1.01	1.19		1.30	0.78	0.11
		91203	NAPHTHALENE						0.52	0.35
		GLYET	GLYCOL ETHERS						0.01	4.36
		PBC	LEAD COMPOUNDS		7.1743E-06	6.8942E-06		1.325E-07	4.9229E-07	

Allegheny County Health Department
Air Quality Program
Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004

Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
HUSSEY COPPER LTD.	15056	110543	HEXANE				0.01	0.01	0.39	0.39
		CRC	CHROMIUM COMPOUNDS						0.08	0.09
		PB	LEAD	0.093957						0.09
		PBC	LEAD COMPOUNDS	0.26716135	0.27	0.35	0.19	0.28	0.68	0.09
IA CONSTRUCTION GIBSONIA	15044	100414	ETHYL BENZENE	0.201835	0.18	0.11	0.11	0.09	0.04	
		108883	TOLUENE	0.110092	0.10	0.06	0.05	0.04	0.02	
		1330207	XYLENE (MIXED ISOMERS)	0.262997	0.24	0.14	0.13	0.11	0.05	
		18540299	CHROMIUM (VI)		5.34E-07	3.26E-07	2.30E-06	1.99E-06	8.67E-07	
		HGC	MERCURY COMPOUNDS		1.37E-05	8.35E-06	2.12E-05	1.84E-05	8.00E-06	
		PBC	LEAD COMPOUNDS		5.12E-05	2.68E-05	4.59E-05	3.97E-05	1.73E-05	
IDL INCORPORATED	15239	100414	ETHYL BENZENE						0.002	0.002
		108101	METHYL ISOBUTYL KETONE						0.061	0.061
		108883	TOLUENE	7.440	6.970	5.720	3.140	0.000	0.000	0.000
		110543	HEXANE				0.006	0.006	0.006	0.006
		1330207	XYLENE (MIXED ISOMERS)	0.242	0.159	2.560	1.400	0.000	0.009	0.009
		78933	METHYL ETHYL KETONE	6.830	6.490	4.480	2.450	0.000	0.000	0
		95636	1,2,4-TRIMETHYLBENZENE						0.044	0.044
		98828	CUMENE						0.010	0.010
		GLYET	GLYCOL ETHERS	3.969	3.320	1.990	0.460	1.387	0.152	0.868
INTERNATIONAL PAPER	15215	108054	VINYL ACETATE	0.280	0.141	0.000	0.000	0.000		
		108883	TOLUENE	0.003	0.001	0.000	0.000	0.000		
		110543	HEXANE						0.012	0.004
		50000	FORMALDEHYDE	0.011	0.011	0.006	0.000	0.000		
		71432	BENZENE	0.000	0.000	0.000	0.000	0.000		
		75070	ACETALDEHYDE	0.002	0.001	0.000	0.000	0.000		
		GLYET	GLYCOL ETHERS	0.148	0.481	0.000	0.000	0.000	0.025	0.019
JEFFERSON REGIONAL MEDICAL CENTER	15236	110543	HEXANE						0.062	0.064
		75218	ETHYLENE OXIDE	0.030	0.031	0.038	0.041	0.035	0.032	0.033
		PB	LEAD					1.96E-05	1.53E-05	1.73E-05

Allegheny County Health Department
Air Quality Program
Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004

Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
KELLY RUN SANITATION	15037	100414	ETHYL BENZENE	0.26	0.24		0.22	0.23	0.04	0.03
		107131	ACRYLONITRILE	0.18	0.17		0.15	0.16	0.03	0.02
		108101	METHYL ISOBUTYL KETONE	0.09	0.09		0.08	0.08	0.02	0.01
		108883	TOLUENE	1.76	1.78		1.62	1.76	0.33	0.24
		110543	HEXANE	0.08	0.08		0.07	0.08	0.05	0.04
		127184	TETRACHLOROETHYLENE	0.30	0.30		0.28	0.18	0.04	0.02
		1330207	XYLENE (MIXED ISOMERS)	0.62	0.63		0.57	0.63	0.12	0.09
		71432	BENZENE		0.07		0.07	0.08	0.01	0.01
		75003	ETHYL CHLORIDE		0.11		0.10	0.00	0.00	0.00
		75014	VINYL CHLORIDE	0.22	0.23		0.20	0.23	0.04	0.03
		75092	METHYLENE CHLORIDE	0.59	0.60		0.54	0.59	0.11	0.08
		75343	ETHYLIDENE DICHLORIDE	0.12						
		7647010	HYDROCHLORIC ACID	0.47	0.55		0.62	0.02	0.02	0.11
		78933	METHYL ETHYL KETONE	0.25	0.25		0.23	0.23	0.05	0.03
		79016	TRICHLOROETHYLENE	0.18	0.18		0.17	0.20	0.03	0.02
		79345	1,1,2,2-TETRACHLOROETHAN	0.09	0.09		0.08	0.08	0.02	0.01
KINDER MORGAN INDIANOLA PLANT	15051	100414	ETHYL BENZENE	0.23	0.02	0.02	0.02	0.02	0.02	0.02
		108883	TOLUENE	0.30	0.44	0.33	0.26	0.24	0.24	0.26
		110543	HEXANE	0.36	0.40	0.30	0.21	0.24	0.24	0.32
		127184	TETRACHLOROETHYLENE					0.029	1.45E-05	0.029
		1330207	XYLENE (MIXED ISOMERS)	0.13	0.07	0.05	0.17	0.13	0.14	0.14
		1634044	METHYL TERT-BUTYL ETHER		0.90	0.66	3.00	3.11	3.11	3.41
		71432	BENZENE	0.20	0.13	0.11	0.38	0.19	0.19	0.22
		91203	NAPHTHALENE						2.17E-04	1.95E-05
		95636	1,2,4-TRIMETHYLBENZENE					0.06	0.07	0.06
KINDER-MORGAN LIQUIDS TERMINAL LLC	15034	110543	HEXANE				0.02	0.02	0.02	0.02
		PB	LEAD					8.1115E-07	1.7774E-06	0.00000119
KOPP GLASS, INCORPORATED.	15218	110543	HEXANE			0.126	0.133	0.103	0.097	0.076
		67561	METHANOL	0.528	0.086	1.189	1.062	0.194	0.184	0.058
		7440746	INDIUM	0.025						
		7647010	HYDROCHLORIC ACID	0.007	0.006	0.014	0.013	0.013		
		79016	TRICHLOROETHYLENE	2.875	0.813	0.000	0.000	0.000		
		GLYET	GLYCOL ETHERS						0.023	0.003

Allegheny County Health Department Air Quality Program Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004										
Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
KOPPERS INDUSTRIES INC. CLAIRTON P	15025	100414	ETHYL BENZENE	0.782	0.100	0.045	2.088	0.097	0.127	0.109
		100425	STYRENE	0.535	0.227	0.267	0.394	0.399	0.513	0.488
		100470	BENZONITRILE					0.00	0.01	0.01
		105679	2,4-DIMETHYLPHENOL					0.00	0.00	
		106423	P-XYLENE		0.51	0.50	0.43	0.47	0.59	0.56
		106445	P-CRESOL		0.05	0.05	0.06	0.04	0.05	0.05
		108383	M-XYLENE		0.53	0.48	0.43	0.45	0.58	0.55
		108394	M-CRESOL		0.06	0.05	0.06	0.05	0.06	0.05
		108883	TOLUENE	3.58	1.39	0.93	1.16	1.19	1.58	1.48
		108952	PHENOL	0.60	0.11	0.08	0.07	0.07	0.09	0.08
		110543	HEXANE				0.08	0.18	0.18	0.23
		110861	PYRIDINE				0.04	0.06	0.07	0.07
		120127	ANTHRACENE	0.01	0.75	0.26	0.74	0.78	0.67	0.66
		129000	PYRENE					1.30	1.19	1.18
		1319773	CRESOLS (MIXED ISOMERS)	0.25						
		132649	DIBENZOFURAN	0.04	0.65	0.88	0.73	0.66	0.56	0.55
		1330207	XYLENE (MIXED ISOMERS)	0.92						
		191242	BENZO(G,H,I)PERYLENE				0.19	0.28	0.27	0.26
		193395	INDENO(1,2,3-CD)PYRENE					0.29	0.29	0.28
		206440	FLUORANTHENE					1.97	1.80	1.81
		207089	BENZO(K)FLUORANTHENE					0.27	0.22	0.22
		208968	ACENAPHTHYLENE					1.10	0.22	0.22
		218019	CHRYSENE					1.50	1.47	1.42
		50000	FORMALDEHYDE					0.01	0.01	0.01
		50328	BENZO(A)PYRENE					0.58	0.56	
		53703	DIBENZ(A,H)ANTHRACENE					0.09	0.09	0.09
		56553	BENZ(A)ANTHRACENE					1.39	1.35	1.38
		71432	BENZENE	6.11	5.79	2.99	2.39	2.62	3.25	3.17
		83329	ACENAPHTHENE					1.08	1.81	1.71
		85018	PHENANTHRENE		1.96	2.98	2.75	3.32	2.98	3.21
		86737	FLUORENE					1.21	1.11	1.07
		86748	CARBAZOLE					0.38	0.34	0.33
		91203	NAPHTHALENE	17.09	13.97	10.85	8.11	8.16	9.19	8.44
		91225	QUINOLINE	0.01	0.17	0.14	0.23	0.22	0.20	0.19
		92524	BIPHENYL	0.13	0.19	0.15	0.28	0.26	0.22	0.21
		95476	O-XYLENE		0.31	0.50	0.41	0.27	0.31	0.29
		95487	O-CRESOL		0.02	0.02	0.04	0.05	0.07	0.06
		95636	1,2,4-TRIMETHYLBENZENE				0.19	0.09	0.13	0.13
		98828	CUMENE	0.122	0.008					
		PBC	LEAD COMPOUNDS				1.20E-05	1.53E-05	1.53E-05	
		POM	POLYCYCLIC ORGANIC MATT	19.62	5.27	9.04	11.94	15.95	14.85	8.44

Allegheny County Health Department
Air Quality Program
Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004

Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
KOSMOS CEMENT COMPANY	15225	7647010	HYDROCHLORIC ACID	7.97	9.06	9.60	1.36			
		7723140	PHOSPHORUS (YELLOW OR WHITE)			3.10	0.44			
		CRC	CHROMIUM COMPOUNDS			0.35	0.05			
		NIC	NICKEL COMPOUNDS			0.16	0.02			
		PBC	LEAD COMPOUNDS	0.01	0.14	0.02	0.00			
LAUREL MOUNTAIN WHIRLPOOLS, INC.	15145	100425	STYRENE	4.10	3.72	3.58	3.35	5.31	25.97	14.95
		110543	HEXANE				0.003	0.003	0.004	0.003
		131113	DIMETHYL PHTHALATE	0.05	0.04	0.04	0.03	0.07	0.00	0.86
		78933	METHYL ETHYL KETONE						0.13	0.13
		PB	LEAD			0.00	0.00	0.00	0.00	0.00
LIBERTY POLYGLAS PULTRUSIONS	15122	100425	STYRENE	10.00	9.83	9.39	6.27	5.76	6.00	7.378938
		110543	HEXANE							0.01
LIBERTY-PITTSBURGH SYSTEMS, INC.	15225	108101	METHYL ISOBUTYL KETONE	0.08	0.11	0.12	0.13	0.11		
		108883	TOLUENE				0.00	0.03		
		110543	HEXANE					0.00		
		1330207	XYLENE (MIXED ISOMERS)	0.00	0.03	0.01	0.02	0.02		
		67561	METHANOL	1.38	2.01	1.89	1.99	1.65		
		GLYET	GLYCOL ETHERS	0.03	0.03	0.06	0.10	0.09		
LINDY PAVING(TRUMBULL)	100414	100414	ETHYL BENZENE			0.04	0.03	0.04	0.03	0.04
		108883	TOLUENE			0.02	0.02	0.02	0.02	0.03
		110543	HEXANE			0.14	0.12	0.14	0.12	0.17
		1330207	XYLENE (MIXED ISOMERS)			0.03	0.03	0.03	0.03	0.04
		18540299	CHROMIUM (VI)			6.65E-05	7.29E-04	8.42E-04		8.27E-05
		193395	INDENO(1,2,3-CD)PYRENE							1.29E-06
		205992	BENZ(E)ACEPHENANTHRYLENE							1.84E-05
		207089	BENZO(K)FLUORANTHENE							7.53E-06
		218019	CHRYSENE							3.31E-05
		50000	FORMALDEHYDE			0.46	0.41	0.47	0.39	5.69E-01
		50328	BENZO(A)PYRENE							1.82E-06
		56553	BENZ(A)ANTHRACENE							3.86E-05
		71432	BENZENE			0.058	0.052	0.060	0.050	0.072
		71556	METHYL CHLOROFORM			0.007	0.006	0.007	0.006	0.009
		7439976	MERCURY		4.41e-5	3.82E-05	3.43E-05	3.96E-05	3.29E-05	4.41E-05
		7440473	CHROMIUM						0.001	0.001
		75070	ACETALDEHYDE			0.192				
		PB	LEAD		3.17e-5	9.87E-05	8.87E-05	1.36E-02	8.55E-05	3.17E-05
		PNA	POLYNUCLEAR AROMATICS				0.03	0.03	0.02	0.03

Allegheny County Health Department Air Quality Program Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004										
Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
LTV STEEL COMPANY- PITTSBURGH COKE PLANT	15207	71432	BENZENE	2.46						
		7664417	AMMONIA	12.68						
		POM	POLYCYCLIC ORGANIC MATTER	0.56						
MARATHON ASHLAND PETROLEUM LLC	15025	100414	ETHYL BENZENE	0.02	0.02	0.01				
		108883	TOLUENE	0.30	0.29	0.16				
		110543	HEXANE	0.36	0.35	0.19				
		1330207	XYLENE (MIXED ISOMERS)	0.12	0.11	0.06				
		540841	2,2,4-TRIMETHYLPENTANE	0.18	0.17	0.10				
		71432	BENZENE	0.20	0.20	0.11				
		PBC	LEAD COMPOUNDS			2.15E-05				
MARSH ASPHALT, INC. - DRAVOSBURG PLANT	15304	100414	ETHYL BENZENE	0.10	0.08	0.10	0.07	0.01	0.00	
		106514	QUINONE	0.01	0.01	0.01	0.01			
		108883	TOLUENE	0.05	0.05	0.05	0.03	0.00	0.00	
		110543	HEXANE					0.02	0.01	
		1330207	XYLENE (MIXED ISOMERS)	0.13	0.11	0.13	0.08	0.00	0.00	
		18540299	CHROMIUM (VI)		0.00	0.00	0.00	0.00	0.00	
		50000	FORMALDEHYDE	0.03	0.02	0.03	0.02	0.07	0.05	
		71432	BENZENE	0.01	0.01	0.01	0.01	0.01	0.01	
		75070	ACETALDEHYDE	0.02	0.02	0.02	0.01			
		HGC	MERCURY COMPOUNDS		1.25E-05	1.47E-05	1.32E-05	5.77E-06	4.17E-06	
		PBC	LEAD COMPOUNDS		2.05E-05	2.40E-05	2.87E-05			
MAYVIEW STATE HOSPITAL	15017	110543	HEXANE						0.14	0.14
		PB	LEAD	3.34E-05	3.36E-05	5.55E-05	3.20E-05	3.58E-05	3.59E-05	3.17E-05
MCCONWAY & TORLEY CORP.	15201	108952	PHENOL				0.01	0.01	0.01	0.06
		110543	HEXANE			0.13		0.08	0.12	0.13
		1314563	PHOSPHOROUS OXIDE	0.03		0.02	0.02	0.03	0.03	0.09
		50000	FORMALDEHYDE	0.00		0.01				
		71432	BENZENE				0.11	0.15	0.17	0.70
		7439965	MANGANESE			0.03	0.03	0.05	0.34	3.95E-04
		7440020	NICKEL	0.03		0.03	0.03	0.05	0.00	1.75E-05
		7440473	CHROMIUM							0.20
		ASC	ARSENIC COMPOUNDS	1.10E-05						
		CDC	CADMIUM COMPOUNDS	5.70E-05						
		COC	COBALT COMPOUNDS	0.01		0.00				
		CRC	CHROMIUM COMPOUNDS		0.04	0.02	0.02	0.03	0.10	1.38E-05
		PB	LEAD							7.19E-03
		PBC	LEAD COMPOUNDS	6.10E-05		0.01			0.00	0.00
		SEC	SELENIUM COMPOUNDS	2.00E-05						

Allegheny County Health Department Air Quality Program Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004										
Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
MCKEES ROCKS FORGINGS	15136	110543	HEXANE		0.46	0.27	0.09	0.13		
MEDRAD, INC.	15051	75218	ETHYLENE OXIDE	0.67	1.03					
MERCY HOSPITAL OF PITTSBURGH	15219	110543	HEXANE				0.13	0.13	0.13	0.14
		1330207	XYLENE (MIXED ISOMERS)	0.1	0.10	0.10	0.10	0.01	0.01	0.01
		50000	FORMALDEHYDE	0.1	0.10	0.10	0.10	0.01	0.01	0.01
		67561	METHANOL	0.4	0.40	0.40	0.40	0.04	0.04	0.04
		74839	METHYL BROMIDE	1						
		75218	ETHYLENE OXIDE	3	0.34	0.27	0.23	0.56	0.48	0.40
		GLYET	GLYCOL ETHERS	0.25	0.25	0.25	0.25	0.25	0.25	0.25
		PB	LEAD				8.87E-06	1.45E-05	1.20E-05	1.76E-05
METALTECH	15219	110543	HEXANE			0.28	0.30	0.29	0.28	0.31
		PB	LEAD	6.46E-05	0	0	0	0	0	0
		SBC	ANTIMONY COMPOUNDS	0.00	0.00					
MOTOR COILS MANUFACTURING CO.	15104	100414	ETHYL BENZENE	0.07	0.05	0.02				
		107211	ETHYLENE GLYCOL			0.02				
		108883	TOLUENE	0.16	0.07	0.03				
		110543	HEXANE	1.27	0.75	0.05				
		1330207	XYLENE (MIXED ISOMERS)	0.17	0.17	0.08				
		18540299	CHROMIUM (VI)		0.00					
		67561	METHANOL	0.09	0.04	0.00				
		78933	METHYL ETHYL KETONE	0.29	0.42	0.19				
		COC	COBALT COMPOUNDS	0.02	0.03	7.90E-05				
		CRC	CHROMIUM COMPOUNDS			1.61E-04				
		GLYET	GLYCOL ETHERS	0.09	0.05					
		NIC	NICKEL COMPOUNDS		3.69E-04	1.40E-04				
		PBC	LEAD COMPOUNDS	3.99E-05	1.94E-05	7.56E-06				
NATIONAL ENERGY TECHNOLOGY LAB - PGH	15236	PBC	LEAD COMPOUNDS	5.56E-05	3.12E-05	1.56E-05	1.36E-05	1.51E-05	1.92E-05	5.86E-06

Allegheny County Health Department
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Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004

Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
NEVILLE CHEMICAL COMPANY	15225	100414	ETHYL BENZENE	2.31	1.99	2.08	2.00	1.69	2.77	4.64
		100425	STYRENE	3.77	3.68	2.38	2.13	1.90	1.63	3.41
		106990	1,3-BUTADIENE	0.01	0.01	0.04	0.03	0.00	0.06	
		106990	1,3-BUTADIENE							0.02
		107211	ETHYLENE GLYCOL						5.05E-05	
		108316	MALEIC ANHYDRIDE	9.00E-05	9.00E-05	9.00E-05	9.00E-05	9.00E-05	8.61E-04	
		108883	TOLUENE	7.01	6.59	6.66	6.85	6.92	10.52	4.95
		108907	CHLOROBENZENE	0.01	0.01	0.01	0.00	0.01	0.01	4.95
		108952	PHENOL	0.00	0.00	0.00	0.00	0.00	0.05	0
		110543	HEXANE	0.01	0.01	0.19	0.16	0.16	0.22	0.16
		120127	ANTHRACENE	0	3.69E-06	1.35E-07	1.34E-07	0	0	
		120127	ANTHRACENE		0.01					0.01
		127184	TETRACHLOROETHYLENE	0	0	0	0	0	0	
		1319773	CRESOLS (MIXED ISOMERS)	0	0	0	0	0	0	
		1330207	XYLENE (MIXED ISOMERS)	6.27	5.62	5.33	5.08	4.81	5.25	8.65
		2551137	TRIMETHYL BENZENE						0.97	1.68
		271896	BENZOFURAN							0.02
		67561	METHANOL	0.00	0.00	0.00	0.00	0.00	0.00	
		71432	BENZENE	4.92	5.80	4.18	4.14	4.14	5.30	3.64
		75092	METHYLENE CHLORIDE			0.01	0.00	0.00	0.00	
		7664417	AMMONIA	8.04	7.52	11.57	7.70	7.53	3.86	
		7664417	AMMONIA							0.64
		77736	DICYCLOPENTADIENE						5.38	6.54
		7782492	SELENIUM						1.18E-07	0.002
		85449	PHTHALIC ANHYDRIDE						2.02E-04	
		91203	NAPHTHALENE	0.85	1.20	1.22	1.05	1.00	2.55	2.61
		92524	BIPHENYL	0.197	0.197	0.002	0.002	0.002	5.90E-08	0
		95136	INDENE							0.12
		95636	1,2,4-TRIMETHYLBENZENE	3.74	3.10	3.77	2.48	3.45	3.01	3.10
		98828	CUMENE	0.20	0.19	0.28	0.23	0.17	0.23	0.98
		ASC	ARSENIC COMPOUNDS						1.72E-08	
		BEC	BERYLLIUM COMPOUNDS						2.05E-08	
		CDC	CADMIUM COMPOUNDS						3.54E-07	
		COC	COBALT COMPOUNDS						4.63E-07	
		CRC	CHROMIUM COMPOUNDS	1.26E-03	1.10E-01	1.09E-02	1.34E-03	1.21E-02	1.29E-05	
		HGC	MERCURY COMPOUNDS			1.50E-04	5.07E-04	0.00E+00	9.20E-06	
		MNC	MANGANESE COMPOUNDS						5.06E-07	
		PB	LEAD	1.51E-04	1.52E-04	1.18E-04	9.54E-04	8.95E-04	2.78E-05	4.67E-04
		POM	POLYCYCLIC ORGANIC MATTER			3.40E-03	0.00	0.00	0.00	2.90E-03
		SBC	ANTIMONY COMPOUNDS						3.95E-08	

Allegheny County Health Department
Air Quality Program
Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004

Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
NEXTECH	15145	110543	HEXANE			0.24	0.23	0.22	0.22	0.22
		PBC	LEAD COMPOUNDS	1.07E-04	0	0	0	0		
		SBC	ANTIMONY COMPOUNDS	2.37E-04	0	0	0	0		
NORTH COAST CALIG CORP	15136	108101	METHYL ISOBUTYL KETONE	2.75						
		108883	TOLUENE	4.40						
		108952	PHENOL	0.23						
		1330207	XYLENE (MIXED ISOMERS)	4.33						
		50000	FORMALDEHYDE	0.18						
		78933	METHYL ETHYL KETONE	17.11						
		GLYET	GLYCOL ETHERS	11.84						
NRG ENERGY CENTER PITTSBURGH	15212	PB	LEAD	6.46E-07	1.83E-05	6.92E-05	1.15E-04	6.46E-13	1.31E-05	6.21E-05
O. HOMMEL COMPANY	15106	67561	METHANOL	4.10	4.60	6.49	4.17			
		PBC	LEAD COMPOUNDS		0.04	0.03	0.02			
ORION POWER MIDWEST - BRUNOT ISLAND	15204	100414	ETHYL BENZENE				3.86E-03	4.17E-03	2.67E-03	2.22E-03
		106990	1,3-BUTADIENE				5.28E-04	3.97E-04	4.50E-04	4.44E-04
		107028	ACROLEIN				7.45E-04	8.09E-04	5.08E-04	4.19E-04
		108383	M-XYLENE				2.46E-03	2.41E-03	2.46E-03	2.44E-03
		108883	TOLUENE				1.62E-02	1.75E-02	1.14E-02	9.52E-03
		110543	HEXANE				2.00E-05	2.00E-05	2.00E-05	2.00E-05
		1330207	XYLENE (MIXED ISOMERS)				7.45E-03	8.09E-03	5.09E-03	4.19E-03
		50000	FORMALDEHYDE				0.091	0.127	0.092	0.069
		71432	BENZENE				0.003	0.003	0.003	0.002
		7439965	MANGANESE				0.037	0.027	0.037	0.021
		7439976	MERCURY				3.85E-05	2.77E-05	3.84E-05	3.15E-05
		7440020	NICKEL				1.74E-04	1.26E-04	1.74E-04	1.21E-04
		7440382	ARSENIC				4.33E-04	3.12E-04	4.32E-04	2.90E-04
		7440417	BERYLLIUM				2.57E-05	1.85E-05	2.56E-05	8.16E-06
		7440439	CADMIUM				1.63E-04	1.18E-04	1.63E-04	1.26E-04
		7440473	CHROMIUM				4.79E-04	3.45E-04	4.78E-04	2.90E-04
		75070	ACETALDEHYDE				0.005	0.005	0.003	0.003
		75569	PROPYLENE OXIDE				0.003	0.004	0.002	0.001
		75569	PROPYLENE OXIDE							0.002
		7664417	AMMONIA							0.720
		7782492	SELENIUM				1.05E-03	7.55E-04	1.05E-03	6.60E-04
		91203	NAPHTHALENE				1.20E-03	9.16E-04	1.15E-03	1.01E-03
		95636	1,2,4-TRIMETHYLBENZENE				1.84E-03	1.81E-03	1.84E-03	1.83E-03
		PB	LEAD	0.009	0.014	0.002	4.50E-04	3.23E-04	4.48E-04	3.69E-04
		POM	POLYCYCLIC ORGANIC MATTER				1.45E-03	1.14E-03	1.37E-03	1.20E-03

Allegheny County Health Department
Air Quality Program
Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004

Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
ORION POWER MIDWEST, CHESWICK STATION	15024	100414	ETHYL BENZENE				0.07	0.06	0.07	0.06
		100425	STYRENE				0.02	0.01	0.02	0.02
		100447	BENZYL CHLORIDE	0.32	0.42	0.46	0.53	0.42	0.53	0.45
		106934	ETHYLENE DIBROMIDE				0.00	0.00	0.00	0.00
		107028	ACROLEIN	0.13	0.17	0.19	0.22	0.17	0.22	0.18
		107062	ETHYLENE DICHLORIDE				0.03	0.02	0.03	0.03
		108054	VINYL ACETATE				0.01	0.00	0.01	0.00
		108383	M-XYLENE				6.10E-04	5.65E-04	5.95E-04	5.90E-04
		108883	TOLUENE				0.027	0.021	0.026	0.153
		108907	CHLOROBENZENE				0.017	0.013	0.017	0.014
		108952	PHENOL				0.012	0.010	0.012	0.010
		110009	FURAN				1.33E-06	1.05E-06	1.32E-06	1.12E-06
		110543	HEXANE				0.13	0.17	0.05	0.14
		117817	BIS(2-ETHYLHEXYL)PHTHALATE				0.06	0.04	0.05	0.05
		120127	ANTHRACENE				1.02E-07	1.74E-07		1.30E-07
		121142	2,4-DINITROTOLUENE				2.11E-04	1.66E-04	2.10E-04	1.78E-04
		123386	PROPIONALDEHYDE				0.287	0.226	0.286	0.242
		127184	TETRACHLOROETHYLENE				0.032	0.026	0.032	0.027
		129000	PYRENE				2.13E-07	3.63E-07		2.70E-07
		1330207	XYLENE (MIXED ISOMERS)				0.03	0.02	0.03	0.02
		1634044	METHYL TERT-BUTYL ETHER				0.03	0.02	0.03	0.02
		1746016	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN		8.51E-09	9.4E-09	3.86E-08	3.03E-08	3.83E-08	3.25E-09
		191242	BENZO(G,H,I)PERYLENE				5.12E-08	8.71E-08		6.48E-08
		193395	INDENO(1,2,3-CD)PYRENE				7.68E-08	1.31E-07		9.73E-08
		205823	BENZO(J)FLUORANTHENE				7.68E-08	1.31E-07		9.73E-08
		205992	BENZ(E)ACEPHENANTHRYLENE				7.68E-08	1.31E-07		9.73E-08
		206440	FLUORANTHENE				1.28E-07	2.18E-07		1.62E-07
		208968	ACENAPHTHYLENE				7.68E-08	1.31E-07		9.73E-08
		218019	CHRYSENE				7.68E-08	1.31E-07		9.73E-08
		3268879	OCTACHLORODIBENZO-P-DIOXIN		2.48E-07	2.73E-07				
		34465468	HEXACHLORODIBENZODIOXIN,1,2,3,6,7,8-		1.71E-08	1.89E-08				
		38998753	HEPTA CHLORO FURANS		4.57E-08	5.48E-08				
		39001020	OCTACHLORODIBENZOFURANS, TOTAL		3.95E-08	4.36E-08				
		50000	FORMALDEHYDE	0.109651	0.14	0.16	0.06	0.05	0.06	0.16
		50328	BENZO(A)PYRENE				3.45E-05	2.71E-05	3.42E-05	2.90E-05
		51207319	2,3,7,8-TETRACHLORODIBENZOFURAN		3.03E-08	3.35E-08				
		532274	2-CHLOROACETOPHENONE				0.005	0.004	0.005	0.004
		53703	DIBENZ(A,H)ANTHRACENE				5.12E-08	8.71E-08		
		56495	3-METHYLCHOLANTHRENE				7.68E-08	1.31E-07		9.73E-08
		56553	BENZ(A)ANTHRACENE				7.68E-08	1.31E-07		9.73E-08
		57117314	2,3,4,7,8-PENTACHLORODIBENZOFURAN		2.66E-08	3.35E-08				
		57117416	1,2,3,7,8-PENTACHLORODIBENZOFURAN		2.10E-07	2.32E-07				
		57976	DIMETHYLBENZ(A)ANTHRACENE				6.83E-07	1.16E-06		8.65E-07

Allegheny County Health Department Air Quality Program Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004										
Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
ORION POWER MIDWEST, CHESWICK STATION		60344	METHYLHYDRAZINE	0.08	0.10	0.11	0.13	0.10	0.13	0.11
		67663	CHLOROFORM				0.04	0.04	0.04	0.04
		71432	BENZENE	0.59	0.77	0.85	0.07	0.06	0.07	0.83
		71556	METHYL CHLOROFORM				0.02	0.01	0.02	0.01
		7439965	MANGANESE		0.29	0.32	0.27	0.34	0.43	0.31
		7439976	MERCURY	0.04	0.05	0.05	0.12	0.10	0.13	0.10
		7440020	NICKEL	0.13	0.17	0.18	0.21	0.21	0.26	0.18
		7440360	ANTIMONY				0.01	0.01	0.01	0.01
		7440382	ARSENIC		0.24	0.27	0.39	0.41	0.52	0.26
		7440417	BERYLLIUM				0.06	0.05	0.06	0.01
		7440439	CADMIUM	0.02	0.03	0.03	0.01	0.01	0.01	0.03
		7440473	CHROMIUM		0.15	0.17	0.21	0.25	0.31	0.17
		7440484	COBALT	0.05	0.06	0.07	0.04	0.05	0.06	0.06
		74839	METHYL BROMIDE		0.10	0.11	0.12	0.10	0.12	0.10
		74873	METHYL CHLORIDE	0.24	0.32	0.35	0.40	0.31	0.40	0.34
		75003	ETHYL CHLORIDE				0.03	0.02	0.03	0.03
		75070	ACETALDEHYDE	0.26	0.34	0.37	0.43	0.34	0.43	0.36
		75092	METHYLENE CHLORIDE				0.22	0.17	0.22	0.18
		75150	CARBON DISULFIDE	0.06	0.08	0.09	0.10	0.08	0.10	0.08
		75252	BROMOFORM					0.02	0.03	0.02
		7647010	HYDROCHLORIC ACID (adjus	785.84	1023.34	1130.43	1298.42	1021.93	1292.45	1093.85
		7664393	HYDROGEN FLUORIDE (adjus	74.47	96.98	107.13	123.05	96.85	122.48	103.66
		7664417	AMMONIA	0.42	0.42	0.23	176.64	139.03	0.23	0.38
		77781	DIMETHYL SULFATE				0.04	0.03	0.04	0.03
		7782492	SELENIUM		0.77	0.85	2.35	2.60	3.28	1.98
		78591	ISOPHORONE	0.26	0.35	0.38	0.44	0.34	0.44	0.37
		78933	METHYL ETHYL KETONE	0.18	0.23	0.26	0.29	0.23	0.29	0.25
		80626	METHYL METHACRYLATE				0.02	0.01	0.02	0.01
		83329	ACENAPHTHENE				7.68E-08	1.31E-07		9.73E-08
		85018	PHENANTHRENE				7.25E-07	1.23E-06		9.19E-07
		86737	FLUORENE				1.19E-07	2.03E-07		1.51E-08
		91203	NAPHTHALENE				0.010	0.008	0.010	0.008
		91576	2-METHYLNAPHTHALENE				1.02E-06	1.74E-06		1.30E-06
		92524	BIPHENYL				0.001	0.001	0.001	0.001
		95636	1,2,4-TRIMETHYLBENZENE				0.000	0.000	0.000	0.000
		98828	CUMENE				0.004	0.003	0.004	0.003
		98862	ACETOPHENONE				0.011	0.009	0.011	0.010
		CNC	CYANIDE COMPOUNDS	1.14	1.49	1.64	1.89	1.49	1.88	1.59
		PB	LEAD	0.21	0.27	0.30	0.29	0.23	0.14	0.27

Allegheny County Health Department Air Quality Program Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004										
Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
ORION POWER MIDWEST, PHILLIPS STATION	15081	100414	ETHYL BENZENE				3.50E-05	3.50E-05		
		108383	M-XYLENE				6.15E-04	6.15E-04		
		108883	TOLUENE				2.55E-04	2.55E-04		
		110543	HEXANE				5.00E-06	5.00E-06		
		71432	BENZENE				2.50E-05	2.50E-05		
		95636	1,2,4-TRIMETHYLBENZENE				4.60E-04	4.60E-04		
		PBC	LEAD COMPOUNDS	5.43E-05	8.05E-05	6.80E-05	0	0		
PANNIER CORPORATION, GRAPHICS DIVISION	15044	100414	ETHYL BENZENE		0.001	0.002	0.002	0.001	0.004	
		100425	STYRENE		3.35	4.25	3.65	3.66	3.47	3.80
		108883	TOLUENE		0.55	0.77	0.33	0.12	0.54	0.42
		1330207	XYLENE (MIXED ISOMERS)		0.05	0.02	0.02	0.01	0.05	0.09
		78933	METHYL ETHYL KETONE		0.01	0.01	0.01	0.01	0.06	0.02
		80626	METHYL METHACRYLATE		2.13	2.69	2.31	2.31	2.20	2.40
		95636	1,2,4-TRIMETHYLBENZENE			0.05	0.02	0.04	0.04	0.06
		GLYET	GLYCOL ETHERS		0.14	0.57	0.29	0.20	0.42	0.29
		PB	LEAD		2.83E-07	3.37E-07	3.05E-07	2.75E-07	2.92E-07	3.03E-07
PARC TECHNICAL SERVICES, INC.	15238	108883	TOLUENE	0.65	0.41	0.14	0.64	0.41	0.64	0.65
		110543	HEXANE		0.02	0.02	0.02	0.01	0.01	0.01
		1330207	XYLENE (MIXED ISOMERS)		0.14	0.12	0.12	0.58	0.58	0.58
		71432	BENZENE			0.03	0.03	0.16	0.16	0.16
		7664417	AMMONIA		0.04	0.04	0.04	0.04	0.04	0.04
		7782505	CHLORINE			0.03	0.03	0.03	0.03	0.00
		7783064	HYDROGEN SULFIDE		0.34	0.34	0.34	0.34	0.34	0.34
		78933	METHYL ETHYL KETONE	0.5	0.25	5.00E-04	5.00E-04	5.00E-04	5.00E-04	0.3429
PENNSYLVANIA ELECTRIC COIL LTD	15015	100414	ETHYL BENZENE	0.10	0.36	0.38	0.02	0.05	0.16	0.00
		108101	METHYL ISOBUTYL KETONE		0.26	0.26				
		108883	TOLUENE	1.33	0.55	0.44	0.12	0.05	0.12	0.19
		108952	PHENOL		0.03	0.00		0.01	0.01	0.04
		110543	HEXANE				0.01	0.01	0.01	0.01
		1330207	XYLENE (MIXED ISOMERS)	1.51	1.93	2.02	0.18	0.76	0.71	1.12
		67561	METHANOL	2.36	0.50	0.50				
		71432	BENZENE	0.33	0.03	0.00				
		71556	METHYL CHLOROFORM	0.05	0.00	0.00				
		74873	METHYL CHLORIDE	0.06						
		78933	METHYL ETHYL KETONE	0.14	0.12	0.14		0.20	0.29	0.09
		PB	LEAD		0.2	0.2	0	2.74E-07	2.74E-07	2.54E-07

Allegheny County Health Department Air Quality Program Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004										
Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
PITT PENN OIL COMPANY	15030	107211	ETHYLENE GLYCOL	1.93	1.69	1.75	0.94	0.59	0.35	0.31
		67561	METHANOL	12.80	12.73	12.74	9.49	5.39	3.64	3.53
		8052413	STODDARD SOLVENT					0.04		
PITTSBURGH ALLEGHENY COUNTY THERMAL, LTD	15222	110543 PB	HEXANE LEAD	8.13E-07	3.35E-06	1.04E-05	3.31E-05	0	2.47E-05	0.85 2.38E-05
PITTSBURGH BREWING CO. PITTSBURGH	15201	7647010	HYDROCHLORIC ACID	2.90	1.99	2.76	2.54	4.03	4.76	4.43
		7664393	HYDROGEN FLUORIDE	0.36	0.25	0.35	0.32	0.50	0.59	0.55
		7664417	AMMONIA	0.25	0.25	1.50	1.90	1.88	1.58	1.77
		PB	LEAD	2.60E-02	7.51E-04	1.04E-03	9.58E-04	1.52E-03	1.79E-03	1.55E-03
PITTSBURGH ELECTRICAL INSULATION	15120	108883	TOLUENE	3.22	3.22	5.45	0.34	0.49	0.16	0.24
		110543	HEXANE				0.00	0.00	0.00	0.02
		67561	METHANOL	2.12	2.12	3.34	0.23	0.23	0.13	0.17
		78933	METHYL ETHYL KETONE	0.18	0.18	0.73	0.04	0.03	0.03	0.04
		PB	LEAD					0	3.94E-07	4.24E-06
PITTSBURGH IAP/ARS	15108	100414	ETHYL BENZENE							2.11E-04
		100425	STYRENE							5.07E-07
		106934	ETHYLENE DIBROMIDE							9.08E-07
		106990	1,3-BUTADIENE							6.17E-05
		107028	ACROLEIN							1.92E-04
		108883	TOLUENE							3.87E-04
		108907	CHLOROBENZENE							5.50E-07
		110543	HEXANE							2.23E-02
		1330207	XYLENE (MIXED ISOMERS)							1.24E-03
		50000	FORMALDEHYDE							1.91E-03
		540841	2,2,4-TRIMETHYLPENTANE							0
		542756	1,3-DICHLOROPROPENE							5.42E-07
		56235	CARBON TETRACHLORIDE							7.55E-07
		67561	METHANOL							1.31E-04
		67663	CHLOROFORM							5.84E-07
		71432	BENZENE							8.83E-04
		75014	VINYL CHLORIDE							3.06E-07
		75070	ACETALDEHYDE							7.76E-04
		75092	METHYLENE CHLORIDE							1.76E-06
		78933	METHYL ETHYL KETONE							8.40E-04
		79005	1,1,2-TRICHLOROETHANE							6.52E-07
		79345	1,1,2,2-TETRACHLOROETHANE							1.08E-06
		91203	NAPHTHALENE							1.41E-04
		CRC	CHROMIUM COMPOUNDS							8.08E-05
		HGC	MERCURY COMPOUNDS							1.25E-06
		PAH	PAH							1.57E-04

Allegheny County Health Department Air Quality Program Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004										
Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
PITTSBURGH TERMINALS CORP NEVILLE ISLAND	15225	PB	LEAD							8.60E-06
		100414	ETHYL BENZENE			0.07	0.05	0.06	0.03	0.02
		108383	M-XYLENE				0.24	0.25	0.17	0.14
		108883	TOLUENE	0.16	0.34	0.78	0.56	0.53	0.37	0.30
		108952	PHENOL				0.00	0.00	0.00	0.00
		110543	HEXANE	1.66	1.99	0.95	0.62	0.60	0.44	0.36
		1319773	CRESOLS (MIXED ISOMERS)		0.00					
		1330207	XYLENE (MIXED ISOMERS)	0.12	0.12	0.35	0.01	0.00	0.00	
		1634044	METHYL TERT-BUTYL ETHER	1.39	1.68					
		534521	4,6-DINITRO-O-CRESOL			0.00	0.00	0.00	0.00	0.00
		540841	2,2,4-TRIMETHYLPENTANE				0.31	0.30	0.22	0.18
		71432	BENZENE	0.22	0.27	0.53	0.35	0.36	0.25	0.21
		91203	NAPHTHALENE		1.17E-04	2.70E-04	6.80E-04	5.20E-04	0.00	0.00
		92524	BIPHENYL				0.00	0.00	0.00	0.00
		95487	O-CRESOL				6.00E-05	0.00	0.00	0.00
		98828	CUMENE				5.00E-04	5.61E-04	0.00	0.00
		POM	POLYCYCLIC ORGANIC MATTER						0.01	0.01
PITTSBURGH TERMINALS CORP. - CORAOPOLIS	15108	100414	ETHYL BENZENE	0.09	0.01	0.03	0.03	0.03	0.04	0.05
		108883	TOLUENE	0.46	0.34	0.45	0.47	0.41	0.47	0.55
		110543	HEXANE	0.49	0.38	0.54	0.53	0.45	0.57	0.56
		1330207	XYLENE (MIXED ISOMERS)	0.16	0.11	0.17	0.18	0.15	0.20	0.34
		540841	2,2,4-TRIMETHYLPENTANE	0.25	0.18	0.26	0.25	0.41	0.29	0.33
		71432	BENZENE	0.28	0.20	0.29	0.28	0.47	0.32	0.38
		91203	NAPHTHALENE			1.91E-04				
		HGC	MERCURY COMPOUNDS			5.40E-07				
		POM	POLYCYCLIC ORGANIC MATTER						0.01	0.02
PPG INDUSTRIES - CHEMICALS TECHNICAL CTR	15146	100414	ETHYL BENZENE				8.60E-04			
		106423	P-XYLENE				0.02			
		107062	ETHYLENE DICHLORIDE	0.00	0.01	0.01		0.11		
		107211	ETHYLENE GLYCOL	0.13	0.24	0.31	0.05	0.14		
		107879	2-PENTANONE							0.17
		107982	1-METHOXY-2-PROPANOL					0.20		
		108101	METHYL ISOBUTYL KETONE	0.05	0.03		0.24	0.10		0.13
		108214	ISOPROPYL ACETATE					0.46		
		108247	ACETIC ANHYDRIDE					0.35	0.48	
		108883	TOLUENE	1.84	1.52		0.06	0.52	3.30	1.88
		108907	CHLOROBENZENE	0.45	0.12	0.07	0.63	0.25		
		108907	CHLOROBENZENE							0.95
		108952	PHENOL				0.002			
		109999	TETRAHYDROFURAN			0.18	0.71	0.49	4.59	0.87
		110543	HEXANE	0.18	0.62	0.12	0.65	0.49	0.41	0.24

Allegheny County Health Department Air Quality Program Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004										
Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
PPG INDUSTRIES - CHEMICALS TECHNICAL CTR		110805	2-ETHOXYETHANOL							0.17
		110827	CYCLOHEXANE					0.23		
		117817	BIS(2-ETHYLHEXYL)PHTHALATE				0.01			
		121448	TRIETHYLAMINE	0.00	0.16		0.04			0.23
		122996	2-PHENOXYETHANOL	0.09	0.47					
		123864	BUTYL ACETATE					0.22		
		127184	TETRACHLOROETHYLENE							0.27
		1330207	XYLENE (MIXED ISOMERS)				0.004	0.12		0.97
		1330207	XYLENE (MIXED ISOMERS)	0.08	0.12		0.74	0.31		
		141786	ETHYL ACETATE					0.75	0.02	1.31
		142825	HEPTANE					0.80	1.47	0.67
		142961	1,1-OXYBISBUTANE					0.26	0.15	0.98
		1634044	METHYL TERT-BUTYL ETHER				0.002			
		50000	FORMALDEHYDE				0.08			
		5124301	METHYLENE BIS(4-CYCLOHEXYLISOCYANATE)						0.21	
		60297	1,1'-OXYBISETHANE							0.21
		64197	ACETIC ACID					0.12		0.17
		64742525	DISTILLATES, (PETROLEUM), HYDROTREATED H					0.73		
		67561	METHANOL	0.80	0.37	0.13	0.55	0.38	1.39	1.12
		67630	ISOPROPANOL							0.35
		67663	CHLOROFORM	0.11	0.36	0.08	0.14	0.39	1.73	1.07
		68122	DIMETHYLFORMAMIDE, N,N-	0.01	0.10	0.02	0.04			
		681845	SILICIC ACID, TETRAMETHYL ESTER					0.35		
		71238	PROPANOL					0.17		0.12
		74884	METHYL IODIDE				0.002			
		75058	ACETONITRILE		0.40	0.09		1.09	0.42	2.71
		75092	METHYLENE CHLORIDE					1.85	1.39	2.13
		75343	ETHYLIDENE DICHLORIDE	0.24	0.83	0.06	0.00			
		7647010	HYDROCHLORIC ACID	0.74	0.56		0.16			
		7664393	HYDROGEN FLUORIDE	0.03	0.01					
		77781	DIMETHYL SULFATE	0.11	0.11	0.10	0.12			
		78104	SILICIC ACID, TETRAETHYL ESTER					0.27		
		78933	METHYL ETHYL KETONE	0.04	0.05		0.10			0.23
		79005	1,1,2-TRICHLOROETHANE				0.00			
		79016	TRICHLOROETHYLENE	0.02			0.02			
		84742	DIBUTYL PHTHALATE		0.05		8.00E-04			
		872504	1-METHYL-2-PYRROLIDINONE							0.22
		95501	1,2-DICHLOROBENZENE							0.44
		98828	CUMENE				0.003			
		98862	ACETOPHENONE	0.03	0.01	0.01				
		PB	LEAD	0	0	0	0	0	0	0

Allegheny County Health Department
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Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004

Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
PPG INDUSTRIES, INC. SPRINGDALE	15144	110543	HEXANE							0.04
		100414	ETHYL BENZENE	1.53	1.10	0.44	0.35	0.40	0.24	0.32
		108101	METHYL ISOBUTYL KETONE	24.12	25.02	19.57	16.51	18.33	13.27	12.40
		108883	TOLUENE	33.52	36.60	31.94	28.22	30.41	24.45	17.47
		1330207	XYLENE (MIXED ISOMERS)	39.45	40.65	33.61	29.71	32.00	25.77	18.39
		78933	METHYL ETHYL KETONE	59.30	62.90	54.23	48.33	51.81	13.75	29.87
		PB	LEAD	0.50	0.23	0.07	0.04	0.05	0.04	0.01
PRECOAT METALS, A DIV. OF SEQUA COATINGS	15132	100414	ETHYL BENZENE	0.32	1.90	0.01	1.09	1.34	0.93	0.89
		102409	GLYCOL ETHER 102409		3.62	2.40	6.97	8.38	8.50	9.64
		107211	ETHYLENE GLYCOL		0.04	0.00	0.00	0.00	0.00	0.00
		108101	METHYL ISOBUTYL KETONE	0.60	1.37	0.44	1.65	1.25	1.54	1.14
		108883	TOLUENE	0.58	2.09	0.30	1.38	0.23	0.50	0.25
		131113	DIMETHYL PHTHALATE	0.24	0.05	0.01	0.08	0.03	0.17	0.17
		1330207	XYLENE (MIXED ISOMERS)	1.66	2.99	0.60	4.96	5.30	3.71	4.46
		50000	FORMALDEHYDE	0.09	0.26	0.00	0.04	0.07	0.04	0.03
		78591	ISOPHORONE	0.88	2.28	0.60	3.54	1.68	2.08	2.48
		78933	METHYL ETHYL KETONE	3.54	4.71	0.32	1.69	3.81	3.64	4.60
		79469	2-NITROPROPANE	0.00						
		91203	NAPHTHALENE	0.07	0.20	0.05	0.34	0.39	0.55	0.00
		95636	1,2,4-TRIMETHYLBENZENE	0.28	1.45	0.18	3.95	4.15	0.00	
		GLYET PB	GLYCOL ETHERS LEAD	2.17	1.01E-05	1.14E-05	1.79E-05	1.24E-05	1.83E-05	1.20E-05
PRESSURE CHEMICAL COMPANY	15201	108883	TOLUENE	6.60	1.10	8.30	0.28	1.55	0.31	0.48
		110543	HEXANE	0.70	2.10	3.60	1.40	2.19	2.60	2.60
		1330207	XYLENE (MIXED ISOMERS)					0.53	0.43	0.25
		1634044	METHYL TERT-BUTYL ETHER		2.70	0.00	0.00	0.00	0.00	0
		67561	METHANOL	9.40	6.40	5.80	10.00	3.10	12.00	10.72
		75092	METHYLENE CHLORIDE	0.80	0.53	1.70	0.36	0.00	0.00	0

Allegheny County Health Department Air Quality Program Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004										
Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
PRUETT-SCHAFFER CHEMICAL CO., INC.	15204	110543	HEXANE							0.00
		100414	ETHYL BENZENE		0.02	0.02	0.02	0.01	0.01	0.01
		106423	P-XYLENE		0.12	0.11	0.08	0.05	0.04	0.06
		108101	METHYL ISOBUTYL KETONE	0.04	0.04	0.56	0.55	0.09	0.11	0.10
		108383	M-XYLENE		0.30	0.26	0.17	0.09	0.10	0.14
		108883	TOLUENE	0.25	0.08	0.20	0.22	0.05	0.03	0.08
		111762	2-BUTOXY ETHANOL					0.42	0.59	0.58
		1330207	XYLENE (MIXED ISOMERS)	0.14						
		16065831	CHROMIUM (III)		4.15E-04	0.00	4.87E-04	1.59E-04	5.55E-05	1.29E-04
		2807309	2-PROPOXYETHANOL		0.01	0.00				
		78933	METHYL ETHYL KETONE	0.34	0.71	0.33	0.36	0.05	0.08	0.07
		95476	O-XYLENE		0.10	0.10	0.06	0.03	0.04	0.06
		CR	CHROMIUM (III)	0.002						
		GLYET	GLYCOL ETHERS	0.12						
		NIC	NICKEL	0.01	0.01	0	0.002	0.006	0.000	0.001
RANBAR TECHNOLOGY INC.	15116	100414	ETHYL BENZENE	1.70	1.96	1.83	1.91	2.47	1.00	0.02
		108101	METHYL ISOBUTYL KETONE	2.84	2.67	2.78	2.27	2.52	1.49	0.02
		108883	TOLUENE	1.20	0.83	0.78	0.68	1.17	0.81	0.01
		111762	2-BUTOXY ETHANOL						2.50E-03	3.52E-05
		112345	2-(2-BUTOXYETHOXY) ETHANOL						2.50E-03	3.52E-05
		1330207	XYLENE (MIXED ISOMERS)	6.77	7.85	7.51	7.62	9.87	4.01	0.10
		7647010	HYDROCHLORIC ACID		0.00	0.00	0.00	0.00	0.00	0.00
		78933	METHYL ETHYL KETONE	0.06	0.06	0.13	0.01	0.06	0.06	7.80E-04
		85449	PHTHALIC ANHYDRIDE	2.05	0.29	0.09	0.09	0.11	0.05	0.009
		PB	LEAD		0	0	0	0	0	0

Allegheny County Health Department
Air Quality Program
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Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
REDLAND BRICK INC. - HARMAR PLANT	15024	7782505	CHLORINE							0.072
		108883	TOLUENE	0.005	0.004	0.005	0.004	0.008	0.008	0.009
		16065831	CHROMIUM (III)				0.000	0.003	0.003	0.003
		71432	BENZENE	0.09	0.08	0.09	0.08	0.14	0.15	0.16
		7439965	MANGANESE						0.02	0.02
		7440382	ARSENIC		0.001	0.001	0.001	0.002	0.002	0.002
		7440417	BERYLLIUM		3.19E-05	3.58E-05	3.25E-05	5.77E-05	5.91E-05	2.32E-05
		7440473	CHROMIUM					2.05E-06	1.33E-06	1.13E-06
		74873	METHYL CHLORIDE	0.02	0.02	0.02	0.02	0.03	0.03	0.04
		75003	ETHYL CHLORIDE	0.02	0.02	0.02	0.02	0.03	0.03	0.03
		7647010	HYDROCHLORIC ACID	2.37	1.97	2.24	1.70	0.03	2.42	0.95
		7664393	HYDROGEN FLUORIDE	7.67	6.39	7.23	5.59	0.05	8.04	2.98
		7782492	SELENIUM	0.01	0.01	0.01	0.01	0.02	0.02	0.01
		7782505	CHLORINE	0.04	0.04	0.04	0.04	0.06	0.07	0.07
		78933	METHYL ETHYL KETONE	0.01	0.01	0.01	0.01	0.01	0.01	0.01
		86737	FLUORENE						1.42	
		HG	MERCURY	2.53E-04	2.20E-04	2.48E-04	2.26E-04	4.02E-04	4.10E-04	4.14E-04
		PB	LEAD	0.005	0.004	0.005	0.004	0.007	0.008	0.008
REICHHOLD, INC.	15017	100414	ETHYL BENZENE		0.21					
		100425	STYRENE	2.81	4.42	3.01	2.63	2.55	3.64	3.09
		106514	QUINONE		0.02					
		107211	ETHYLENE GLYCOL	0.098	0.094	0.001	0.001	0.001	0.001	0.001
		108316	MALEIC ANHYDRIDE	0.48	0.39	0.29	0.25	0.28	0.18	0.28
		108883	TOLUENE		0.11					
		110543	HEXANE				0.21	0.21	0.19	0.17
		111466	BIS(2-HYDROXYETHYL) ETHER					0.01	0.01	0.03
		1330207	XYLENE (MIXED ISOMERS)		0.27					
		17557232	NEOPENTYL GLYCOL DIGLYCIDYL ETHER		0.12	0.04	0	0		
		18540299	CHROMIUM (VI)		4.01E-05					
		50000	FORMALDEHYDE		0.05					
		71432	BENZENE		0.02					
		75070	ACETALDEHYDE		0.04					
		85449	PHTHALIC ANHYDRIDE	0.678	0.23	0.15	0.33	0.37	0.35	0.35
		ASC	ARSENIC COMPOUNDS		5.22E-05					
		BEC	BERYLLIUM COMPOUNDS		1.70E-04					
		CDC	CADMIUM COMPOUNDS		4.06E-05					
		GLYET	GLYCOL ETHERS	0.562	0.00	0	0	0	0	0
		HGC	MERCURY COMPOUNDS		6.92E-05					
		MNC	MANGANESE COMPOUNDS		1.24E-04					
		NIC	NICKEL COMPOUNDS		1.05E-04					
		PB	LEAD	0	7.54E-03	1.66E-05	1.48E-05	1.53E-05	4.47E-05	1.85E-05
		SEC	SELENIUM COMPOUNDS		4.99E-05					

Allegheny County Health Department Air Quality Program Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004										
Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
ROYSTON LABORATORIES DIVISION	15238	108883	TOLUENE	3.17	3.07	4.66	6.08	2.34	2.43	5.81
		1330207	XYLENE (MIXED ISOMERS)	1.13	0.83	1.93	2.44	1.65	1.68	0.29
		78933	METHYL ETHYL KETONE	1.00	0.88	1.20	1.62	2.10	2.27	0.36
SANYO CHEMICAL & RESIN, INC.	15088	100414	ETHYL BENZENE				0.005	0.005		
		100425	STYRENE				0.82	0.86	0.64	0.72
		103651	PROPYL BENZENE				0.006	0.006		
		108883	TOLUENE				0.68	0.67	0.23	0.25
		110543	HEXANE							0.02
		1330207	XYLENE (MIXED ISOMERS)				0.36	0.32	0.32	0.69
		2551137	TRIMETHYL BENZENE				0.008	0.008		
		71432	BENZENE				0.001	0.001		
		91203	NAPHTHALENE				0.001	0.001		
		98828	CUMENE				0.03	0.03		
SCHENLEY SCHOOL	15203	110543	HEXANE						0.02	0.02
SERVSTEEL, INC.	15064	110543	HEXANE			0.03	0.02			
		50328	BENZO(A)PYRENE			0.006	0.006			
		56553	BENZ(A)ANTHRACENE			0.031	0.029			
		POM	POLYCYCLIC ORGANIC MATTER		1.9290	2.9310	2.6700			
SHALER AREA INTERMEDIATE SCHOOL	15116	110543	HEXANE						0.009	0.009
SHENANGO INC.	15225	100414	ETHYL BENZENE		0.008	0.006	0.009	0.007	0.006	0.006
		100425	STYRENE	0.04	0.03	0.03	0.04	0.03	0.03	0.02
		105679	2,4-DIMETHYLPHENOL				0.00			
		108054	VINYL ACETATE				0.04	0.04	0.04	0.04
		108883	TOLUENE	1.63	0.83	0.75	0.89	0.52	0.49	0.45
		108952	PHENOL	1.92	1.84	1.86	1.85	0.67	0.68	0.70
		110543	HEXANE			0.04	0.15	0.15	0.14	0.08
		120127	ANTHRACENE	0.02	0.05	0.03	0.04	0.04	0.04	0.05
		123911	1,4-DIOXANE				0.04	0.04	0.04	0.04
		129000	PYRENE	0.02	0.00	0.01	0.05	0.03	0.04	0.11
		1319773	CRESOLS (MIXED ISOMERS)	0.18	0.18	0.19	0.19	0.18	0.18	0.18
		132649	DIBENZOFURAN	0.01	0.01	0.01	0.03	0.03	0.03	0.06
		1330207	XYLENE (MIXED ISOMERS)	0.53	0.34	0.25	0.24	0.09	0.07	0.05
		193395	INDENO(1,2,3-CD)PYRENE				0.004	0.004	0.004	0.012
		203645	PHENANTHRENE, CYCLOPENTA-,					0.01	0.02	0.05
		205992	BENZ(E)ACEPHENANTHRYLE	0.044623			0.01	0.01	0.01	0.02
		206440	FLUORANTHENE		0.02		0.04	0.04	0.04	0.11
		207089	BENZO(K)FLUORANTHENE	0.006527	0.003	0.000	0.007	0.006	0.006	0.02

Allegheny County Health Department
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Estimated Point Source HAP, H2S & NH3 Emissions for 1998-2004											
Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year							
				1998	1999	2000	2001	2002	2003	2004	
SHENANGO INC.		208968	ACENAPHTHYLENE				0.0343	0.0326	0.0332	0.0998	
		218019	CHRYSENE			0.003	0.015	0.013	0.013	0.036	
		31711532	METHYLPHENANTHRENES				0.0104	0.0094	0.01027	0.0104	
		50000	FORMALDEHYDE	0.04	0.04	0.07	0.05	0.05	0.04	0.04	
		50328	BENZO(A)PYRENE	0.01	0.00	0.00	0.01	0.01	0.01	0.03	
		53703	DIBENZ(A,H)ANTHRACENE	0.001	0.001	0.000	0.001	4.64E-04	4.62E-04	0.002	
		56553	BENZ(A)ANTHRACENE	0.02	0.01	0.00	0.01	0.01	0.01	0.03	
		67561	METHANOL	0.94	3.07	0.83	0.45	1.86	1.19	2.64	
		71432	BENZENE	11.03	7.29	8.01	6.51	2.85	2.62	2.96	
		7439976	MERCURY				6.78E-04	1.44E-04	1.48E-04	1.37E-04	
		7440020	NICKEL				0.19	0.04	0.04	0.03	
		7440360	ANTIMONY				0.15	0.03	0.03	0.02	
		7440473	CHROMIUM				1.77	0.35	0.36	0.25	
		7440484	COBALT				0.08	0.02	0.02	0.01	
		74873	METHYL CHLORIDE				0.23	0.00	0.00	0.00	
		75058	ACETONITRILE					0.02	0.02	0.02	
		75150	CARBON DISULFIDE					1.41	1.35	1.38	1.36
		7664417	AMMONIA	27.72	2.02	9.25	8.10	7.75	7.93	7.88	
		7782505	CHLORINE	0.19	0.19	0.19	0.19	0.19	0.19	0.19	
		7783064	HYDROGEN SULFIDE	2.56	2.16	9.24	9.02	8.64	8.47	8.43	
		79345	1,1,2,2-TETRACHLOROETHANE					0.02	0.02	0.02	0.02
		80626	METHYL METHACRYLATE					0.04	0.04	0.04	0.05
		85018	PHENANTHRENE	0.06	0.08	0.05		0.16	0.14	0.17	0.32
		86737	FLUORENE		0.001	0.001		0.02	0.02	0.02	0.05
		91203	NAPHTHALENE	1.90	1.55	1.82		1.02	0.56	0.56	0.73
		91225	QUINOLINE	0.01	0.01	0.01		0.01	0.01	0.01	0.01
		92524	BIPHENYL	0.004	0.004	0.004		0.004	0.003	0.004	0.01
		ASC	ARSENIC COMPOUNDS	0.03	0.03	0.00					
		CDC	CADMIUM COMPOUNDS	0.01	0.01	0.00					
		CNC	CYANIDE COMPOUNDS	0.83	0.74	0.82		0.74	0.70	0.74	0.73
		MNC	MANGANESE COMPOUNDS	0.01	0.01	0.00					
		PAH	PAH						0.11	0.09	0.03
		PB	LEAD	0.23	0.19	0.00		0.002	0.006	0.004	0.005
		POM	POLYCYCLIC ORGANIC MATT	3.57	2.72	3.19					
SOUTH HIGH SCHOOL	15203	110543	HEXANE						0.01	0.01	
STATE CORRECTIONAL. INSTITUTION -- PGH	15233	110543	HEXANE							0.01	
		7647010	HYDROCHLORIC ACID	1.79	1.96	1.86	1.12	0.99	1.31	2.42	
		7664393	HYDROGEN FLUORIDE	0.22	0.25	0.23	0.14	0.12	0.16	0.30	
		PB	LEAD	6.74E-04	7.40E-04	7.03E-04	4.20E-04	3.73E-04	4.94E-04	8.48E-04	

Allegheny County Health Department
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Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
SUBURBAN GENERAL HOSPITAL	15202	1330207	XYLENE (MIXED ISOMERS)	0.007	0.000					
		50000	FORMALDEHYDE	0.041	0.010	0.000				
		67561	METHANOL	0.149	0.030	0.030				
		75218	ETHYLENE OXIDE	0.650	0.650	0.650				
		7647010	HYDROCHLORIC ACID	10.060	0.845					
		CDC	CADMIUM COMPOUNDS	0.002	0.000					
		GLYET	GLYCOL ETHERS	0.270	0.110					
		HGC	MERCURY COMPOUNDS	0.036	0.003					
		PBC	LEAD COMPOUNDS	0.024	0.002	0.000				
SUN REFINING AND MARKETING, BLAWNOX	15238	100414	ETHYL BENZENE	0.100		0.007	0.003	0.006	0.001	0.018
		108883	TOLUENE	0.100	0.042	0.086	0.055	0.066	0.018	0.078
		110543	HEXANE		0.034	0.033	0.006	0.030	0.027	0.036
		1330207	XYLENE (MIXED ISOMERS)	0.100	0.037	0.082	0.057	0.063	0.004	0.079
		1634044	METHYL TERT-BUTYL ETHER	0.130	0.005	0.008	0.003	0.009	0.005	0.006
		71432	BENZENE		0.059	0.059	0.011	0.050	0.021	0.066
		91203	NAPHTHALENE		0.000	0.001	0.001	0.002	0.000	0.001
		95636	1,2,4-TRIMETHYLBENZENE			0.035	0.000	0.003	0.000	2.00E-04
		98828	CUMENE			0.002	0.002	0.002	0.000	0.019
SUNOCO CHEMICALS INC. .NEVILLE ISLAND	15225	108316	MALEIC ANHYDRIDE	0.004	0.004	0.004	0.003	0.003	0.003	0.004
		108883	TOLUENE				0.22	0.06	0.00	
		117817	BIS(2-ETHYLHEXYL)PHTHALA	0.93		0.54	0.30	0.34	0.30	0.31
		80057	BISPHENOL A	0.30	0.30	0.20	0.20	0.18	0.00	0.00
		85449	PHTHALIC ANHYDRIDE	5.23	1.83	1.01	1.46	2.12	0.71	0.95
SUNOCO PARTNERS MARKETING \$ TERMINALS	15201	100414	ETHYL BENZENE		0.23	0.02	0.02	0.02	0.13	0.03
		108883	TOLUENE	0.49	3.89	0.13	0.12	0.12	0.37	0.28
		110543	HEXANE	0.28	0.62	0.13	0.13	0.13	0.14	0.13
		1330207	XYLENE (MIXED ISOMERS)	0.28	0.22	0.15	0.13	0.14	0.68	0.69
		1634044	METHYL TERT-BUTYL ETHER	0.56	2.76	0.02	0.02	0.04	0.78	0.45
		71432	BENZENE	0.12	0.34	0.03	0.04	0.04	0.07	0.04
		91203	NAPHTHALENE		0.00	0.00	0.48	0.00	0.00	0.00
		95636	1,2,4-TRIMETHYLBENZENE			0.06	0.01	0.01	0.19	0.20
		98828	CUMENE		0	4.00E-04	4.00E-04	4.00E-04	4.00E-04	5.00E-04

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Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
THE LANE CONSTRUCTION BRIDGEVILLE	15017	100414	ETHYL BENZENE	0.23	0.21	0.14	0.29	0.29	0.18	0.18
		106514	QUINONE	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		108883	TOLUENE	0.12	0.11	0.11	0.09	0.09	0.08	0.08
		110543	HEXANE						0.01	0.01
		1330207	XYLENE (MIXED ISOMERS)	0.30	0.27	0.27	0.23	0.23	0.22	0.22
		18540299	CHROMIUM (VI)		4.01E-05	4.85E-05	7.95E-05	7.73E-05	7.78E-05	3.93E-06
		193395	INDENO(1,2,3-CD)PYRENE							2.55E-08
		205992	BENZ(E)ACEPHENANTHRYLENE							7.65E-07
		207089	BENZO(K)FLUORANTHENE							1.06E-06
		218019	CHRYSENE							3.19E-07
		50000	FORMALDEHYDE	0.06	0.05	0.05	0.06	0.06	0.06	0.06
		50328	BENZO(A)PYRENE							2.55E-08
		53703	DIBENZ(A,H)ANTHRACENE							7.86E-10
		56553	BENZ(A)ANTHRACENE							3.82E-07
		71432	BENZENE	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		7439976	MERCURY		6.92E-05	1.16E-04	1.73E-04	1.68E-04	1.67E-04	3.46E-05
		75070	ACETALDEHYDE	0.04	0.04	0.04	0.03	0.03	0.03	0.03
		7647010	HYDROCHLORIC ACID							1.30
		ASC	ARSENIC COMPOUNDS		5.22E-05	1.52E-04	2.39E-04	2.32E-04	2.35E-04	
		BEC	BERYLLIUM COMPOUNDS		1.70E-04	5.80E-04	8.58E-04	8.33E-04	8.38E-04	
		CDC	CADMIUM COMPOUNDS		4.06E-05	4.91E-05	7.73E-05	7.51E-05	7.59E-05	
		MNC	MANGANESE COMPOUNDS		1.24E-04	0.004	0.006	0.006	0.006	
		NIC	NICKEL COMPOUNDS		1.05E-04	0.02	0.03	0.03	0.03	
		PB	LEAD	2.03E-03	0.008	0.01	0.01	0.01	0.01	7.44E-05
		SEC	SELENIUM COMPOUNDS		4.99E-05	0.00	0.00	0.00	0.00	

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Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
THE LANE MCKEES ROCK ASPHALT PLANT	15136	100414	ETHYL BENZENE	0.29	0.38	0.29	0.42	0.25	0.30	0.34
		106514	QUINONE	0.02	0.03	0.02	0.05	0.03	0.04	0.04
		108883	TOLUENE	0.16	0.21	0.16	0.19	0.11	0.14	0.15
		110543	HEXANE							0.02
		1330207	XYLENE (MIXED ISOMERS)	0.38	0.49	0.37	0.52	0.30	0.37	0.42
		18540299	CHROMIUM (VI)		1.06E-04	8.96E-05	1.57E-04	8.19E-05	0.00E+00	7.38E-06
		193395	INDENO(1,2,3-CD)PYRENE							4.61E-08
		205992	BENZ(E)ACEPHENANTHRYLENE							1.45E-06
		207089	BENZO(K)FLUORANTHENE							2.00E-06
		218019	CHRYSENE							5.84E-07
		50000	FORMALDEHYDE	0.08	0.10	0.07	0.14	0.08	0.10	0.11
		50328	BENZO(A)PYRENE							4.92E-09
		53703	DIBENZ(A,H)ANTHRACENE							1.48E-08
		56553	BENZ(A)ANTHRACENE							7.07E-07
		71432	BENZENE	0.03	0.04	0.03	0.05	0.03	0.04	0.04
		7439976	MERCURY		2.42E-04	2.00E-04	3.48E-04	1.86E-04	2.45E-04	6.46E-05
		75070	ACETALDEHYDE	0.06	0.07	0.06	0.06	0.04	0.04	0.05
		7647010	HYDROCHLORIC ACID							1.69
		ASC	ARSENIC COMPOUNDS		3.33E-04	2.83E-04	4.71E-04	2.43E-04	3.29E-04	
		BEC	BERYLLIUM COMPOUNDS		0.001	0.001	0.002	0.001	0.001	
		MNC	MANGANESE COMPOUNDS		0.008	0.006	0.013	0.007	0.009	
		NIC	NICKEL COMPOUNDS		0.04	0.04	0.06	0.03	0.04	
		PB	LEAD	0.02	0.01	0.01	0.02	0.01	0.01	1.37E-04
		SEC	SELENIUM COMPOUNDS		0.002	0.002	0.003	0.002	0.002	

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Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
THE VALSPAR CORPORATION	15233	100414	ETHYL BENZENE			0.65	0.49	0.53	0.47	0.47
		108054	VINYL ACETATE					0.003	0.003	0.003
		108101	METHYL ISOBUTYL KETONE	6.13	1.92	1.90	2.53	3.00	2.96	2.91
		108883	TOLUENE	5.73	2.24	2.19	2.45	0.59	0.61	0.59
		108952	PHENOL					0.00	0.00	0.00
		110543	HEXANE					0.03	0.04	0.04
		111762	2-BUTOXY ETHANOL					0.37	0.42	0.39
		131113	DIMETHYL PHTHALATE						8.74E-06	2.16E-05
		1330207	XYLENE (MIXED ISOMERS)	9.81	2.90	2.84	2.90	2.35	2.08	2.03
		140885	ETHYL ACRYLATE						3.63E-05	8.97E-05
		50000	FORMALDEHYDE					0.04	0.22	0.20
		67561	METHANOL					9.93E-04	2.10E-04	2.00E-04
		78591	ISOPHORONE		2.24	2.25	0.24	0.05	0.03	0.10
		78933	METHYL ETHYL KETONE	12.85	3.77	3.57	3.69	2.34	2.48	2.61
		91203	NAPHTHALENE	0.12	0.22	0	0.007	0.007	0.021	0.063
		95636	1,2,4-TRIMETHYLBENZENE						0.022	0.026
		98828	CUMENE					0.04	0.04	0.04
		GLYET	GLYCOL ETHERS		4.12	4.12	0.06	0.03	0.07	0.12
TRINITY INDUSTRIES PLANT 112	15136	110543 PB	HEXANE LEAD						0.35	0.54 1.14E-04

Allegheny County Health Department Air Quality Program Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004										
Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
TRINITY INDUSTRIES, INC. PLT # 441	15136	100414	ETHYL BENZENE	0.29	0.04	0.07	0.13	0.13		
		100425	STYRENE				0.38	0.38		
		101688	METHYLENE DIPHENYL DIISOCYANATE			0.04	0.00	0.00		
		101779	4,4'-METHYLENEDIANILINE	0.13	0.00	0.00	0.00	0.00		
		106423	P-XYLENE			0.05	0.09	0.09		
		107982	1-METHOXY-2-PROPANOL					0.20		
		108101	METHYL ISOBUTYL KETONE	0.64	0.30	0.42	0.05	0.05		
		108383	M-XYLENE			0.20	0.28	0.28		
		108883	TOLUENE	1.10		0.86	1.73	0.21		
		108952	PHENOL	0.11	0	9.00E-05	0	0		
		111762	2-BUTOXY ETHANOL					0.01		
		111773	2-(2-METHOXYETHOXY) ETHANOL					0		
		112345	2-(2-BUTOXYETHOXY) ETHANOL					0		
		123864	BUTYL ACETATE			0.15	0.1	0.1		
		1330207	XYLENE (MIXED ISOMERS)	1.58	0.83	0.483	0.23	0.23		
		50000	FORMALDEHYDE	0.05	0	3.00E-05	0	0		
		67561	METHANOL	0.04	0.02	0.08	0.01	0.01		
		78933	METHYL ETHYL KETONE	1.61	6.52	3.84	5.32	5.32		
		91203	NAPHTHALENE	0.08	0.000	0.002	0.000	0.000		
		95476	O-XYLENE			0.90	0.45	0.45		
		98828	CUMENE			0.02	0.01	0.01		

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Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
TUBE CITY, INC.	15236	110543 PBC	HEXANE LEAD COMPOUNDS			9.00E-04	9.00E-04 1.10E-04	6.30E-05	0.001 1.42E-04	0.003 0.000
UNION ELECTRIC STEEL CORP.	15106	110543 PBC	HEXANE LEAD COMPOUNDS		5.40E-06	0.09 5.50E-06	0.08 5.19E-06	0.10 6.10E-06	0.11 6.95E-06	0.12
UNITED REFINING CO.E SPRINGDALE ASPHALT TERMINAL	15144	110543 50000 7439976 7440473 PB	HEXANE FORMALDEHYDE MERCURY CHROMIUM LEAD	2.39E-05	0	0.02 0	0.02 0	0.01 0	0.006 0	0.006 2.69E-04 2.53E-05 2.53E-05 3.44E-06
UNIV OF PITT APPLIED RESEARCH CTR- UPARC	15238	110543 120127 129000 191242 192972 193395 206440 207089 208968 218019 50328 53703 56553 56832736 83329 85018 86737 91203 91576 92524 PB	HEXANE ANTHRACENE PYRENE BENZO(G,H,I)PERYLENE BENZO(E)PYRENE INDENO(1,2,3-CD)PYRENE FLUORANTHENE BENZO(K)FLUORANTHENE ACENAPHTHYLENE CHRYSENE BENZO(A)PYRENE DIBENZ(A,H)ANTHRACENE BENZ(A)ANTHRACENE BENZOFUORANTHENES ACENAPHTHENE PHENANTHRENE FLUORENE NAPHTHALENE 2-METHYLNAPHTHALENE BIPHENYL LEAD			0.15 3.77E-05	0.15 3.79E-05	0.15 9.35E-09 3.47E-08 5.73E-09 3.28E-09 1.88E-09 4.69E-08 7.8E-10 6.91E-08 7.25E-09 9.4E-10 2.92E-09 8.4E-09 1.31E-09 1.70E-08 2.29E-07 1.91E-07 1.01E-06 2.63E-07 1.68E-06 4.54E-05	0.17 4.13E-05	0.16 3.85E-05
UNIVERSAL STAINLESS & ALLOY PRODUCTS	15017	CRC NIC PB	CHROMIUM COMPOUNDS NICKEL COMPOUNDS LEAD	0.35 0.15 0.02	0.35 0.15 0.02	0.35 0.15 0.02	0.36 0.16 0.02	0.35 0.15 0.02	0.34 0.15 0.02	0.38 0.17 0.02

Allegheny County Health Department Air Quality Program Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004										
Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
UNIVERSITY OF PITTSBURGH (MAIN CAMPUS)	15213	100414	ETHYL BENZENE						2.25E-04	1.35E-04
		108101	METHYL ISOBUTYL KETONE						0.008	0.004
		108883	TOLUENE					0.07		0.08
		110543	HEXANE					0.08		0.07
		111762	2-BUTOXY ETHANOL						0.004	0.002
		120127	ANTHRACENE					5.81E-07		
		129000	PYRENE					1.45E-06		
		1330207	XYLENE (MIXED ISOMERS)					0.05		0.02
		1330207	XYLENE (MIXED ISOMERS)						0.02	
		18540299	CHROMIUM (VI)					7.50E-07		
		191242	BENZO(G,H,I)PERYLENE					1.83E-07		
		192972	BENZO(E)PYRENE					5.22E-09		
		193395	INDENO(1,2,3-CD)PYRENE					1.77E-07		
		206440	FLUORANTHENE					2.07E-06		
		207089	BENZO(K)FLUORANTHENE					1.21E-07		
		208968	ACENAPHTHYLENE					1.42E-06		
		218019	CHRYSENE					1.80E-07		
		50000	FORMALDEHYDE					0.003		
		50328	BENZO(A)PYRENE					1.02E-07		
		53703	DIBENZ(A,H)ANTHRACENE					2.02E-07		
		56495	3-METHYLCHOLANTHRENE					8.21E-08		
		56553	BENZ(A)ANTHRACENE					5.05E-07		
		56832736	BENZOFUORANTHENES					2.09E-09		
		57976	DIMETHYLBENZ(A)ANTHRACENE					7.30E-07		
		67561	METHANOL					0.05	0.04	0.04
		71432	BENZENE					0.01		
		7723140	PHOSPHORUS (YELLOW OR WHITE)						0.000035	0
		83329	ACENAPHTHENE					4.55E-07		
		84742	DIBUTYL PHTHALATE						0.006	0.005
		85018	PHENANTHRENE					8.31E-06		
		86737	FLUORENE					7.55E-06		
		91203	NAPHTHALENE					5.01E-05		
		91576	2-METHYLNAPHTHALENE					1.51E-06		
		92524	BIPHENYL					2.67E-06		
		95636	1,2,4-TRIMETHYLBENZENE					0.46		
		98828	CUMENE					0.04	0.02	0.02
		COC	COBALT COMPOUNDS					1.02E-06		
		CRC	CHROMIUM COMPOUNDS					9.87E-06	1.95E-04	1.60E-04
		GLYET	GLYCOL ETHERS						0.001	0.002
		MNC	MANGANESE COMPOUNDS					0.002		
		NIC	NICKEL COMPOUNDS					5.73E-06		
		PB	LEAD					2.46E-05	1.8313E-05	1.61E-05

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Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
UPMC - OAKLAND CAMPUS	15213	10035106	HYDROGEN BROMIDE	0.01	0.02	0.01	0.01	0.01	0.00	0.00
		110543	HEXANE						0.12	0.11
		75218	ETHYLENE OXIDE	0.00	0.00	0.17	0.22	0.45	0.11	0.06
		7647010	HYDROCHLORIC ACID	1.71	9.70	7.90	10.94	8.42	0.13	0.14
		7664393	HYDROGEN FLUORIDE	0.03	0.05	0.05	0.05	0.04	5.87E-04	6.12E-04
		HGC	MERCURY COMPOUNDS	0.02	0.03	0.03	0.04	0.03	0.000	0.001
		PB	LEAD	0.02	0.03	0.02	0.04	0.03	0.009	0.002
		SBC	ANTIMONY COMPOUNDS	0.003	0.004	0.004	0.004	0.003	5.04E-05	5.26E-05
UPMC MAGEE HOSPITAL	15213	110543	HEXANE						0.11	0.11
		1330207	XYLENE (MIXED ISOMERS)	0.33	0.33	0.33	0.33	0.33	0.33	0.33
		67561	METHANOL	0.10	0.10	0.10	0.10	0.10	0.10	0.10
		7439976	MERCURY					3.41E-05	2.05E-05	1.40E-04
		7440473	CHROMIUM					2.52E-05	1.51E-05	1.40E-04
		75218	ETHYLENE OXIDE	0.04	0	0	0			
		PB	LEAD	6.46E-07	4.05E-07	6.08E-07	6.08E-07	9.69E-06	6.83E-06	6.81E-06
UPMC MCKEESPORT	15132	107211	ETHYLENE GLYCOL					1.20E-05	1.10E-05	1.10E-05
		110543	HEXANE						0.06	0.07
		1333820	CHROMIC ACID		1.38E-04	1.38E-04	2.20E-04	5.50E-04	3.42E-04	5.50E-04
		50000	FORMALDEHYDE	0.07	0.07	0.11	0.92	0.14	0.18	0.12
		68476346	ALIPHATIC PETROLEUM DISTILLATE					3.50E-05	4.55E-04	5.50E-05
		75218	ETHYLENE OXIDE	0.17	0.07	0.03	0.03	0.07	0.05	0.07
		PB	LEAD	2.45E-06	3.25E-06	2.61E-05	4.48E-05	2.99E-06	5.08E-05	8.00E-07
UPMC SHADYSIDE	15232	10035106	HYDROGEN BROMIDE	0.007	0.008	0.002				
		110543	HEXANE						0.24	0.24
		1330207	XYLENE (MIXED ISOMERS)	0.99	0.99	1.00	1.00	1.00	1.00	1.00
		50000	FORMALDEHYDE	0.74	0.74	0.75	0.75	0.75	0.75	0.75
		75218	ETHYLENE OXIDE	0.0005	0.0005					
		7647010	HYDROCHLORIC ACID	1.32	5.92	1.55				
		7664393	HYDROGEN FLUORIDE	0.02	0.03	0.007				
		7782505	CHLORINE	0.02	0.03	0.007				
		ASC	ARSENIC COMPOUNDS	5.02E-05	5.65E-05	1.48E-05				
		BEC	BERYLLIUM COMPOUNDS	2.72E-06	3.08E-06	8.02E-07				
		CDC	CADMIUM COMPOUNDS	9.82E-04	1.11E-03	2.90E-04				
		CRC	CHROMIUM COMPOUNDS	1.22E-04	1.37E-04	3.59E-05				
		HGC	MERCURY COMPOUNDS	0.02	0.02	0.005				
		MNC	MANGANESE COMPOUNDS	8.90E-05	1.00E-04	2.63E-05				
		NIC	NICKEL COMPOUNDS	9.26E-05	1.04E-04	2.73E-05				
		PB	LEAD	0.01	0.01	0.00		5.99E-06	3.06E-05	2.03E-05
		SBC	ANTIMONY COMPOUNDS	0.002	0.003	0.001				
		110543	HEXANE						0.02	0.03

Allegheny County Health Department Air Quality Program Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004										
Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
UPMC SHADYSIDE		PBC	LEAD COMPOUNDS					9.46E-06	5.95E-06	6.92E-06
US AIRWAYS MAINTENANCE BASE	15231	100414	ETHYL BENZENE	0.20	0.26	0.26				
		100425	STYRENE	0.96	0.41	0.70				
		106887	1,2-EPOXYBUTANE					0.44	1.10	1.25
		107062	ETHYLENE DICHLORIDE			0.003				
		107211	ETHYLENE GLYCOL			0.004				
		108101	METHYL ISOBUTYL KETONE	0.12	0.15	0.20				
		108883	TOLUENE	1.10	0.90	1.06	0.38	0.11	0.41	0.15
		108952	PHENOL			0.02				
		110543	HEXANE	0.16	0.20	0.18	0.08			0.08
		111762	2-BUTOXY ETHANOL						0.22	0.24
		123911	1,4-DIOXANE			0.002				
		131113	DIMETHYL PHTHALATE	0.12	0.07	0.08				
		1330207	XYLENE (MIXED ISOMERS)	0.98	1.11	1.14	0.54	0.00	0.28	
		50000	FORMALDEHYDE			0.00				
		67561	METHANOL	0.29	0.54	0.66	0.40	0.36	0.42	0.59
		68122	DIMETHYLFORMAMIDE, N,N-			0.09				
		71432	BENZENE			3.00E-04				
		71556	METHYL CHLOROFORM	9.81	1.29	0.01				
		75014	VINYL CHLORIDE			0.00				
		75092	METHYLENE CHLORIDE	0.74	0.44	0.15				
		7664393	HYDROGEN FLUORIDE			3.00E-04				
		7723140	PHOSPHORUS (YELLOW OR WHITE)			0				
		78933	METHYL ETHYL KETONE	1.05	1.22	1.90	0.97	0.19	0.48	0.84
		79016	TRICHLOROETHYLENE			0.00			0.34	0.48
		79107	ACRYLIC ACID			0				
		822060	HEXAMETHYLENE-1,6-DIISOCYANATE			0.005				
		84742	DIBUTYL PHTHALATE			0.008				
		CDC	CADMIUM COMPOUNDS			0.10				
		COC	COBALT COMPOUNDS			0.02				
		CRC	CHROMIUM COMPOUNDS			0.12				
		GLYET	GLYCOL ETHERS	1.5348	1.7945	1.80	0.87	0.19		
		MNC	MANGANESE COMPOUNDS			0.09				
		NIC	NICKEL COMPOUNDS			0.03				
		PBC	LEAD COMPOUNDS			0.02				
		SBC	ANTIMONY COMPOUNDS			0.04				

Allegheny County Health Department Air Quality Program Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004										
Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
US STEEL CORPORATION - IRVIN PLANT	15034	107211	ETHYLENE GLYCOL	0.41	0.41	0.08	0.36	0.47	0.06	0.09
		108883	TOLUENE	0.13	0.13	0.06	0.26	0.35	0.04	0.07
		110543	HEXANE			1.33	1.02	1.63	1.55	2.26
		127184	TETRACHLOROETHYLENE	0.00	0.00	0.00	0.00	0.00		
		1330207	XYLENE (MIXED ISOMERS)	0.58	0.58	0.18	0.77	1.02	0.12	0.20
		67561	METHANOL	0.52	0.52	0.28	1.18	1.55	0.19	0.31
		75150	CARBON DISULFIDE				0.14	0.18	0.17	0.18
		7647010	HYDROCHLORIC ACID	18.88	17.94	16.00	47.32	29.67	31.03	32.73
		7664417	AMMONIA				0.64	0.86	0.79	0.85
		7782505	CHLORINE				0.27	0.36	0.33	0.36
		GLYET	GLYCOL ETHERS	0.13	0.13	0.05	0.05	0.00	0.05	0.05
		NIC	NICKEL COMPOUNDS		0	0	0	0	0	0
		PB	LEAD		0.008	0.02	0.02	0.02	0.02	0.01
		SBC	ANTIMONY COMPOUNDS		0	0.00	0.00	0.00	0.00	0.00

Allegheny County Health Department
Air Quality Program
Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004

Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
USS - CLAIRTON WORKS	15025	100414	ETHYL BENZENE	0.05	0.19	0.03	0.03	0.03	0.03	0.03
		100425	STYRENE	0.04	0.25	0.15	0.30	0.32	0.33	0.32
		107028	ACROLEIN				0.33	0.34	0.35	0.33
		107211	ETHYLENE GLYCOL		0.22	0.22	0.15	0.15	0.15	0.15
		108054	VINYL ACETATE				0.51	0.53	0.54	0.51
		108883	TOLUENE	9.36	4.12	2.83	5.22	5.37	5.50	23.84
		108952	PHENOL	22.36	13.89	22.77	21.45	22.18	22.67	21.26
		110543	HEXANE			0.78	0.31	0.57	0.75	1.22
		120127	ANTHRACENE	0.16		0.34	0.22	0.23	0.24	0.22
		123911	1,4-DIOXANE				0.51	0.53	0.54	0.51
		129000	PYRENE	0.13		0.11	0.53	0.58	0.61	0.61
		1319773	CRESOLS (MIXED ISOMERS)	0.06		1.89	1.79	1.85	1.89	1.77
		132649	DIBENZOFURAN			0.07	0.36	0.37	0.41	0.41
		1330207	XYLENE (MIXED ISOMERS)	2.84	1.39	0.91	0.76	0.77	0.67	0.67
		193395	INDENO(1,2,3-CD)PYRENE				0.05	0.05	0.06	0.06
		203645	PHENANTHRENE, CYCLOPENTA-,					0.24	0.23	0.24
		205992	BENZ(E)ACEPHENANTHRYLE	0.11			0.10	0.10	0.10	0.11
		206440	FLUORANTHENE	0.17			0.52	0.56	0.62	0.62
		207089	BENZO(K)FLUORANTHENE	0.02			0.08	0.08	0.09	0.09
		208968	ACENAPHTHYLENE				0.41	0.46	0.50	0.51
		218019	CHRYSENE			0.02	0.18	0.19	0.20	0.18
		31711532	METHYLPHENANTHRENES				0.13	0.14	0.15	0.15
		50328	BENZO(A)PYRENE	0.03			0.12	0.12	0.13	0.13
		53703	DIBENZ(A,H)ANTHRACENE				0.01	0.01	0.01	0.01
		56553	BENZ(A)ANTHRACENE	0.07		0.02	0.15	0.16	0.17	0.17
		67561	METHANOL	20.08	62.75	62.33	62.10	62.10	62.10	15.98
		71432	BENZENE	55.99	27.78	24.03	25.90	26.85	27.77	69.70
		7439976	MERCURY				0.002	0.002	0.002	0.002
		7440020	NICKEL				0.46	0.47	0.48	0.35
		7440360	ANTIMONY				0.35	0.37	0.37	0.29
		7440473	CHROMIUM				4.32	4.46	4.56	2.93
		7440484	COBALT				0.36	0.21	0.22	0.15
		74873	METHYL CHLORIDE				2.53	2.62	2.66	20.44
		75058	ACETONITRILE					0.29	0.30	0.28
		75150	CARBON DISULFIDE		0.72	18.42	17.26	18.31	18.13	17.04
		7647010	HYDROCHLORIC ACID (adjus	108.50	108.50	112.83	106.88	105.70	105.24	101.79
		7664417	AMMONIA	584.51	208.39	310.01	290.99	299.71	306.33	286.63
		7782505	CHLORINE			1.58	1.45	1.44	1.46	1.43
		7783064	HYDROGEN SULFIDE	162.61	137.22	149.50	141.27	145.47	149.71	141.28

Allegheny County Health Department Air Quality Program Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004										
Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
USS - CLAIRTON WORKS		79345	1,1,2,2-TETRACHLOROETHANE				0.25	0.26	0.27	0.25
		80626	METHYL METHACRYLATE				0.58	0.60	0.62	0.58
		85018	PHENANTHRENE	0.66		0.50	1.24	1.23	1.32	1.37
		86737	FLUORENE				0.22	0.23	0.24	0.26
		91203	NAPHTHALENE	9.17	4.52	5.57	4.14	4.28	4.39	4.65
		91225	QUINOLINE			0.13	0.12	0.12	0.13	0.12
		92524	BIPHENYL			0.04	0.04	0.04	0.04	0.04
		CE	COKE OVEN EMISSIONS	1.86						
		CNC	CYANIDE COMPOUNDS	30.51	28.02	36.45	35.98	37.13	38.02	35.74
		PB	LEAD	0.00		0.05	0.06	0.06	0.07	0.06
		POM	POLYCYCLIC ORGANIC MATTER	15.68	13.10	10.20				
USX CORPORATION - EDGAR THOMSON WORKS	15104	100414	ETHYL BENZENE	0.03						
		107211	ETHYLENE GLYCOL	0.21	0.21	0.22	0.17	0.16	0.12	0.19
		108883	TOLUENE	0.11	0.11	0.17	0.12	0.12	0.09	0.14
		108952	PHENOL	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		110543	HEXANE			1.02	0.78	1.14	0.77	0.74
		127184	TETRACHLOROETHYLENE	0.03						
		1330207	XYLENE (MIXED ISOMERS)	0.45	0.45	0.50	0.36	0.36	0.27	0.41
		50000	FORMALDEHYDE	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		67561	METHANOL	0.68	0.68	0.76	0.56	0.54	0.54	0.63
		7439965	MANGANESE							0.96
		7439976	MERCURY							2.57E-04
		7440020	NICKEL							0.009
		7440473	CHROMIUM							0.02
		75150	CARBON DISULFIDE			0.13	0.13	0.12	0.11	0.09
		7647010	HYDROCHLORIC ACID			17.61	17.62	16.08	15.74	13.11
		7664417	AMMONIA			0.60	0.60	0.55	0.54	0.45
		7723140	PHOSPHORUS (YELLOW OR WHITE)	0.15	0.50	0.54	0.43	0.60	0.61	0.65
		7782505	CHLORINE			0.25	0.25	0.23	0.22	0.19
		CRC	CHROMIUM COMPOUNDS		0.008	0.007	0.007	0.009	0.014	
		HGC	MERCURY COMPOUNDS		1.71E-04	1.66E-04	1.50E-04	2.05E-04	2.22E-04	
		MNC	MANGANESE COMPOUNDS	0.22	0.70	0.70	0.63	0.88	1.40	0.00
		PB	LEAD	0.03	0.18	0.16	0.17	0.19	0.18	0.42

Allegheny County Health Department
Air Quality Program
Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004

Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
VA MEDICAL CENTER - ASPINWAL FACILITY	15240	110543	HEXANE						0.03	0.04
		1330207	XYLENE (MIXED ISOMERS)	0.00	0.00					
		50000	FORMALDEHYDE	0.00	0.00					
		67561	METHANOL	0.02	0.00					
		7647010	HYDROCHLORIC ACID	3.80E-04	8.38E-04	0	0			
		PB	LEAD	0.00	1.96E-04	0	0			
VA MEDICAL CENTER - HIGHLAND DRIVE FACILITY	15206	110543	HEXANE						0.09	0.11
		50000	FORMALDEHYDE				0.003	0	0.00	0.00
		67561	METHANOL	0.05	0.05	0.07	0.03	0.01	0.05	0.05
		PB	LEAD			3.10E-05	1.68E-05	1.39E-05	2.34E-05	2.62E-05
VA MEDICAL CENTER - OAKLAND FACILITY	15240	110543	HEXANE						0.06	0.07
		1330207	XYLENE (MIXED ISOMERS)	0.07	0.15	0.06	0.09	0.06	0.06	0.04
		50000	FORMALDEHYDE	1.90	2.00	1.80	1.90	1.10	1.00	1.50
		67561	METHANOL		0.09	0.10	0.13	0.18	0.07	0.36
		75218	ETHYLENE OXIDE	0.18	0.16	0.11	0.13	0.40	0.40	0.40
		7647010	HYDROCHLORIC ACID	0.015	0.010	0.002	0.015	0.009	0.009	0.008
		7664393	HYDROGEN FLUORIDE			8.25E-06	6.53E-05	4.05E-05	4.05E-05	3.60E-05
		HGC	MERCURY COMPOUNDS			6.05E-06	4.79E-05	2.97E-05	2.97E-05	2.64E-05
		PB	LEAD	3.23E-05	2.35E-05	2.54E-05	6.40E-05	4.19E-05	4.03E-05	3.56E-05
VALLEY PROTEINS (PA), INC.	15225	110543	HEXANE			0.08	9.36E-06	2.30E-05	4.14E-05	1.02E-05
		7782505	CHLORINE	0.57	0.57	0.57	0.57	0.57	0.73	0.06
		PB	LEAD	5.17E-06	0	0	1.05E-06	1.58E-07	5.81E-06	
VORTEC U-PARC PROCESS TEST FACILITY	15238	7647010	HYDROCHLORIC ACID			2.80E-06	0	0		
		7664393	HYDROGEN FLUORIDE		0.006	0.002	0.003	0.003		
		PBC	LEAD COMPOUNDS			2.40E-06	0	0		
WATSON STANDARD COMPANY - HARWICK	15049	100414	ETHYL BENZENE	0.007	0.001	0.001	0.001	0.001	8.50E-04	
		108101	METHYL ISOBUTYL KETONE	0.19	0.24	0.66	0.35	0.67	0.69	0.59
		108883	TOLUENE	0.004				0.002	0.002	0.001
		111762	2-BUTOXY ETHANOL					3.93	3.05	
		1330207	XYLENE (MIXED ISOMERS)	0.14	0.03	0.09	0.25	0.42	0.40	0.38
		50000	FORMALDEHYDE	0.004	0.002	0.001	0.006	0.01	8.80E-04	
		78591	ISOPHORONE	0.19	0.23	0.27	0.28	0.45	0.44	0.41
		91203	NAPHTHALENE	0.01		0.06	0.27	0.16	0.13	0.15
		95636	1,2,4-TRIMETHYLBENZENE	0.007		0.61				
		GLYET	GLYCOL ETHERS	1.69	0.55					

Allegheny County Health Department Air Quality Program Estimated Point Source HAP+H2S & NH3 Emissions for 1998-2004										
Company Name	ZIP	Pollutant CAS#	Pollutant Name	Emissions - Tons per Year						
				1998	1999	2000	2001	2002	2003	2004
WATSON STANDARD COMPANY - NEVILLE ISLAND	15225	100414	ETHYL BENZENE	0.01	0.24	0.03	0.03	0.04	0.05	0.30
		108101	METHYL ISOBUTYL KETONE	0.42	0.54	0.26	0.40	0.47	0.40	
		108883	TOLUENE		0.02	0.003	8.00E-04	0.01	0.03	
		111762	2-BUTOXY ETHANOL					3.83	4.11	
		1319773	CRESOLS (MIXED ISOMERS)		5.00E-04	3.00E-04	0	0	0	0.16
		1330207	XYLENE (MIXED ISOMERS)	0.24	0.30	0.12	0.11	0.20	0.25	
		78591	ISOPHORONE	0.33	0.43	0.26	0.34	0.31	0.25	
		78795	ISOPRENE	0.003						
		91203	NAPHTHALENE		0.11	0.06	0.09	0.03	0.02	
		98828	CUMENE				0.02	0.03	0.03	
		GLYET	GLYCOL ETHERS	0.87	1.14					
WESTINGHOUSE SCHOOL	15208	110543 PB	HEXANE LEAD			1.21E-06	8.68E-07	2.65E-06	0.01 2.31E-06	0.01 1.89E-06
WHEMCO - HAYS PLANT	15120	110543	HEXANE			0.07	0.05	0.07	0.08	0.08
WHEMCO - WEST HOMESTEAD FACILITY	15120	108883	TOLUENE				0.07	0.00	0.00	0.00
		110543 PB	HEXANE LEAD			0.08	3.03E-07	0.05 3.67E-07	0.05 3.65E-07	0.05 9.77E-07
WINTHROP MANAGEMENT - ``		110543	HEXANE						0.13	0.11
WOODLINE PRODUCTS INC.	15084	100425	STYRENE			5.29	4.15			
		101688	METHYLENE DIPHENYL DIISOCYANATE			0.10	0.08			
		107211	ETHYLENE GLYCOL			0.001	7.50E-04			
		108883	TOLUENE			1.75	1.31			
		131113	DIMETHYL PHTHALATE			0.04	0.03			
		1330207	XYLENE (MIXED ISOMERS)			0.03	0.03			
		71556	METHYL CHLOROFORM			0.006	0.005			
		80626	METHYL METHACRYLATE			1.08	0.81			

3214.60792 2866.64797 3177.04575 3450.86612 3016.66908 3149.13782 2855.405



**Allegheny County Health Department
Air Quality Program
301 39th St., Bldg. #7
Pittsburgh, PA 15201**

**PM_{2.5} Chemical Speciation and Related
Comparisons at Lawrenceville and Liberty:
18-Month Results**

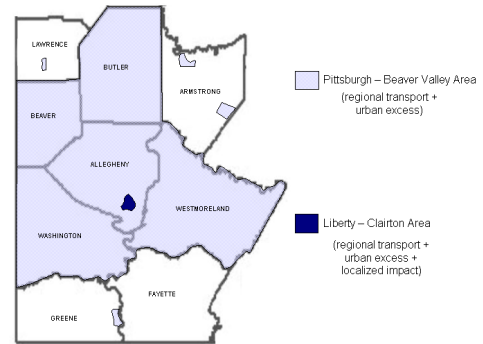
June 7, 2005
Prepared By
Jason Maranche

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1. Introduction

Allegheny County has operated two particulate matter – 2.5microns or less ($PM_{2.5}$) – chemical speciation monitors as part of EPA's STN network since 2001. Lawrenceville and Hazelwood were the initial sites of deployment, and species concentrations from these sites were nearly equal. The Hazelwood monitor was then moved to Liberty Borough in October 2003 to better ascertain $PM_{2.5}$ in Liberty-Clairton area.



Allegheny County was designated nonattainment for $PM_{2.5}$ as part of the Pittsburgh-Beaver Valley area in December 2004. At the same time, the Liberty Borough-Clairton area was designated a separate nonattainment area within Allegheny County.

Major species concentrations at Lawrenceville parallel those sampled at other Eastern U.S. metropolitan areas, while the concentrations at Liberty follow their own course. The differences in concentrations of many elements may provide clues to the regional, urban excess, and localized river valley components of $PM_{2.5}$ in Allegheny County.

This report shows species and pollutant comparisons between the two sites over the timeframe of October 2003-March 2005. All figures and tables represent 18-month data unless otherwise noted.

2. Sites

The Lawrenceville monitor site is an urban residential site, downwind from the Pittsburgh Central Business District (Downtown). Elevation is 918 feet above mean sea level (MSL), about 200 feet above river level.

The Liberty Borough monitor site is located in the Monongahela Valley, which contains a mix of urban residential, heavy industrial, and rural areas. The elevation is 1100 feet MSL, and the predominant winds are southwesterly.

Average temperature and pressure are lower at Liberty, coinciding with higher elevation. Elevation alone does not appear to play a role in $PM_{2.5}$ concentrations at Liberty, as other sites such as South Fayette measure lower concentrations at higher elevations than Liberty.

The speciation sampling frequency is higher at Lawrenceville (1-in-3) than at Liberty (1-in-6), so averages at Lawrenceville represent a larger array of values. For some figures in this report, dates have been matched to compare concurrent sampling days only.

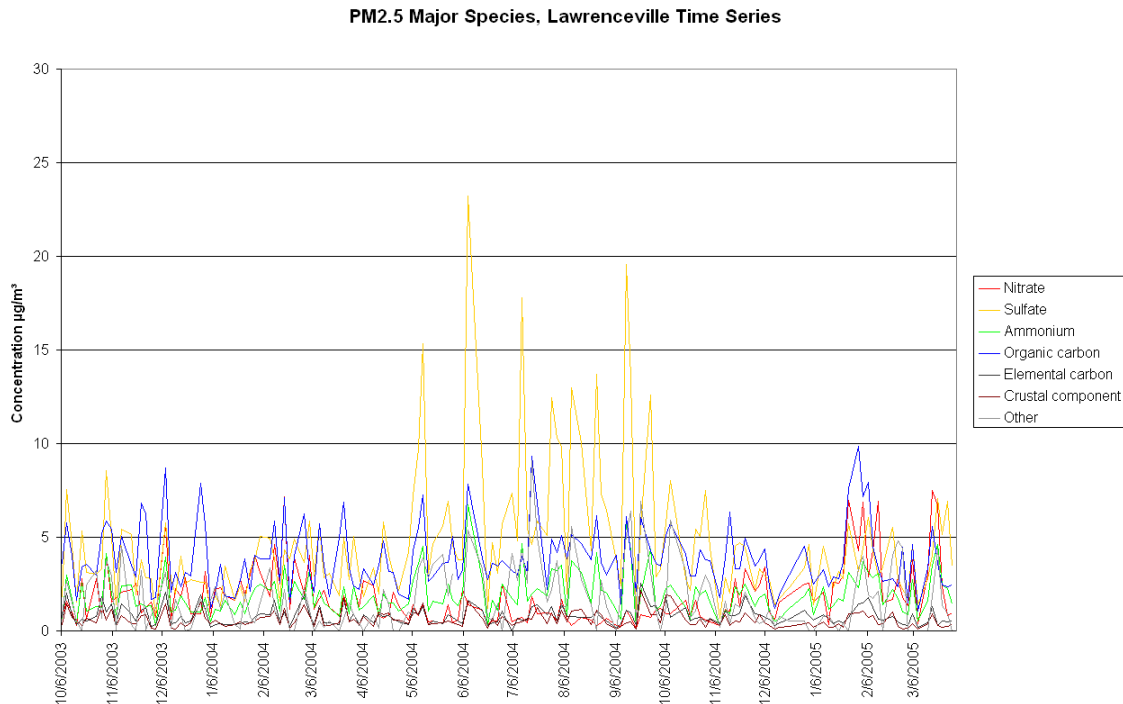
Both sites are collocated with other monitors, including daily $PM_{2.5}$ filter-based (FRM) and hourly continuous $PM_{2.5}$ monitors. Additionally, Lawrenceville measures ozone and NO_x , and Liberty measures PM_{10} , SO_2 , H_2S , and benzene.

Sites near Liberty include Glassport (PM_{10} , SO_2) and Lincoln (PM_{10}). These nearby sites have been included in this analysis for possible correlation to Liberty.

3. Major Species

Below are time series plots for Lawrenceville and Liberty PM_{2.5} major species over the 18-month timeframe.

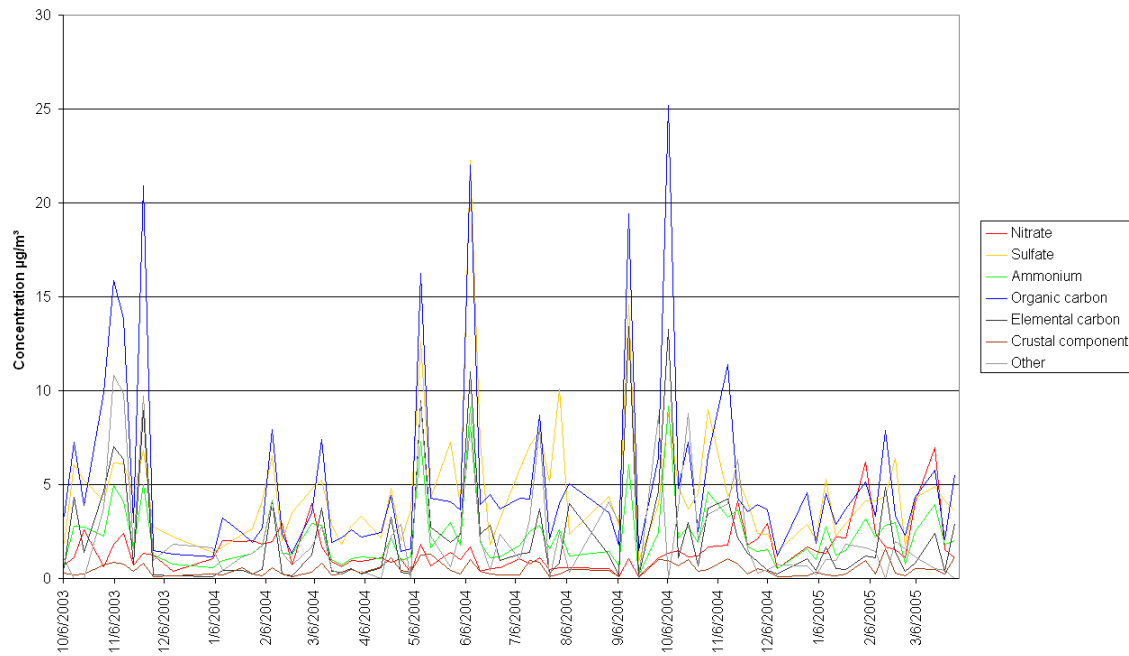
Lawrenceville is dominated by sulfates during summer months. In colder months, nitrates and organics tend to dominate.



In late January and early February 2005, an anomaly is evident by the exaggerated organic carbon and nitrate peaks. This is likely due to an exceptional high-pressure meteorological system that led to high PM_{2.5} throughout the Midwest and Northeast U.S.

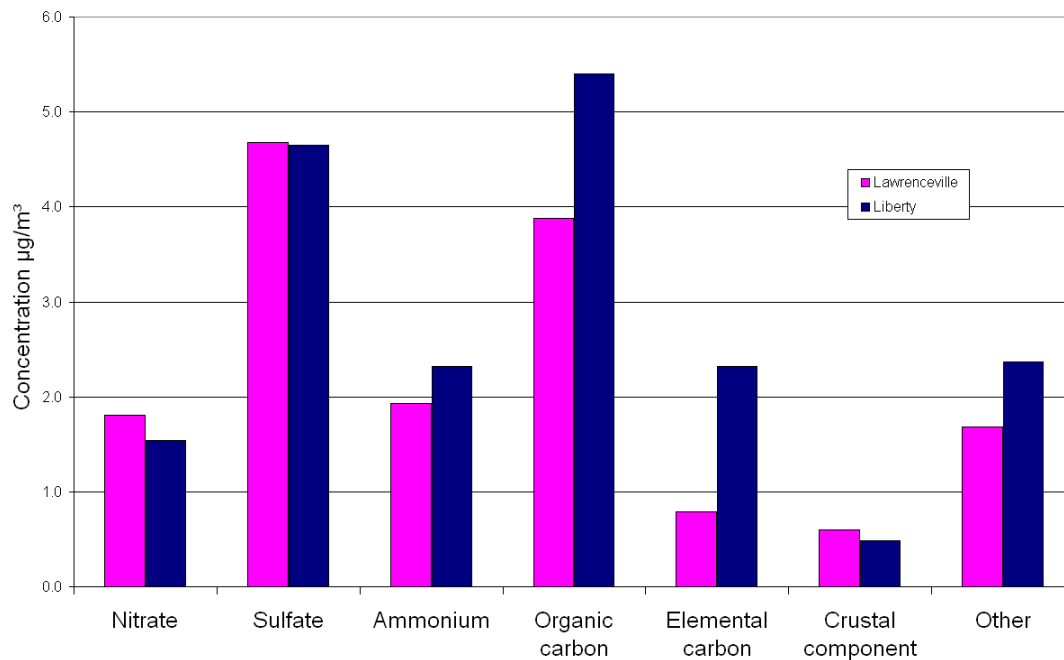
Liberty shows a much different pattern of major PM_{2.5} species over time. While it shows similar levels of sulfates and nitrates to Lawrenceville, it is dominated by organic and elemental carbon year-round.

PM2.5 Major Species, Liberty Time Series



The differences in average carbon levels, as well as ammonium and the “other” component, are shown below.

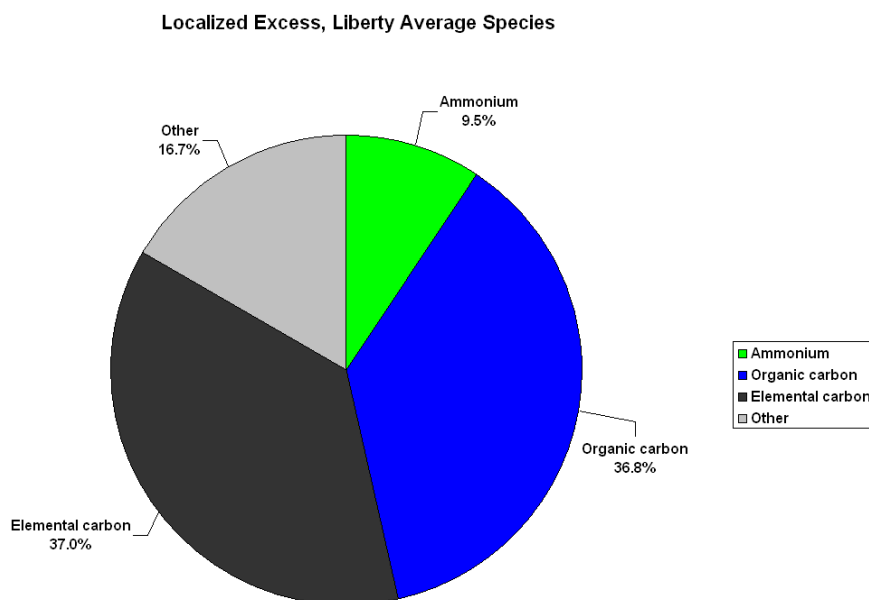
Major Species Averages, Lawrenceville and Liberty



Sulfates, nitrates, and crustal component are slightly lower at Liberty than at Lawrenceville.

Crustal component is a weighted average of the aluminum, silicon, calcium, iron, and titanium concentrations, representative of fine soil.

By calculating the differences of the average major species, localized excess at Liberty is given by the pie chart below. This excess represents the difference between the Lawrenceville and Liberty sites for species that are greater at Liberty.

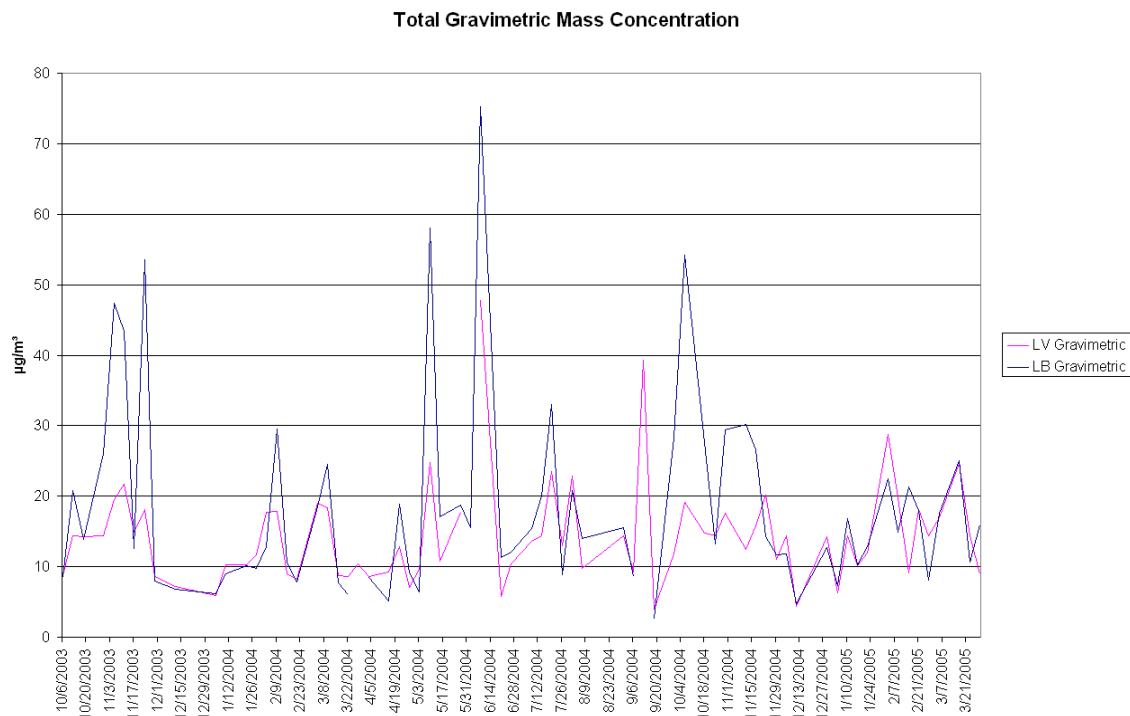


The “other” component is defined as the difference between the gravimetric (weighed) mass concentration and the sum of the major species. It can include the following:

- Non-crustal, non-sulfur trace elements
- Water
- Non-organic, non-elemental carbon
- Unknown species

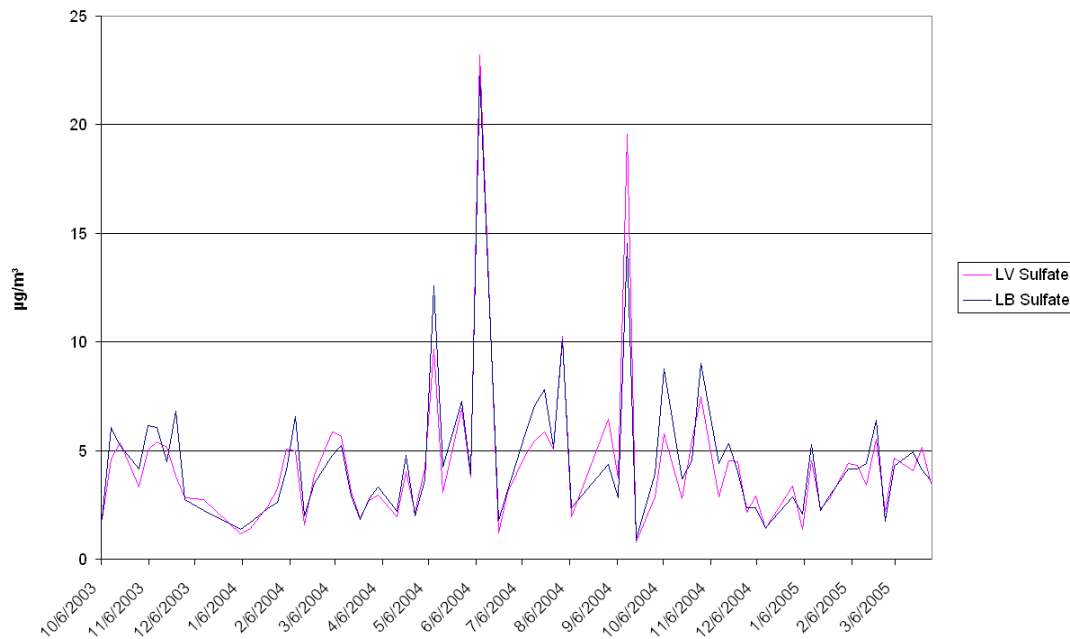
4. Matched Time Series, by Species

Concurrent sampling at Lawrenceville (LV) and Liberty (LB) occurs every 6 days. Plots of these date-matched samples reveal direct comparisons of species at the two sites. Plots for major species are given below.



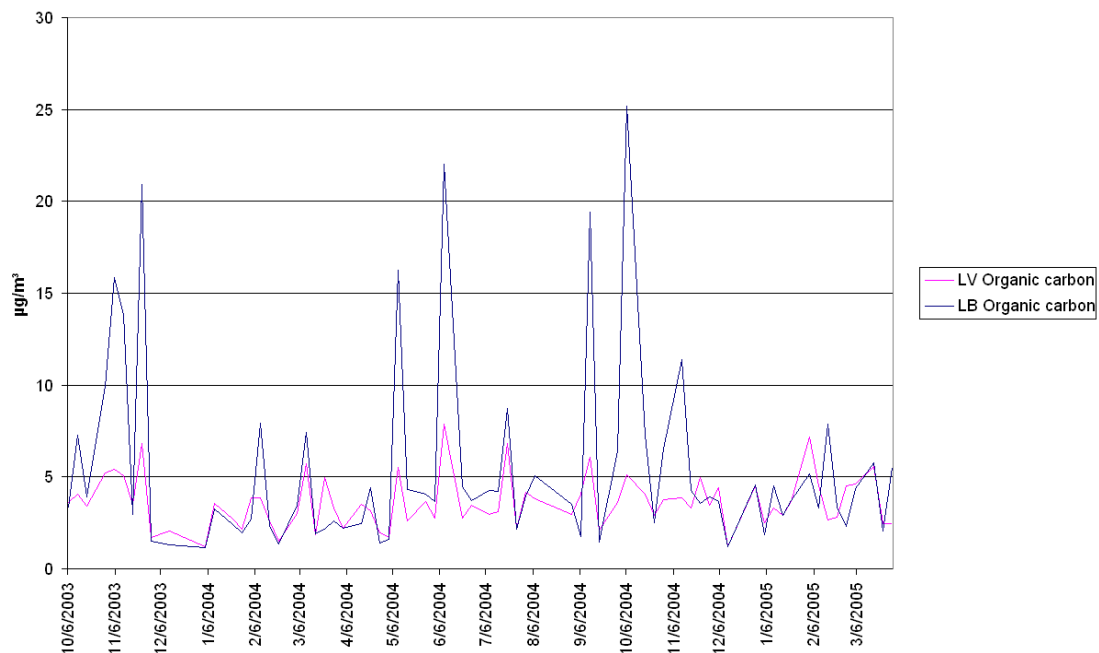
Total $\text{PM}_{2.5}$ at Lawrenceville and Liberty show similar peaks at the same times, but to varying extents at each site. Liberty is generally the highest site on peak days, but can be lower for some peaks. On average or low $\text{PM}_{2.5}$ days, Liberty and Lawrenceville are often nearly equal. This indicates that regional flow and meteorology may be the primary controlling factors in the formation of $\text{PM}_{2.5}$ on low and average days. Wind speed aloft (upper air), relative humidity, and temperature can affect both sites on a broad-scale. Additional accumulation at Liberty may be dependent on local conditions such as surface wind and temperature.

Sulfate Time Series, Lawrenceville and Liberty

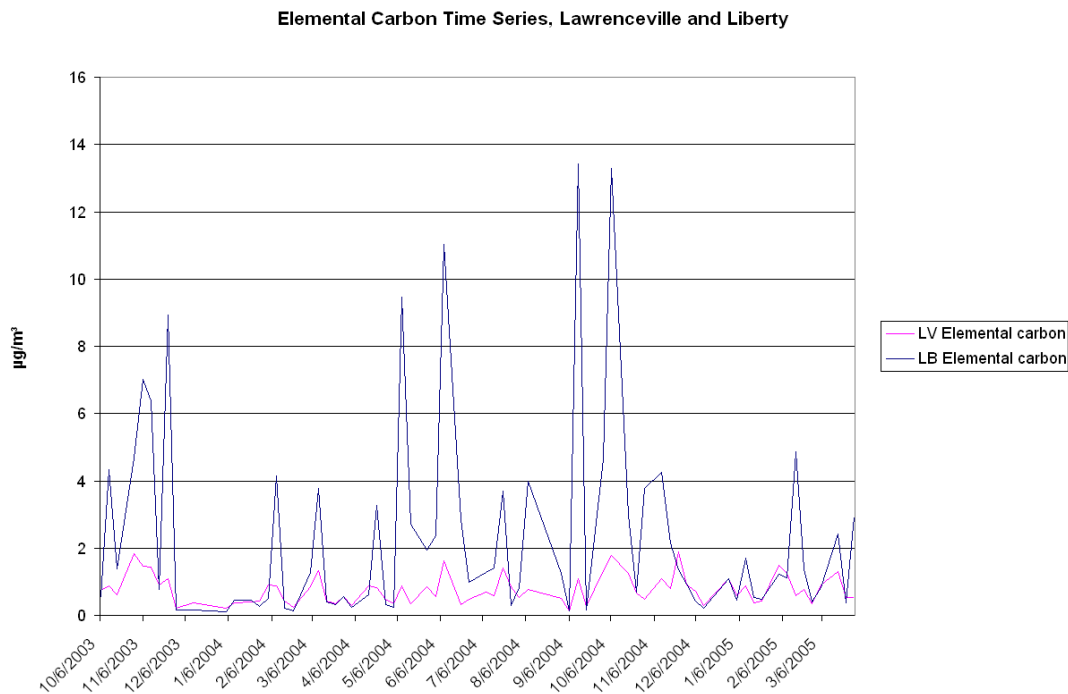


Sulfate is nearly identical at both sites year-round. This indicates that sulfate is primarily affected by regional flow upwind of Allegheny County. Minor differences in peaks may be indicative of local meteorology or minor source impacts.

Organic Carbon Time Series, Lawrenceville and Liberty

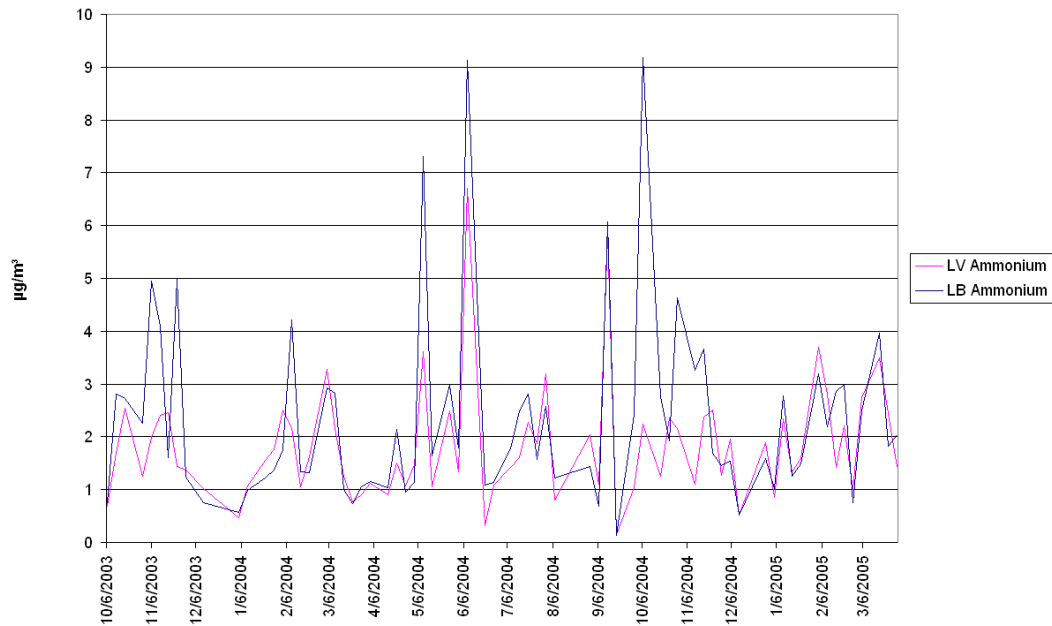


Organic carbon is similar to total mass concentration in that the peaks occur at the same times at both sites but to varying degrees. The peak discrepancies are higher for organic carbon than for total concentration, however, indicating that localized factors may be more controlling for organic carbon.



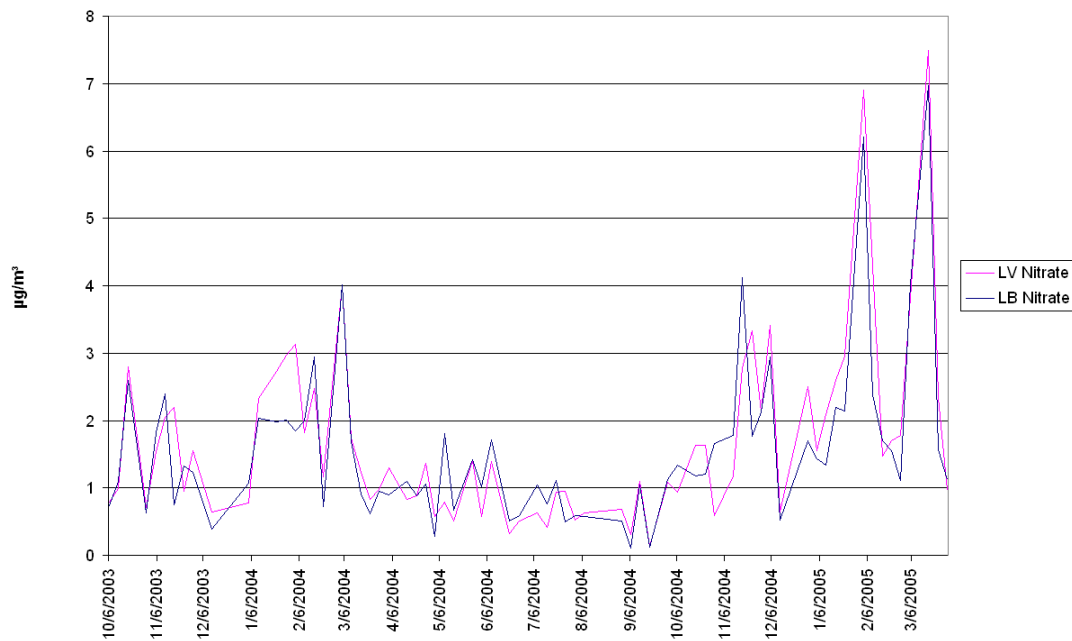
Similar to organic carbon, elemental carbon shows a localized influence at Liberty.

Ammonium Time Series, Lawrenceville and Liberty

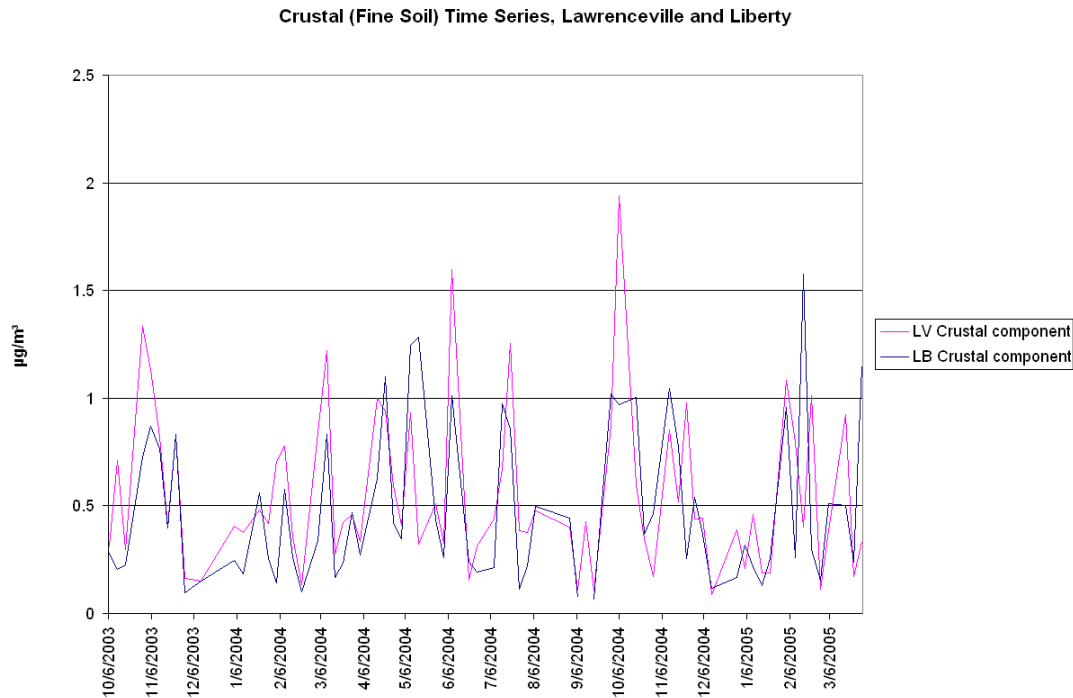


Ammonium can be higher at Liberty on certain days, but not as frequently as organic and elemental carbon.

Nitrate Time Series, Lawrenceville and Liberty

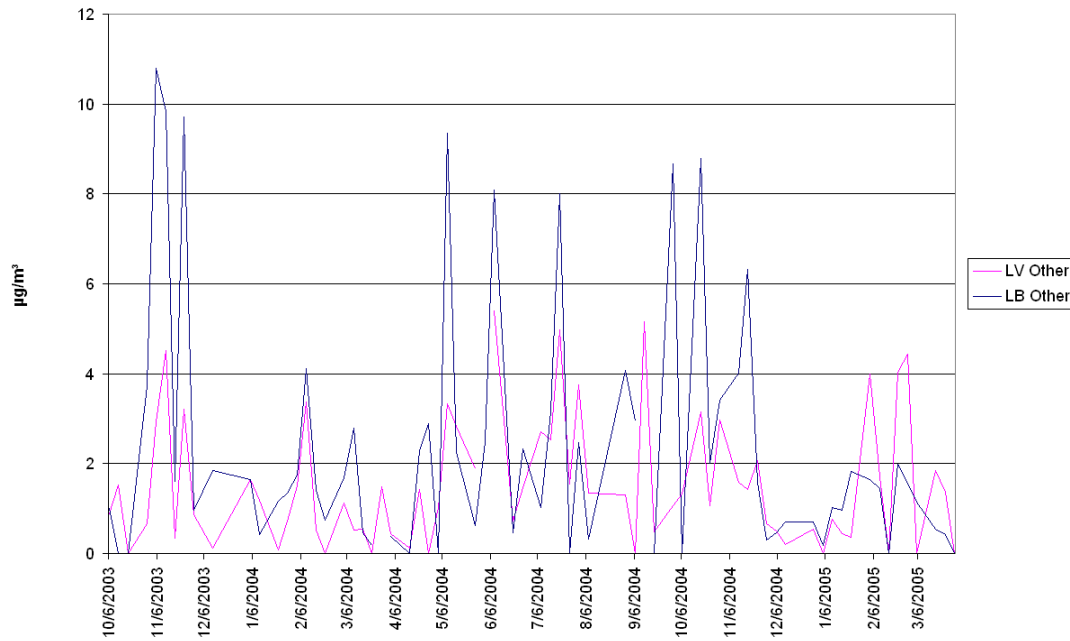


Nitrate appears to be a regional species like sulfate, although nitrate differences between Lawrenceville and Liberty can be more pronounced than sulfate differences.



The crustal component appears to be a regional-only species. Liberty crustal component is actually lower for many days, suggesting rural behavior for some crustal elements at Liberty.

"Other" Component Time Series, Lawrenceville and Liberty



The "other" component shows similar trends to organic carbon, with Liberty showing much greater concentrations than Lawrenceville on peak days.

5. Matched Time Series, Southwest PA Sites, by Species

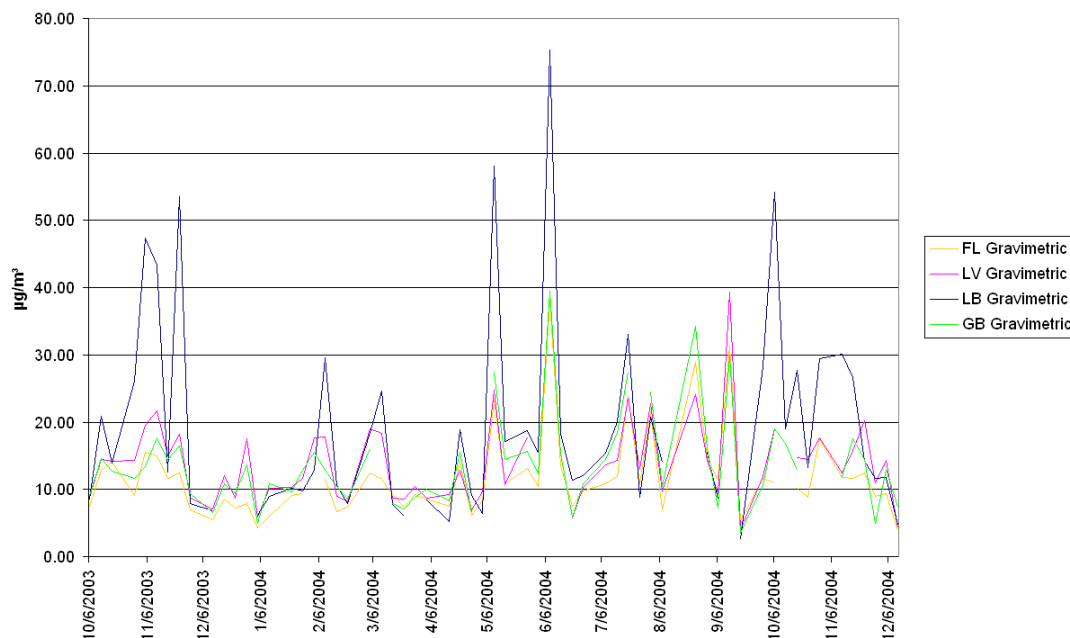
On a regional level, the Pennsylvania Dept. of Environmental Protection (PA DEP) operates two additional PM_{2.5} speciation monitors in Southwest PA: Florence and Greensburg.

Florence (FL) is upwind from Allegheny County, located in Hillman State Park in Washington County, about halfway between Weirton, WV and the Pittsburgh International Airport. It presumably monitors regional flow of particulates into the Southwest PA region from upwind sources primarily in the Ohio Valley and WV Northern Panhandle.

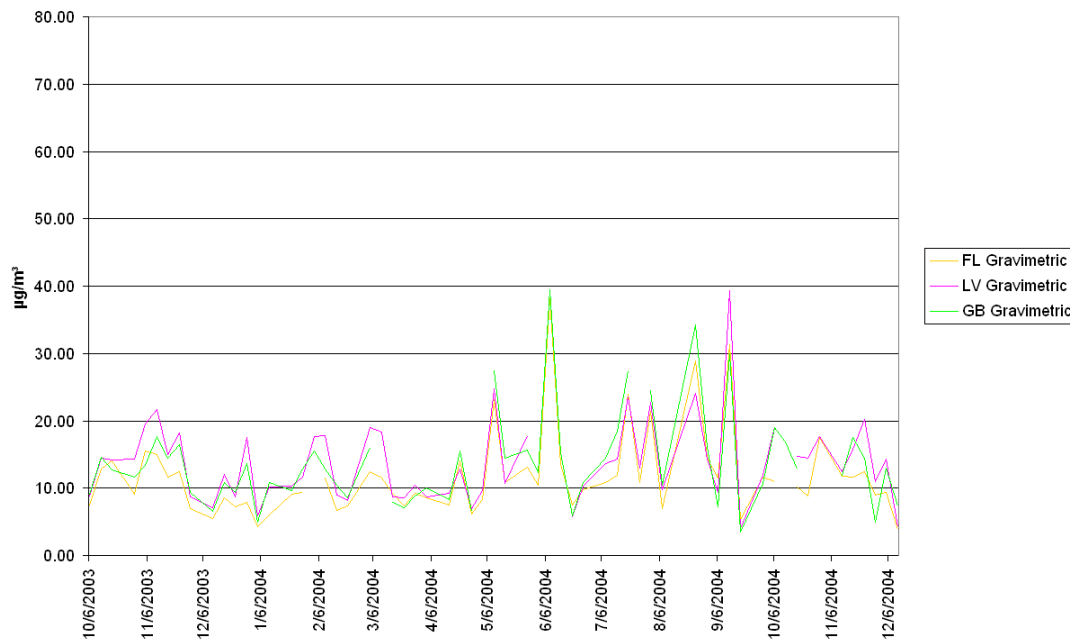
Greensburg (GB) is downwind from Allegheny County, situated east of Greensburg near the Westmoreland Mall. It presumably monitors outgoing regional flow from Southwest PA, in addition to some urban excess from Pittsburgh and/or Greensburg.

For the following plots, matched time series plots for major species are first given for all four sites in Southwest PA, and then without Liberty. Data is shown over the timeframe of Oct. 2003 – Dec. 2004.

Total Gravimetric PM_{2.5}, Speciation Monitors, Southwest PA

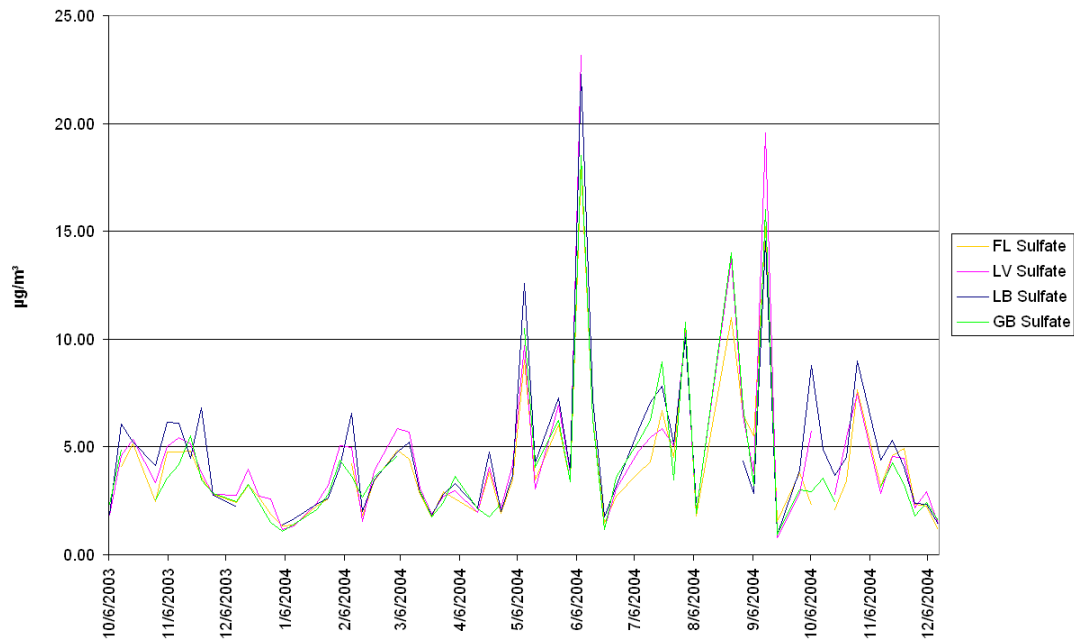


Total Gravimetric PM2.5, Speciation Monitors, Southwest PA w/o Liberty

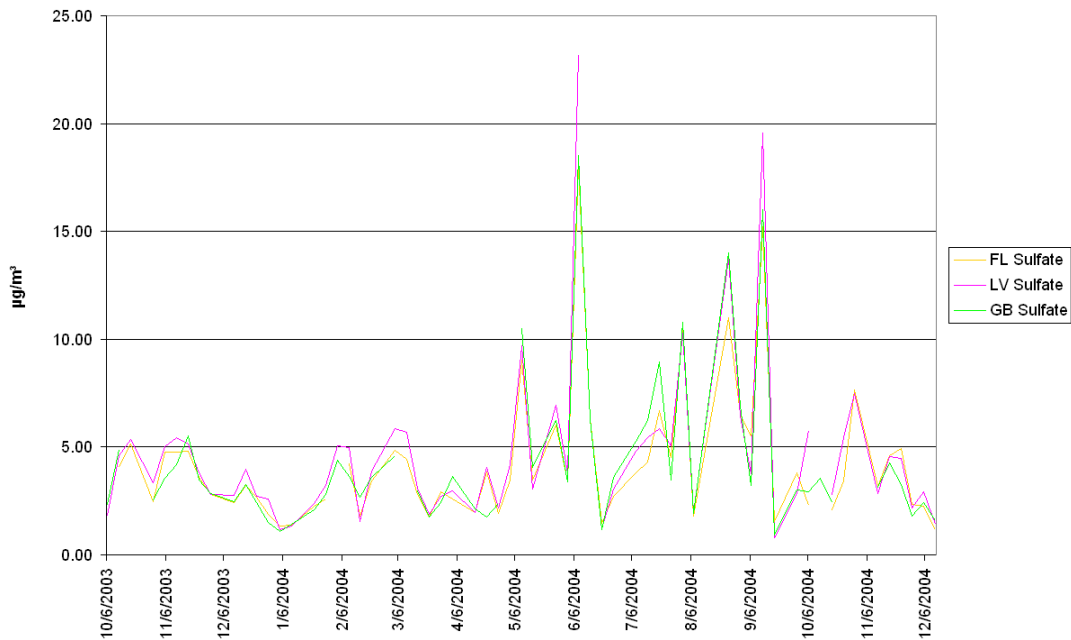


By total gravimetric (weighed) mass concentration, Florence, Lawrenceville, and Greensburg match well, indicative of the regional flow through the multi-county area. Liberty shows the highest mass concentrations, due to the regional flow plus localized excess. Lawrenceville and Greensburg show the next highest concentrations, due to gained urban excess. Accordingly, Florence is usually the lowest by total mass, since it reflects regional flow without localized urban excess.

Sulfate, Southwest PA

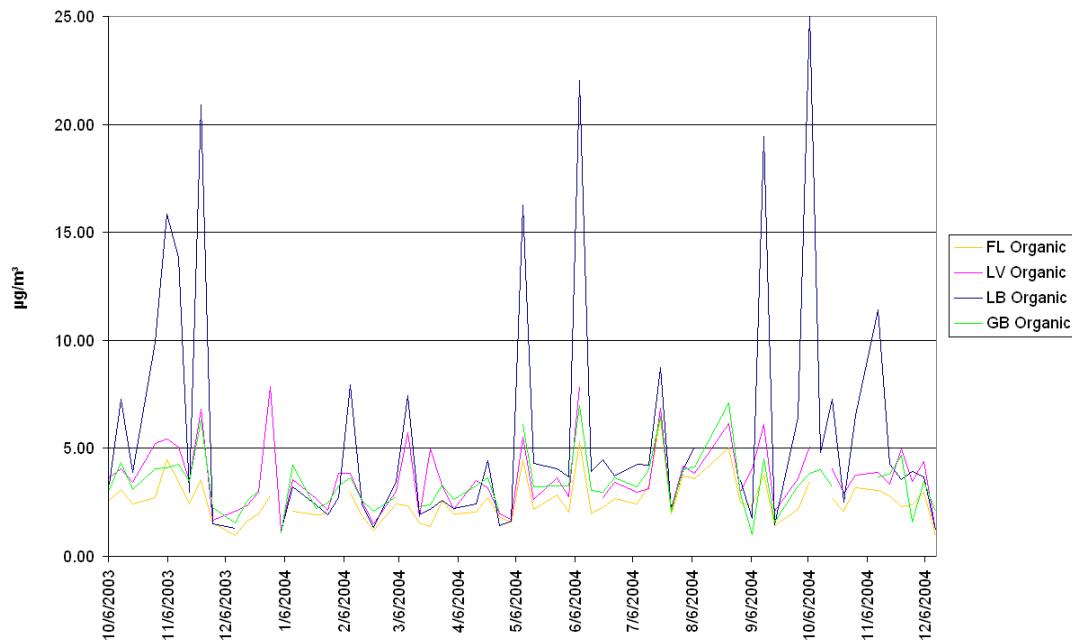


Sulfate, Southwest PA w/o Liberty

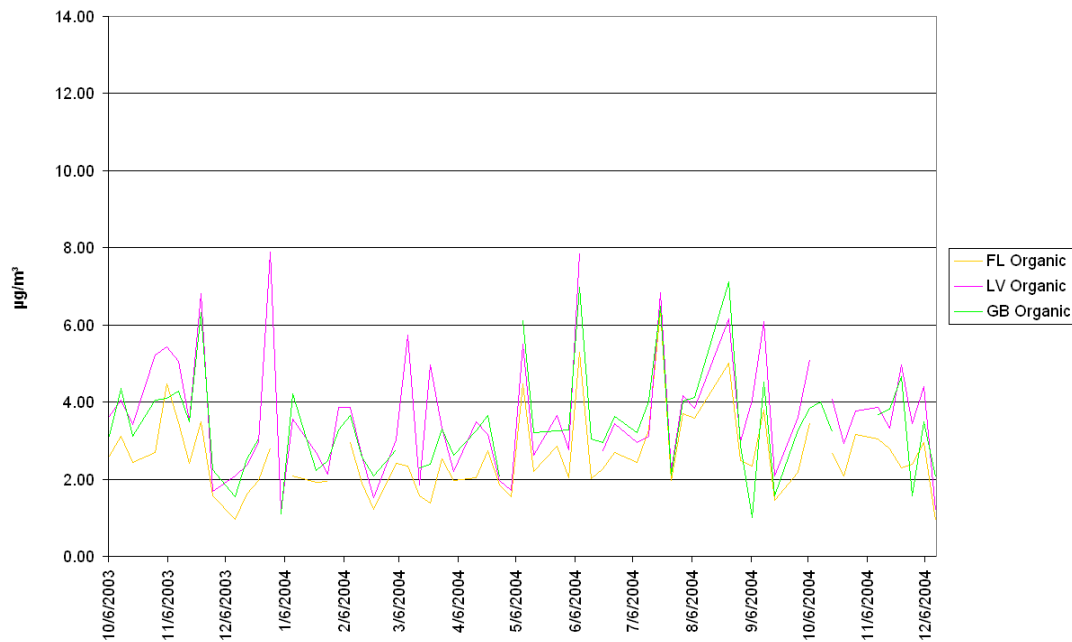


Sulfate time series plots strongly suggest that it is the result of regional flow for Southwest PA, as it is nearly equal at all sites.

Organic Carbon, Southwest PA

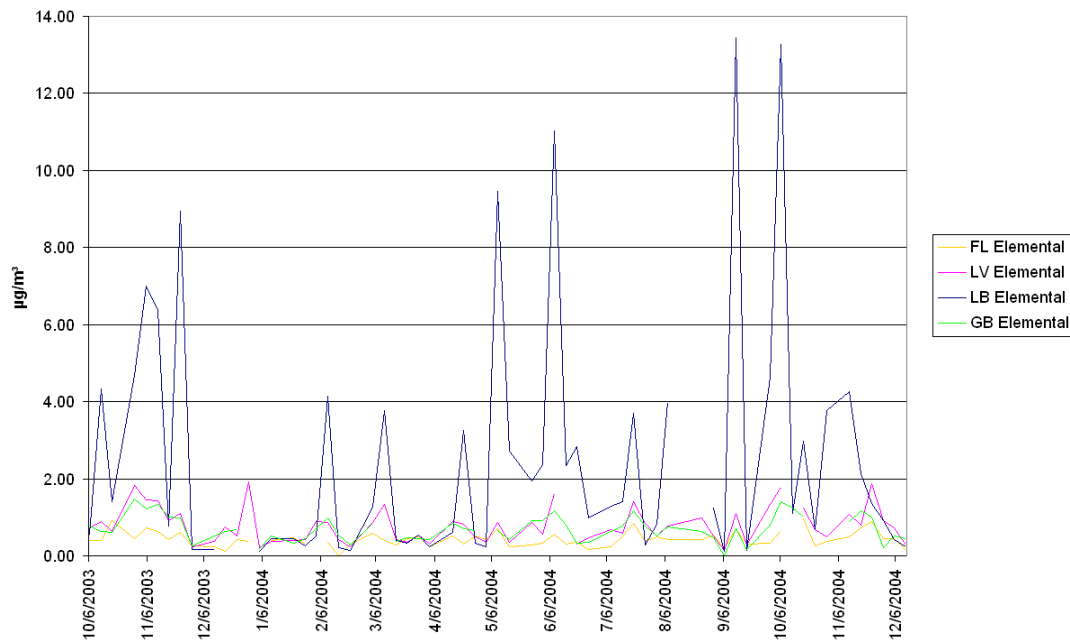


Organic Carbon, Southwest PA w/o Liberty

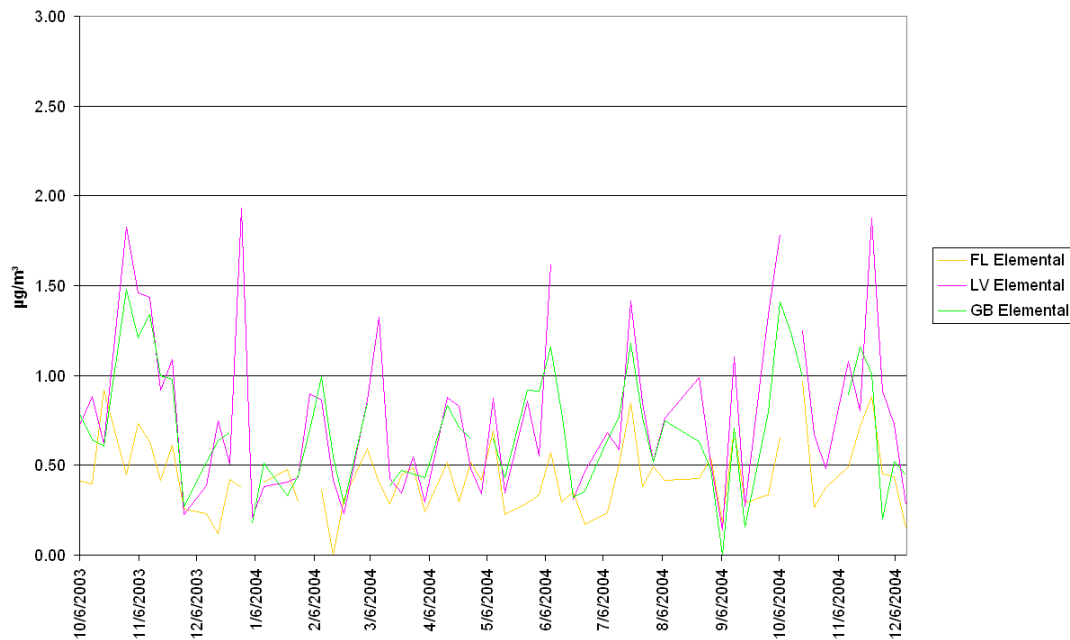


Organic carbon shows similar patterns to total mass in Southwest PA. Liberty is highest overall, with Lawrenceville and Greensburg showing urban influence.

Elemental Carbon, Southwest PA

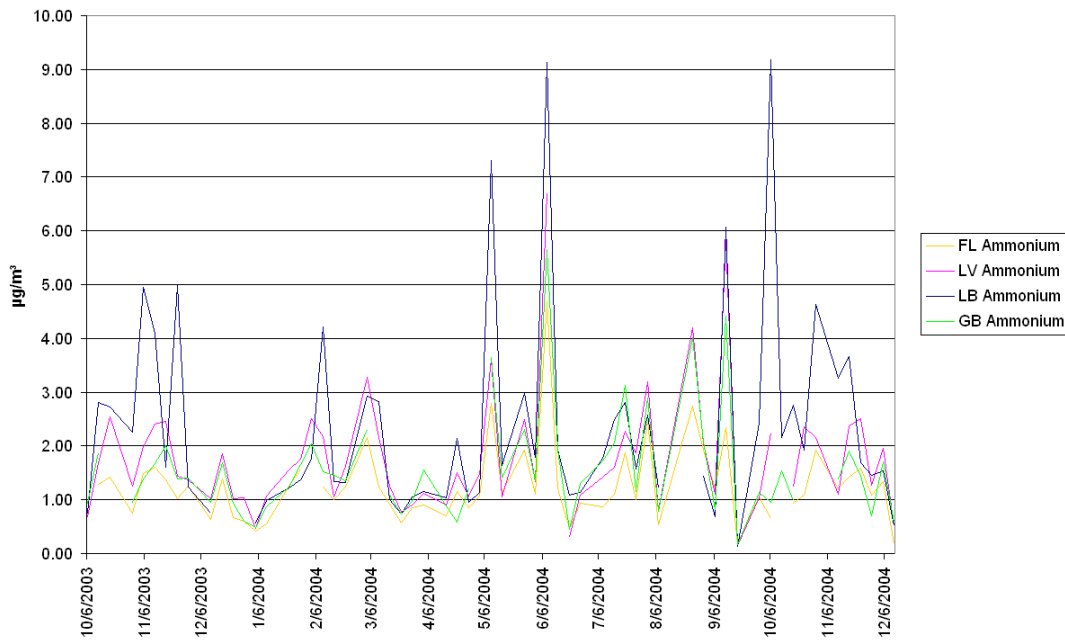


Elemental Carbon, Southwest PA w/o Liberty

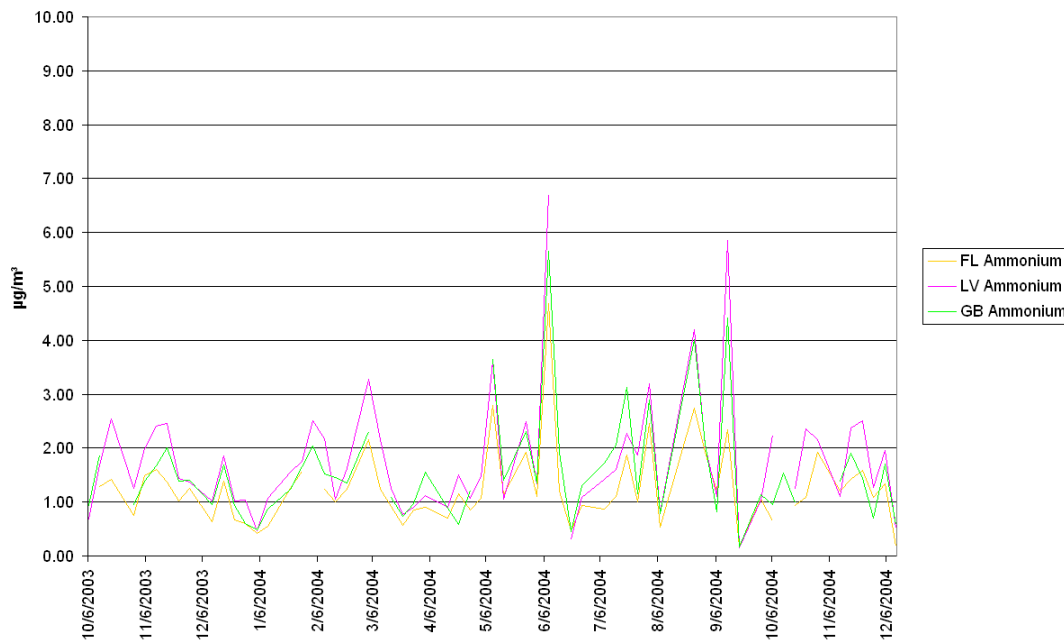


Elemental carbon is similar to organic carbon for Southwest PA. Higher concentrations at Lawrenceville for elemental carbon may be due to mobile source emissions.

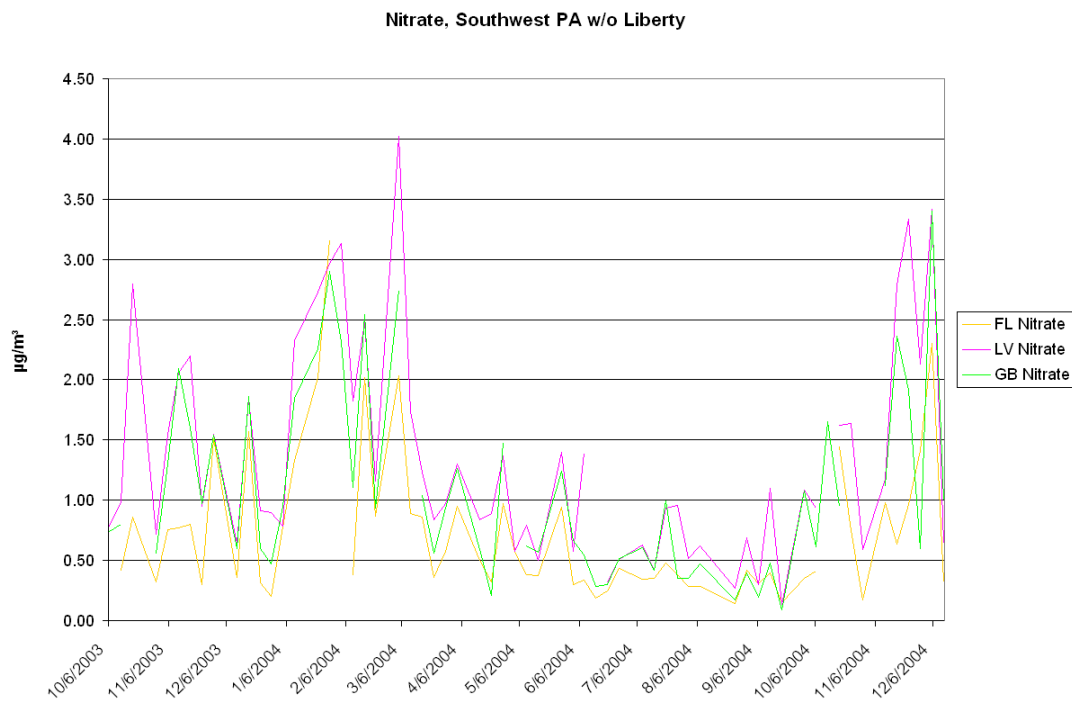
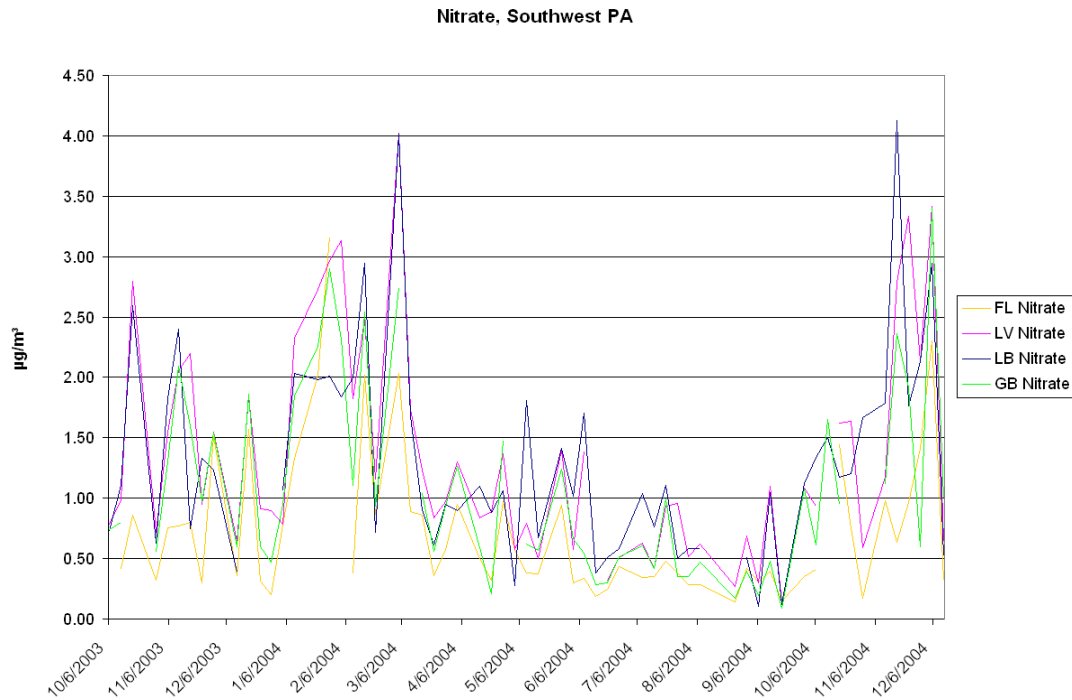
Ammonium, Southwest PA



Ammonium, Southwest PA w/o Liberty

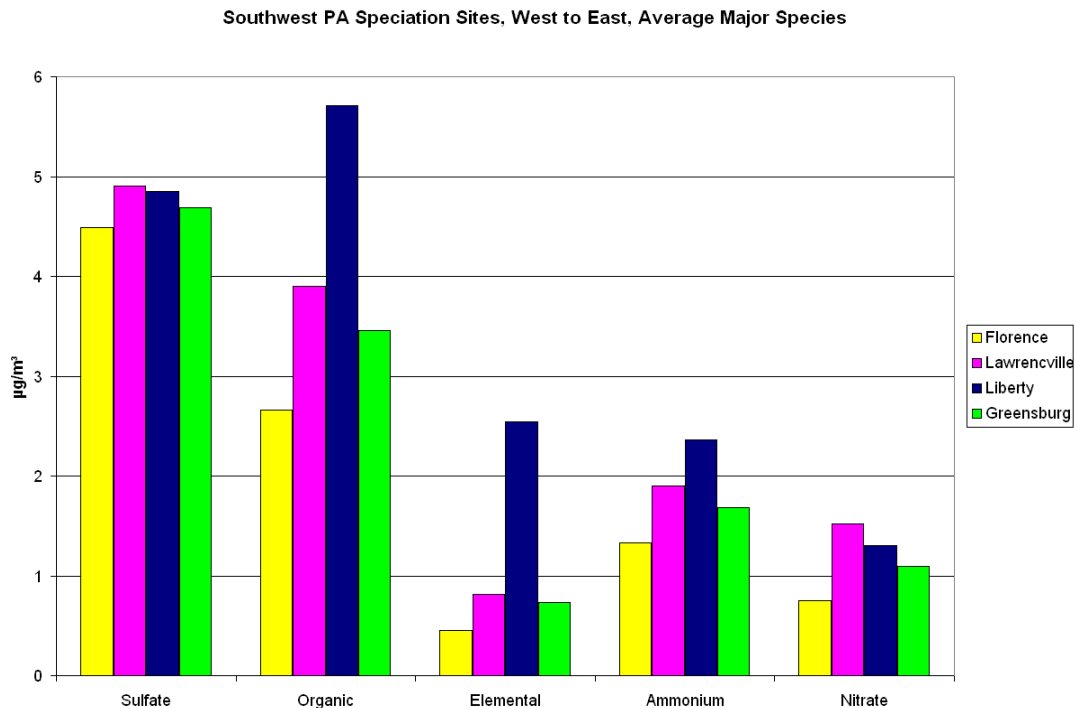


Ammonium is part of the localized excess at Liberty, although to a lesser extent than organic and elemental carbon. Excluding Liberty, ammonium appears to be both regional and urban, as it is highest at Lawrenceville.



Nitrate appears to be regional, like sulfates, but with increased concentrations at Liberty and Lawrenceville. So, urban sources may have an influence on nitrate levels.

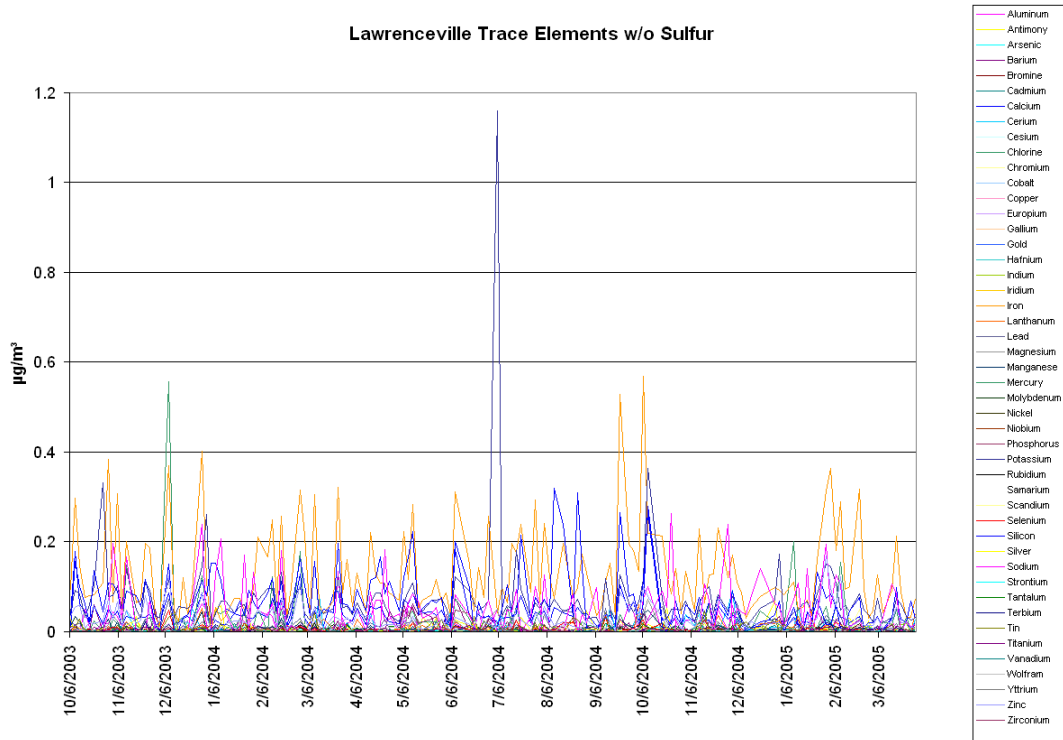
Below are averages for the southwest PA sites by major species, given in column clusters. Left-to-right in the column clusters is analogous to west-to-east geographically.



Florence can be considered the most rural of the sites, as average concentrations are lowest there for all species. A noticeable increase can be seen for all species from Florence to Lawrenceville, and a large increase is seen from Lawrenceville to Liberty for the localized Liberty-excess species. Greensburg is lower than the two Allegheny County sites but higher than Florence for all species, so it appears to be impacted by urban excess to a limited extent.

6. Trace Elements

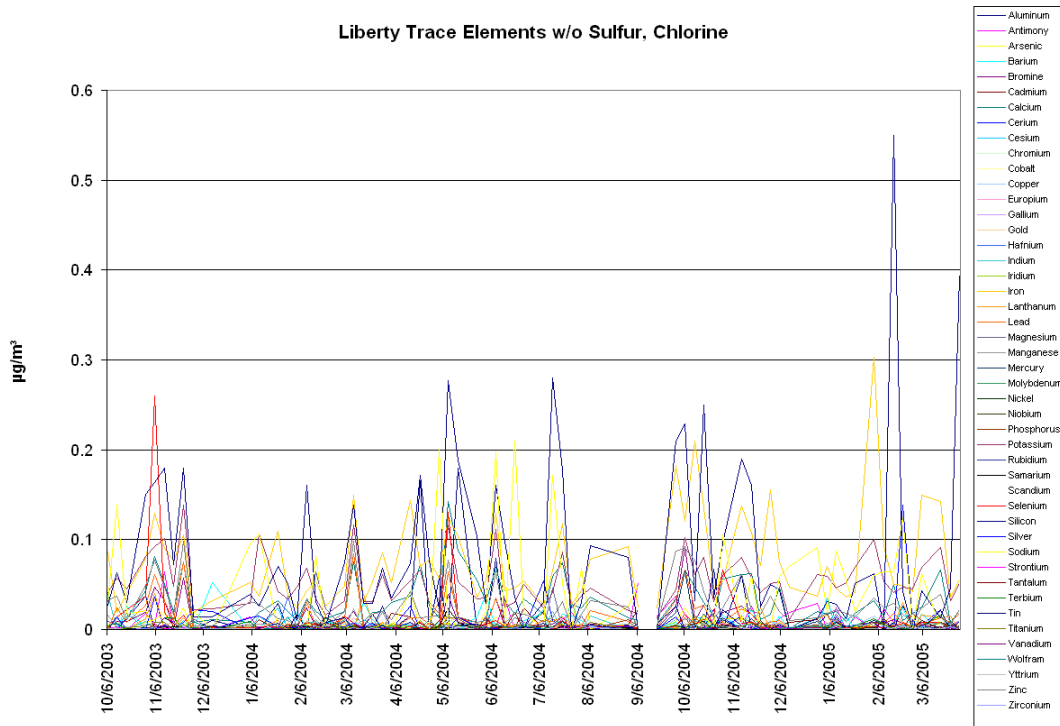
In addition to major species, 48 trace elements are analyzed from the speciation sites. Below are time series plots for Lawrenceville and Liberty trace elements. Sulfur, which is always much higher than the other elements, is excluded from these plots to allow for improved y-axis scaling.



Lawrenceville trace elements are generally dominated by crustal elements such as iron and silicon. The noticeable peak in the center is for potassium (date: 7/5/04) and is likely due to fireworks on the previous day. The Lawrenceville site is 2½ miles downwind of a large fireworks display that takes place annually in the downtown area on the 4th of July.

Small chlorine peaks can occur at Lawrenceville during winter months (example: 12/8/03), most likely due to the presence of road (rock) salt on streets near the monitor.

At Liberty, chlorine dominates the trace elements in addition to sulfur and therefore has been excluded from the graph below.

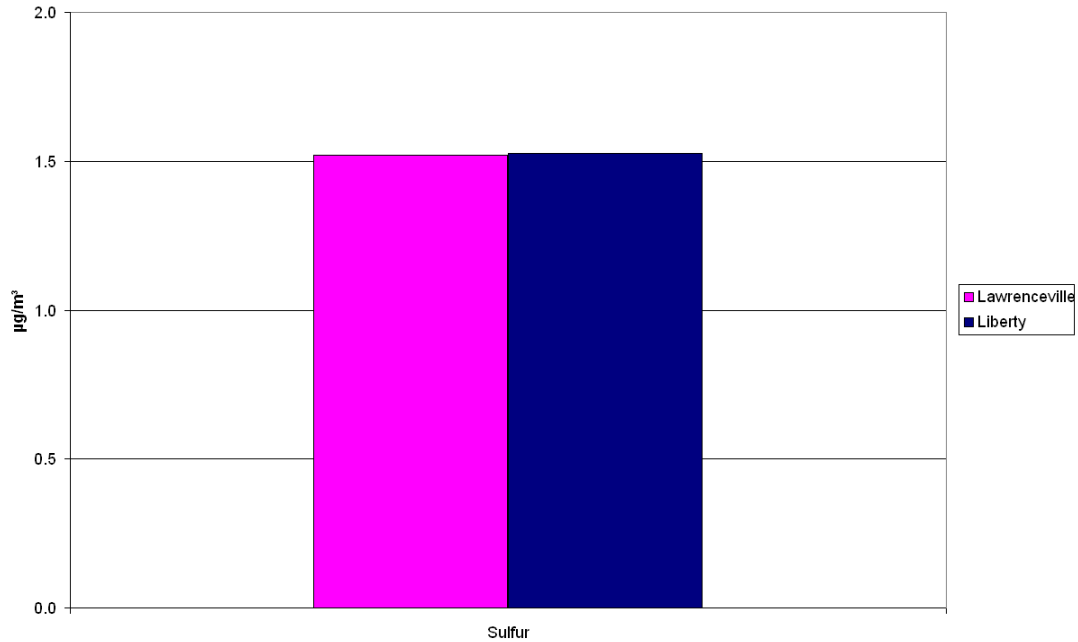


[Note: scale is different than Lawrenceville graph.]

Many elements such as crustal elements are present at Liberty like at Lawrenceville, but elements such as selenium and bromine show peaks that do not coincide with Lawrenceville. Similar to carbon and ammonium, many trace elements are part of the localized excess at Liberty. Comparing differences of each trace element should reveal dominant elements at each site.

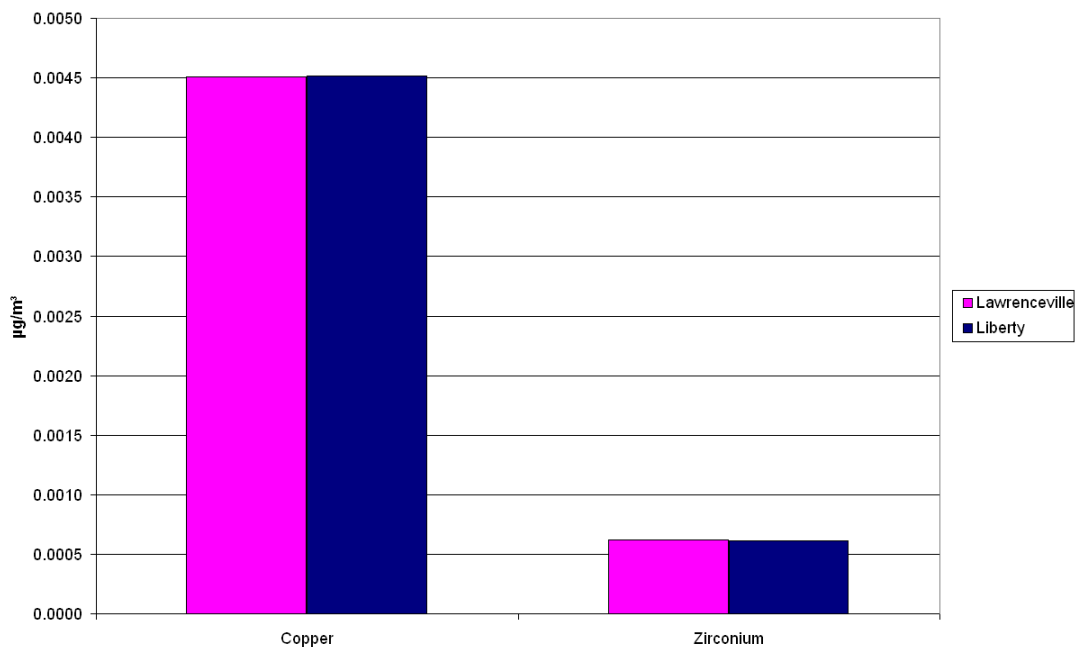
Below are average column graphs for each trace element.

Most Dominant Trace Element: Sulfur



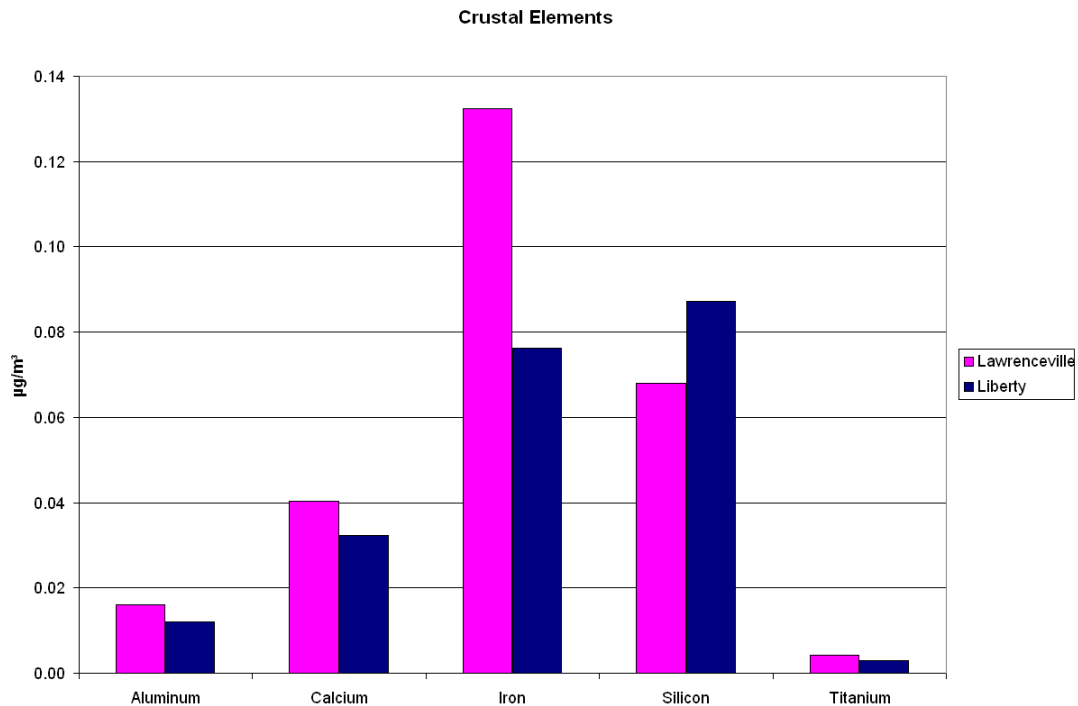
Sulfur is the most dominant element and is nearly equal for the sites. This follows the pattern of sulfate, which is also nearly equal on an average basis.

Additional Equal Trace Elements: Copper and Zirconium



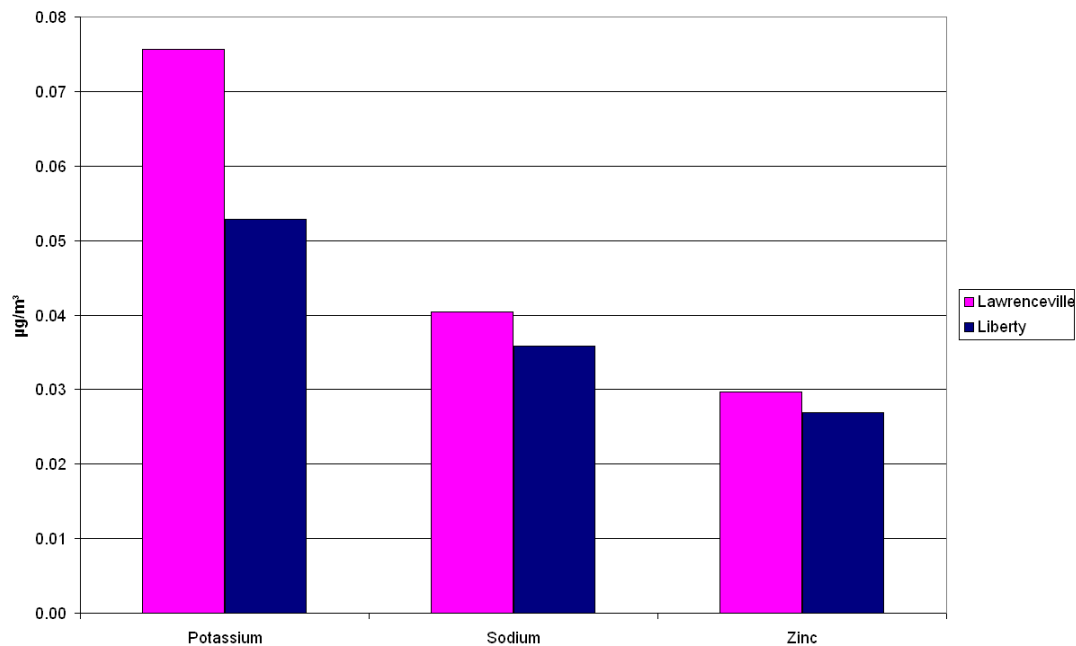
Although not as prevalent as sulfur, copper and zirconium are also nearly equal. Hence, these elements can be classified as regional-only trace elements.

The crustal elements in the chart below are constituents of fine soil. Collectively as a weighted sum, they compose the crustal component.



The crustal component is higher at Lawrenceville, and this holds true for each crustal element except silicon. As an individual element, silicon could be classified as Liberty-dominant. For this report, silicon will be grouped with the crustal component as a whole.

Lawrenceville-Dominant Trace Elements

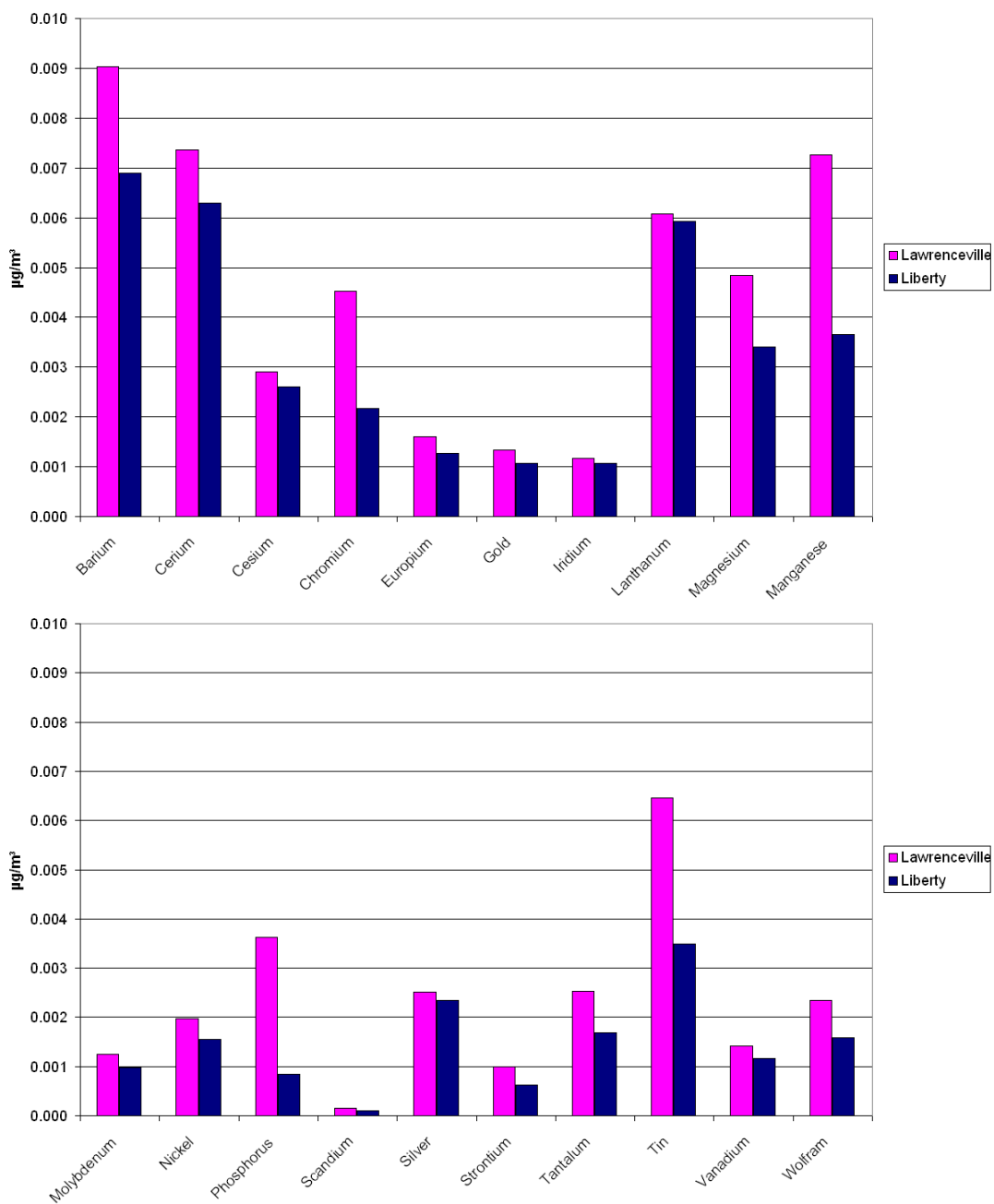


Potassium, sodium, and zinc are the most common Lawrenceville-dominant non-crustal trace elements. [Potassium and sodium are also measured as ions using the same analytical method by which the major species ammonium, nitrate, and sulfate are measured, but since the ionic concentrations of potassium and sodium are minute compared to the major ionic species, their trace element concentrations are given in this report.]

Potassium is a major ingredient in fireworks, and 4th of July fireworks near downtown Pittsburgh are the likely cause of the larger concentration of potassium at Lawrenceville. The higher sodium concentration at Lawrenceville may be due to airborne road salt from more heavily traveled streets than at Liberty. Possible sources of additional zinc at Lawrenceville may be urban sources.

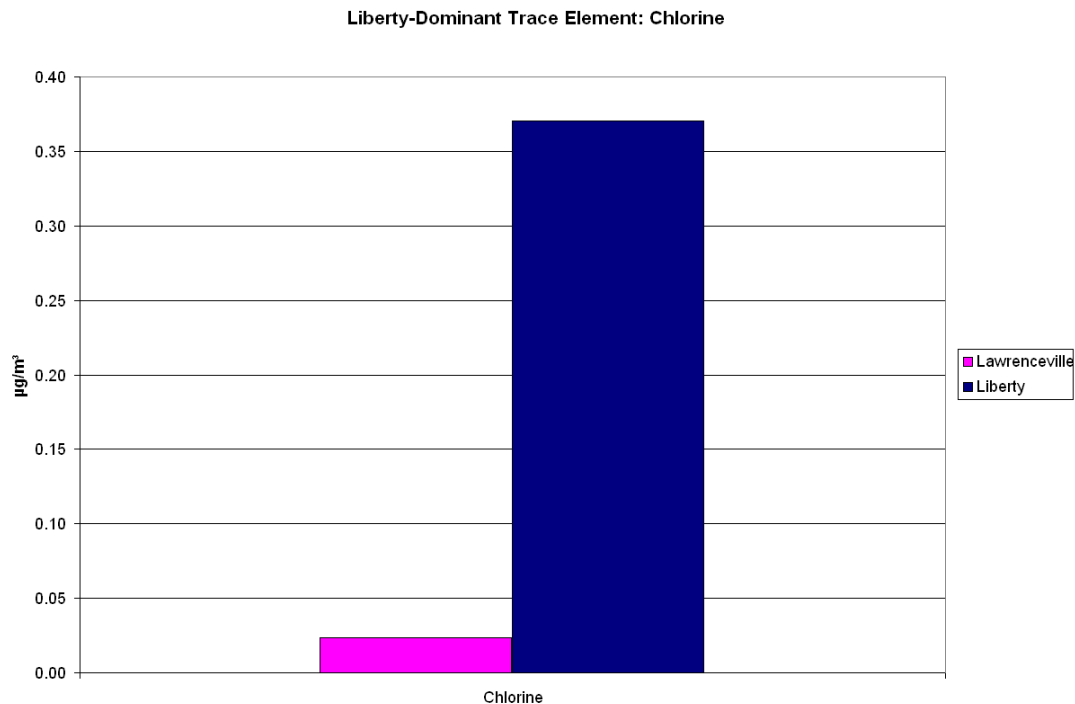
Additional Lawrenceville-dominant trace elements are shown in the charts to follow.

Additional Lawrenceville-Dominant Trace Elements

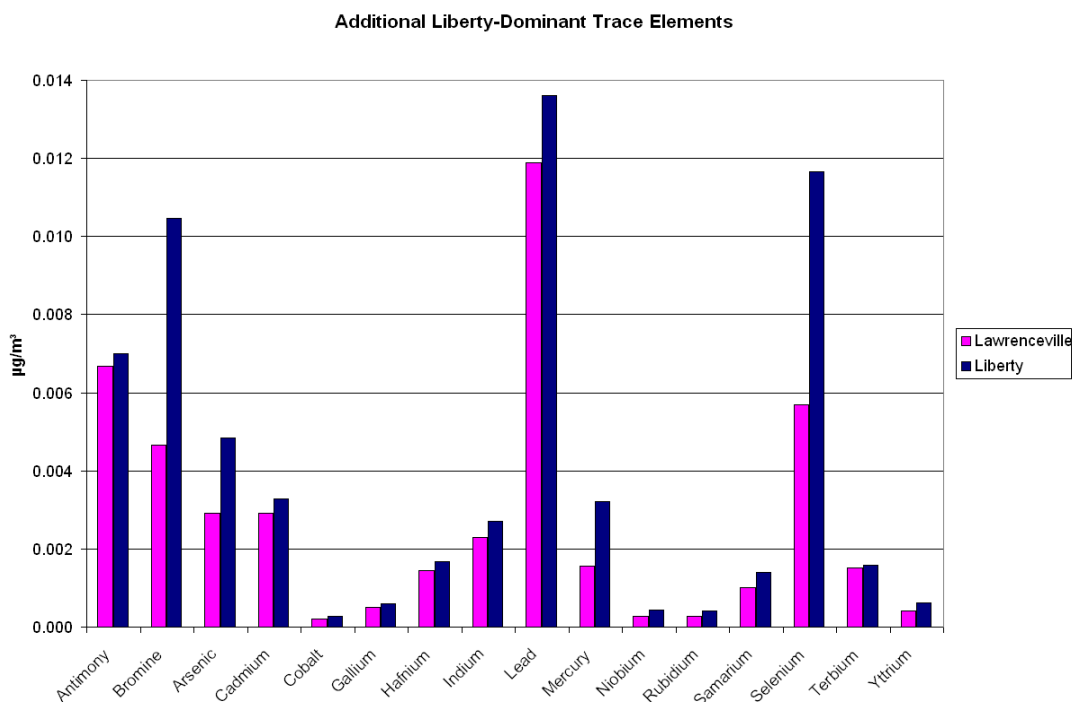


These Lawrenceville-dominant trace elements are likely urban and/or regional in nature. Barium, chromium, manganese, phosphorus, and tin show the most noticeable differences for these elements.

Liberty-dominant trace elements are given below.

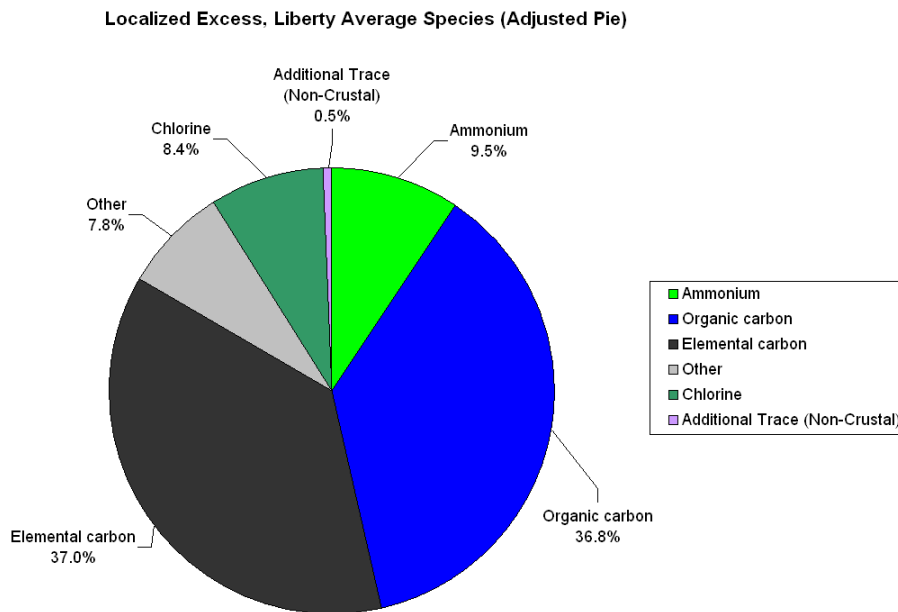


Chlorine is the most common Liberty-dominant trace element. While chlorine is a component of road salt, the amount of excess chlorine is unlikely due to airborne road salt alone.



Bromine is a halogen, like chlorine, although it is present at much smaller concentrations than chlorine. Arsenic, lead, mercury, and selenium are also noticeably higher trace elements at Liberty than at Lawrenceville, indicating possible local influences.

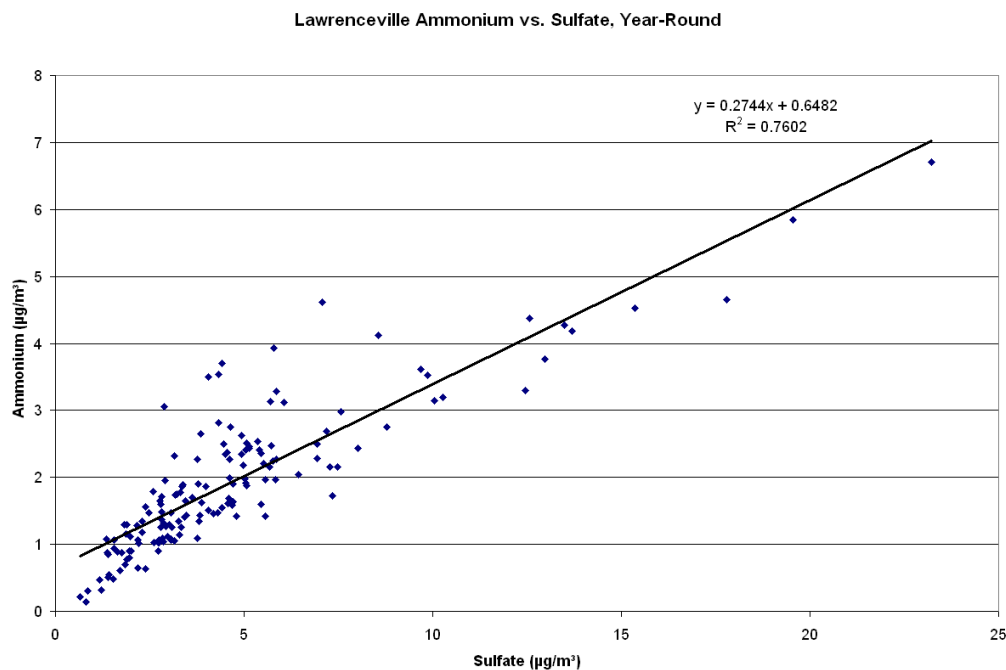
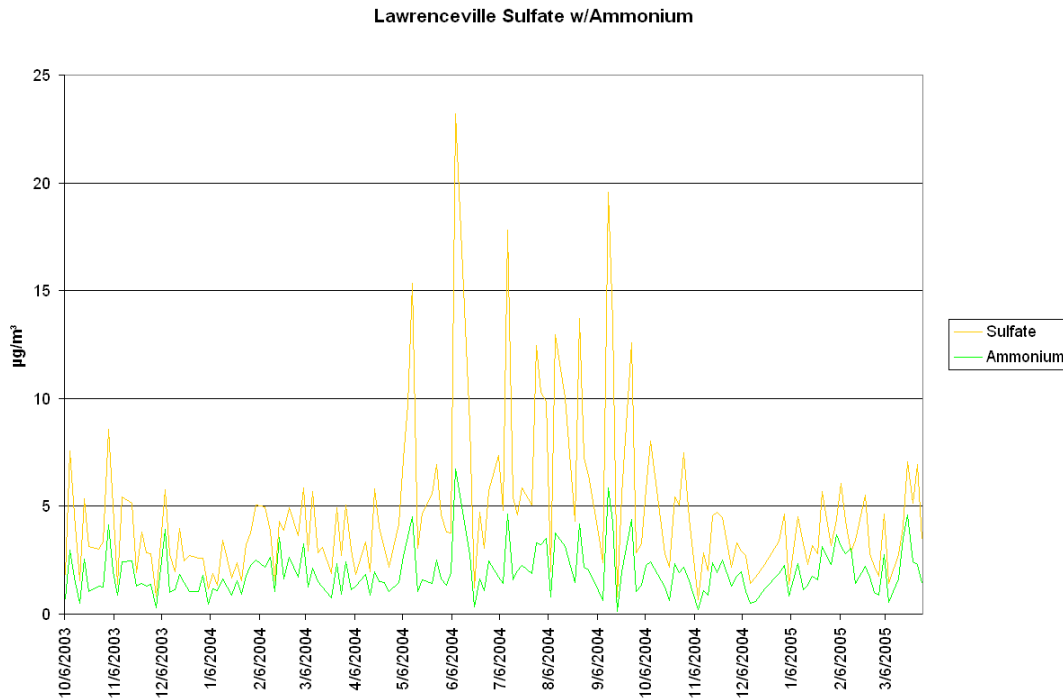
Taking the Liberty-dominant trace elements into account, the Liberty localized excess pie chart can be adjusted to include chlorine and additional non-crustal trace elements in place of a portion of the "other" component.



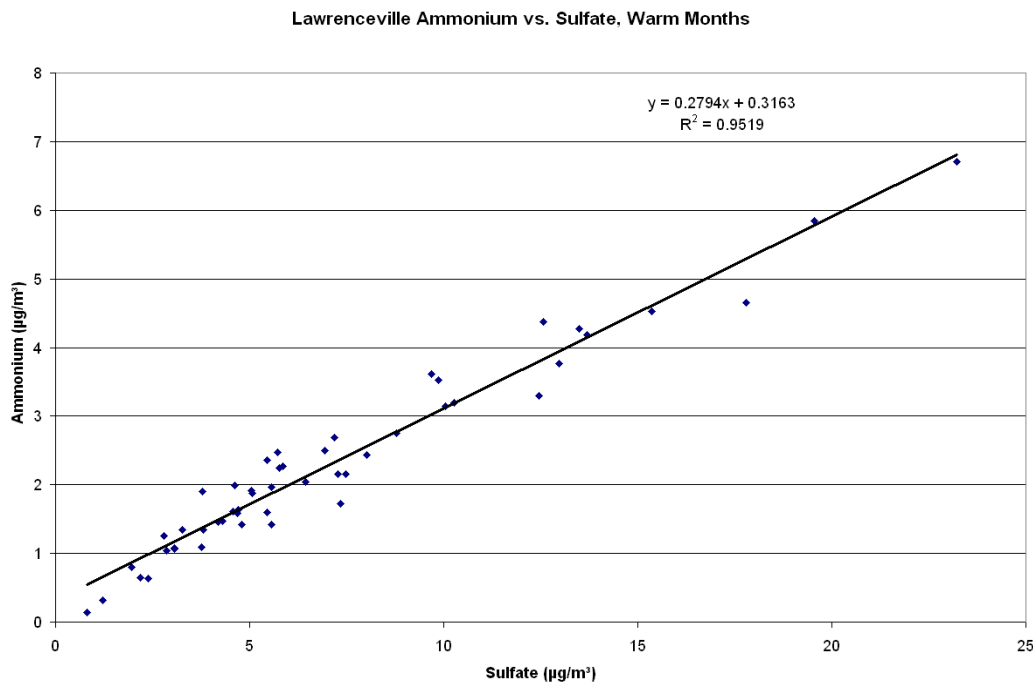
This adjusted localized excess pie chart represents the speciation of the Liberty excess, creating a PM_{2.5} fingerprint for the Liberty monitor. Without the excess PM_{2.5} components shown in the chart, Liberty would match Lawrenceville and be similar to other Eastern U.S. metropolitan sites.

7. Species Correlations

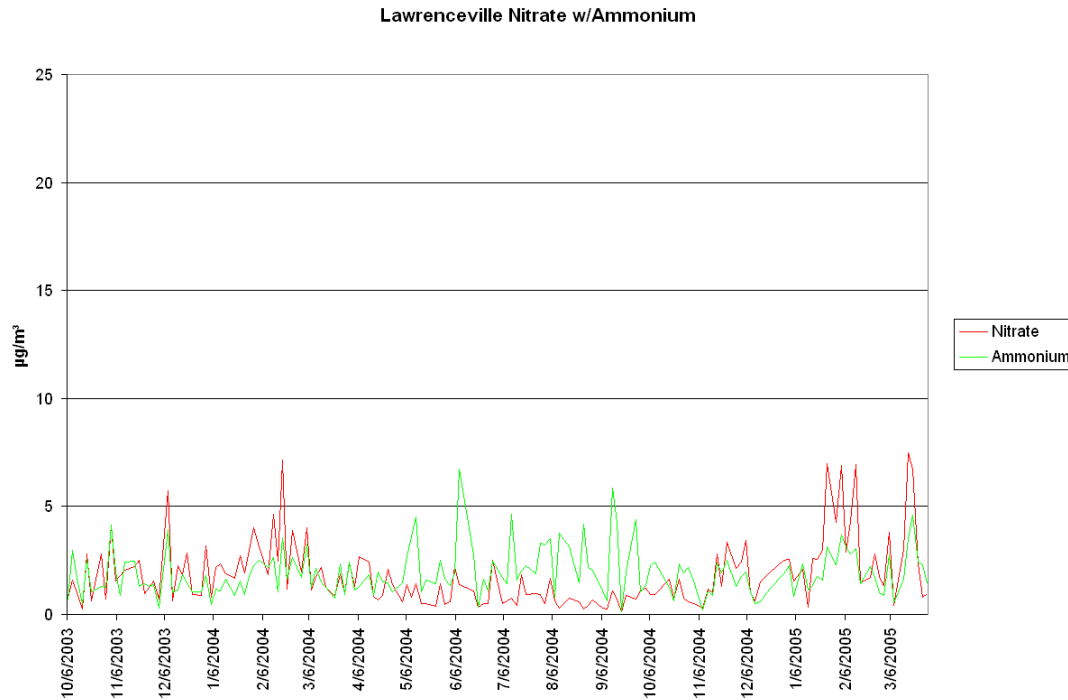
Sulfate and nitrate generally exist as ammonium salts in $PM_{2.5}$. Hence, correlations can be drawn between ammonium, nitrate, and sulfate, varying by season.



The time series and regression plots for Lawrenceville sulfate and ammonium show a moderate correlation year-round. During warm months when sulfate is most prevalent, the correlation between ammonium and sulfate increases, but the slope of the regression line is similar to that of the year-round basis. A Lawrenceville ammonium and sulfate regression plot for May through October is given below.



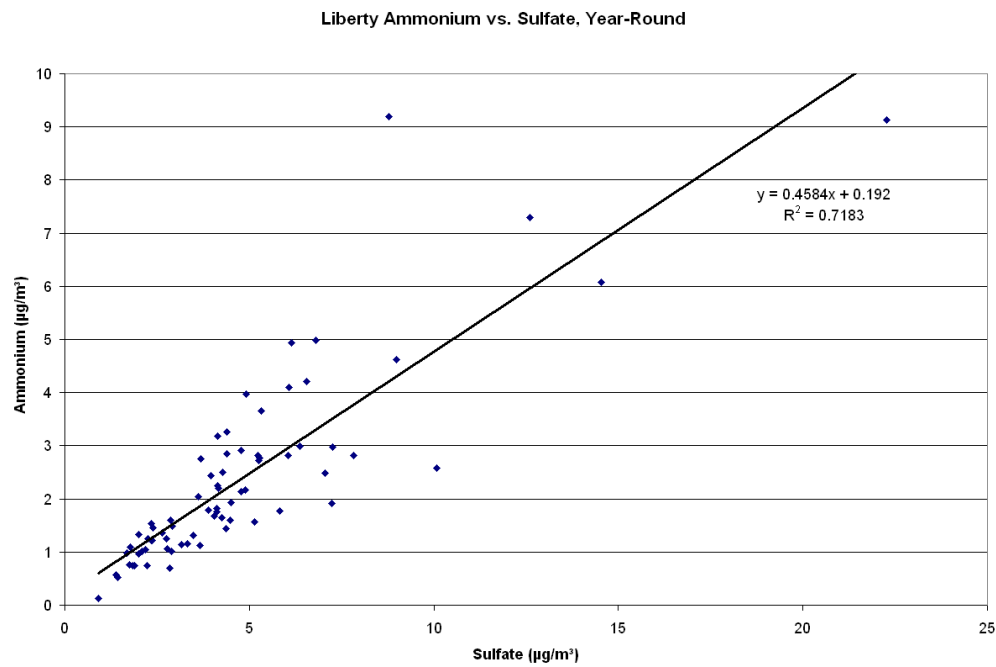
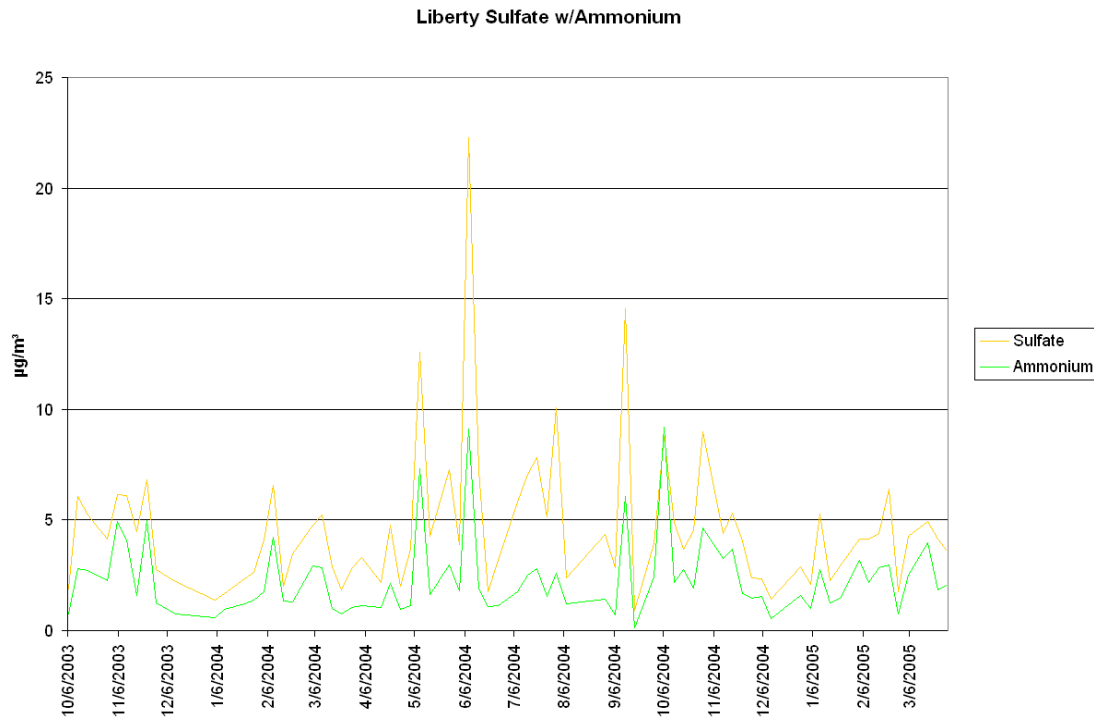
Sulfate commonly exists in two forms: ammonium sulfate and ammonium bisulfate. The slopes of the regression lines for Lawrenceville (0.274 – 0.279) are between that of a perfect ammonium sulfate regression (0.375) and a perfect ammonium bisulfate regression (0.188). So, a mixture of sulfate/bisulfate appears to be evident for Lawrenceville on a year-round basis.



The times series plot for nitrate and ammonium shows the best correlation during winter when nitrates are more prevalent. The worst correlation occurs during warmer months when sulfates are more dominant.

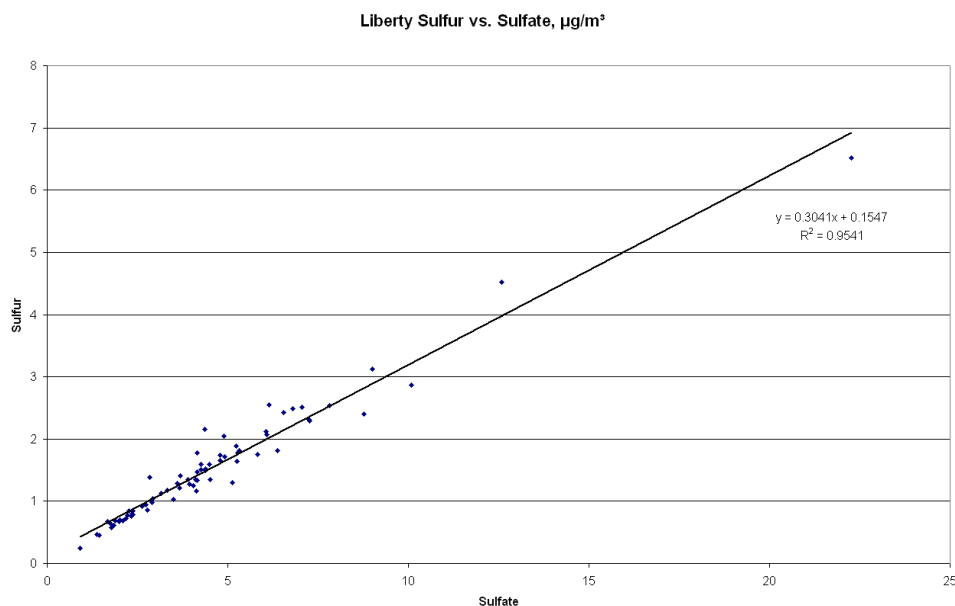
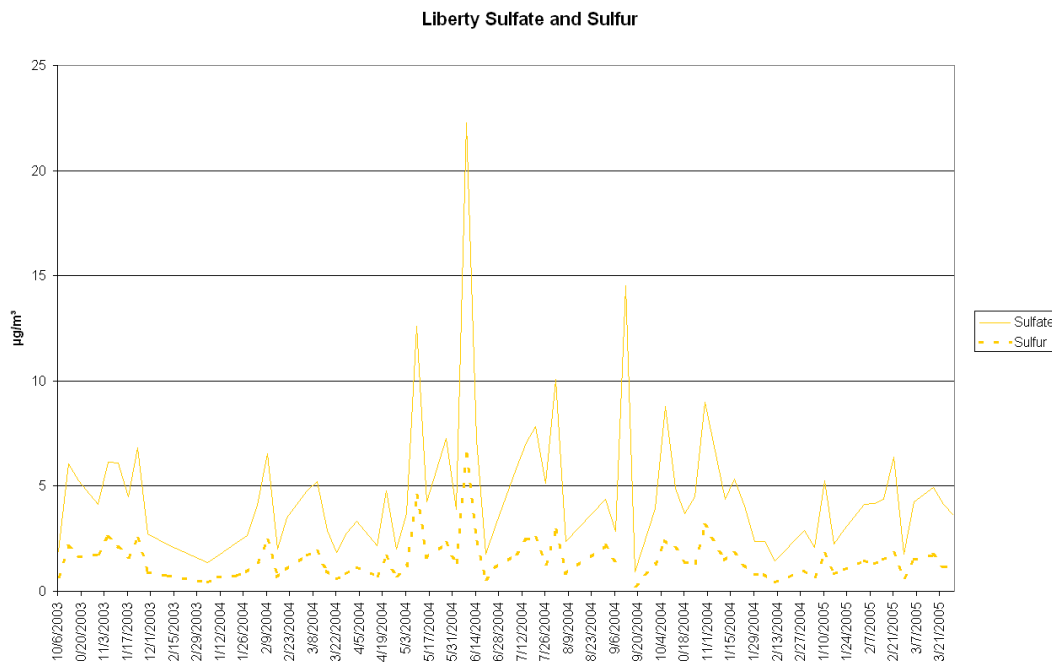
These trends for ammonium sulfate and ammonium nitrate salts are regional and are common to most speciation sites in the Eastern U.S.

Trends for sulfate and ammonium at Liberty are given in the charts below.

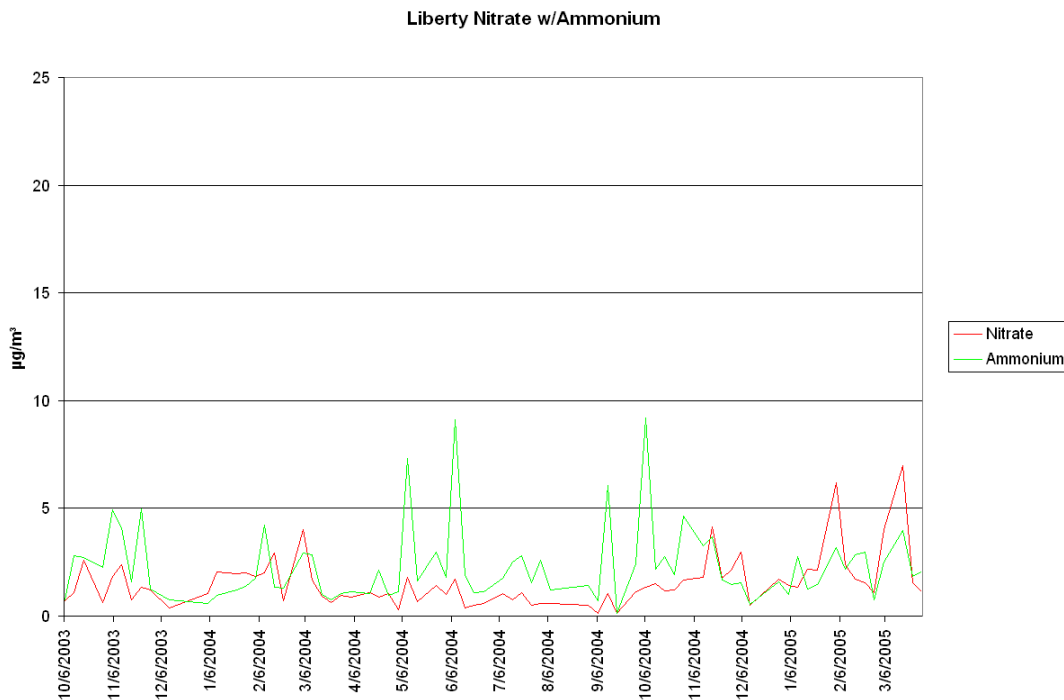


Liberty shows less of a year-round correlation for ammonium and sulfate than Lawrenceville, as the R^2 (0.718) value is lower for the Liberty regression. Also, the slope is considerably greater for the Liberty regression line (0.458), due to the higher concentrations of ammonium at Liberty.

To examine if sulfur is present as an element in any form other than sulfate at Liberty, time series and regression plots for Liberty sulfur and sulfate are shown below.



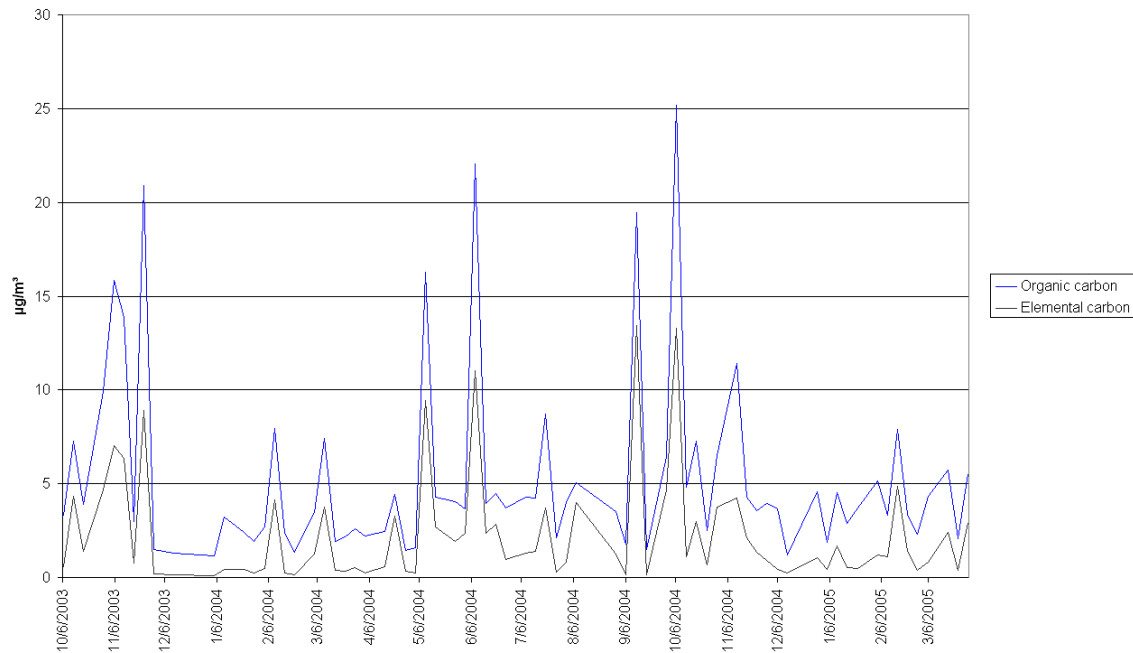
Liberty sulfur and sulfate show an excellent correlation (0.954), so it can be assumed that very few additional forms of sulfur are present.



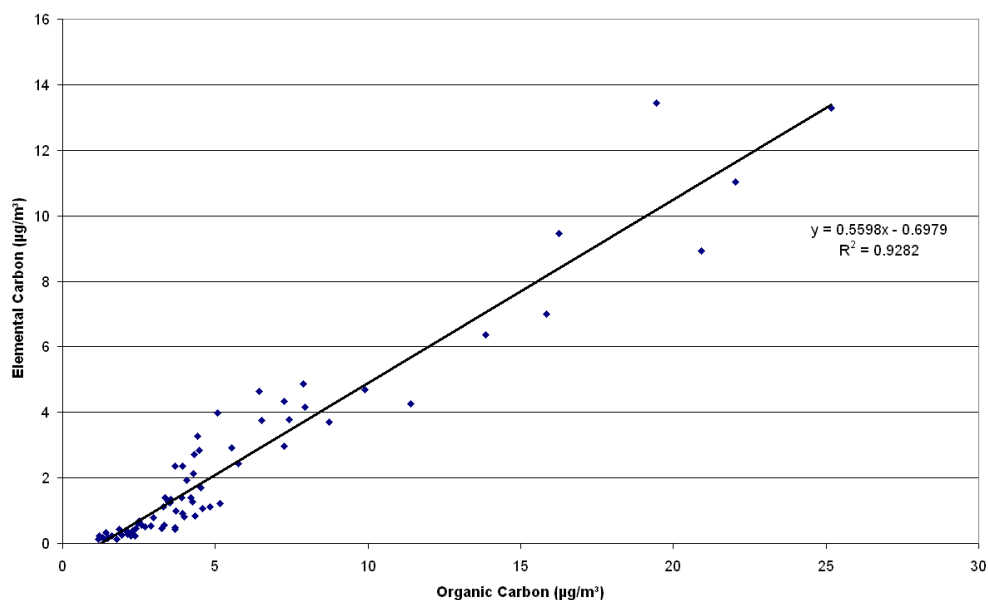
Liberty behaves similarly to Lawrenceville for nitrate and ammonium, but with higher overall concentrations for ammonium at Liberty. Ammonium is likely present in other forms than just ammonium sulfate and nitrate salts at Liberty.

One of the best correlations between species at either site is for organic carbon and elemental carbon at Liberty ($R^2 = 0.928$). Organic and elemental carbons also show strong correlations with total mass concentration at Liberty. Plots and correlations are shown below for organic carbon, elemental carbon, and total $PM_{2.5}$.

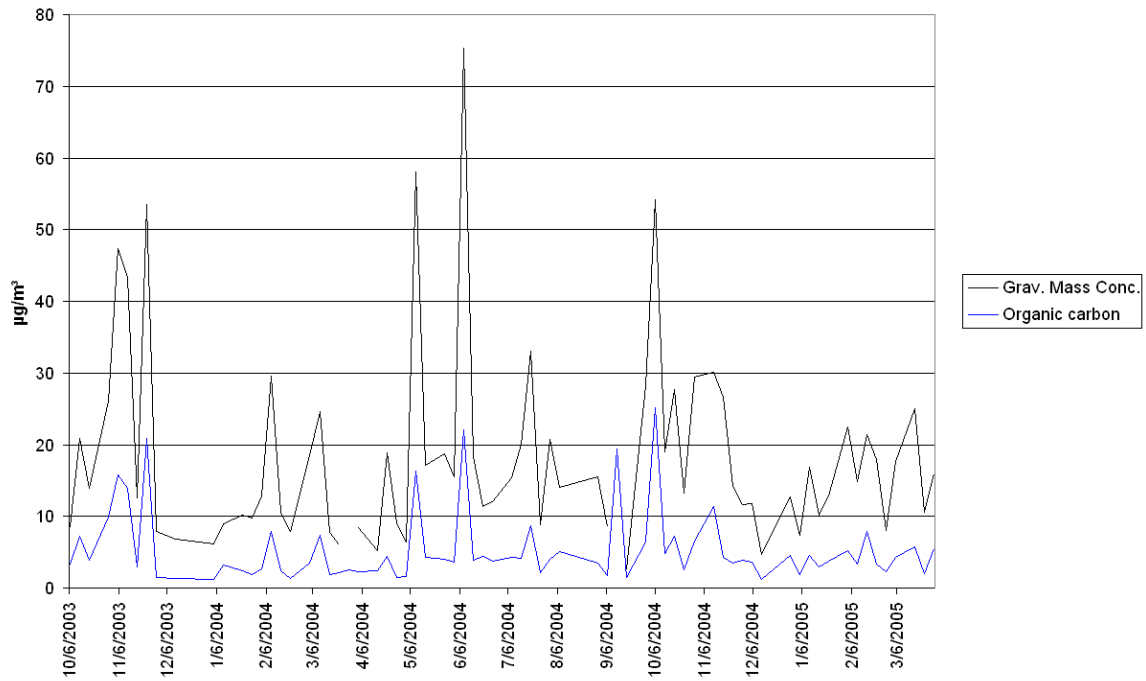
Liberty Organic and Elemental Carbon



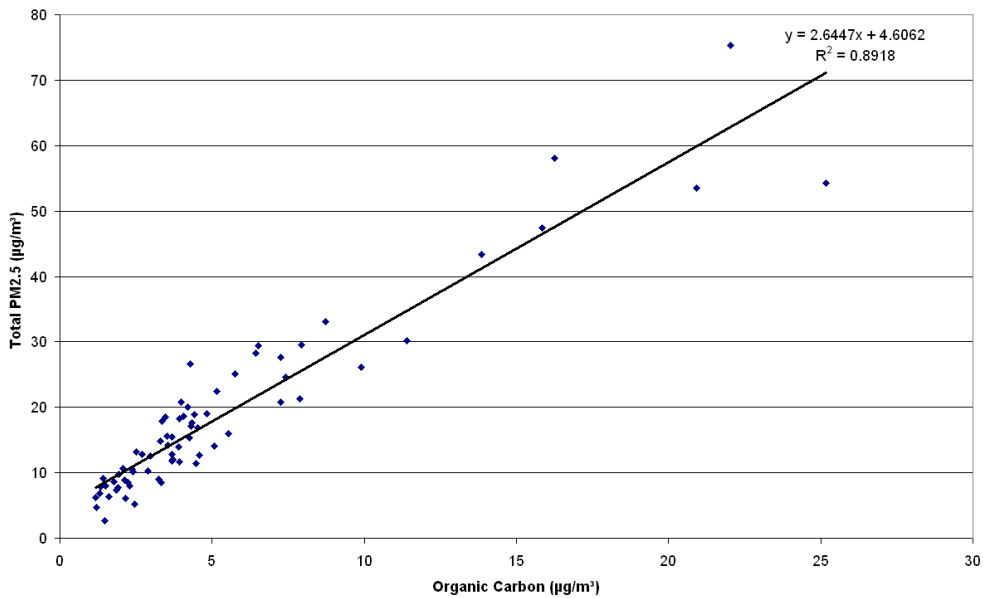
Liberty Elemental vs. Organic Carbon



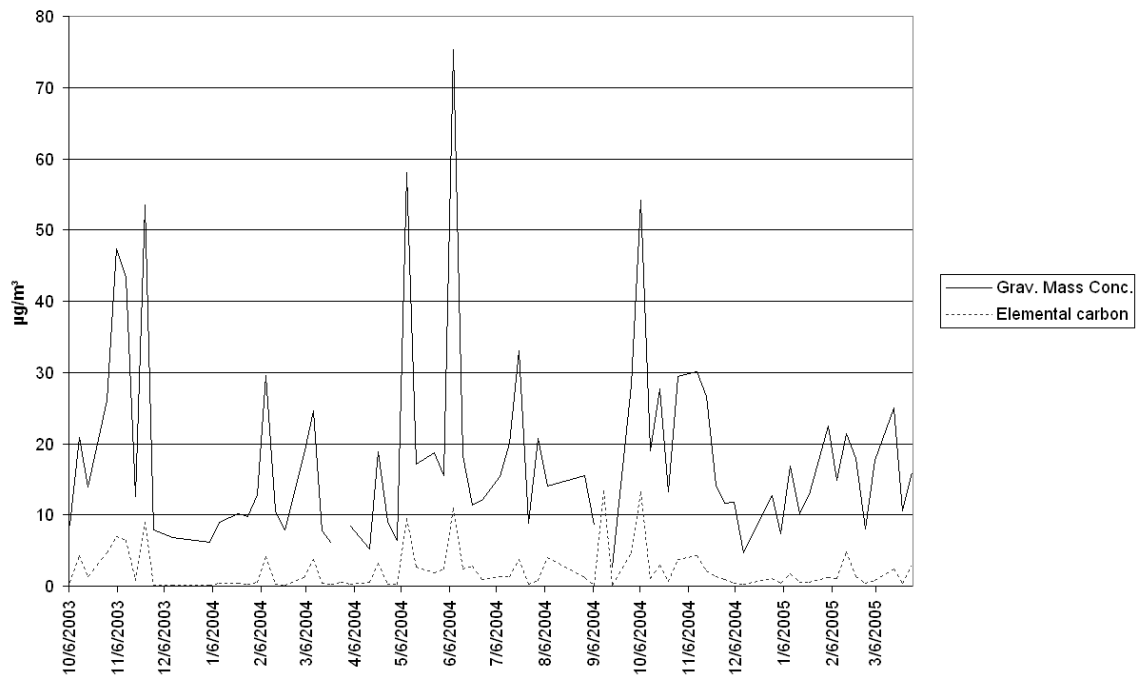
Liberty Total Gravimetric PM2.5 and Organic Carbon



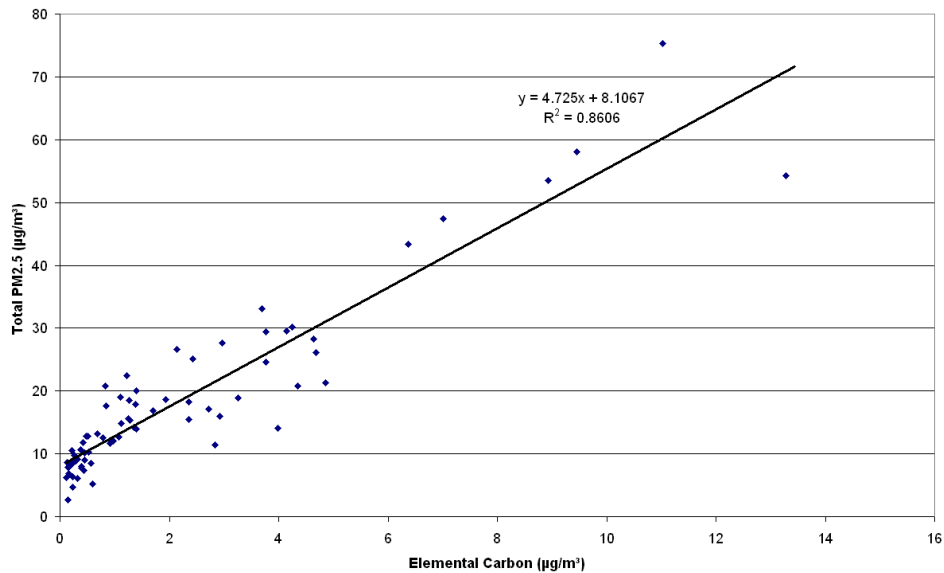
Liberty Total Gravimetric PM2.5 vs. Organic Carbon



Liberty Total Gravimetric PM2.5 and Elemental Carbon

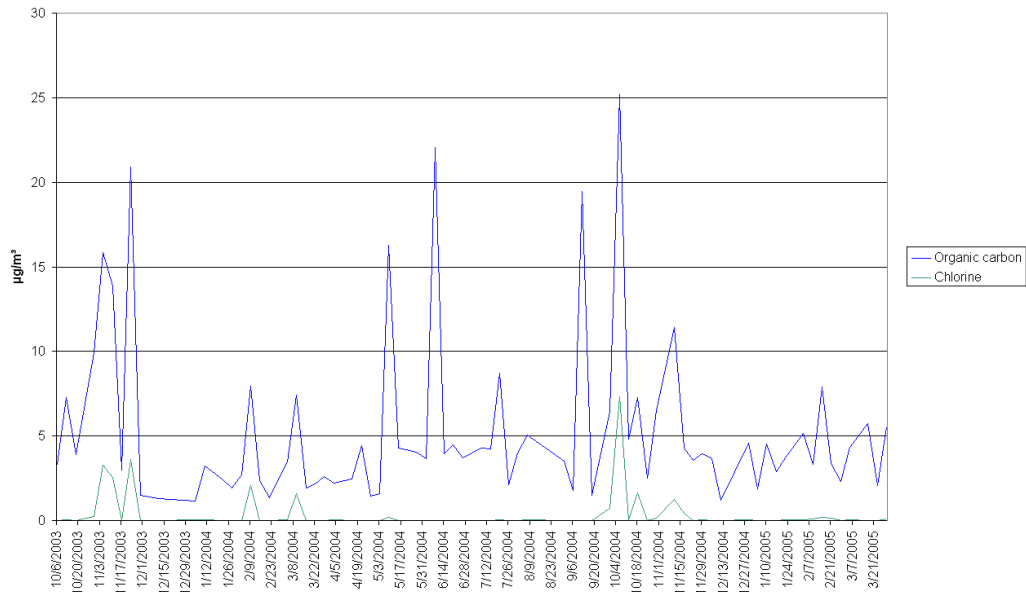


Liberty Total Gravimetric PM2.5 vs. Elemental Carbon

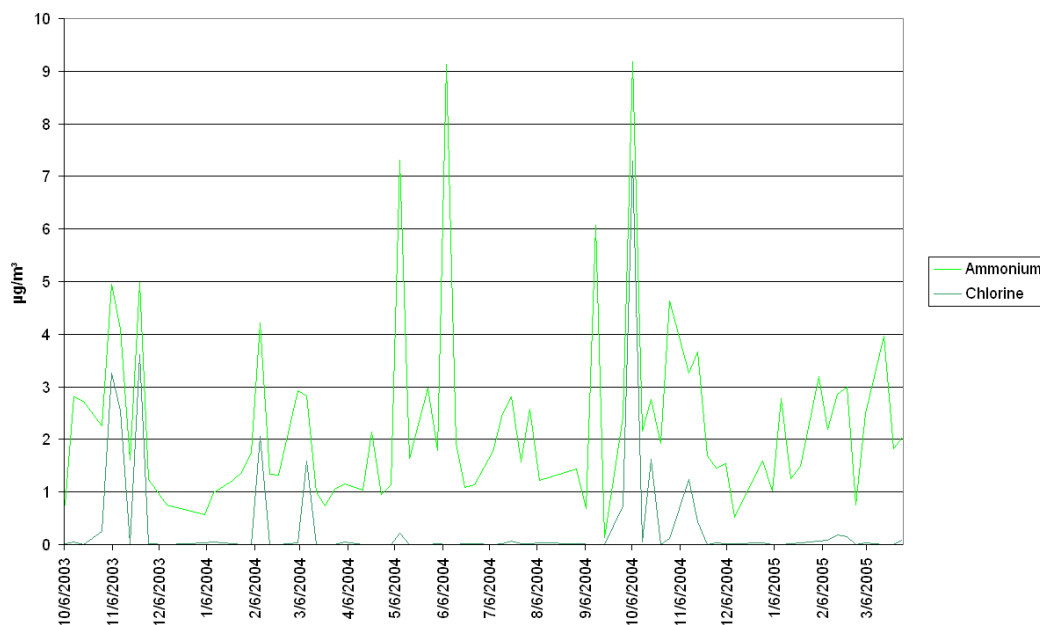


Additionally, chlorine can track organic carbon and ammonium in winter. Time series plots for chlorine with organic carbon and ammonium are given below.

Liberty Organic Carbon and Chlorine



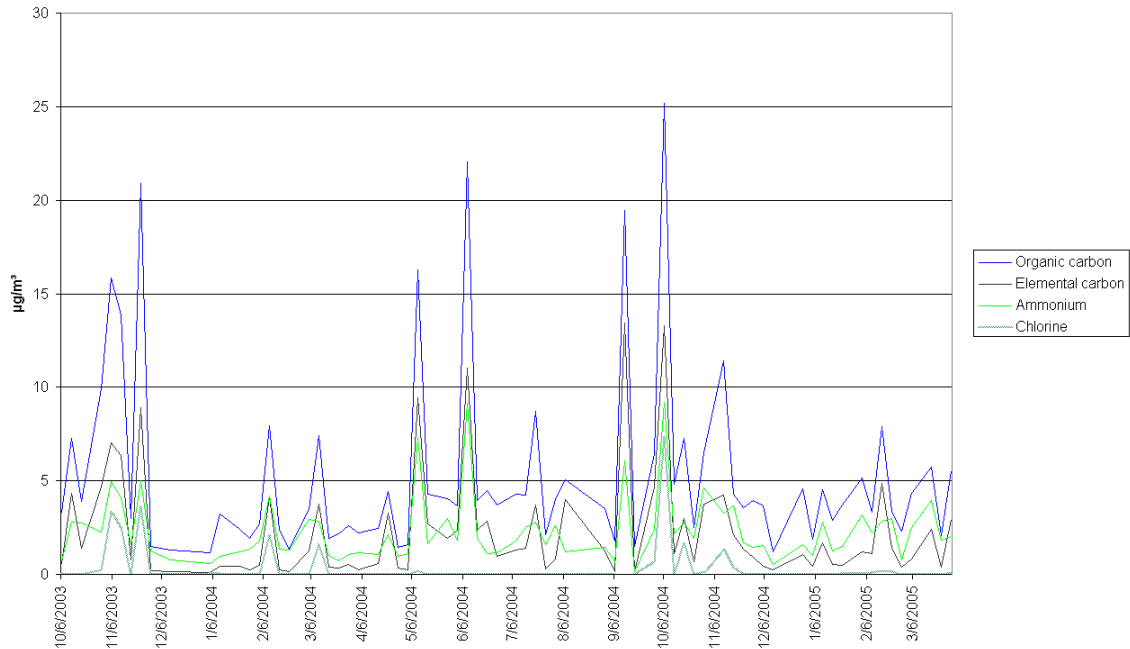
Liberty Ammonium and Chlorine



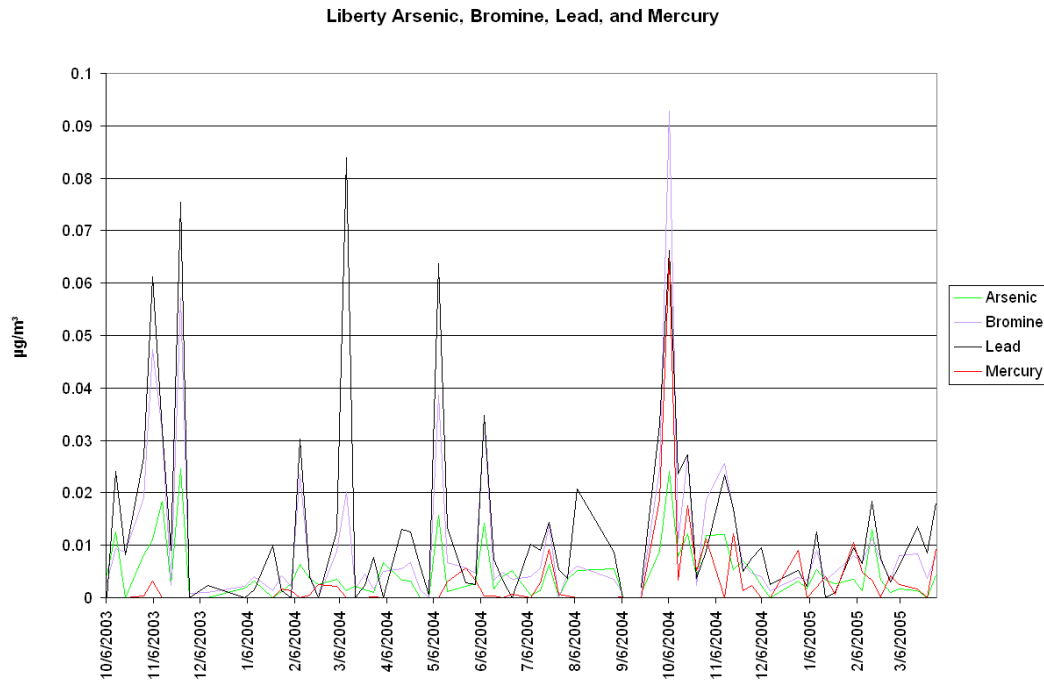
These plots suggest that chlorinated organic compounds and/or ammonium chloride salt may be a component of Liberty $\text{PM}_{2.5}$ during cold months.

Ammonium can also track the carbons on some days, specifically on peak days. Carbons, ammonium, and chlorine are shown on the following plot as "peak species." These species correlate well on peak days, but not necessarily year-round.

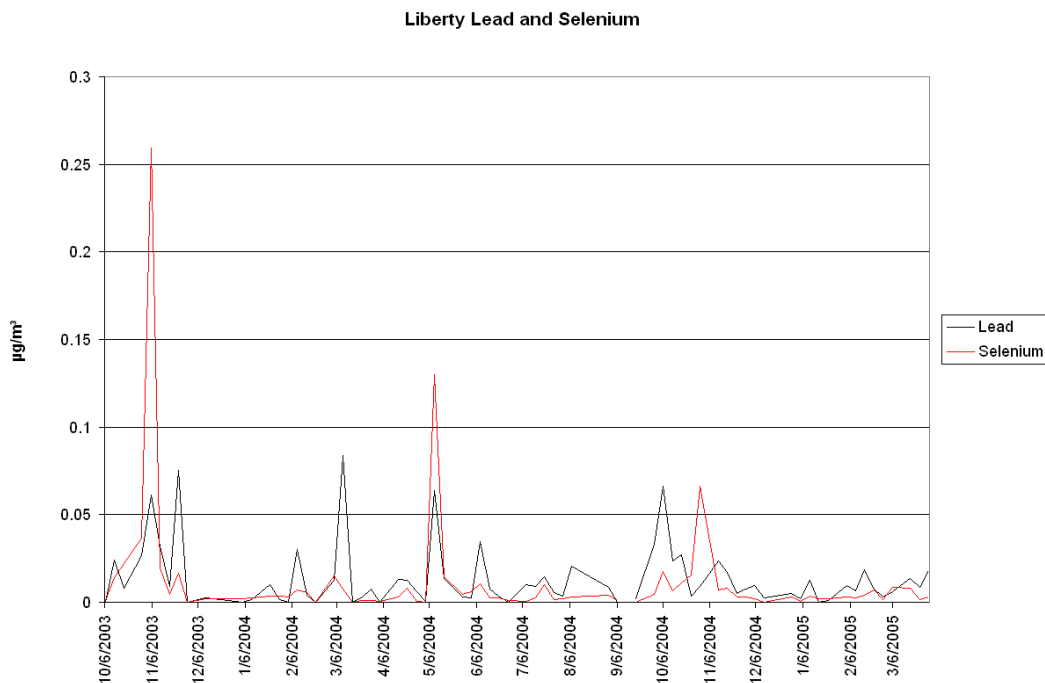
Liberty Peak Species Time Series (Organic Carbon, Elemental Carbon, Ammonium, and Chlorine)



On a smaller scale, some Liberty-dominant trace elements also appear to correlate with one another. Liberty arsenic, bromine, lead, and mercury are shown in the time series plot below.

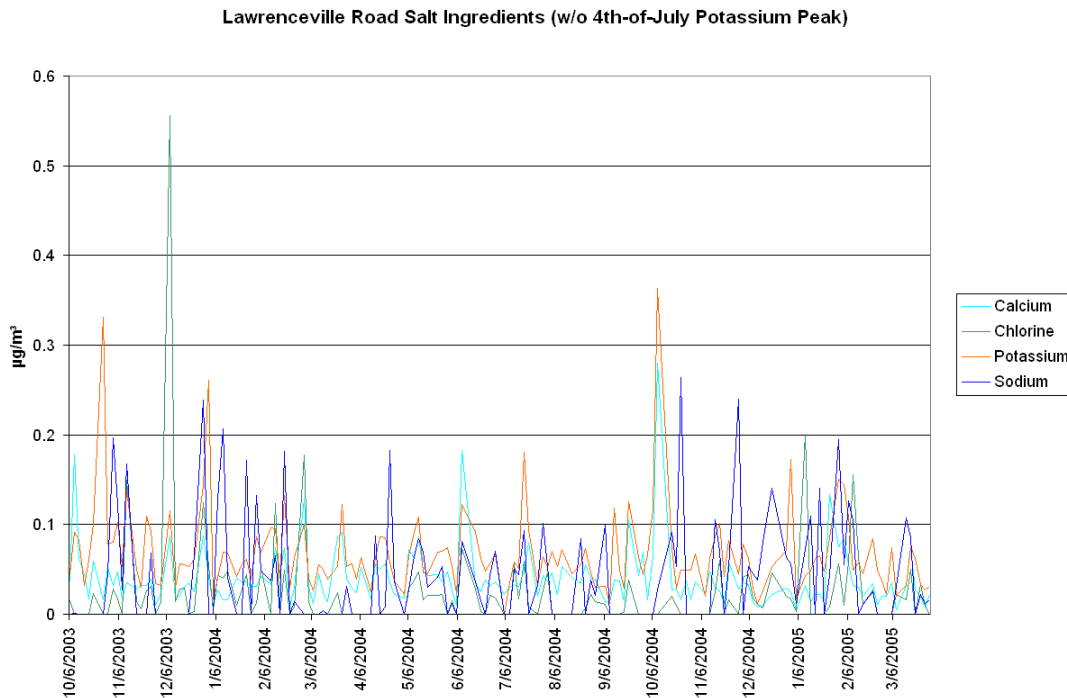


Lead may also correlate with selenium sometimes at Liberty, as shown in the plot below.



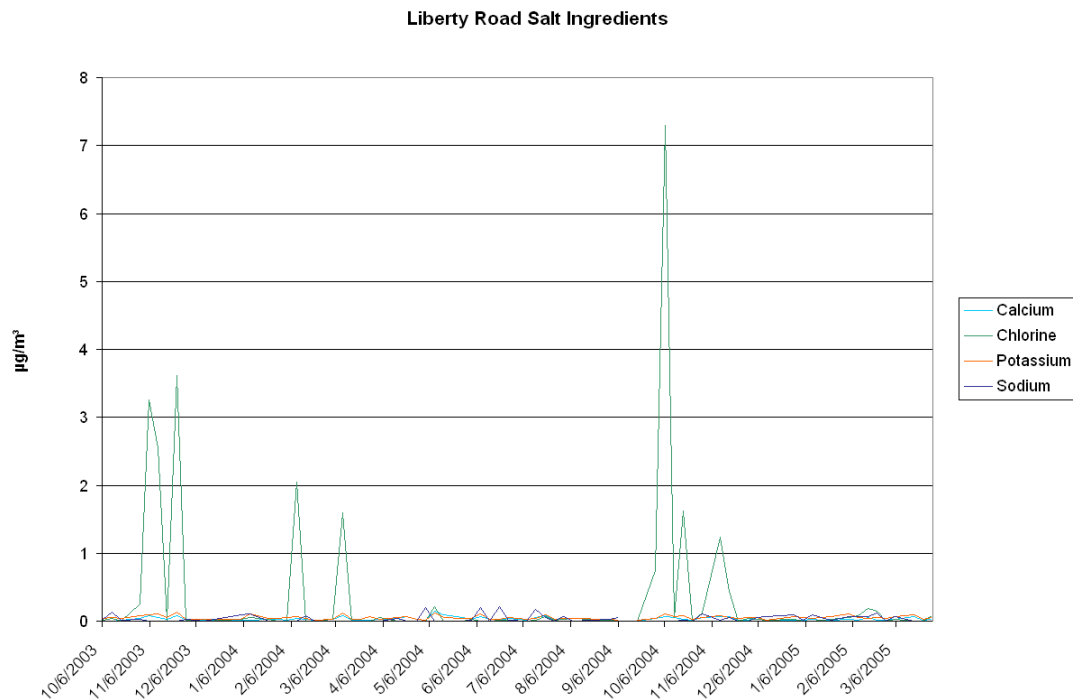
Correlations of possible road (rock) salt trace elements at each site are shown next. Different forms of road (rock) salt can be used as ice-melting material. Sodium chloride is the cheapest, most common form and is the same chemical formula as table salt. Potassium chloride and calcium chloride can also be used as ice-melters, although calcium chloride is the most expensive salt and is generally used only on walkways.

Mass ratios of the cation portion of each salt (sodium, potassium, calcium) are roughly 1:1 to the anionic portion (chloride). Plots of these elements should therefore show similar concentrations to one another if airborne road salt is a source of PM_{2.5}.



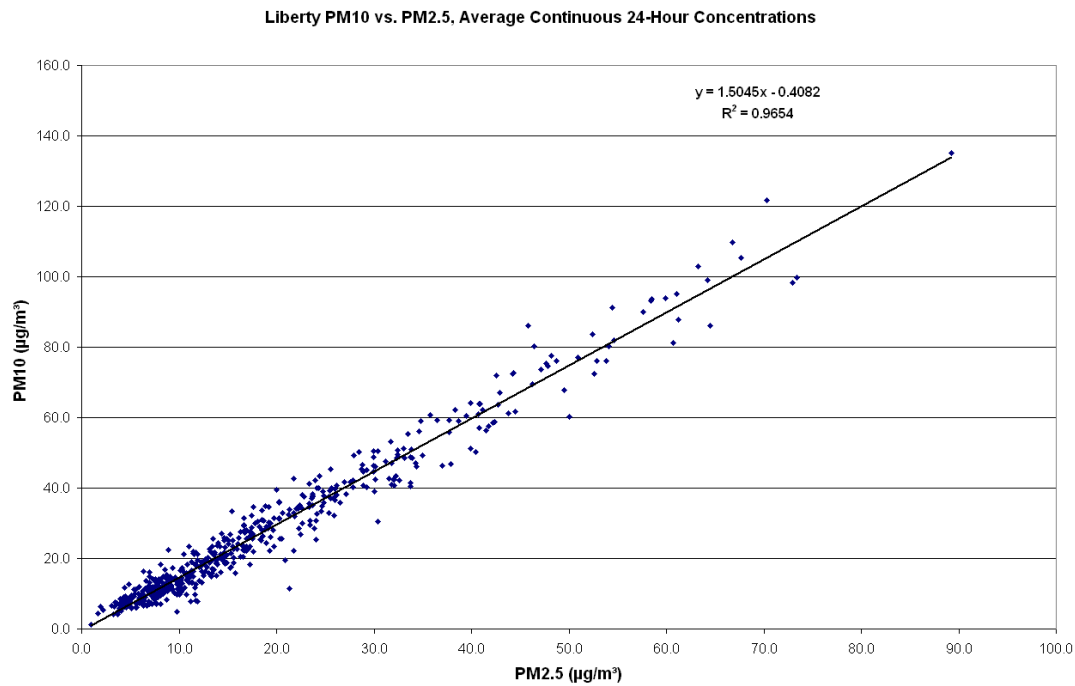
Road salt ingredients show similar concentration levels at Lawrenceville, signifying that one or more of the possible cations may be present with chloride as road salt. The highest chlorine peak (date: 12/8/03) may represent a combination of all three types of salt.

Road salt ingredients at Liberty are shown in the plot below.



At Liberty, road salt may be present as $\text{PM}_{2.5}$, but only a small portion of the total chlorine concentrations can be attributed to road salt. The cation concentrations are much lower than chlorine on the peak days. Therefore, the source of chlorine is not entirely from road salt at Liberty.

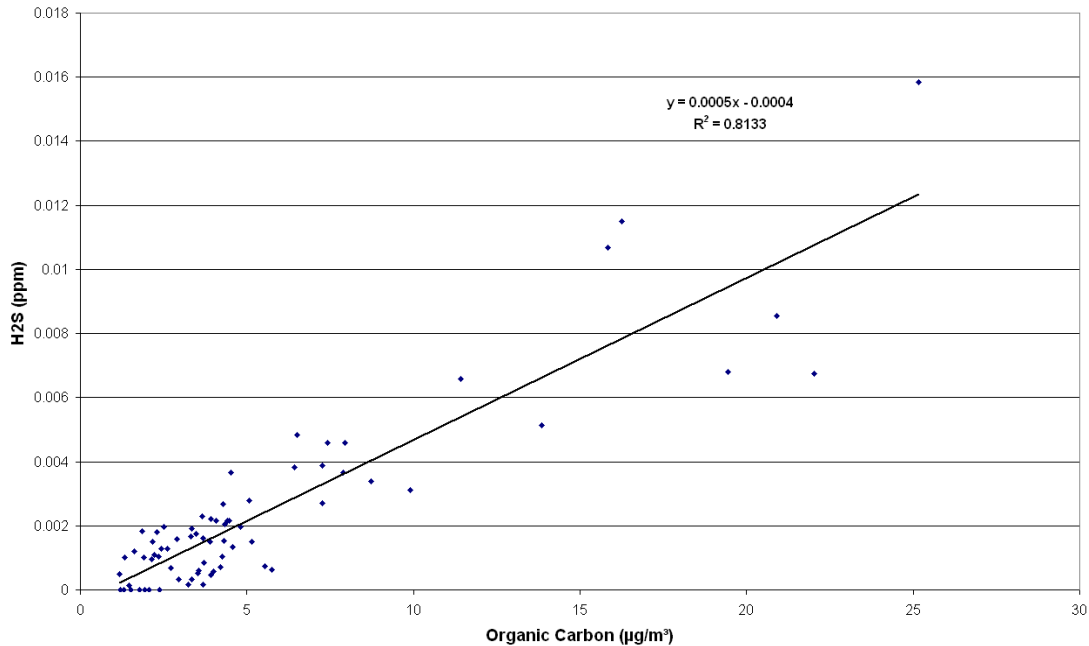
The Liberty site is collocated with several continuous monitors. Liberty continuous PM₁₀ and PM_{2.5} are plotted below.



The Liberty PM₁₀ and PM_{2.5} continuous monitors correlate extremely well, with PM_{2.5} constituting two-thirds of the PM₁₀ concentration.

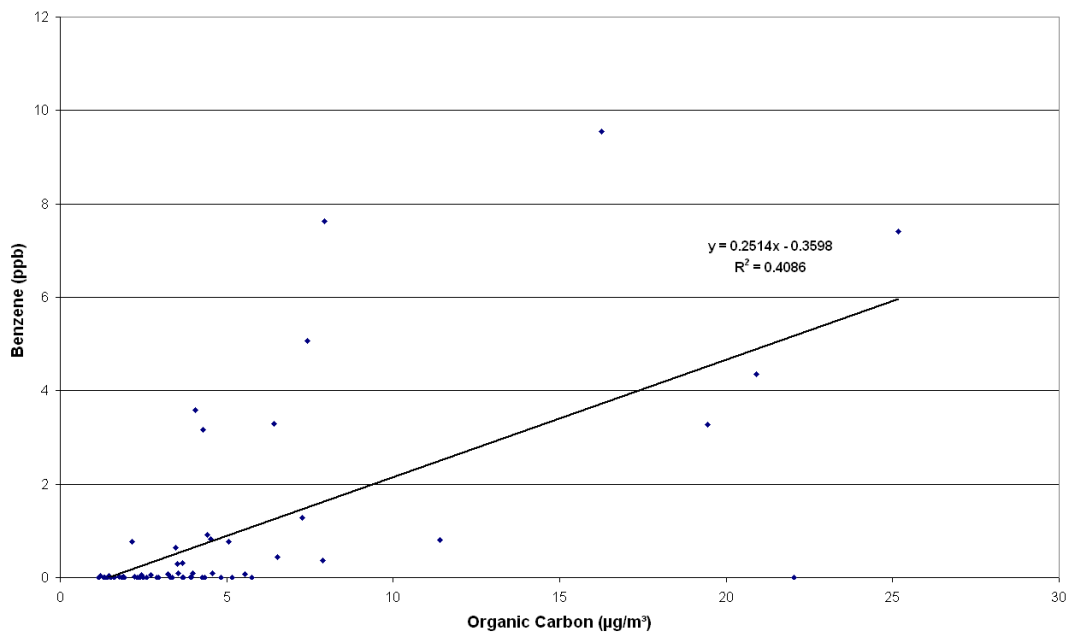
Regression plots for continuous gaseous pollutants and organic carbon (the most dominant PM_{2.5} species) are given below for Liberty.

Liberty H₂S (Average Continuous 24-Hour) vs. Organic Carbon



Hydrogen sulfide (H₂S) 24-hour averages appear to correlate well with organic carbon at Liberty. Liberty benzene and organic carbon are shown next.

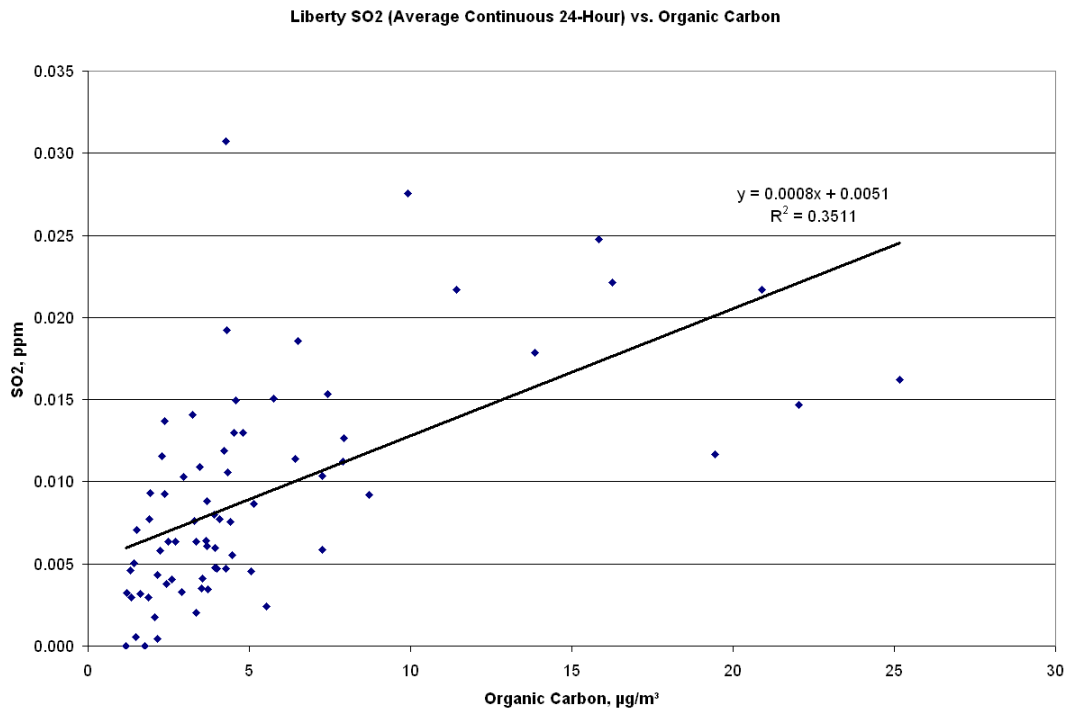
Liberty Benzene (Average Continuous 24-Hour) vs. Organic Carbon



Benzene itself is an organic carbon, but benzene 24-hour averages do not correlate well with organic carbon at Liberty. This is due to the different phases in which benzene and organic carbon are being sampled. The benzene monitor measures continuous gas-phase benzene, while the speciation monitor measures solid-phase organic carbon deposited over a 24-hour period. Gaseous benzene appears to behave differently than particulate-phase organic carbon on a 24-hour basis.

[Benzene appears to follow organic carbon better on an hourly level. Hourly plots for continuous monitors are shown later in this report in the Peak Days section.]

Liberty sulfur dioxide (SO₂) and organic carbon are shown below.

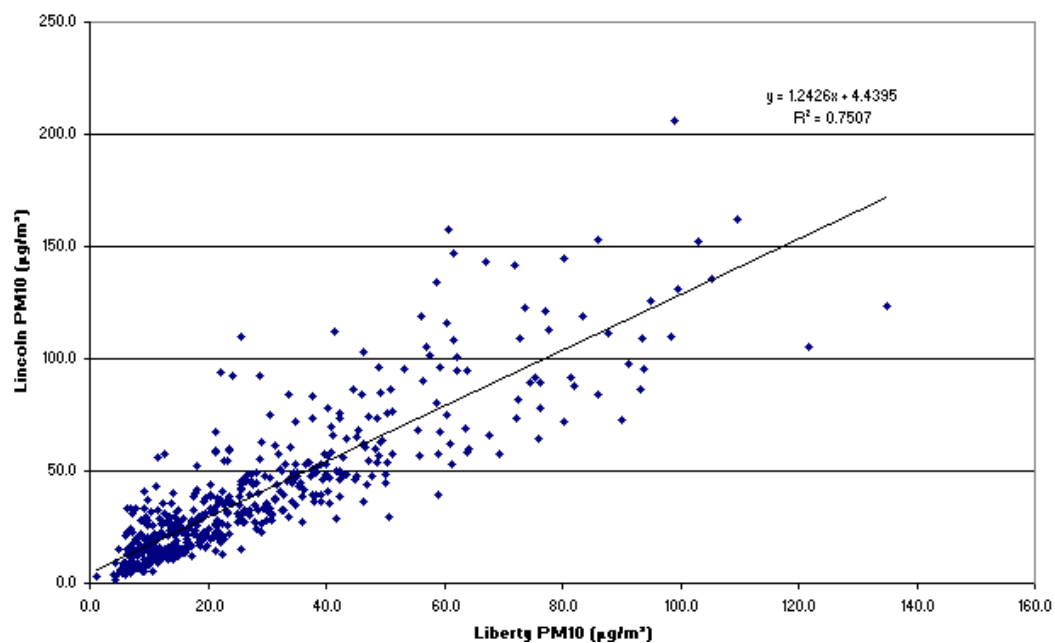


Sulfur dioxide, like benzene, does not correlate well with organic carbon on a 24-hour basis.

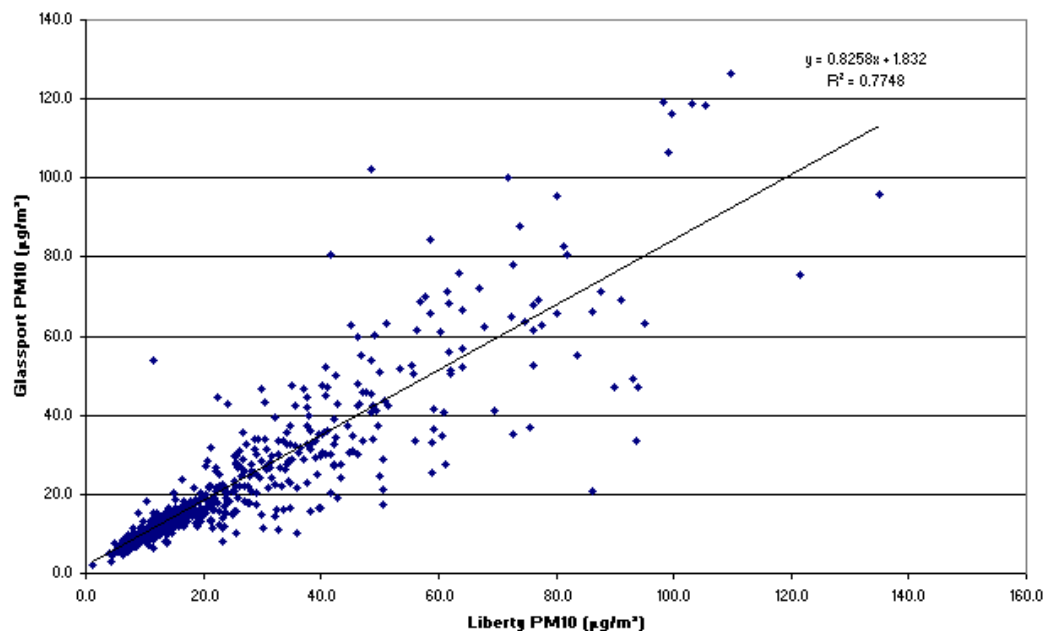
8. Site Correlations

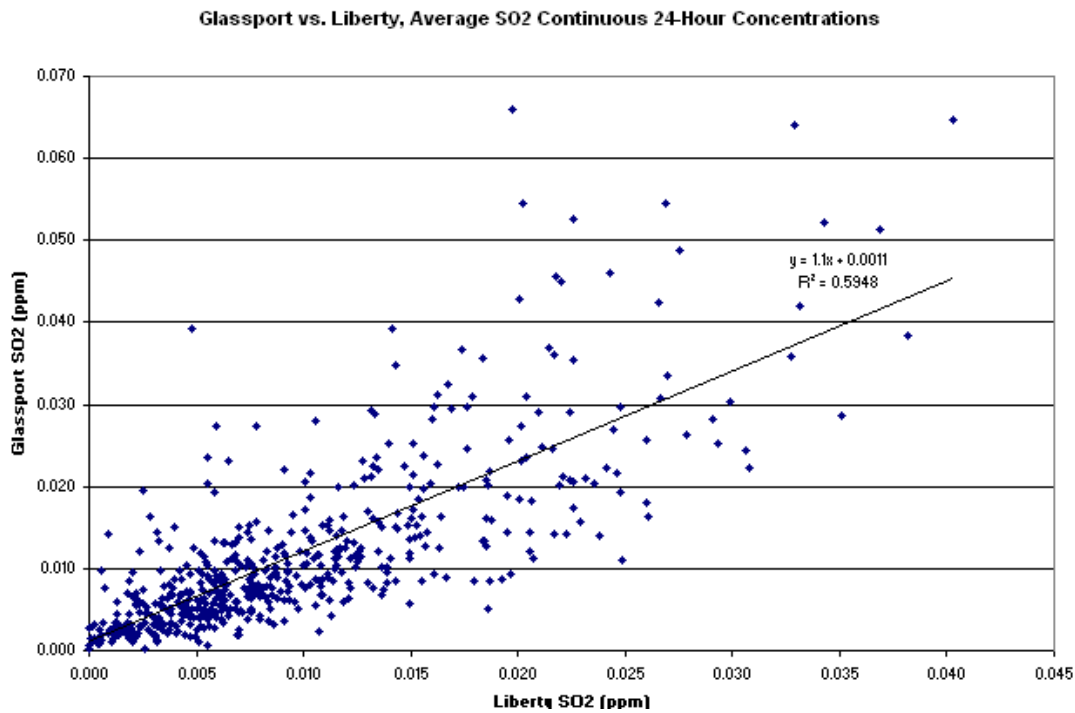
Liberty is located near two additional sites with PM₁₀ and SO₂ monitors: Lincoln and Glassport. Regression plots for these sites with Liberty are given below.

Lincoln vs. Liberty, Average PM₁₀ Continuous 24-Hour Concentrations



Glassport vs. Liberty, Average PM₁₀ Continuous 24-Hour Concentrations



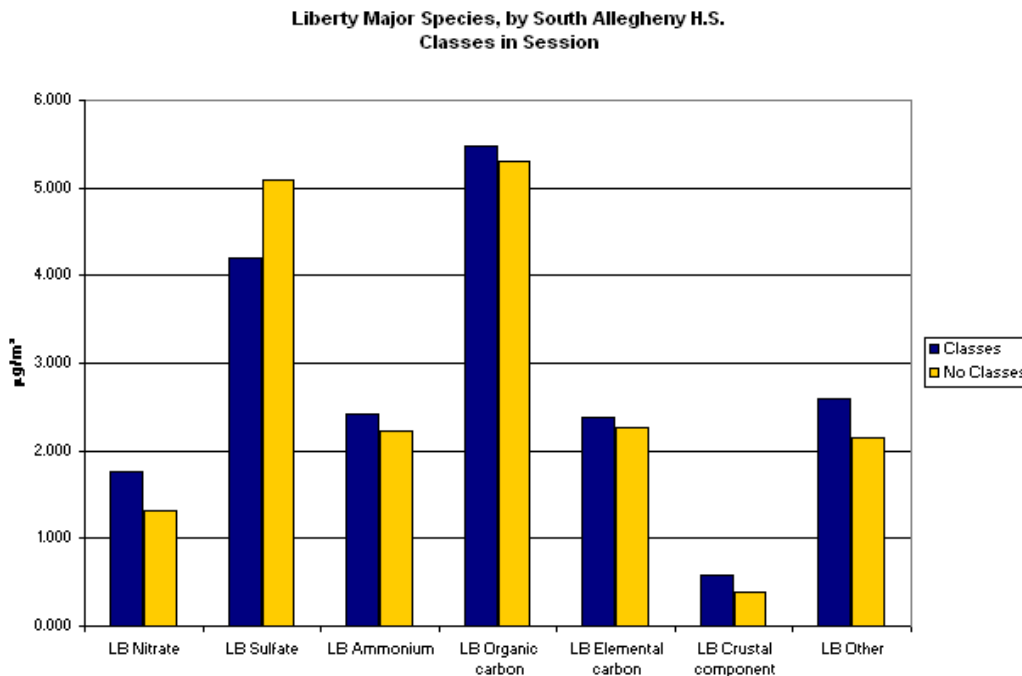


These plots reveal that Liberty can correlate moderately with Glassport and Lincoln for PM₁₀ on a 24-hour average basis. Liberty is more site-specific for SO₂, however, as Glassport and Liberty do not correlate well.

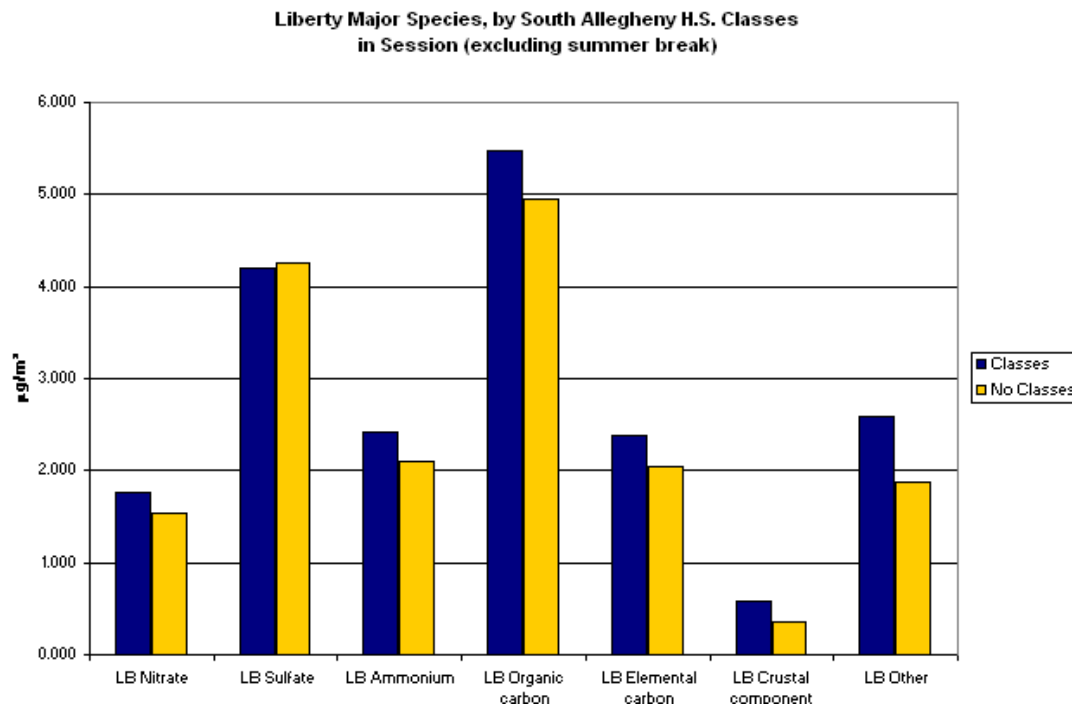
9. Liberty School Buses

The Liberty site is located on the roof of South Allegheny High School, and school bus diesel emissions are a possible source of PM_{2.5} for that monitor. School buses line up on both sides of the high school in the morning and afternoon; the Liberty monitor is located near the center of the roof.

The column chart below shows average concentrations of major species on a classes-in-session basis. On a day when classes are not in session and school buses are not present, diesel emissions from buses are not impacting the speciation monitor.



This above chart represents year-round averages. However, PM_{2.5} can show a seasonal bias for certain species, such as sulfate in summer. To eliminate bias for summer days when classes are never in session, summer days can be removed from the averaging in order to show a more specific breakdown of species collected during the school year only.

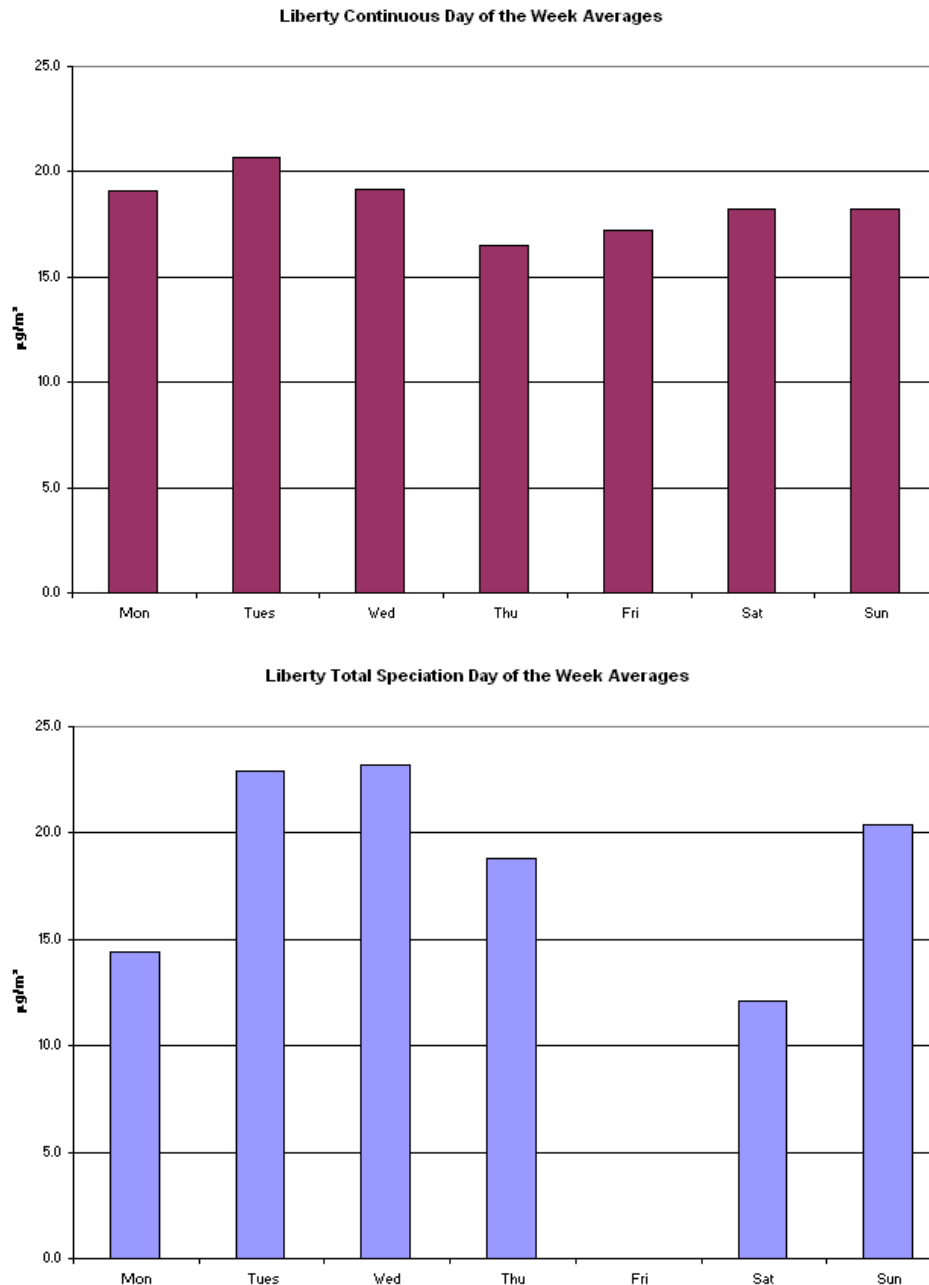


The adjusted column chart above represents a more specific analysis of days with or without school bus emissions during the course of a school year (autumn through spring).

It can be seen on the chart that all species except sulfate are higher during days when classes are in session. Diesel emissions are most commonly associated with elemental carbon. Since elemental carbon is indeed higher on class-days, school buses emissions may be impacting the Liberty monitor. However, higher concentrations for the additional species on class-days may suggest that the concentration differences are statistically random.

10. Days of the Week

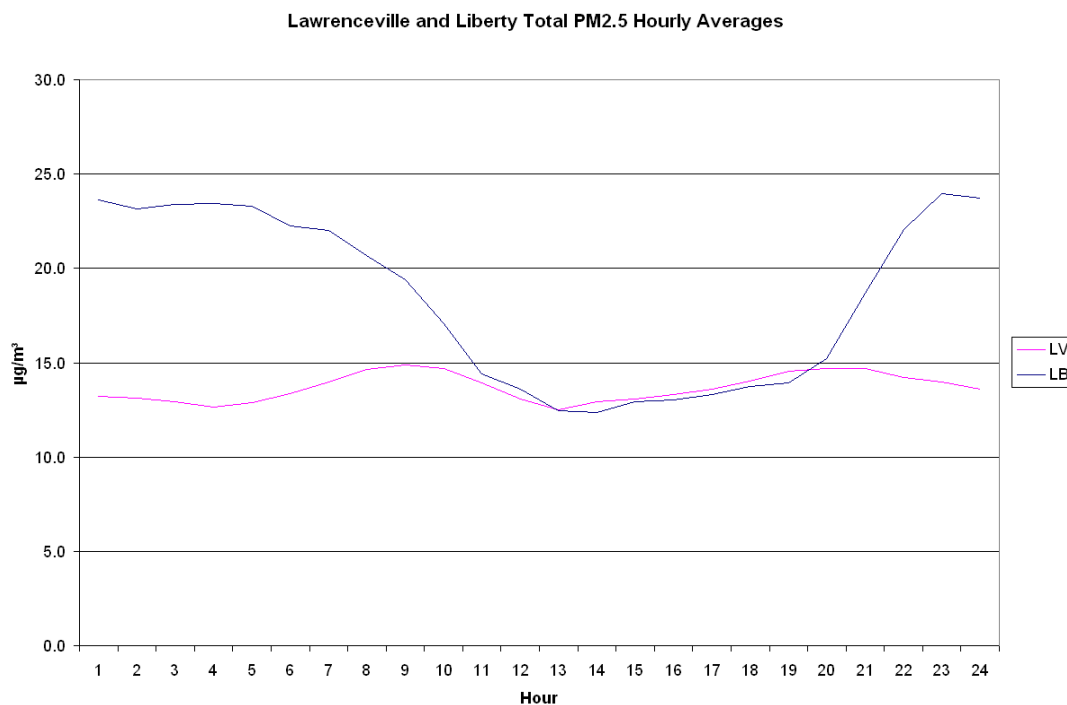
Below are column charts of average total PM_{2.5} concentrations for the continuous and speciation monitors.



Total PM_{2.5} concentrations show some variance by day of the week. For the speciation monitor, there are no Friday samples on account of invalid retrieval times following a weekend.

11. Liberty Peak Days

Peak $PM_{2.5}$ days usually occur simultaneously at Lawrenceville and Liberty, but the peaks have different species compositions and concentrations. Simultaneous peaking may be due to broad-scale inversions or other regional events. Liberty is much more greatly affected by inversions, however, as evident by the average hourly plot shown below.



Liberty $PM_{2.5}$ levels are highly influenced by nocturnal temperature inversions, when warmer upper-air layers trap pollutants close to surface level. Lawrenceville is moderately influenced by inversions near daybreak, but overall the levels remain steadier at Lawrenceville on a diurnal basis.

Meteorological parameters and hourly multi-pollutant plots are shown on the following pages for selected peak days at Liberty. These peak days coincide with high carbon and ammonium concentrations. Additionally, high chlorine concentrations are present on cold-weather peak days.

Benzene concentrations on the hourly plots represent gaseous benzene only.

Resultant wind parameters represent the sum of the vector components. Persistence is the ratio of resultant wind speed to scalar mean (average) wind speed.

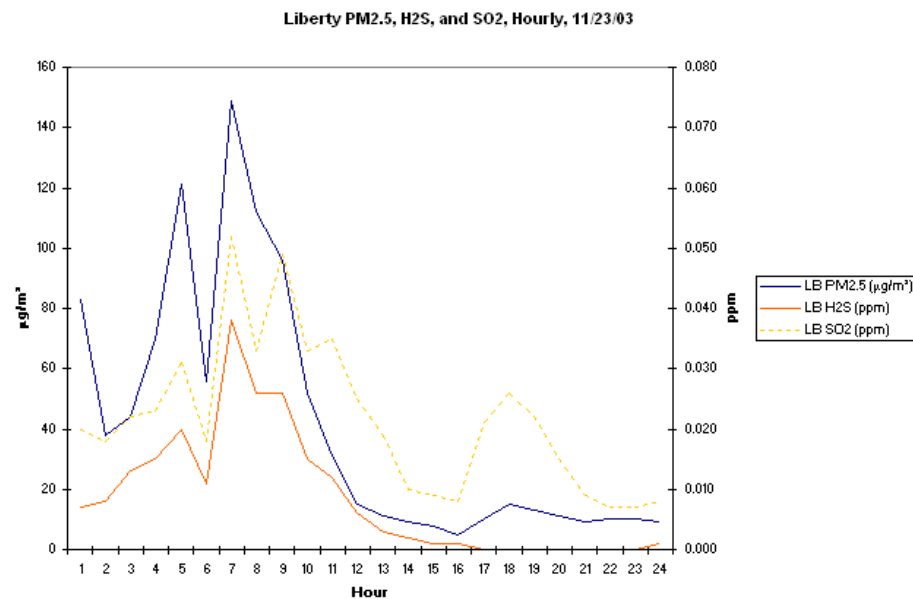
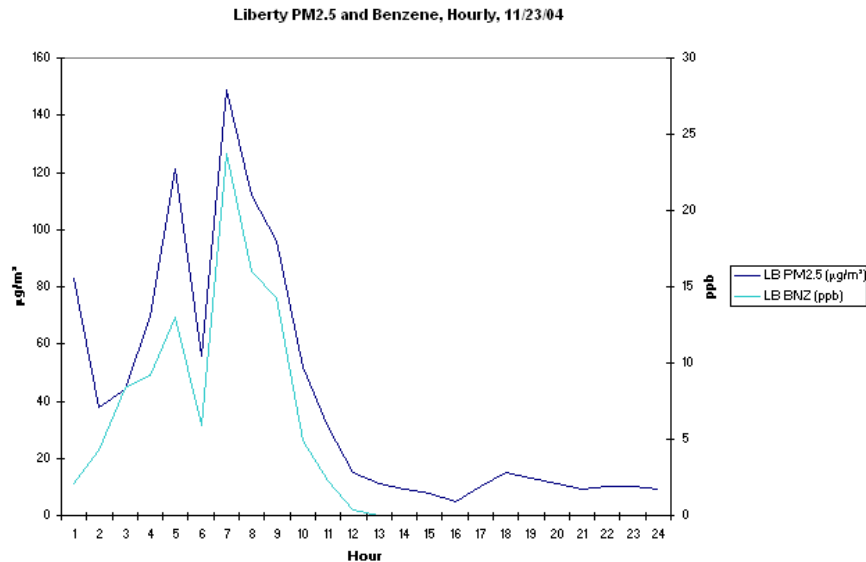
SAMPLING DATE: 11/23/03

Total PM_{2.5} Speciation 53.5 µg/m³

Resultant wind speed 3.1 mph

Resultant wind direction 164°

Wind persistence 0.89

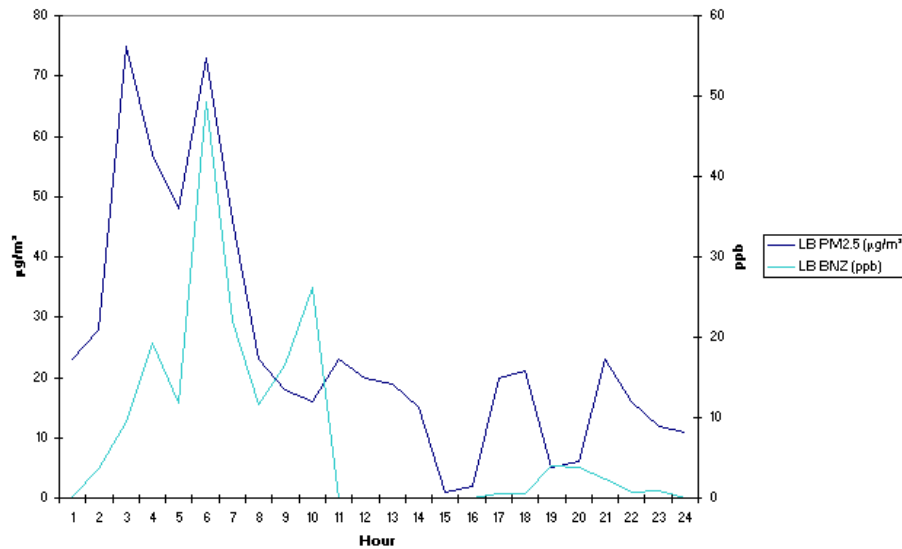


On this date, a morning inversion led to high total PM_{2.5}, benzene, and H₂S. Winds were persistent and from the south-southeast.

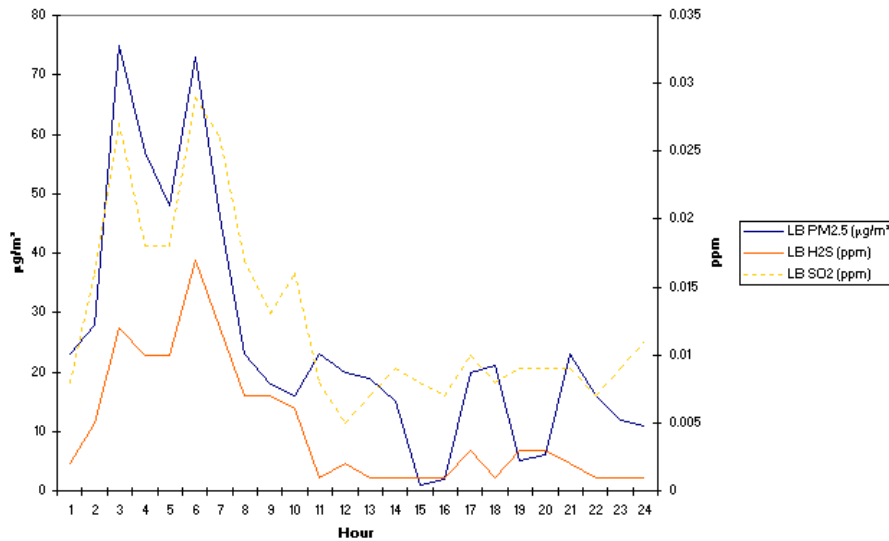
SAMPLING DATE: 2/9/04

Total PM_{2.5} Speciation 29.5 µg/m³
 Resultant wind speed 8.0 mph
 Resultant wind direction 216°
 Wind persistence 0.98

Liberty PM2.5 and Benzene, Hourly, 2/9/04



Liberty PM2.5, H2S, and SO2, Hourly, 2/9/04



On 2/9/04, a morning inversion led to high total PM_{2.5}, benzene, and H₂S. Winds were persistent, strong, and from the south-southwest.

SAMPLING DATE: 5/9/04

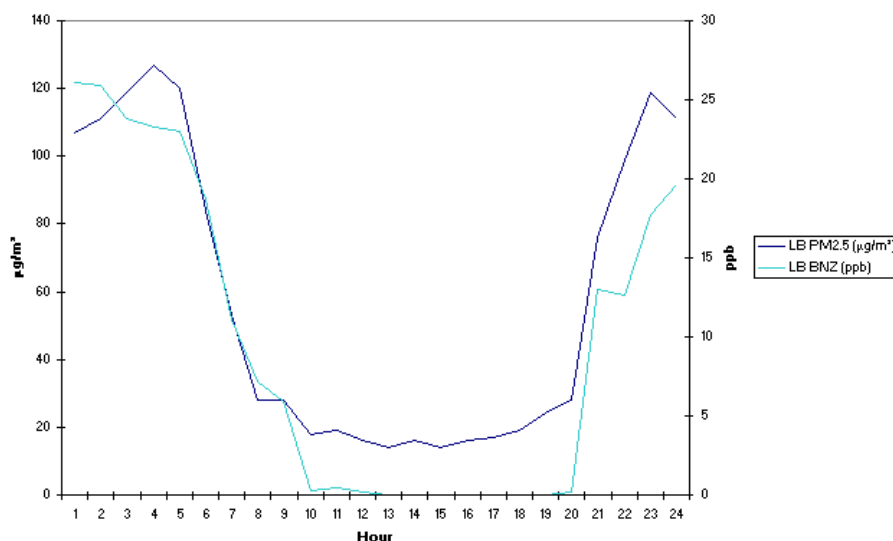
Total PM_{2.5} Speciation 58.0 µg/m³

Resultant wind speed 5.1 mph

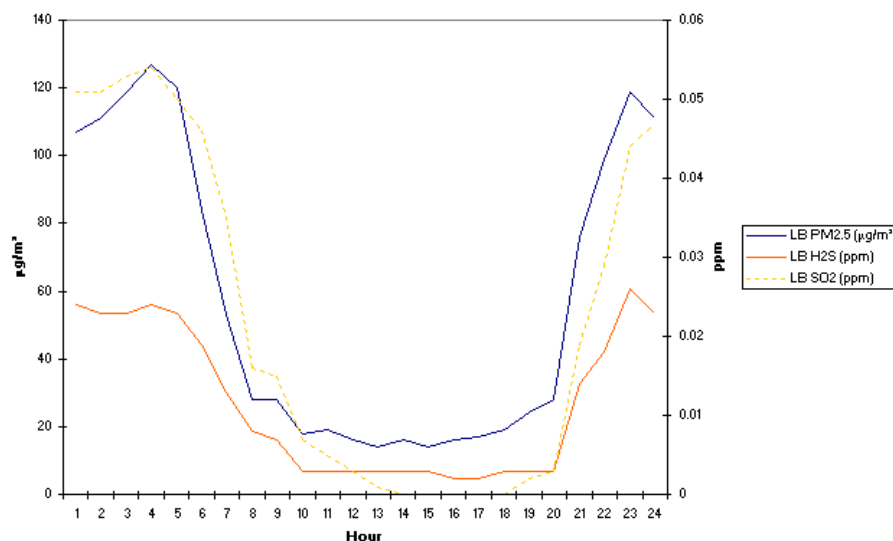
Resultant wind direction 227°

Wind persistence 0.95

Liberty PM2.5 and Benzene, Hourly, 5/9/04



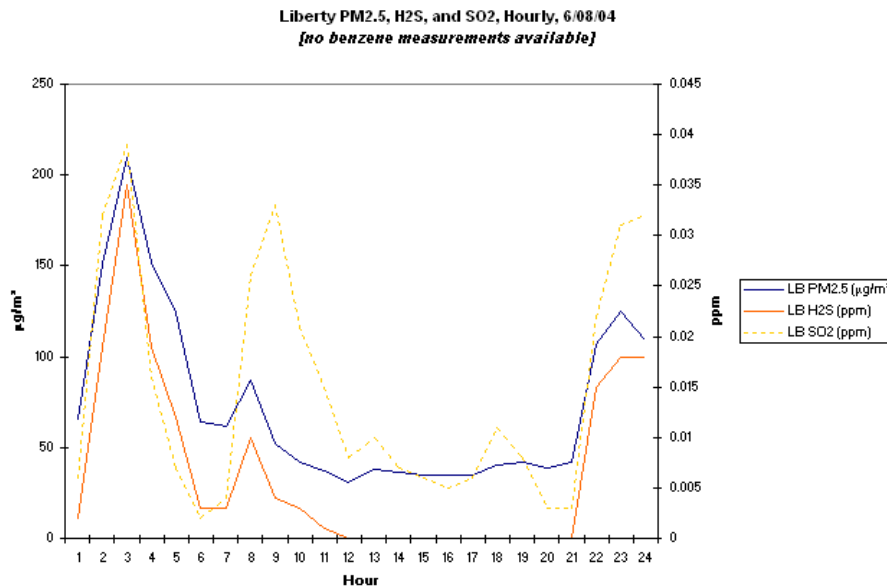
Liberty PM2.5, H2S, and SO2, Hourly, 5/9/04



On this date, nighttime inversions led to high total PM_{2.5}, benzene, and H₂S. Winds were persistent, strong, and from the southwest. All pollutants track together.

SAMPLING DATE: 6/8/04

Total PM_{2.5} Speciation 75.0 µg/m³
 Resultant wind speed 2.8 mph
 Resultant wind direction 212°
 Wind persistence 0.97

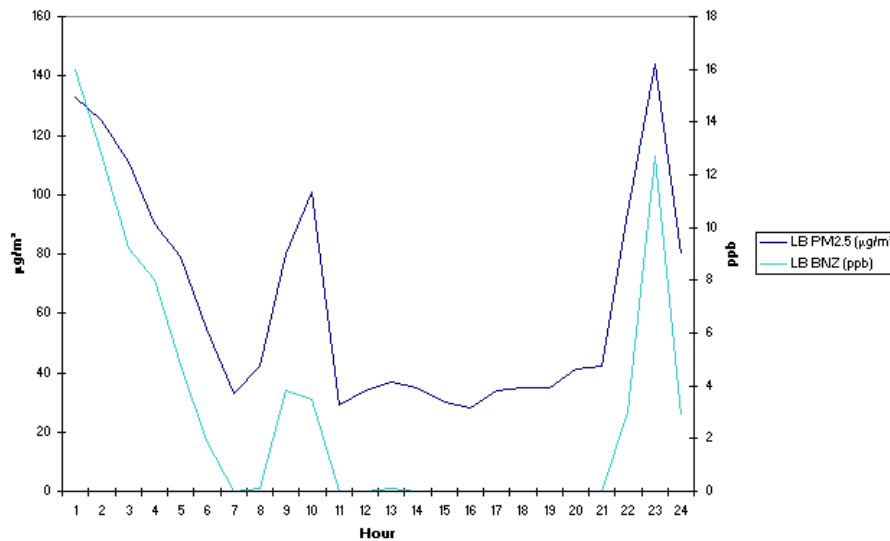


On 6/8/04, nighttime inversions led to very high total PM_{2.5} and H₂S concentrations. Winds were persistent and from the south-southwest.

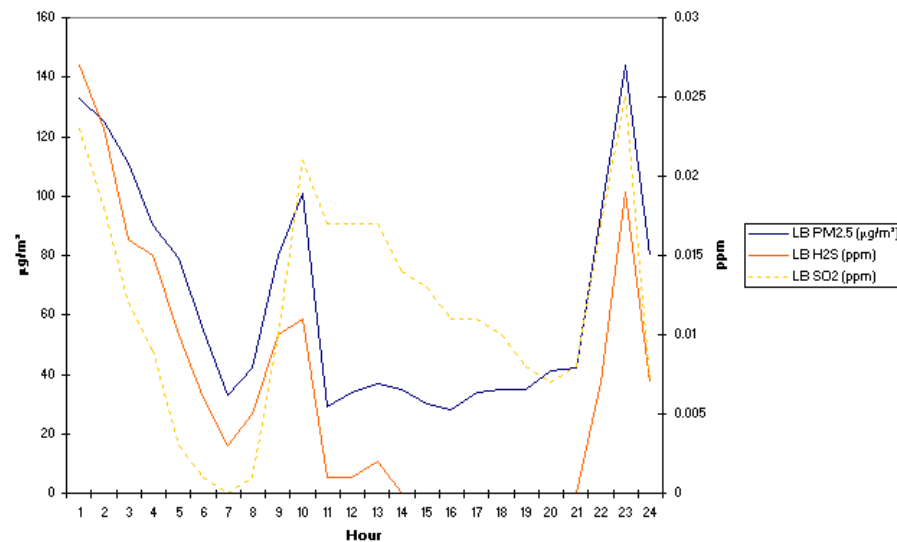
SAMPLING DATE: 9/12/04

Total PM_{2.5} Speciation 64.2 µg/m³
 Resultant wind speed 1.2 mph
 Resultant wind direction 216°
 Wind persistence 0.85

Liberty PM2.5 and Benzene, Hourly, 9/12/04



Liberty PM2.5, H2S, and SO2, Hourly, 9/12/04



On this date, nighttime inversions led to high total PM_{2.5}, benzene, and H₂S concentrations. Winds were fairly persistent, weak, and from the south-southwest.

SAMPLING DATE: 10/6/04

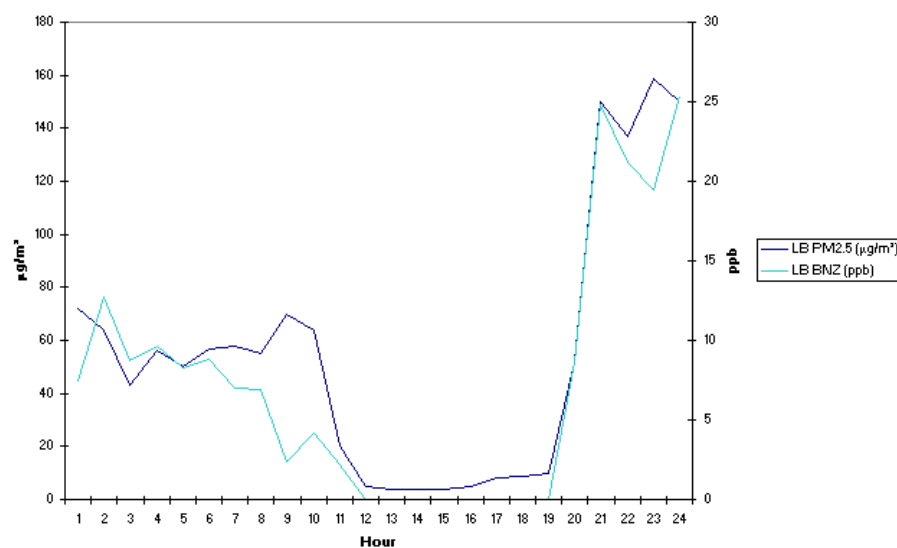
Total PM_{2.5} Speciation 54.2 µg/m³

Resultant wind speed 1.4 mph

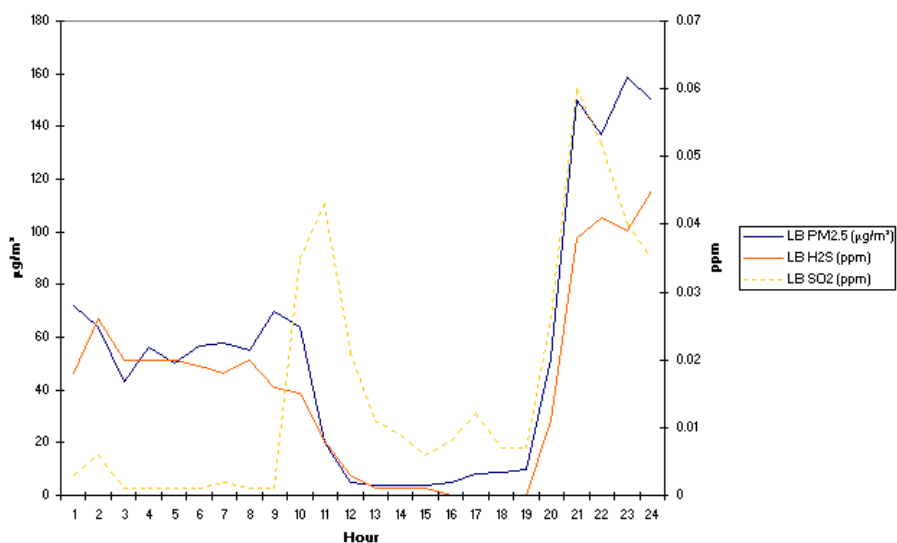
Resultant wind direction 219°

Wind persistence 0.95

Liberty PM2.5 and Benzene, Hourly, 10/6/04



Liberty PM2.5, H2S, and SO2, Hourly, 10/6/04



On 10/6/04, nighttime inversions led to high total PM_{2.5}, benzene, and H₂S concentrations. Winds were persistent, weak, and from the south-southwest.

DATE: 11/11/04

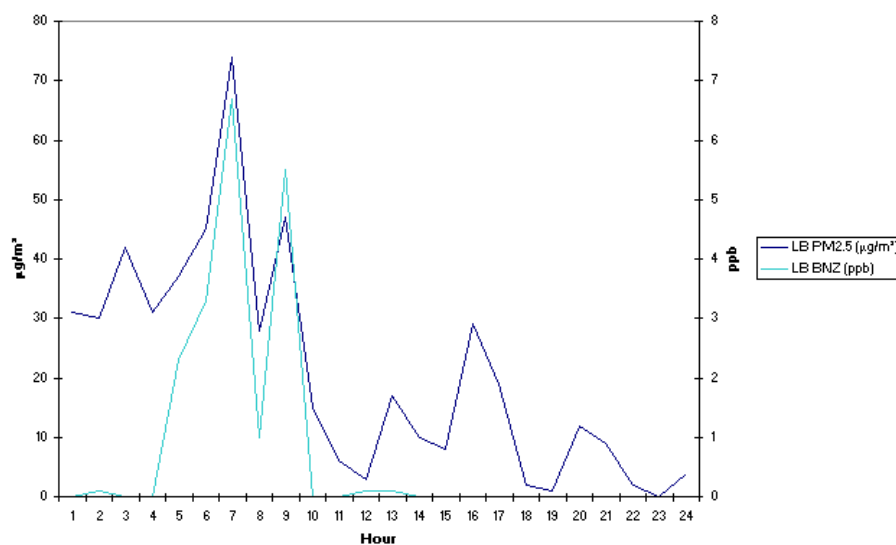
Total PM_{2.5} Speciation 30.1 µg/m³

Resultant wind speed 2.0 mph

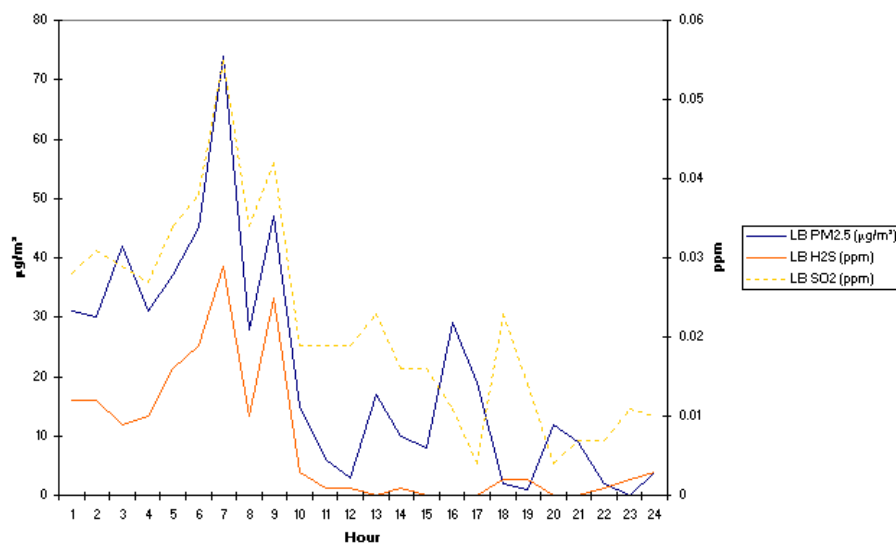
Resultant wind direction 125°

Wind persistence 0.34

Liberty Pm2.5 and Benzene, Hourly, 11/11/04



Liberty PM2.5, H2S, and SO2, Hourly, 11/11/04



On 11/11/04, a morning inversion led to high total PM_{2.5}, benzene, and H₂S concentrations. Winds were not persistent and were from the southeast.

12. Conclusion

Lawrenceville is affected by both regional flow and urban excess for $PM_{2.5}$. The primary sources of the urban excess are from anthropogenic sources such as from light industry, residential and commercial heating, and mobile source emissions. The regional flow contribution is mostly attributed to upwind power plant emissions, but may also include $PM_{2.5}$ from biogenic sources such as trees.

At Liberty, regional flow is evident for some $PM_{2.5}$ species, while concentrations of other species do not follow regional flow. It is assumed that species that do not follow regional flow may be attributed to sources resident to the area, both stationary and mobile. Liberty is more highly influenced by inversions than Lawrenceville. Carbons and ammonium are prominent species on peak days at Liberty. Chlorine is also prominent on cold-weather peak days.

To gain further understanding of $PM_{2.5}$ in Allegheny County, future analysis may include the following:

- Additional correlations
- Deployment of additional monitors
- Source testing
- Dispersion modeling
- Wind or other meteorological studies

13. Additional Information

For more information concerning Allegheny County speciation monitoring and analysis, contact Jason Maranche at the ACHD Air Quality Program at 412-578-8104 or jmaranche@achd.net.

For general information about PM_{2.5} and air quality, visit EPA's web site: www.epa.gov.

For information concerning PA DEP Air Quality, visit: <http://www.dep.state.pa.us/dep/deputate/airwaste/aq/default.htm>.

For information about PM_{2.5} speciation collection and analysis methods, visit RTI's web site: www.rti.org.