

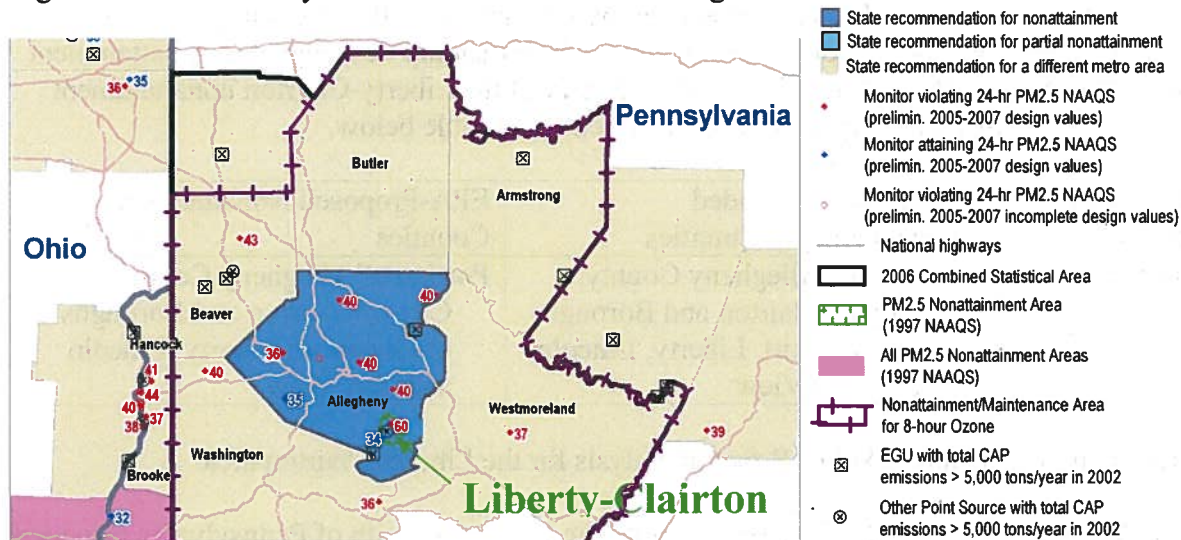
## EPA Technical Analysis for Liberty-Clairton Area

Pursuant to section 107(d) of the Clean Air Act, EPA must designate as nonattainment those areas that violate the NAAQS and those 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<sub>2.5</sub> standard and evaluates the counties that potentially contribute 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

Figure 1.0 is a map which identifies the counties in the Liberty-Clairton area and provides other relevant information such as the locations and design values of air quality monitors, the metropolitan area boundary, and counties recommended as nonattainment by the State.

Figure 1.0. The Liberty-Clairton Area and Surrounding Counties

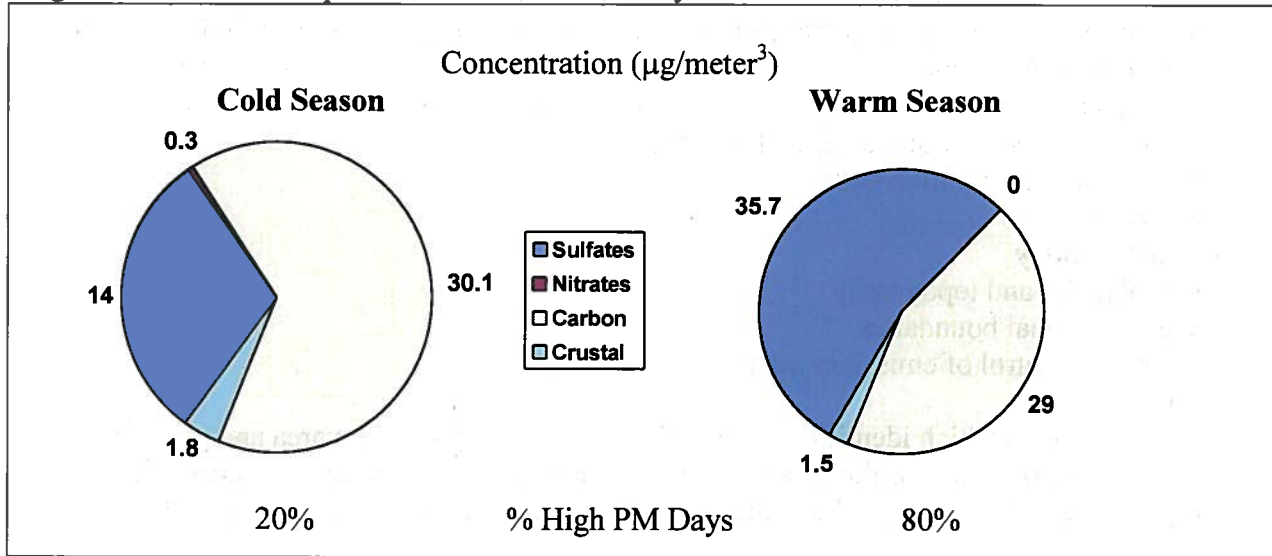


For this area, EPA previously established PM<sub>2.5</sub> nonattainment boundaries for the 1997 PM<sub>2.5</sub> NAAQS that included a portion of Allegheny County, Pennsylvania.

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<sub>2.5</sub> standard based on air quality data from 2004-2006. These data are from Federal Reference Method (FRM) and Federal Equivalent Method (FEM) monitors located in the state. (See the December 28, 2007 from the Pennsylvania Department of the Environment to EPA, received on January 3, 2008.)

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 occur predominantly in the summer as illustrated in Figure 1.1.

Figure 1.1. PM<sub>2.5</sub> Composition Data for the Liberty-Clairton Area



Based on EPA's 9-factor analysis described below, EPA proposes that the same portion of Allegheny County, PA as previously designated for PM<sub>2.5</sub> should be designated nonattainment for the 2006 24-hour PM<sub>2.5</sub> air quality standard as part of the Liberty-Clairton nonattainment area. The portion of Allegheny County is described in the table below.

| Liberty-Clairton Area | State-Recommended Nonattainment Counties   | EPA-Proposed Nonattainment Counties  |
|-----------------------|--|--|
| Pennsylvania          | Portion of Allegheny County:<br>City of Clairton and Boroughs of Glassport, Liberty, Lincoln and Port View | Portion of Allegheny County:<br>City of Clairton and Boroughs of Glassport, Liberty, Lincoln and Port View |

The following is a summary of the 9-factor analysis for the Liberty-Clairton area.

For the designations for the 1997 PM<sub>2.5</sub> NAAQS, the Commonwealth of Pennsylvania provided extensive documentation to support a recommendation that a separate, distinctively local-source impacted, nonattainment area be designated within the Pittsburgh nonattainment area. The recommended Liberty-Clairton area was specified as the five municipalities which comprise the area in the vicinity of the Clairton Coke Works which were previously designated nonattainment for PM-10 standard as the "Clairton & 4 Boroughs area."

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.

Because of a localized source of emissions and topography which contains these emissions in the area, EPA determined that it was appropriate to establish Liberty-Clairton as a separate nonattainment area from the Pittsburgh nonattainment area for the 1997 PM<sub>2.5</sub> NAAQS designations. The Liberty-Clairton area is fully surrounded by the Pittsburgh nonattainment area.

There are eight air quality monitors in Allegheny County. PM<sub>2.5</sub> 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/m<sup>3</sup>. However, the 2005-2007 design value at the Liberty Borough monitor is 60.9 µg/m<sup>3</sup>. 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.

### **Factor 1: Emissions Data**

For this factor, EPA evaluated county level emission data for the following PM<sub>2.5</sub> components and precursor pollutants: "PM<sub>2.5</sub> emissions total," "PM<sub>2.5</sub> emissions carbon," "PM<sub>2.5</sub> emissions other," "SO<sub>2</sub>," "NO<sub>x</sub>," "VOCs," and "NH<sub>3</sub>." "PM<sub>2.5</sub> emissions total" represents direct emissions of PM<sub>2.5</sub> and includes: "PM<sub>2.5</sub> emissions carbon," "PM<sub>2.5</sub> emissions other," primary sulfate (SO<sub>4</sub>), and primary nitrate. (Although primary sulfate and primary nitrate, which are emitted directly from stacks rather than forming in atmospheric reactions with SO<sub>2</sub> and NO<sub>x</sub>, are part of "PM<sub>2.5</sub> emissions total," they are not shown in Table 1.0 as separate items). "PM<sub>2.5</sub> emissions carbon" represents the sum of organic carbon (OC) and elemental carbon (EC) emissions, and "PM<sub>2.5</sub> emissions other" represents other inorganic particles (crustal). Emissions of SO<sub>2</sub> and NO<sub>x</sub>, which are precursors of the secondary PM<sub>2.5</sub> components sulfate and nitrate, are also considered. VOCs (volatile organic compounds) and NH<sub>3</sub> (ammonia) are also potential PM<sub>2.5</sub> 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](http://www.epa.gov/ttn/naaqs/pm/pm25_2006_techinfo.html).

EPA also considered the Contributing Emissions Score (CES) 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 way for consideration of data for these factors. A summary of the CES is included in Enclosure 2, and a more detailed description can be found at [http://www.epa.gov/ttn/naaqs/pm/pm25\\_2006\\_techinfo.html](http://www.epa.gov/ttn/naaqs/pm/pm25_2006_techinfo.html).

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 sources for that area.

Table 1.0 shows emissions of PM<sub>2.5</sub> and precursor pollutants components (given in tons per year) for violating and potentially contributing counties in the Liberty-Clairton area. Counties that are part of the Liberty-Clairton nonattainment area for the 1997 PM<sub>2.5</sub> NAAQS are shown in boldface.

Table 1.0. PM<sub>2.5</sub> Related Emissions

| County, State        | State Recommended Nonattainment ?              | PM <sub>2.5</sub> emissions total (tpy) | PM <sub>2.5</sub> emissions carbon (tpy) | PM <sub>2.5</sub> emissions other (tpy) | SO <sub>2</sub> (tpy) | NO <sub>x</sub> (tpy) | VOCs (tpy)    | NH <sub>3</sub> (tpy) |
|----------------------|--|---|--|---|-----------------------|-----------------------|---------------|-----------------------|
| <b>Allegheny, PA</b> | <b>Yes (partial) + Yes- other area partial</b> | <b>5,221</b>                            | <b>2,245</b>                             | <b>2,975</b>                            | <b>51,471</b>         | <b>63,290</b>         | <b>46,690</b> | <b>2,249</b>          |
| 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 US 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<sub>2.5</sub> levels in this area.

Table 1.1. US 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 <sub>2.5</sub> | PM10   | PT      | PMCond | SO2     | NOx     | VOC    |
|---------|-------------------|--------|---------|--------|---------|---------|--------|
| 3893.90 | 306.32            | 711.93 | 2386.92 | 117.01 | 1653.76 | 4367.92 | 448.60 |

- NOTE: - CO = carbon monoxide  
 - NO<sub>x</sub> = emissions of oxides of nitrogen reported as nitrogen dioxide  
 - PM<sub>2.5</sub> = 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.  
 - SO<sub>2</sub> = sulfur dioxide  
 - VOCs = Volatile Organic Compounds.

## Factor 2: Air Quality Data

This factor considers the 24-hour PM<sub>2.5</sub> design values (in µg/m<sup>3</sup>) 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<sub>2.5</sub> standard is met when the 3-year average of a monitor's 98<sup>th</sup> percentile value is 35 µg/m<sup>3</sup> or less. A design value is only valid if minimum data completeness criteria are met.

The 24-hour PM<sub>2.5</sub> design values for counties in the Liberty-Clairton area are shown in Table 2.0.

Table 2.0. Air Quality Data

| County, State    | State Recommended Nonattainment? | Design Values 2003-05 (µg/m <sup>3</sup> ) | Design Values 2004-06 (µg/m <sup>3</sup> ) | Design Values 2005-07 (µg/m <sup>3</sup> ) |
|------------------|----------------------------------|--|--|--|
| 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                               |  |  |  |
| Fayette, PA      | Yes - other area                 |  |  |  |
| Hancock, WV      | Yes - other area                 | 45   | 40   | 41   |
| Washington, PA   | Yes - other area                 | 36   | 38   | 40   |
| Westmoreland, PA | Yes - other area                 | 38   | 37   | 37   |

Note: Design values shown in red represent violations of the standard

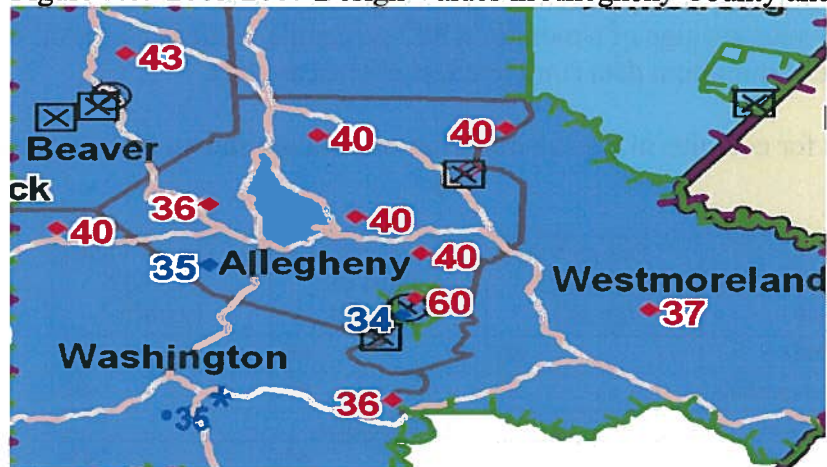
Note: Eligible monitors for providing design value data generally include State and Local Air Monitoring Stations (SLAMS) at population-oriented locations with a FRM or FEM monitor. All data from Special Purpose Monitors (SPM) using an FRM, FEM, or Alternative Reference Method (ARM) which has operated for more than 24 months 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<sub>2.5</sub> NAAQS for designation purposes.

Monitors in Allegheny County, PA, Beaver County, PA, Brooke County, WV, Hancock County, WV, Washington County, PA, and Westmoreland County, PA show violations of the 2006 24-hour PM<sub>2.5</sub> standard. Therefore, these counties are candidates for inclusion in the Liberty-Clairton nonattainment area. However, Allegheny, Beaver, Washington, and Westmoreland Counties in Pennsylvania are part of the Pittsburgh nonattainment area for the 1997 PM<sub>2.5</sub> NAAQS. The Commonwealth of Pennsylvania has recommended that those counties be included in the Pittsburgh nonattainment area for the 2006 PM<sub>2.5</sub> NAAQS. In addition, Brooke and Hancock Counties in West Virginia are part of the Steubenville-Weirton nonattainment area for the 1997 PM<sub>2.5</sub> NAAQS. The State of West Virginia has recommended that these counties be included in the Steubenville-Weirton nonattainment area for the 2006 PM<sub>2.5</sub> NAAQS.

There are eight air quality monitors in Allegheny County. As can be seen below, in Figure 2.0, PM<sub>2.5</sub> design values at seven of the eight monitors correlate well. However, the PM<sub>2.5</sub> design

value at Liberty Borough is considerably higher. The 2005 - 2007 design value at the Liberty Borough monitor is  $60.9 \mu\text{g}/\text{m}^3$ , while the design values at the other seven monitors in Allegheny County are between 34 and  $40 \mu\text{g}/\text{m}^3$ . The large local sources plus this topographical feature results in higher  $\text{PM}_{2.5}$  monitored values at the Liberty Borough monitor than the other monitors in Allegheny County.

Figure 2.0. 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)

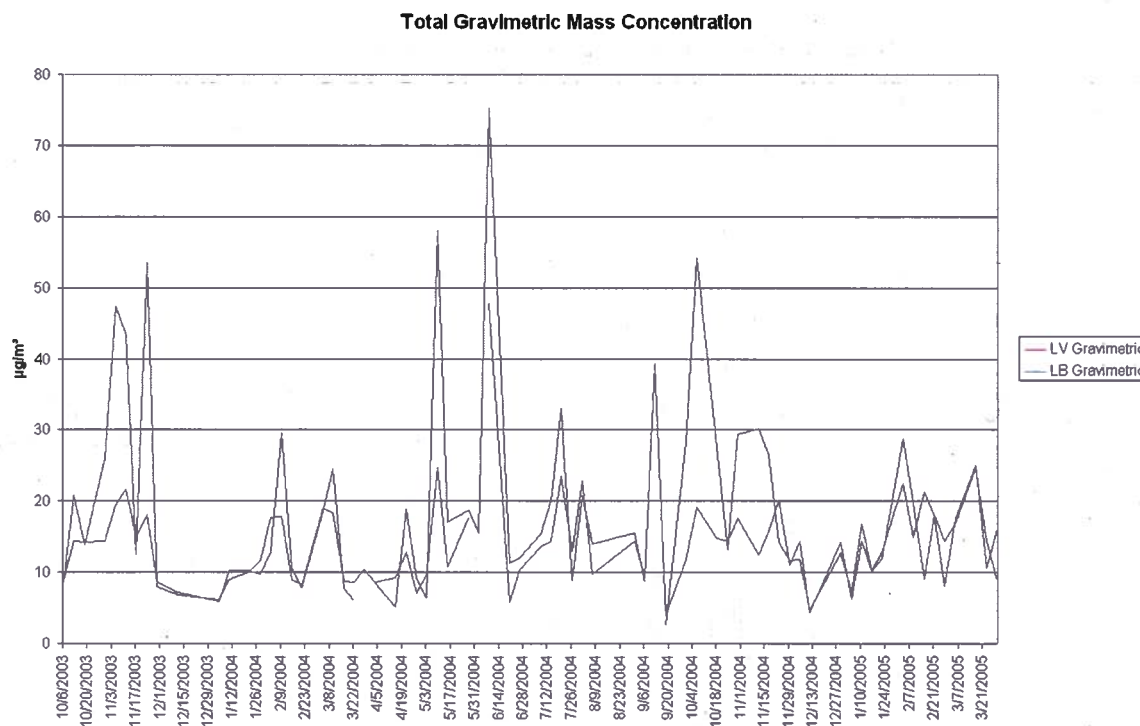


Speciation data further illuminates Liberty-Clairton area's unique local problem. The Allegheny County Health Department (ACHD) conducted an 18-month study which compared PM<sub>2.5</sub> speciation data at the Liberty Borough monitor to another monitor in Allegheny County, the Lawrenceville monitor. (See, "PM<sub>2.5</sub> Chemical Speciation and Related Comparisons at Lawrenceville and Liberty: 18-Month Results," dated June 7, 2005, prepared by Jason Maranche, Allegheny County Health Department, and available at [http://www.achd.net/airqual/pubs/pdf/speciation\\_report.pdf](http://www.achd.net/airqual/pubs/pdf/speciation_report.pdf).) 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 when it's cold. 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.

Figure 2.2



The ACHD study made the following observations.

- "Total PM<sub>2.5</sub> 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<sub>2.5</sub> 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<sub>2.5</sub> 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<sub>2.5</sub> 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.

Figure 2.3

Organic Carbon Time Series, Lawrenceville and Liberty

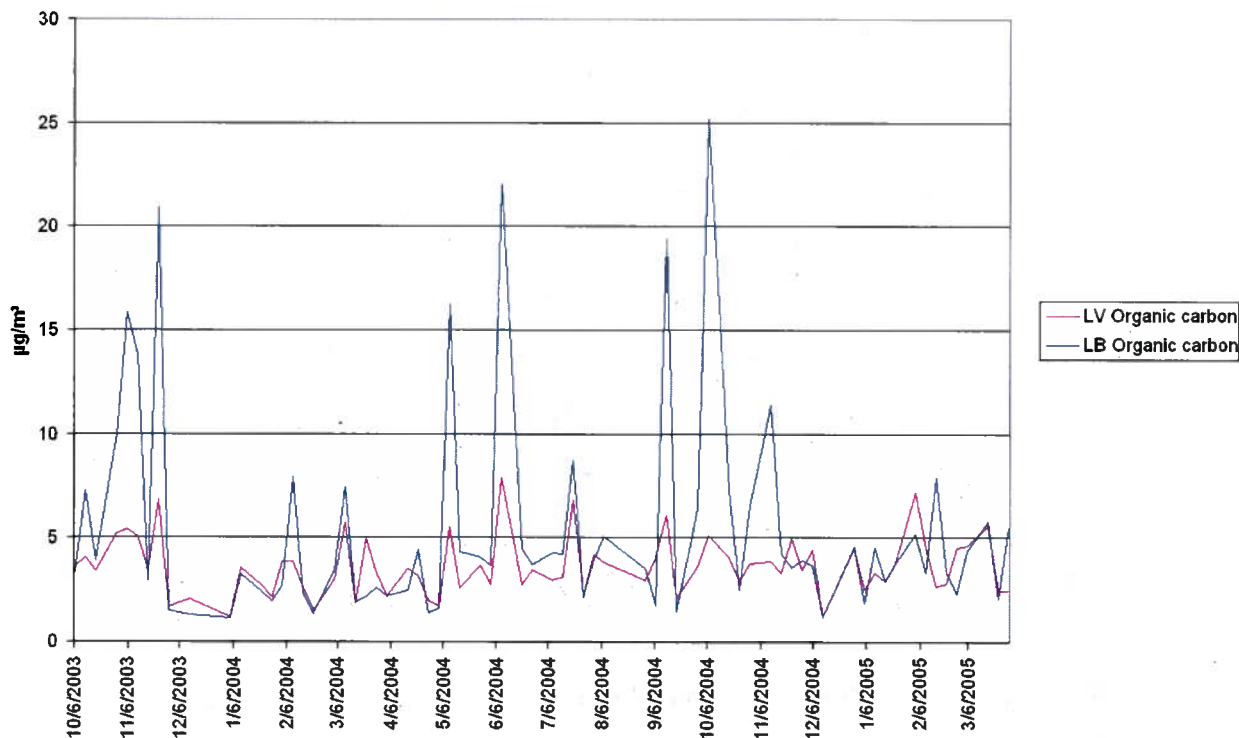
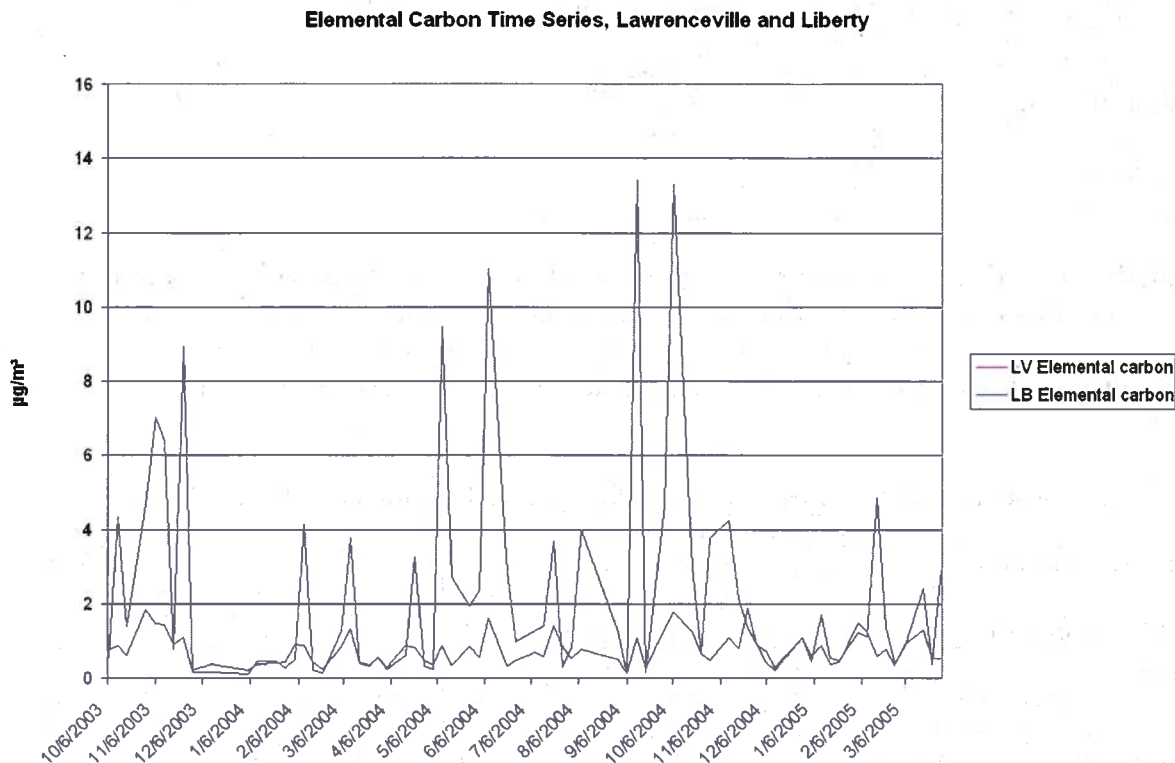




Figure 2.4



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 PM<sub>2.5</sub> 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 µg/m<sup>3</sup> higher at Liberty Borough to nearly 20 µg/m<sup>3</sup> higher. Similarly, elemental carbon is from a few µg/m<sup>3</sup> higher at Liberty Borough to about 12 µg/m<sup>3</sup> higher. The differences in ammonium concentrations are much smaller, from 1 or 2 µg/m<sup>3</sup> to about 7 µg/m<sup>3</sup>. The additional concentrations of organic carbon, elemental carbon, and ammonium account for the more than 20 µg/m<sup>3</sup> difference between Liberty Borough and the other monitors.

Table 2.1. Representative Design Values in Southwestern Pennsylvania

| Monitor         | Design Values ( $\mu\text{g}/\text{m}^3$ ) |           |
|-----------------|--|-----------|
|                 | 2004-2006                                  | 2005-2007 |
| Liberty Borough | 65.5                                       | 60.9      |
| Lawrenceville   | 39.5                                       | 39.9      |
| Greensburg      | 37.1                                       | 36.8      |
| Florence        | 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.

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

| Area                            | Speciation Data                      |                                      |                                     |                                      |                                    |                 |                 |                |                 |
|---------------------------------|--------------------------------------|--------------------------------------|-------------------------------------|--------------------------------------|------------------------------------|-----------------|-----------------|----------------|-----------------|
|                                 | 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 |
| <b>Liberty-Clairton, PA</b>     |                                      |                                      |                                     |                                      |                                    |                 |                 |                |                 |
| 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               |
| <b>Morgantown, WV</b>           |                                      |                                      |                                     |                                      |                                    |                 |                 |                |                 |
| 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               |
| <b>Steubenville-Weirton, WV</b> |                                      |                                      |                                     |                                      |                                    |                 |                 |                |                 |
| 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               |
| <b>Johnstown, PA</b>            |                                      |                                      |                                     |                                      |                                    |                 |                 |                |                 |
| 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.

### Factor 3: Population Density and Degree of Urbanization (Including Commercial Development)

Table 3.0 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 give an indication of whether it is likely that population-based emissions might contribute to violations of the 2006 24-hour PM<sub>2.5</sub> standard.

Table 3.0. Population

| County, State    | State Recommended Nonattainment?            | 2005 Population | 2005 Population Density (pop/sq mi) |
|------------------|---|-----------------|-------------------------------------|
| Allegheny, PA    | Yes (partial) +<br>Yes - other area partial | 1,233,036       | 1658                                |
| 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; the percent of total commuters in each county who commute to other counties; and the total Vehicle Miles Traveled (VMT) for each county in millions of miles (see Table 4.0). A county with numerous commuters is generally an integral part of an urban area and could be an appropriate county for implementing mobile-source emission control strategies, thus warranting inclusion in the nonattainment area.

**Table 4.0. Traffic and Commuting Patterns**

| County, State        | State Recommended Non-attainment?                  | 2005 VMT (millions) | Number Commuting to any violating counties | Percent Commuting to any violating counties | Number Commuting into statistical area | Percent Commuting into statistical area |
|----------------------|--|---------------------|--|---|--|---|
| <b>Allegheny, PA</b> | <b>Yes (partial) +</b><br>Yes - other area partial | <b>10,003</b>       | <b>(3)</b>                                 | <b>563,410</b>                              | <b>573,120</b>                         | <b>99</b>                               |
| 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 4.0 and 5.0 of the 9-factor analysis has been derived using methodology similar to that described in "Documentation for the final 2002 Mobile National Emissions Inventory," Version 3, September 2007, prepared for the Emission Inventory Group, U.S. EPA. This document may be found at:

[ftp://ftp.epa.gov/EmisInventory/2002finalnei/documentation/mobile/2002\\_mobile\\_nei\\_version\\_3\\_report\\_092807.pdf](ftp://ftp.epa.gov/EmisInventory/2002finalnei/documentation/mobile/2002_mobile_nei_version_3_report_092807.pdf). The 2005 VMT data were taken from documentation which is still draft, but which should be released in 2008. The United States 2000 Census County-to-County Worker Flow Files can be found at: <http://www.census.gov/population/www/cen2000/commuting/index.html>.

The listing of counties on Table 4.0 reflects the number of people commuting to other counties. The counties that are in the nonattainment area for the 1997 PM<sub>2.5</sub> NAAQS are 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 9-factor analysis for the Pittsburgh area.

**Factor 5: Growth Rates and Patterns**

This factor considers population growth for 2000-2005 and growth in vehicle miles traveled for 1996-2005 for counties in the 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 is likely to be contributing to fine particle concentrations in the area.

Table 5.0 below shows population, population growth, VMT, and VMT growth for in the Liberty-Clairton area and surrounding counties.

**Table 5.0. Population and VMT Values and Percent Change**

| County, State        | Population (2005) | Population Growth (2000 - 2005) | Population % change (2000 - 2005) | 2005 VMT (millions) | VMT % change (2000 to 2005) |
|----------------------|-------------------|---------------------------------|-----------------------------------|---------------------|-----------------------------|
| <b>Allegheny, PA</b> | <b>1,233,036</b>  | <b>1658</b>                     | <b>(4)</b>                        | <b>10,003</b>       | <b>(3)</b>                  |
| 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 9-factor 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 in the area. Wind direction and wind speed data for 2004-2006 were analyzed, with an emphasis on “high PM<sub>2.5</sub> days” for each of two seasons (an October-April “cold” season and a May-September “warm” season). These high PM<sub>2.5</sub> days are defined as days where any FRM or FEM air quality monitors had 24-hour PM<sub>2.5</sub> concentrations above 95% on a frequency distribution curve of PM<sub>2.5</sub> 24-hour values.

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<sub>2.5</sub> days.

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 6.0 and 6.2 identify 24-hour PM<sub>2.5</sub> values by color and days exceeding 35 µg/m<sup>3</sup> are denoted with a red or black icon. A dot indicates the day occurred in the warm season and a triangle indicates the day occurred in the cool season. The center of the figures 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 (Figure 6.0) show that winds in the area are predominantly from the southwest. At the Liberty Borough monitor (# 420033064), high PM<sub>2.5</sub> days (days with PM<sub>2.5</sub> greater than 35 µg/m<sup>3</sup>) are primarily days with winds from southwest, south, and west, which is direction of the Clairton Coke Works. (See Figure 6.1.) To a lesser degree, some days with high ambient PM<sub>2.5</sub> have winds predominantly from the north.

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

Figure 6.0. Pollution Trajectory Plot for the Liberty Borough Monitor, Allegheny County, PA (Site 420033064)

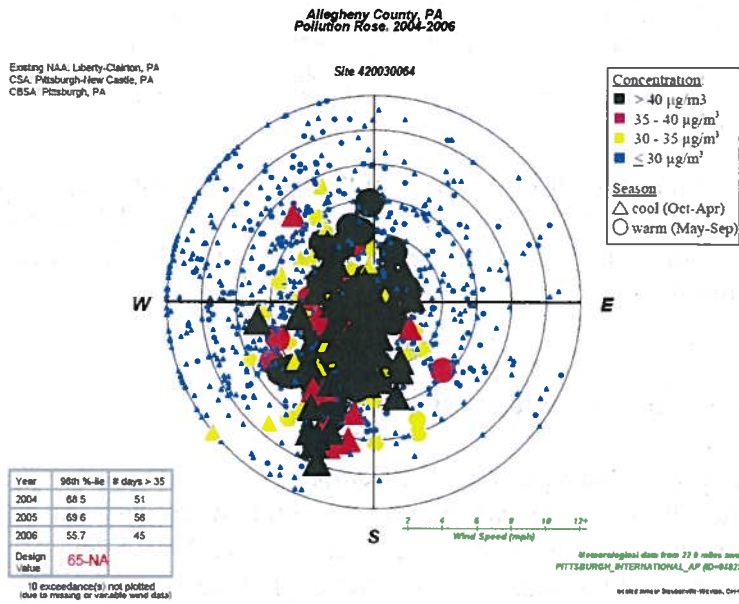
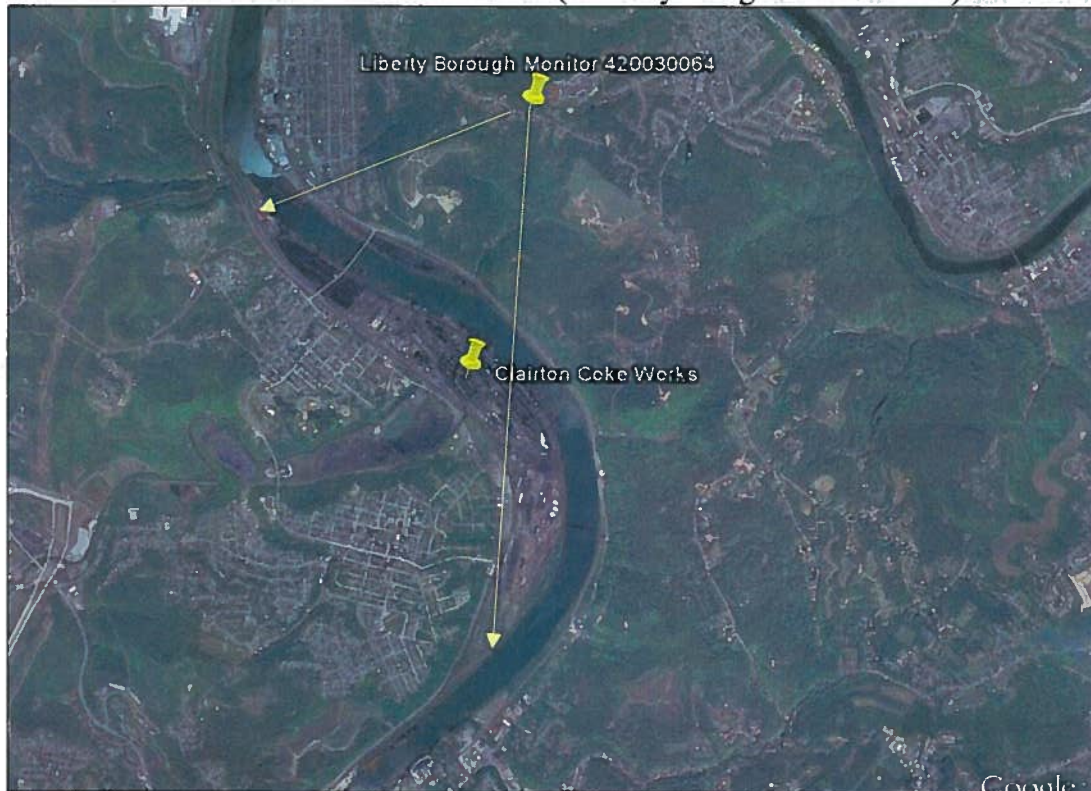
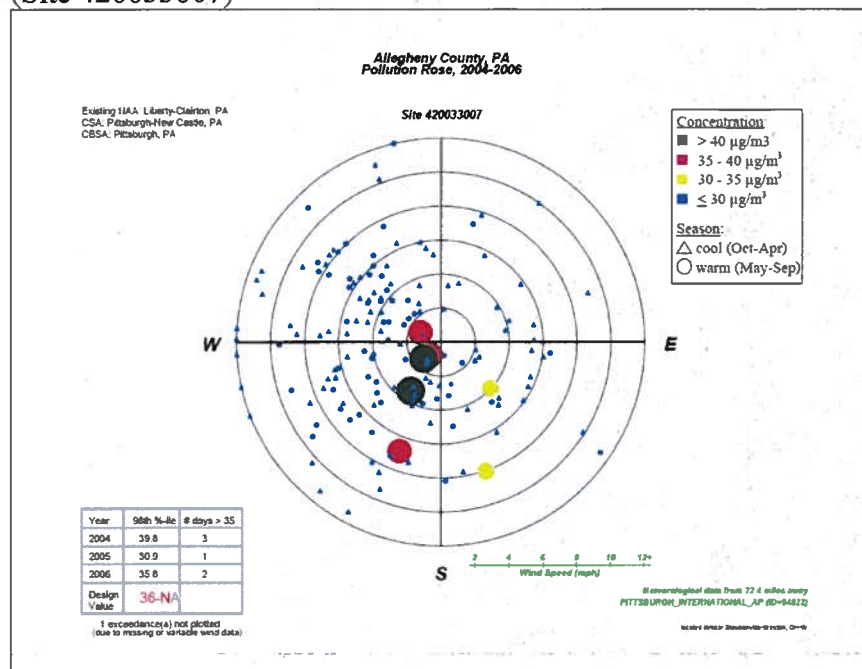


Figure 6.1. Liberty Borough Monitor and Clairton Coke Works, showing the northern and southern ends of the Clairton Coke Works (courtesy Google Earth – 2008)



At the Clairton monitor (# 4220033007), high PM<sub>2.5</sub> 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<sub>2.5</sub> 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<sub>2.5</sub> 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.”

### 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<sub>2.5</sub> 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 7.0 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 7.0. Clairton Coke Works Topographic Map (Source: USGS – TerraServer USA)

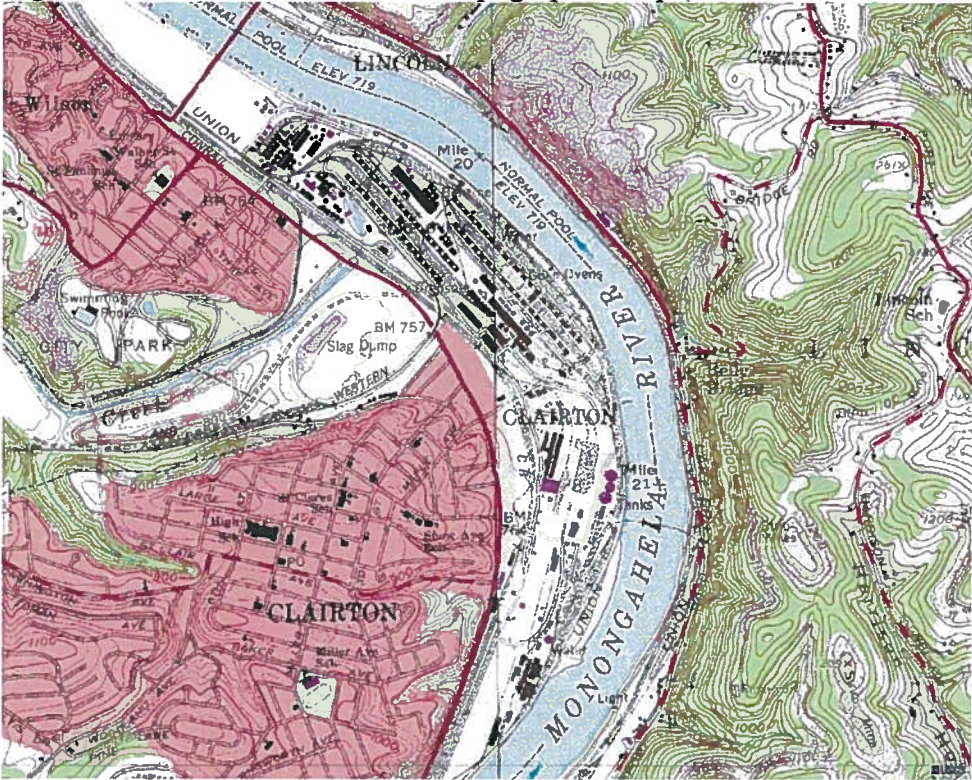


Figure 7.1 Liberty-Clairton Topographic Map (Source: USGS – TerraServer USA)

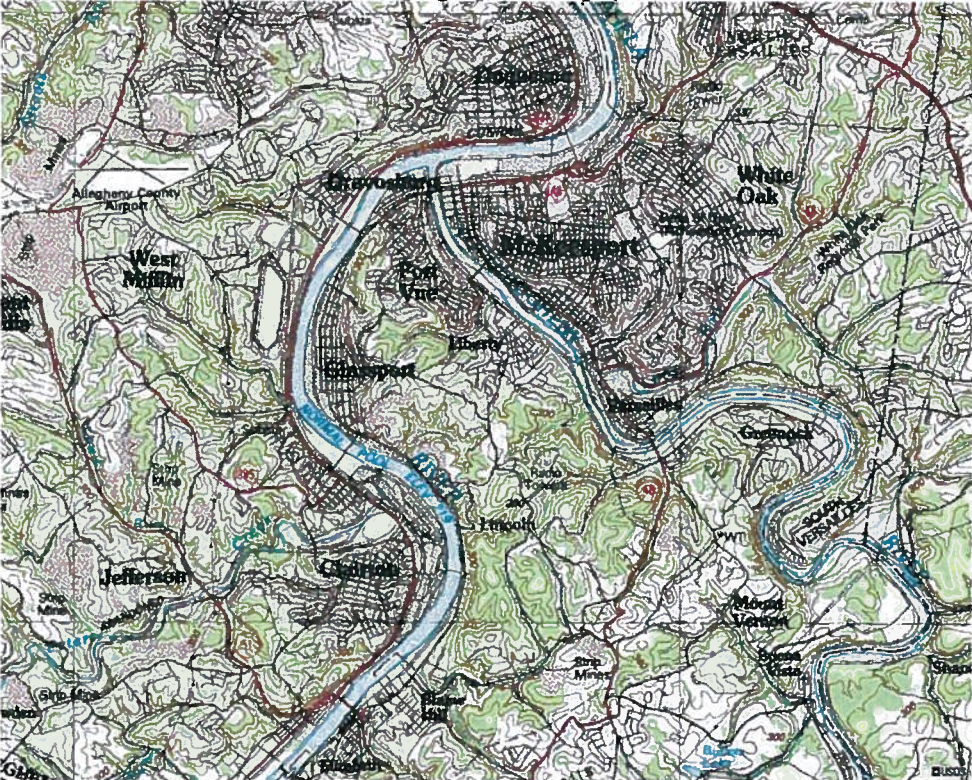




Figure 7.2. 3-D View from Clairton Coke Works to the North (Google Earth 2008)



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



### **Factor 8: Jurisdictional Boundaries (e.g., Existing PM and Ozone Areas)**

In evaluating the jurisdictional boundary factor, consideration should be given to existing boundaries and organizations that may facilitate air quality planning and the implementation of control measures to attain the standard. Areas designated as nonattainment (e.g., for PM<sub>2.5</sub> or 8-hour ozone standard) 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<sub>2.5</sub> nonattainment area are all within Allegheny County. The PM<sub>2.5</sub> planning for the area is under the purview of the Allegheny County Health Department (ACHD). The Pennsylvania Department of Environmental Protection (PADEP) 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**

This factor considers emission controls currently implemented in the Liberty-Clairton area.

The emission estimates on Table 1.0 (under Factor 1) include any control strategies implemented by the States in the Liberty-Clairton area before 2005 that may influence emissions of any component of PM<sub>2.5</sub> emissions (i.e., total carbon, SO<sub>2</sub>, NO<sub>x</sub>, and crustal PM<sub>2.5</sub>).

In considering county-level emissions, EPA considered 2005 emissions data from the National Emissions Inventory. EPA recognizes that certain power plants or large sources of emissions in this potential nonattainment area may have installed emission controls or otherwise significantly reduced emissions since 2005 and that this information may not be reflected in this analysis. EPA will consider additional information on emission controls in making final designation decisions. In cases where specific plants already have installed emission controls or plan to install such controls in the near future, EPA requests additional information on:

- the plant name, city, county, and township/tax district,
- identification of emission units at the plant, fuel use, and megawatt capacity,
- identification of emission units on which controls will be installed, and units on which controls will not be installed,
- identification of the type of emission control that has been or will be installed on each unit, the date on which the control device became / will become operational, and the emission reduction efficiency of the control device,
- the estimated pollutant emissions for each unit before and after implementation of emission controls, and
- whether the requirement to operate the emission control device will be federally enforceable by December 2008, and the instrument by which federal enforceability will be ensured (e.g. through source-specific SIP revision, operating permit requirement, consent decree).

**Attachments to the EPA Technical Analysis for the Liberty-Clairton Area**

- “Point Source Emission Inventory Report, 2004,” dated 4/30/06, Allegheny County Health Department, Air Quality Program, available at <http://www.achd.net/airqual/>.
- “PM<sub>2.5</sub> Chemical Speciation and Related Comparisons at Lawrenceville and Liberty: 18-Month Results,” dated June 7, 2005, prepared by Jason Maranche, Allegheny County Health Department, and available at [http://www.achd.net/airqual/pubs/pdf/speciation\\_report.pdf](http://www.achd.net/airqual/pubs/pdf/speciation_report.pdf).



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

**PM<sub>2.5</sub> Chemical Speciation and Related  
Comparisons at Lawrenceville and Liberty:  
18-Month Results**

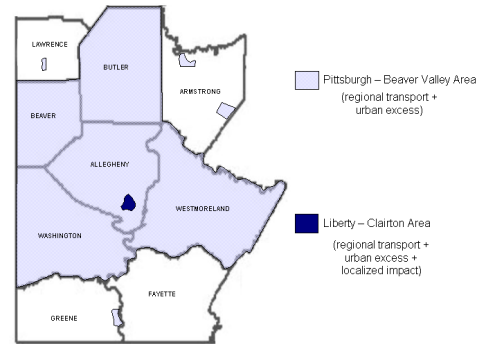
June 7, 2005  
Prepared By  
Jason Maranche

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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<sub>2.5</sub> 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.

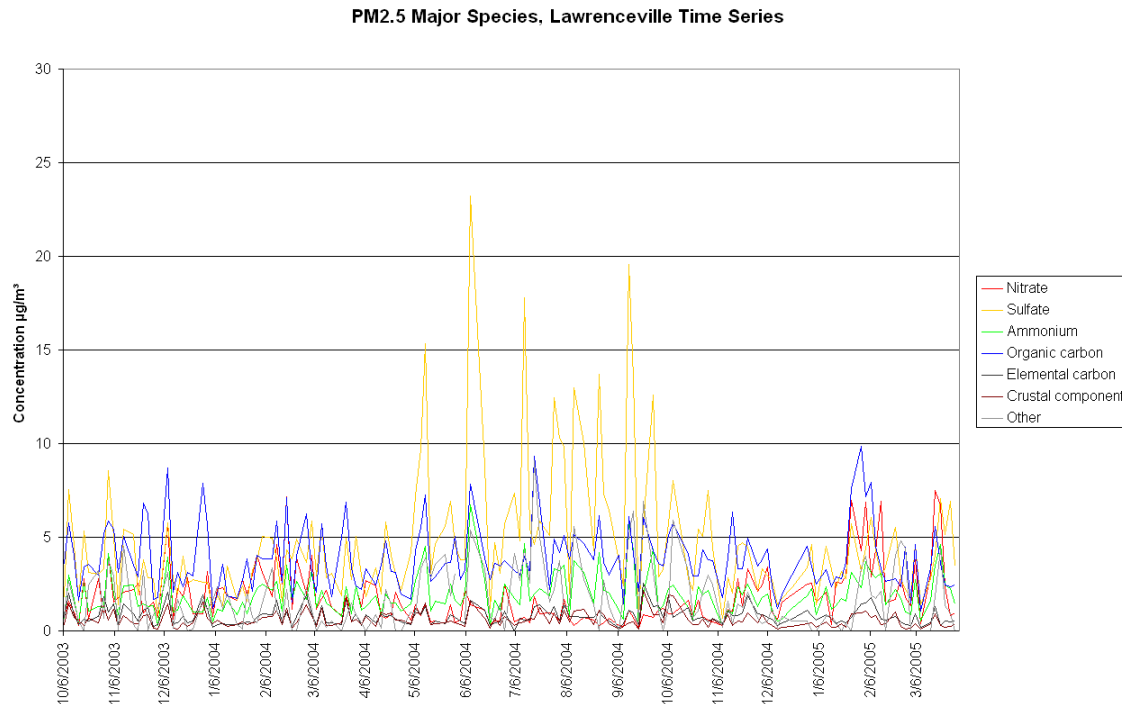
Both sites are collocated with other monitors, including daily PM<sub>2.5</sub> filter-based (FRM) and hourly continuous PM<sub>2.5</sub> monitors. Additionally, Lawrenceville measures ozone and NO<sub>x</sub>, and Liberty measures PM<sub>10</sub>, SO<sub>2</sub>, H<sub>2</sub>S, and benzene.

Sites near Liberty include Glassport (PM<sub>10</sub>, SO<sub>2</sub>) and Lincoln (PM<sub>10</sub>). 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<sub>2.5</sub> major species over the 18-month timeframe.

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

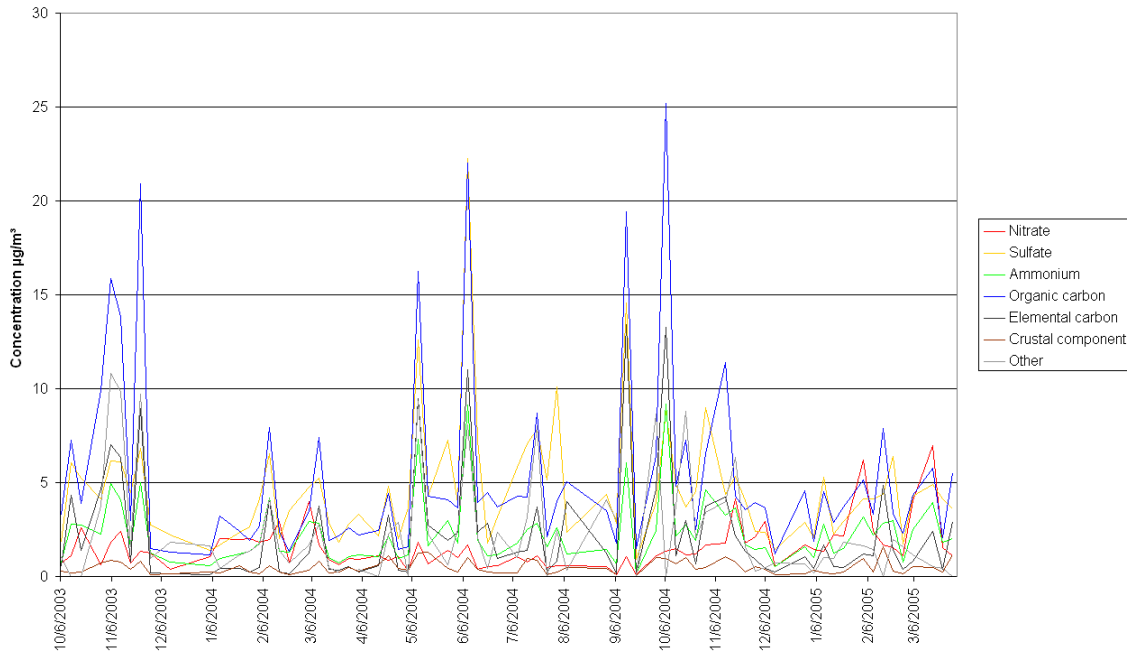


In late January and early February 2005, an anomaly is evident by the exaggerated organic carbon and nitrate peaks. This is likely due to an exceptional high-pressure meteorological system that led to high PM<sub>2.5</sub> throughout the Midwest and Northeast U.S.

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

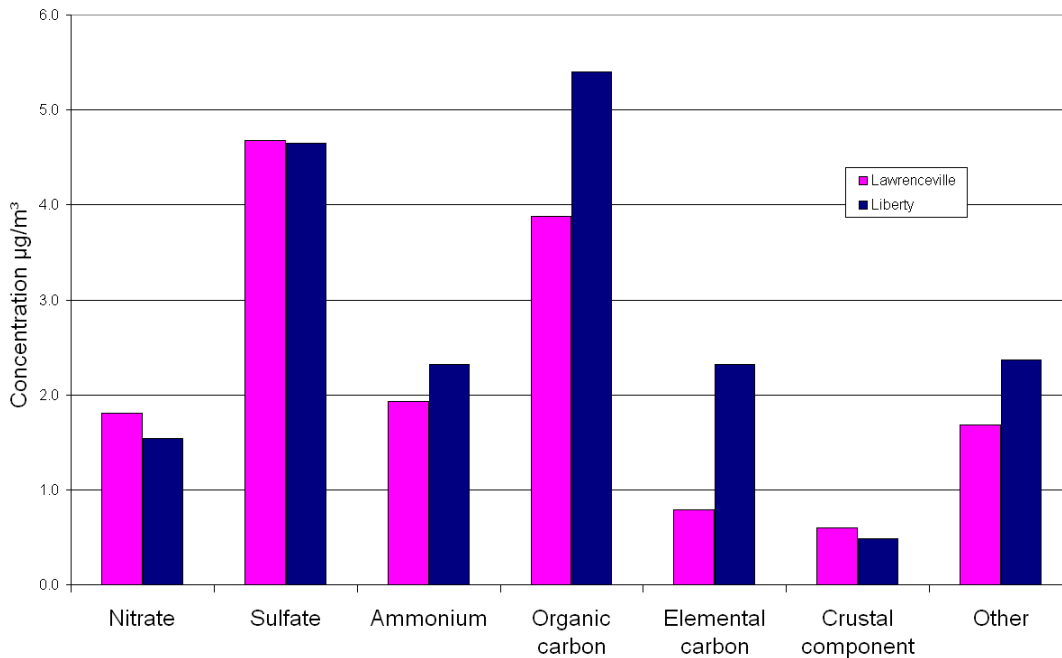


PM2.5 Major Species, Liberty Time Series



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

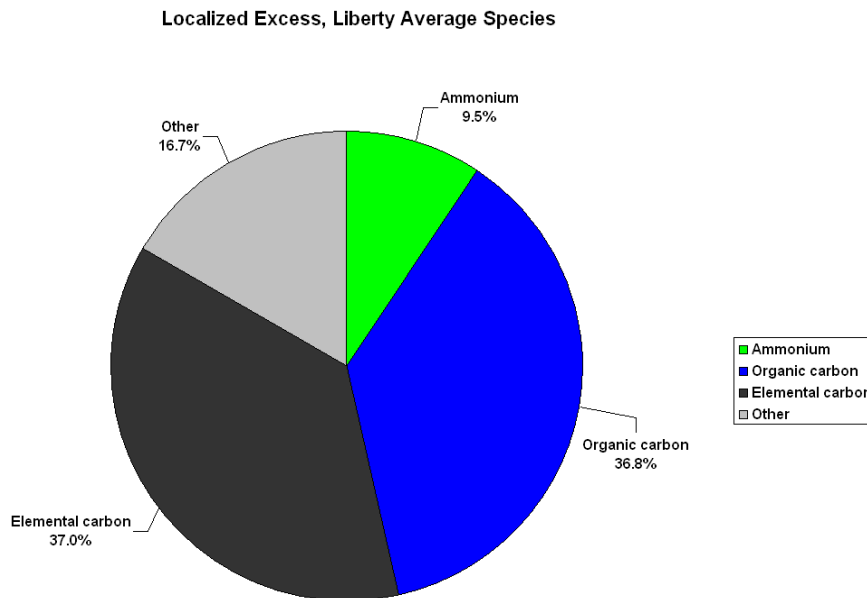
Major Species Averages, Lawrenceville and Liberty



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.

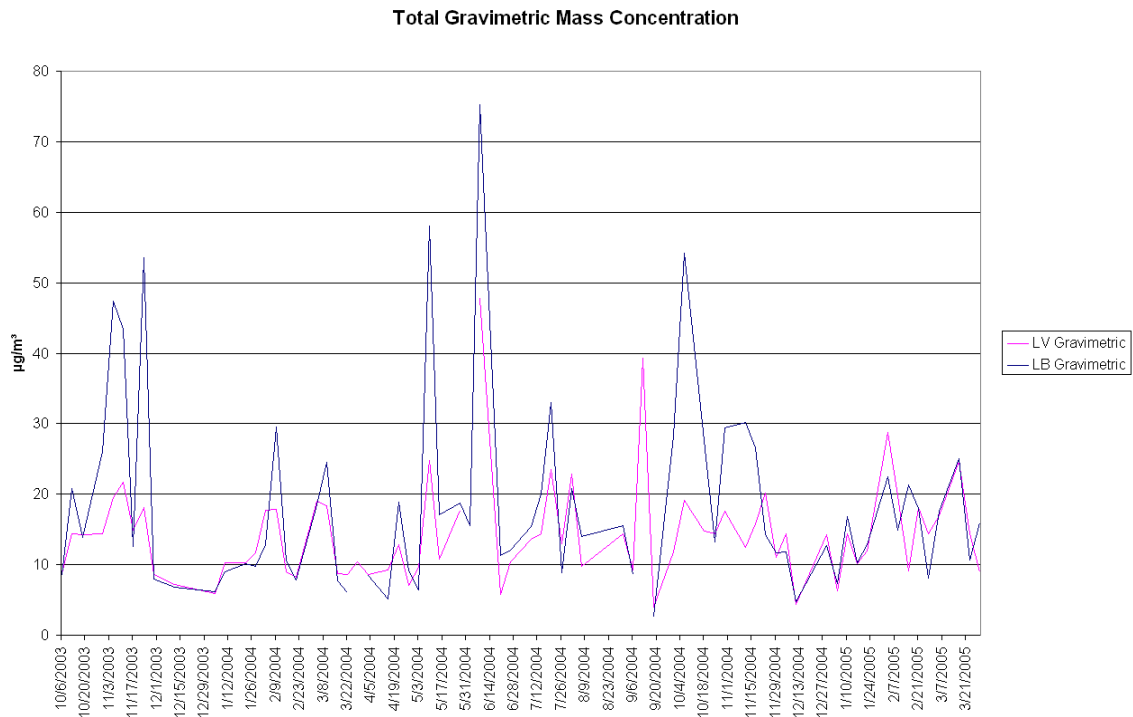


The “other” component is defined as the difference between the gravimetric (weighed) mass concentration and the sum of the major species. It can include the following:

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

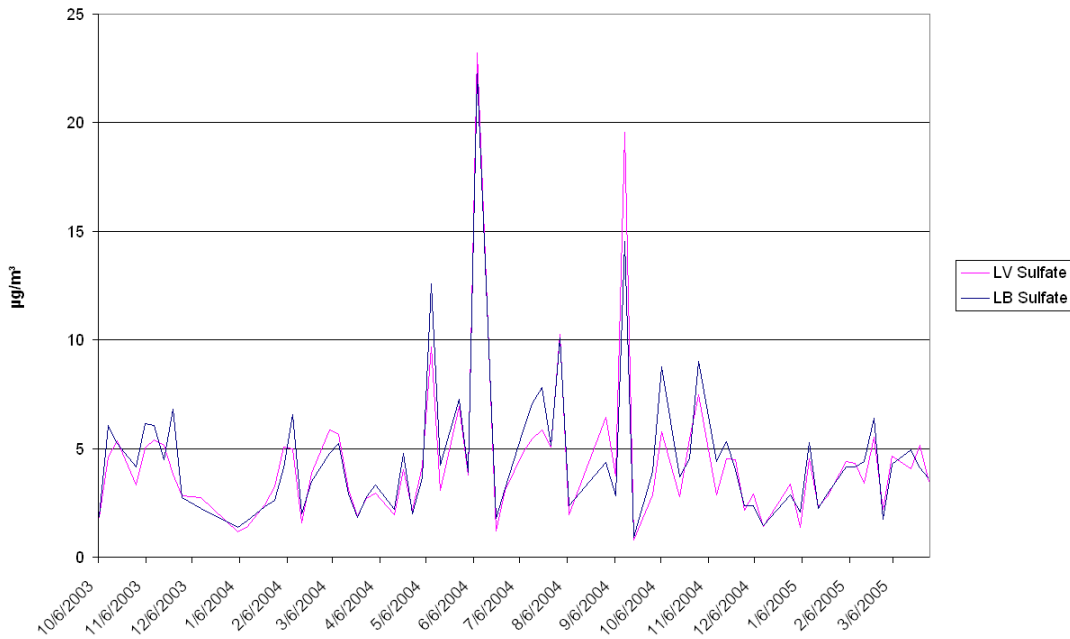
#### 4. Matched Time Series, by Species

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.



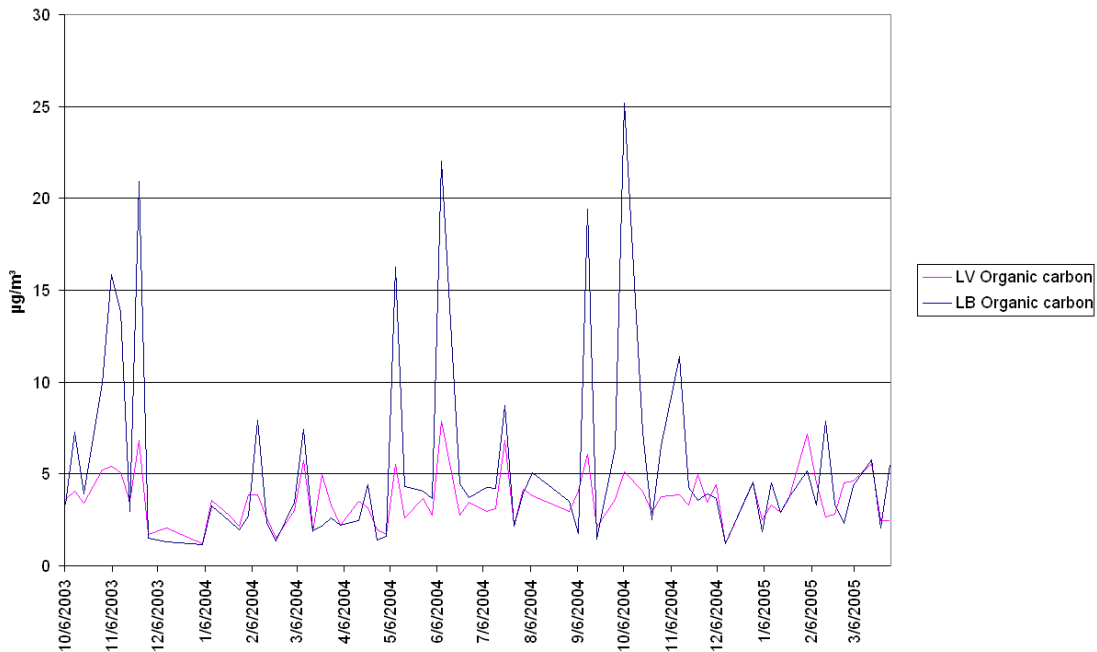
Total PM<sub>2.5</sub> at Lawrenceville and Liberty show similar peaks at the same times, but to varying extents at each site. Liberty is generally the highest site on peak days, but can be lower for some peaks. On average or low PM<sub>2.5</sub> days, Liberty and Lawrenceville are often nearly equal. This indicates that regional flow and meteorology may be the primary controlling factors in the formation of PM<sub>2.5</sub> 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

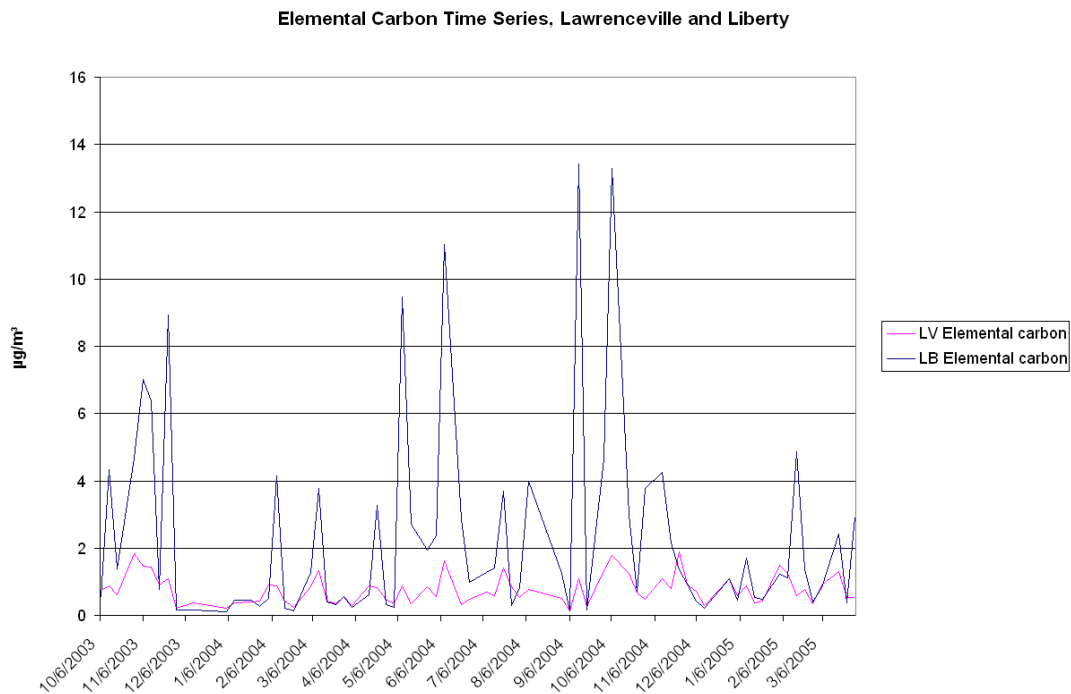


Sulfate is nearly identical at both sites year-round. This indicates that sulfate is primarily affected by regional flow upwind of Allegheny County. Minor differences in peaks may be indicative of local meteorology or minor source impacts.

Organic Carbon Time Series, Lawrenceville and Liberty

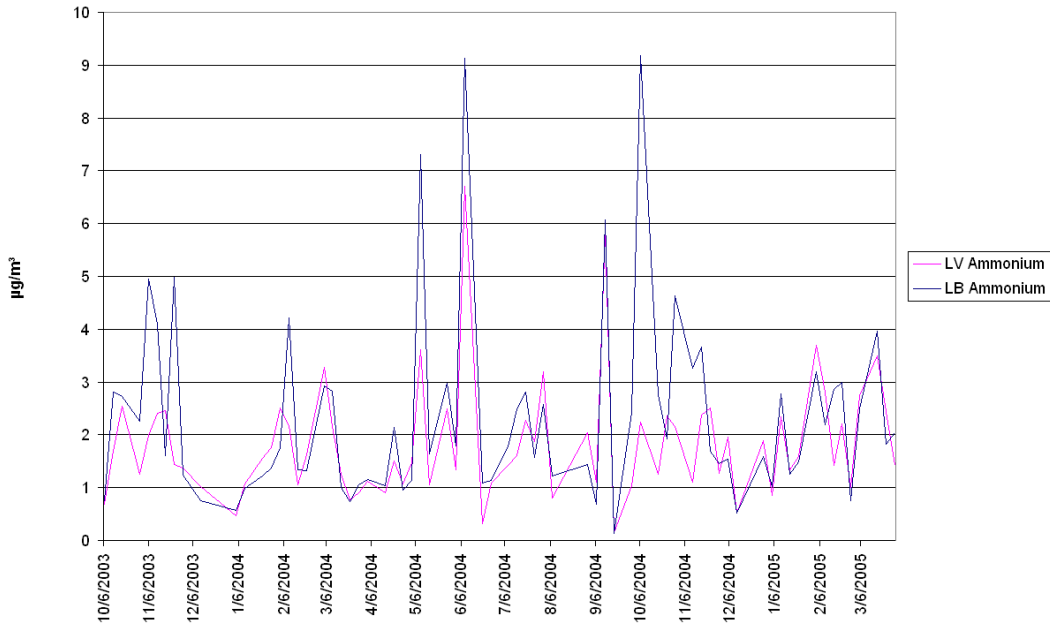


Organic carbon is similar to total mass concentration in that the peaks occur at the same times at both sites but to varying degrees. The peak discrepancies are higher for organic carbon than for total concentration, however, indicating that localized factors may be more controlling for organic carbon.



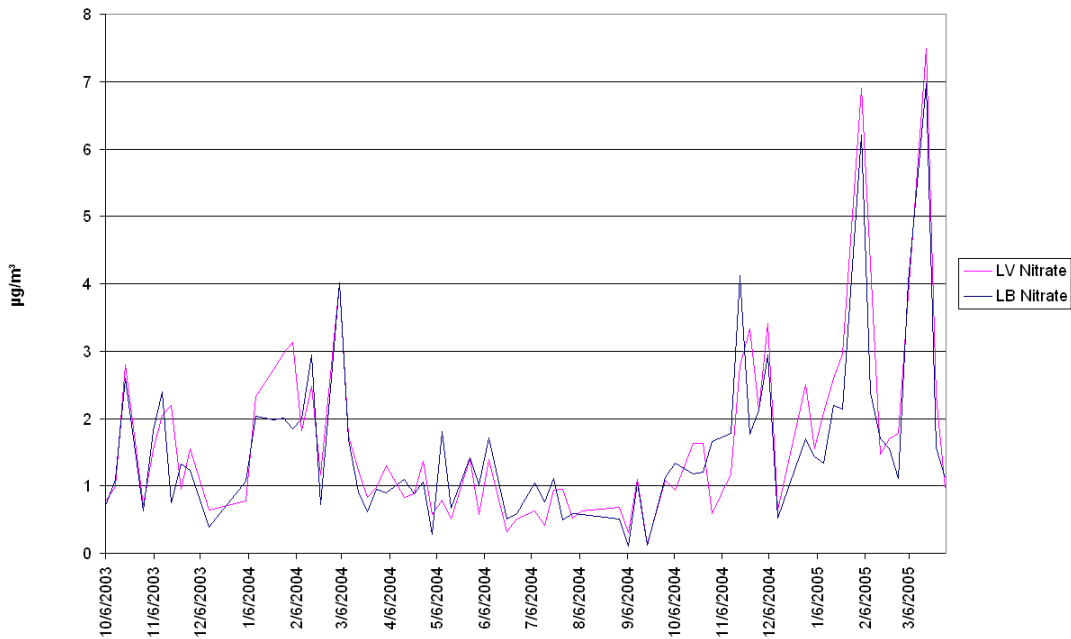
Similar to organic carbon, elemental carbon shows a localized influence at Liberty.

Ammonium Time Series, Lawrenceville and Liberty

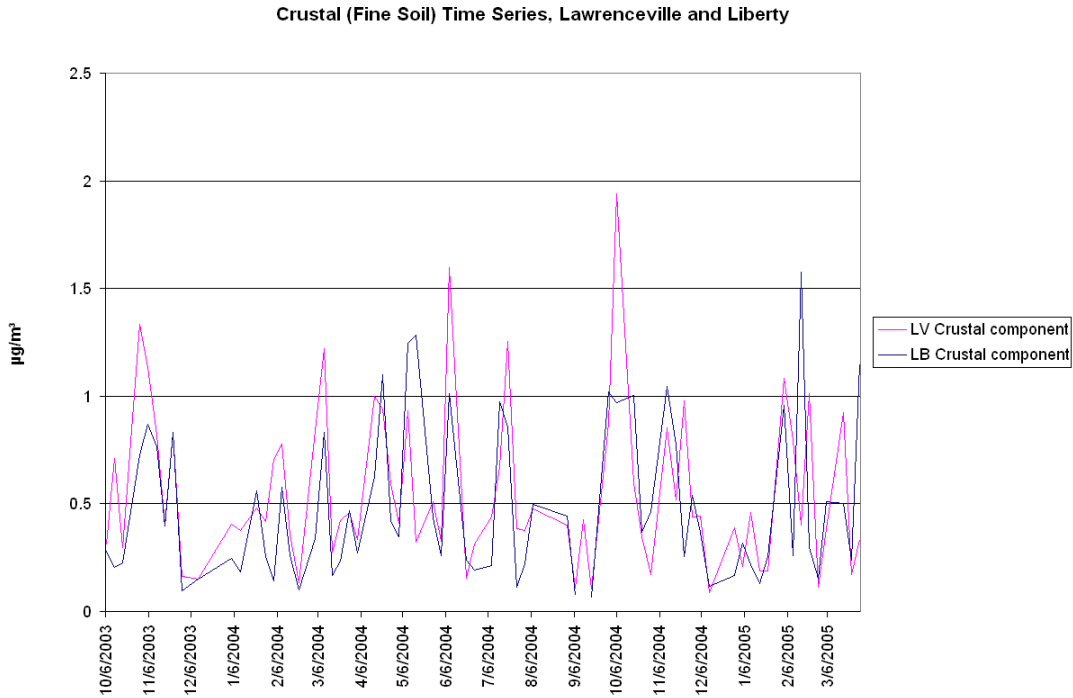


Ammonium can be higher at Liberty on certain days, but not as frequently as organic and elemental carbon.

Nitrate Time Series, Lawrenceville and Liberty

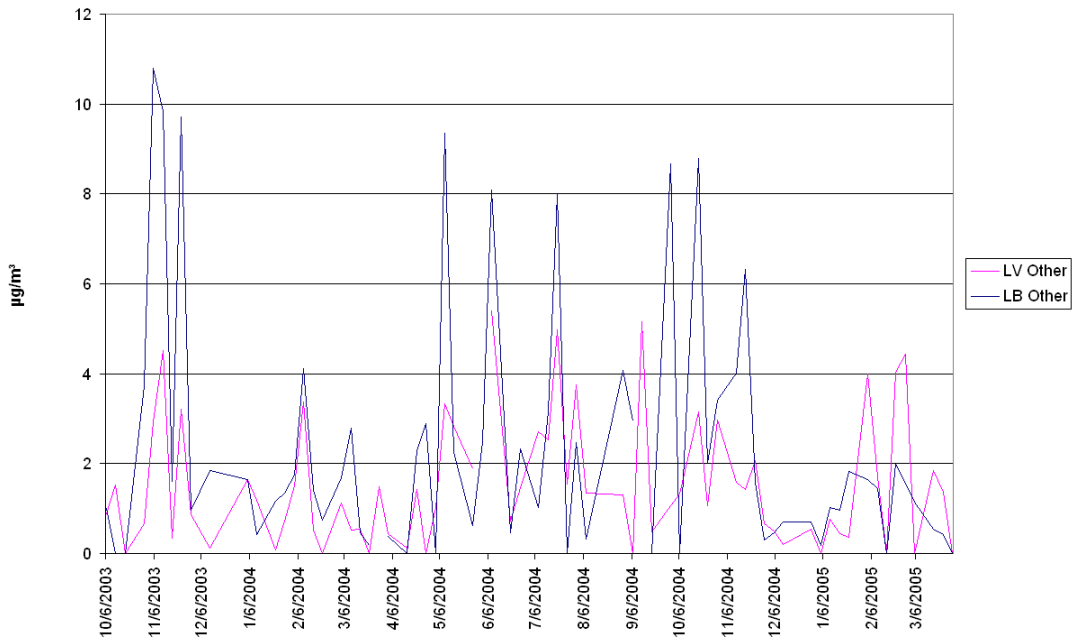


Nitrate appears to be a regional species like sulfate, although nitrate differences between Lawrenceville and Liberty can be more pronounced than sulfate differences.



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

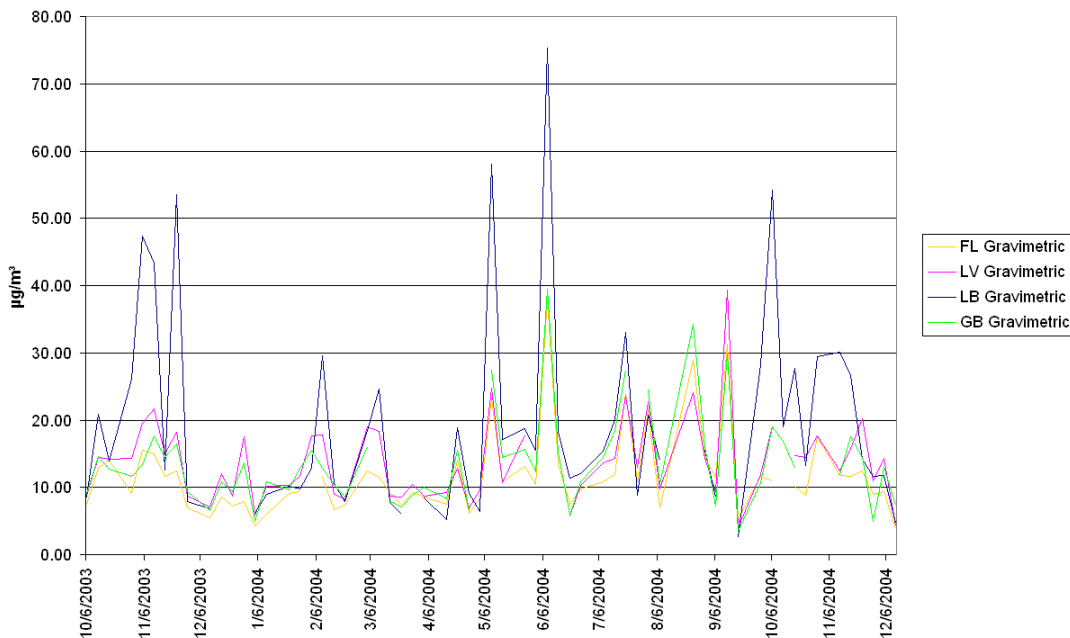
On a regional level, the Pennsylvania Dept. of Environmental Protection (PA DEP) operates two additional PM<sub>2.5</sub> speciation monitors in Southwest PA: Florence and Greensburg.

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.

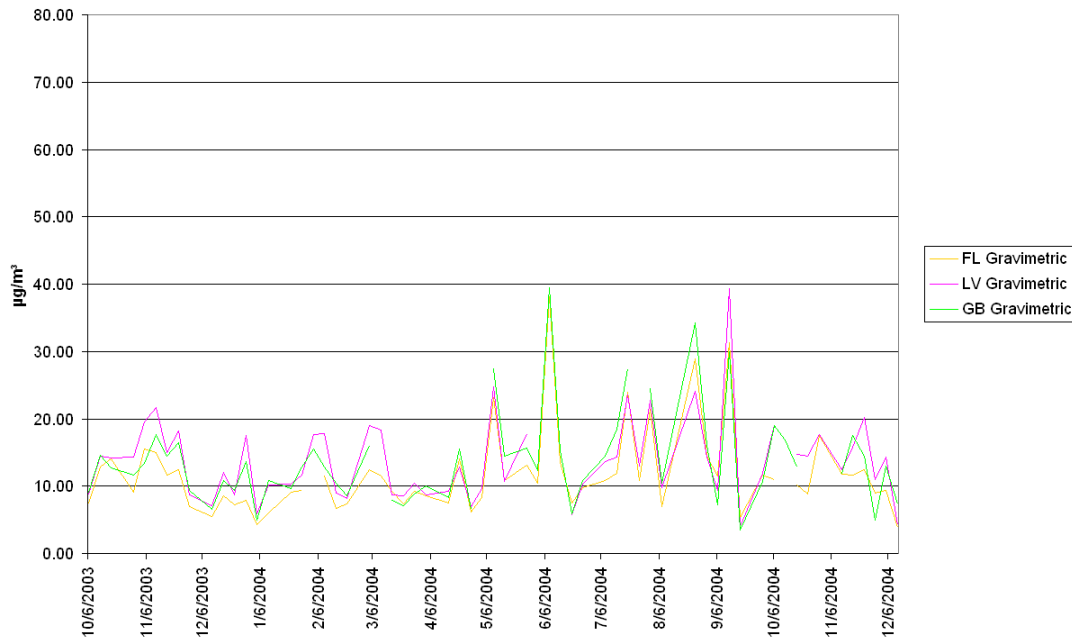
Greensburg (GB) is downwind from Allegheny County, situated east of Greensburg near the Westmoreland Mall. It presumably monitors outgoing regional flow from Southwest PA, in addition to some urban excess from Pittsburgh and/or Greensburg.

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<sub>2.5</sub>, Speciation Monitors, Southwest PA

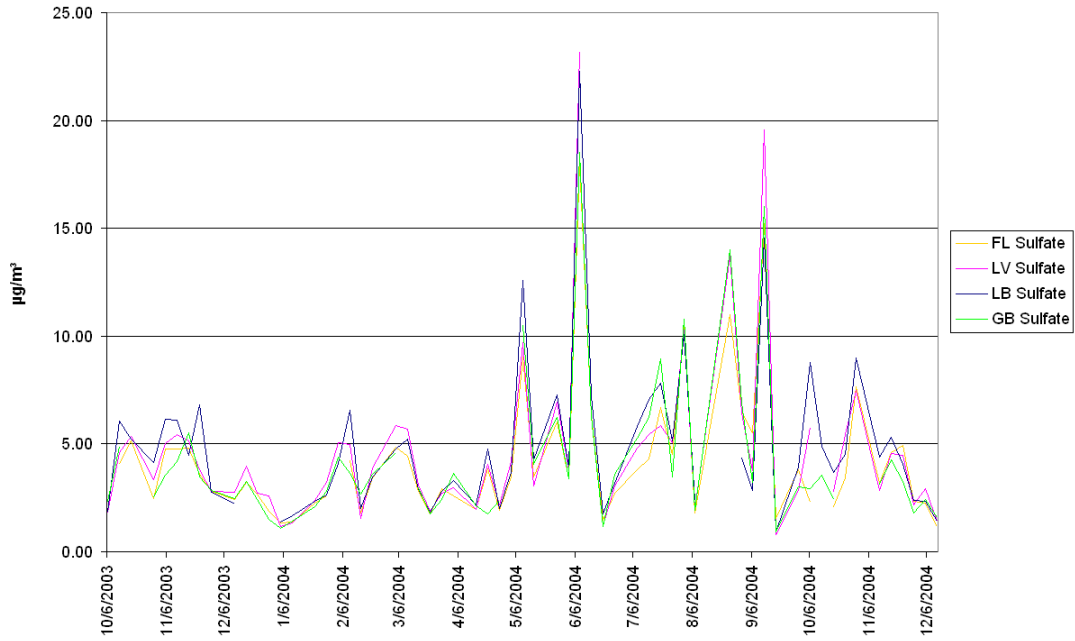


Total Gravimetric PM2.5, Speciation Monitors, Southwest PA w/o Liberty

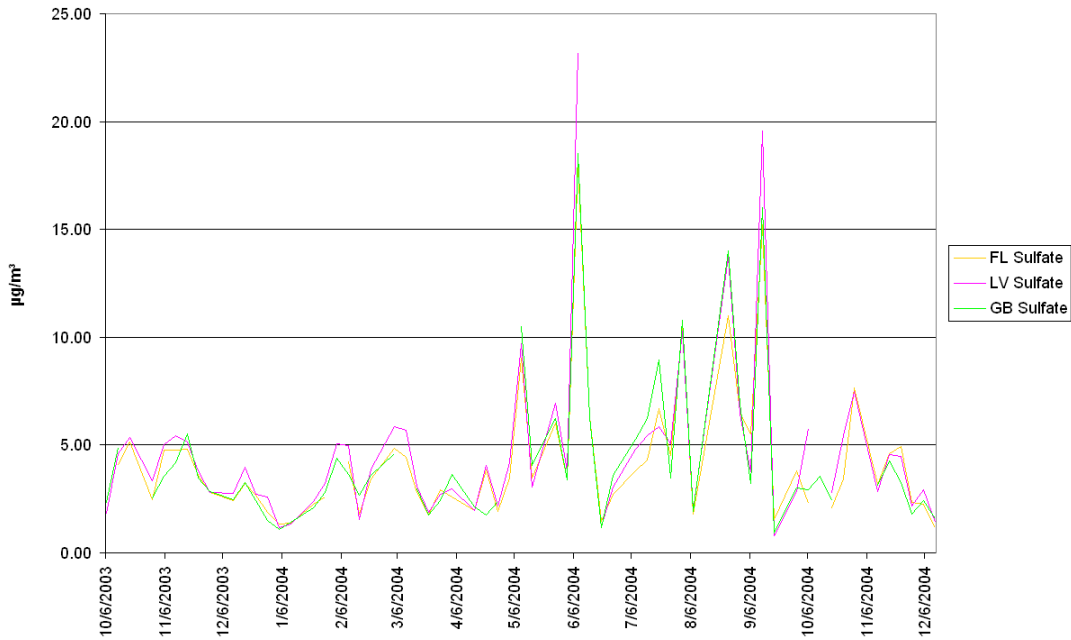


By total gravimetric (weighed) mass concentration, Florence, Lawrenceville, and Greensburg match well, indicative of the regional flow through the multi-county area. Liberty shows the highest mass concentrations, due to the regional flow plus localized excess. Lawrenceville and Greensburg show the next 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

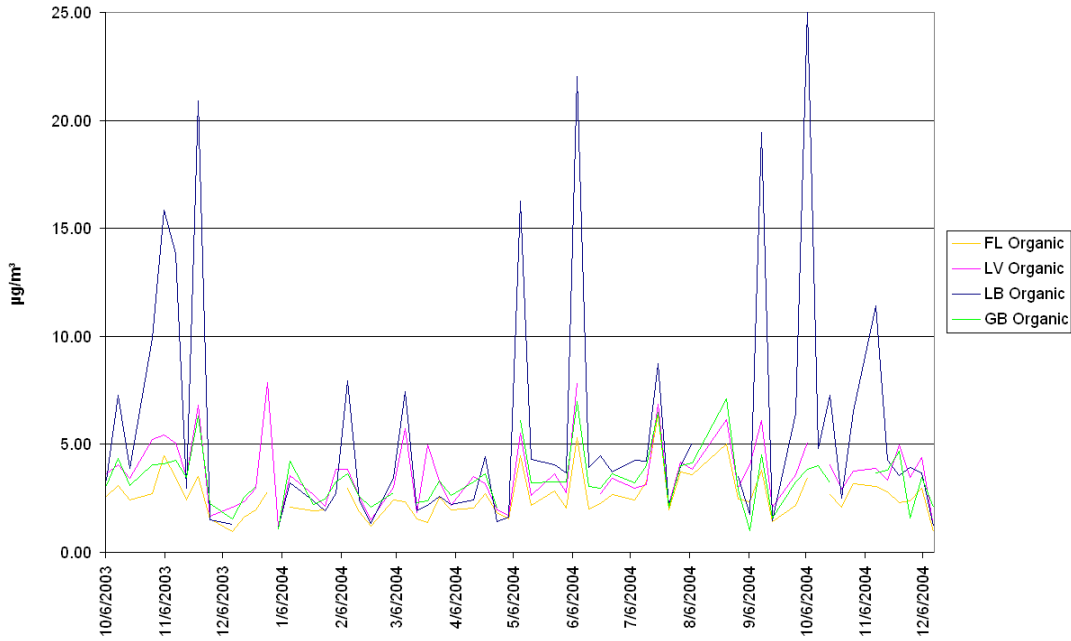


Sulfate, Southwest PA w/o Liberty

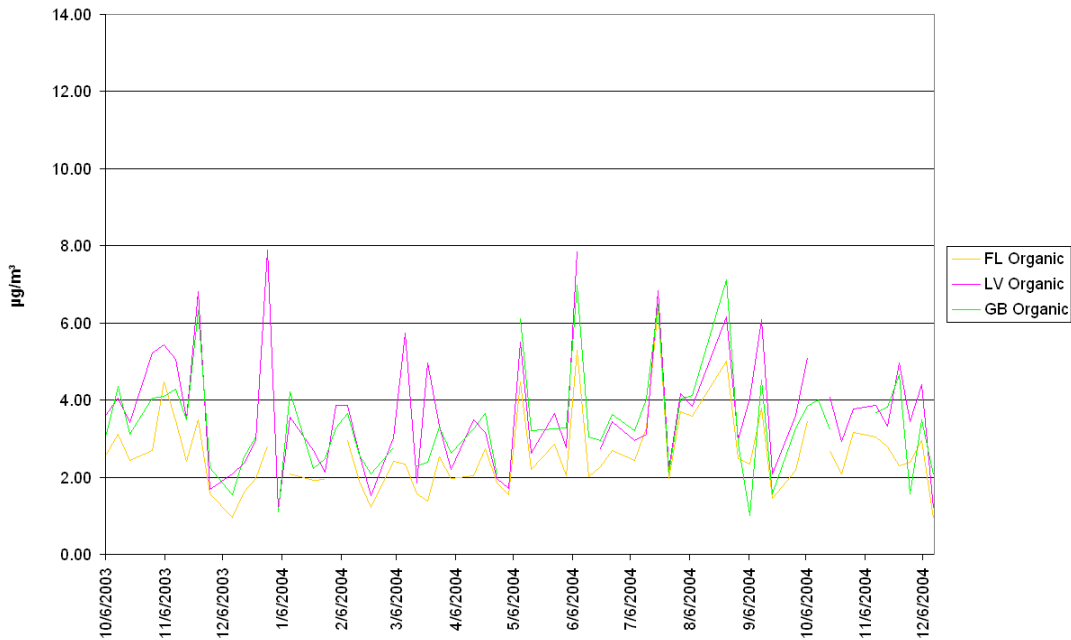


Sulfate time series plots strongly suggest that it is the result of regional flow for Southwest PA, as it is nearly equal at all sites.

Organic Carbon, Southwest PA

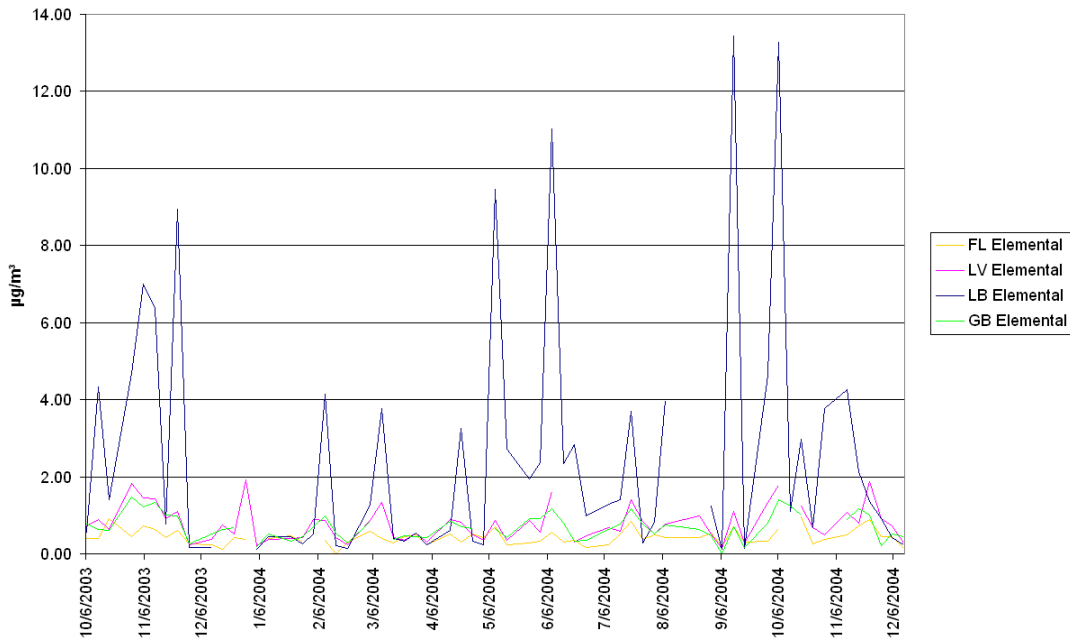


Organic Carbon, Southwest PA w/o Liberty

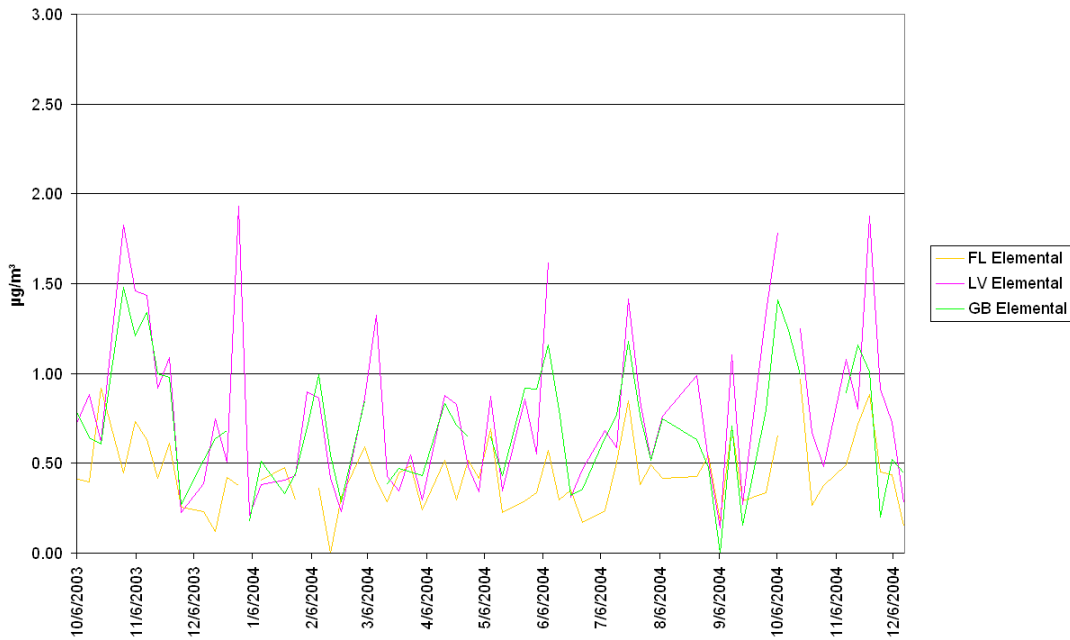


Organic carbon shows similar patterns to total mass in Southwest PA. Liberty is highest overall, with Lawrenceville and Greensburg showing urban influence.

Elemental Carbon, Southwest PA

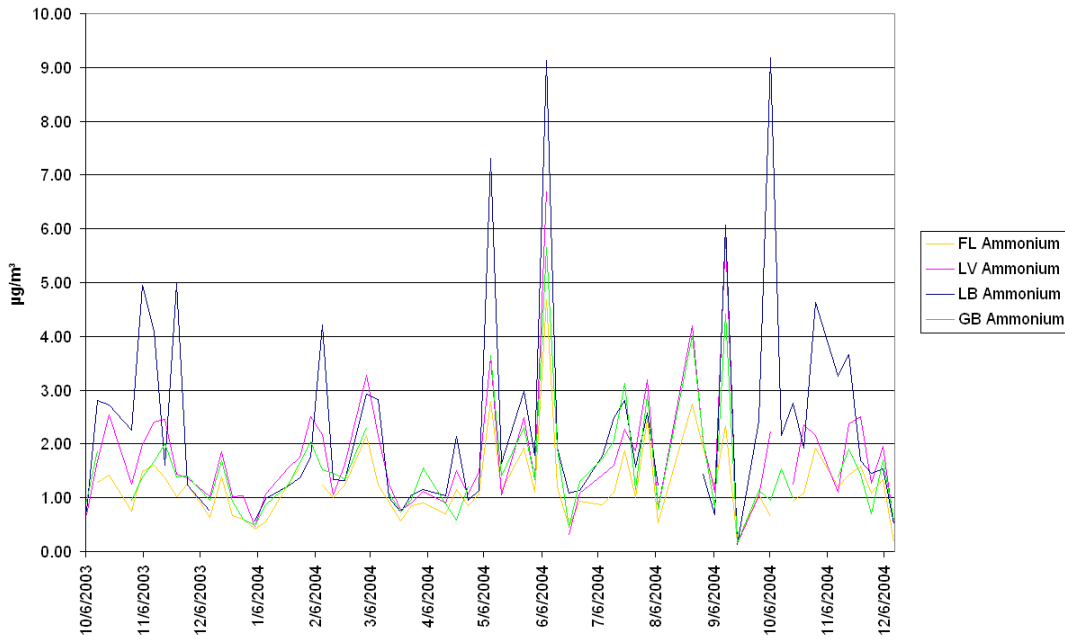


Elemental Carbon, Southwest PA w/o Liberty

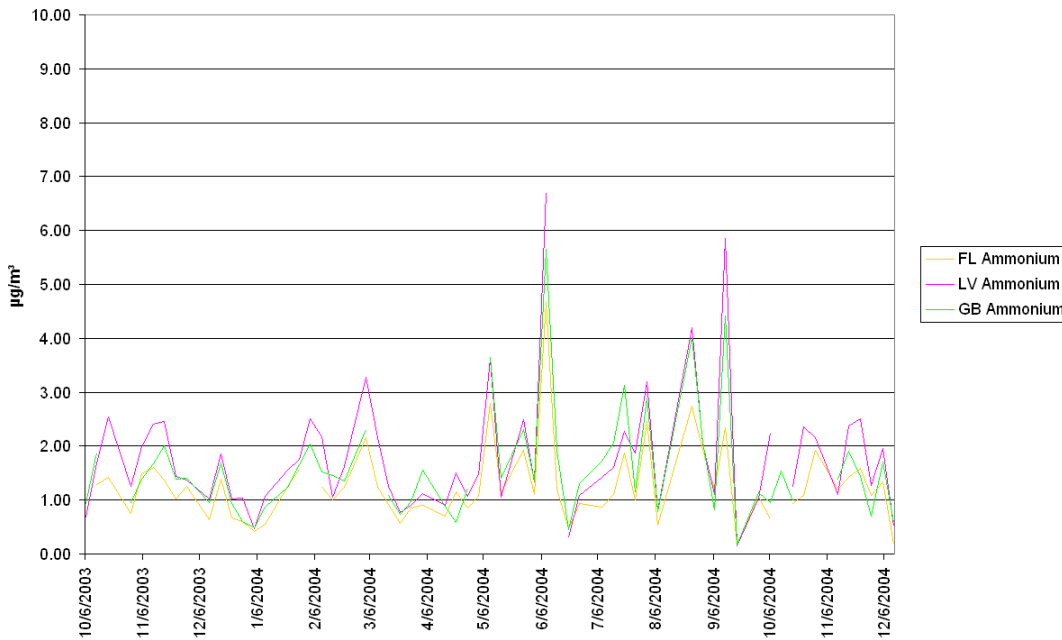


Elemental carbon is similar to organic carbon for Southwest PA. Higher concentrations at Lawrenceville for elemental carbon may be due to mobile source emissions.

Ammonium, Southwest PA

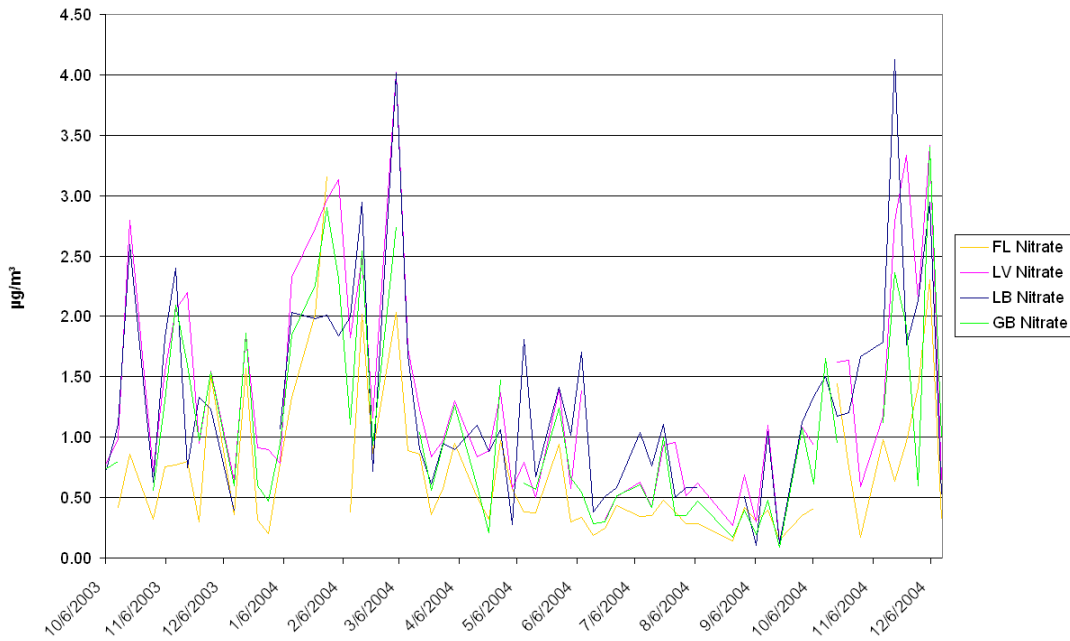


Ammonium, Southwest PA w/o Liberty

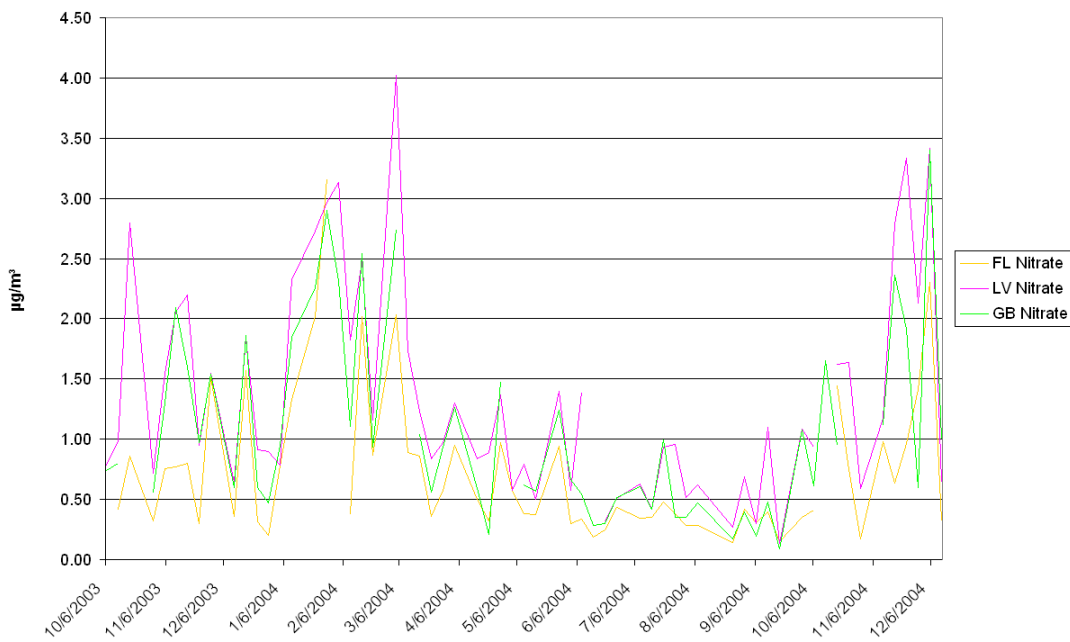


Ammonium is part of the localized excess at Liberty, although to a lesser extent than organic and elemental carbon. Excluding Liberty, ammonium appears to be both regional and urban, as it is highest at Lawrenceville.

Nitrate, Southwest PA

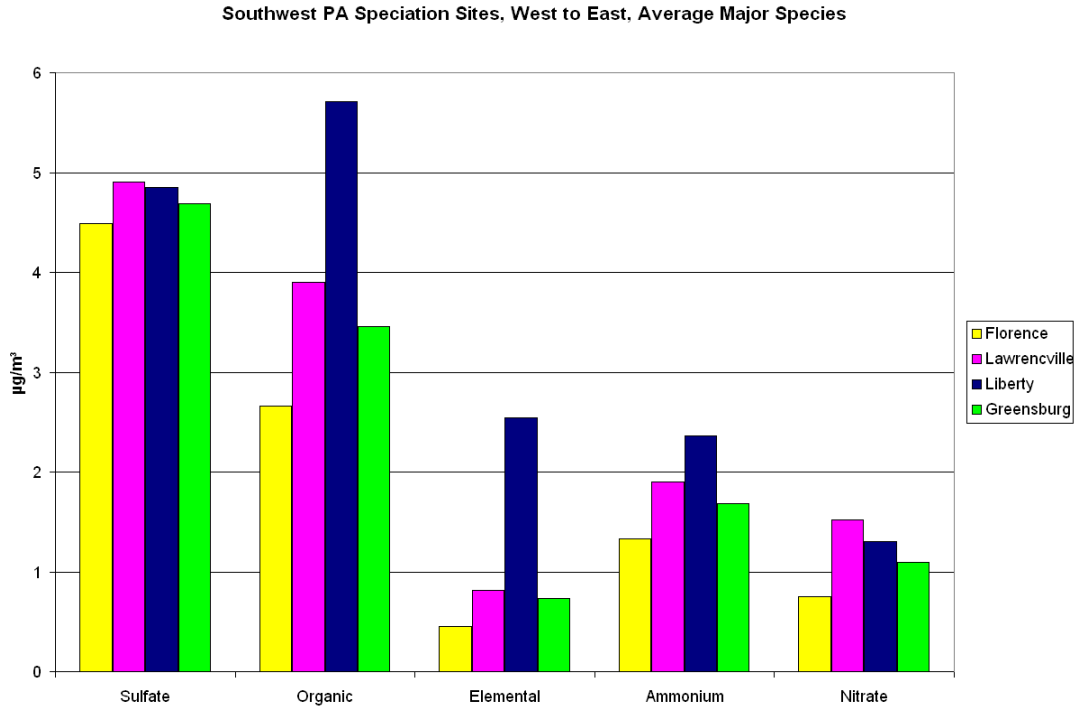


Nitrate, Southwest PA w/o Liberty



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.

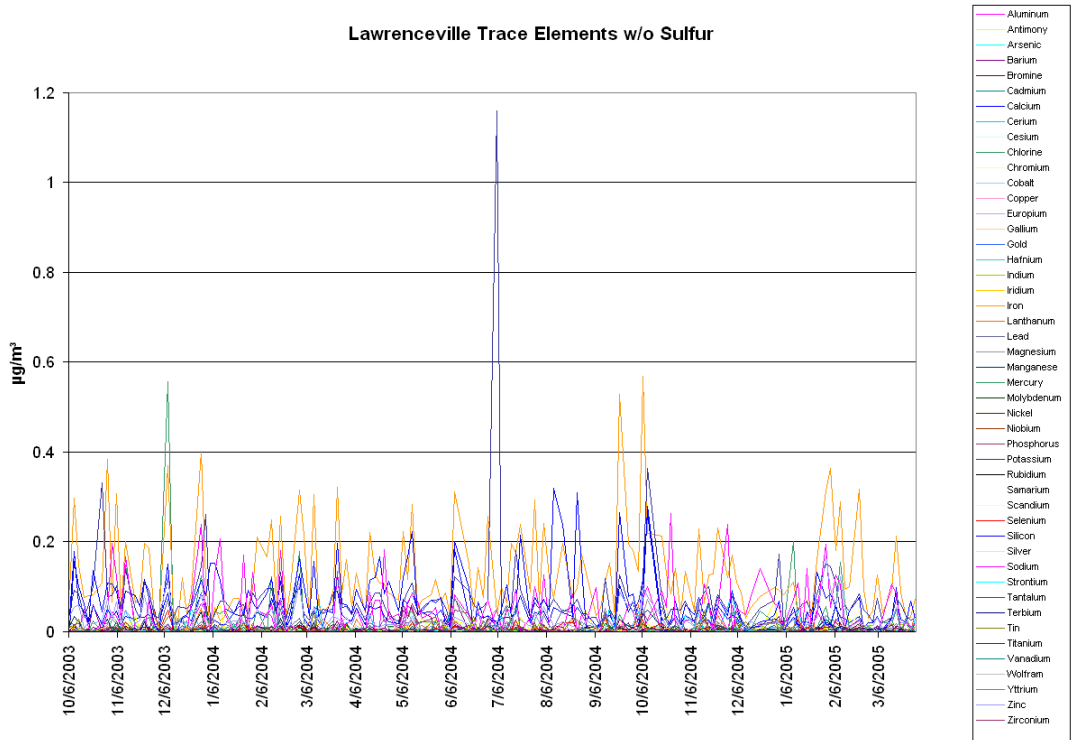


Florence can be considered the most rural of the sites, as average concentrations are lowest there for all species. A noticeable increase can be seen for all species from Florence to Lawrenceville, and a large increase is seen from Lawrenceville to Liberty for the localized Liberty-excess species. Greensburg 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

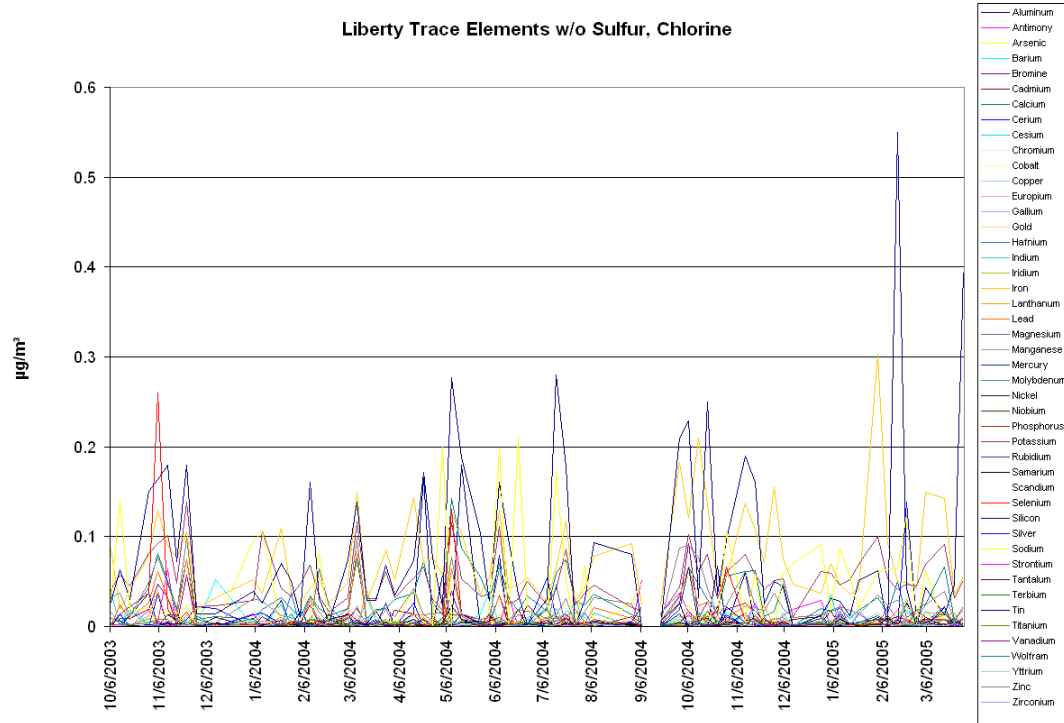
In addition to major species, 48 trace elements are analyzed from the speciation sites. Below are time series plots for Lawrenceville and Liberty trace elements. Sulfur, which is always much higher than the other elements, is excluded from these plots to allow for improved y-axis scaling.



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 4<sup>th</sup> 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.

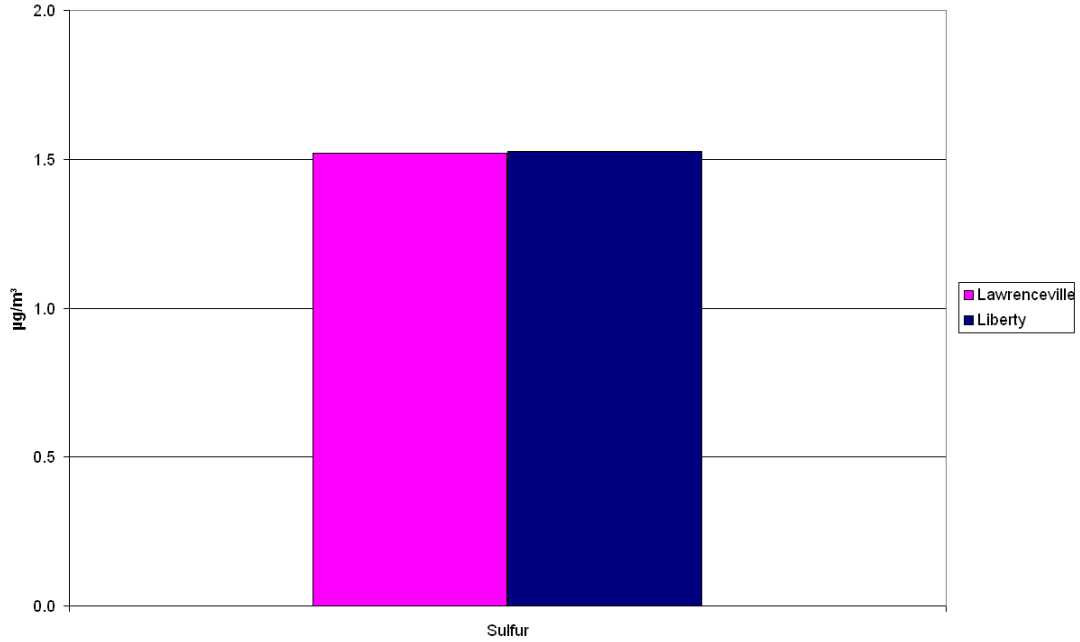


[Note: scale is different than Lawrenceville graph.]

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.

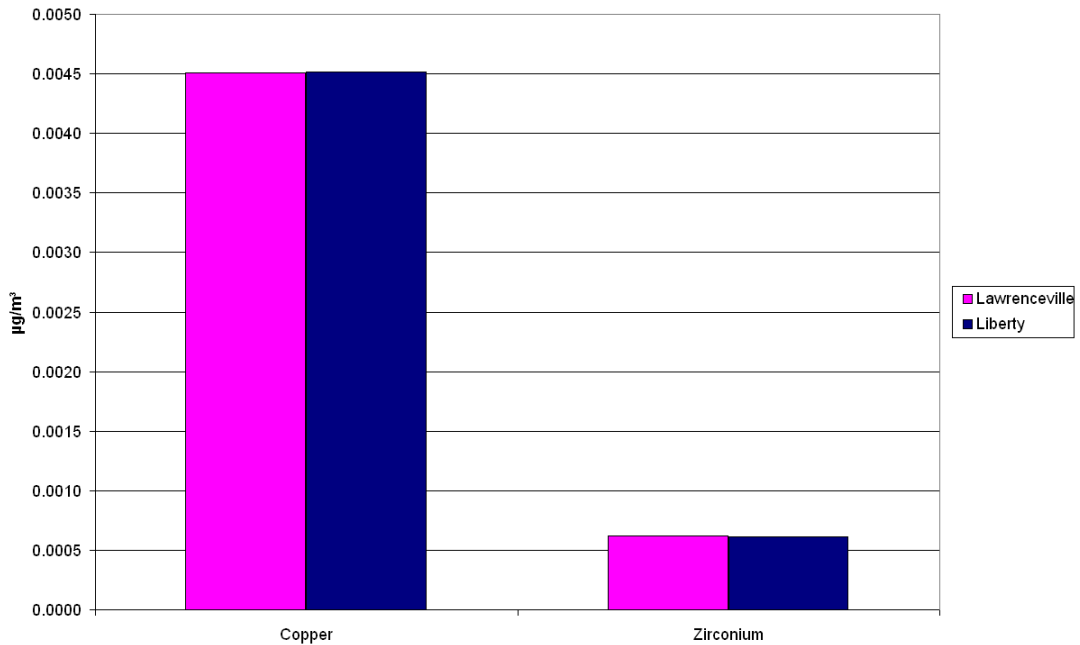
Below are average column graphs for each trace element.

Most Dominant Trace Element: Sulfur



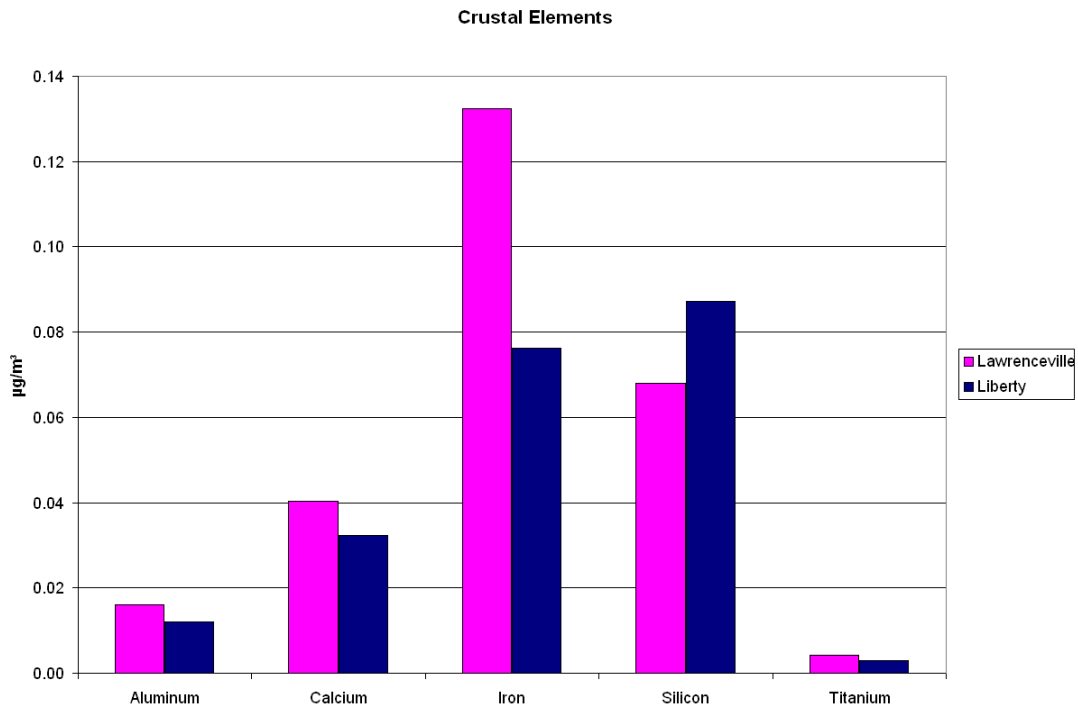
Sulfur is the most dominant element and is nearly equal for the sites. This follows the pattern of sulfate, which is also nearly equal on an average basis.

Additional Equal Trace Elements: Copper and Zirconium



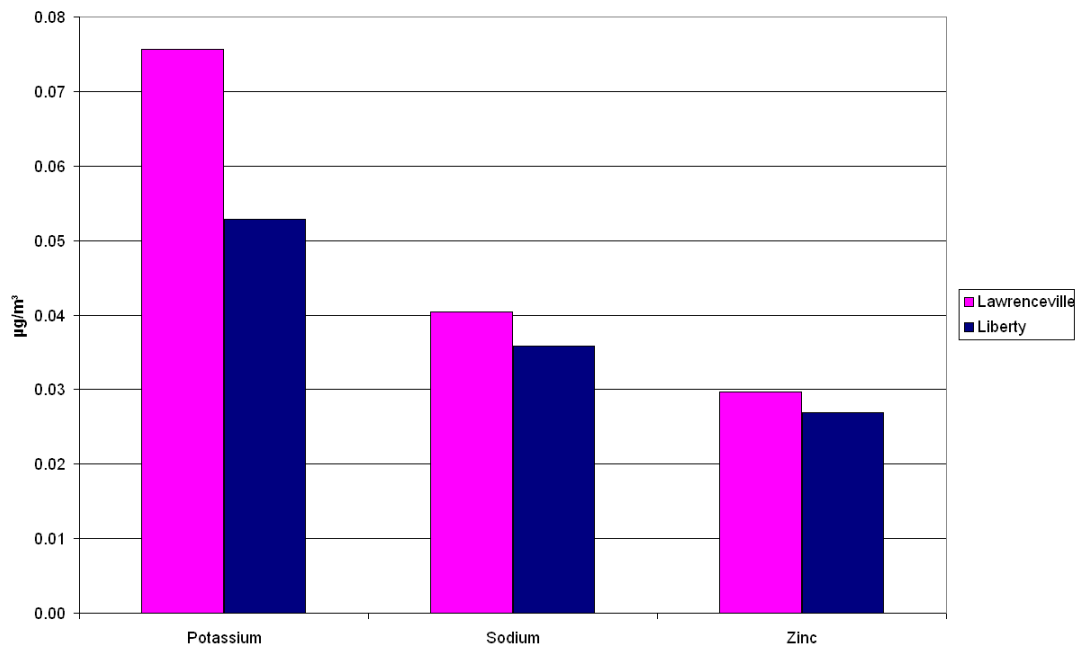
Although not as prevalent as sulfur, copper and zirconium are also nearly equal. Hence, these elements can be classified as regional-only trace elements.

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

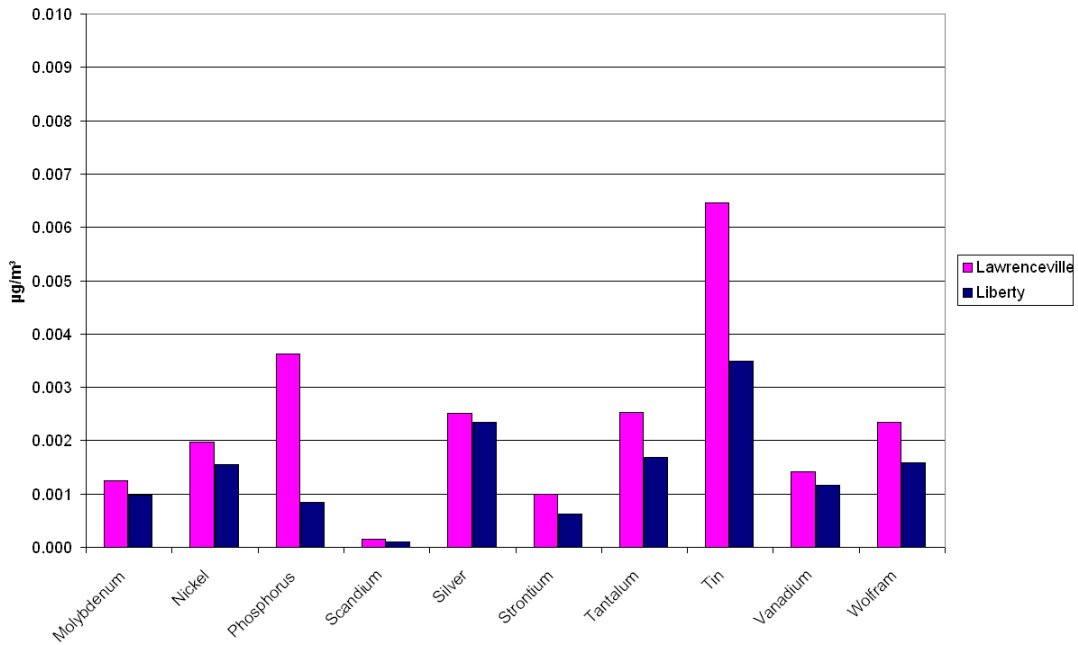
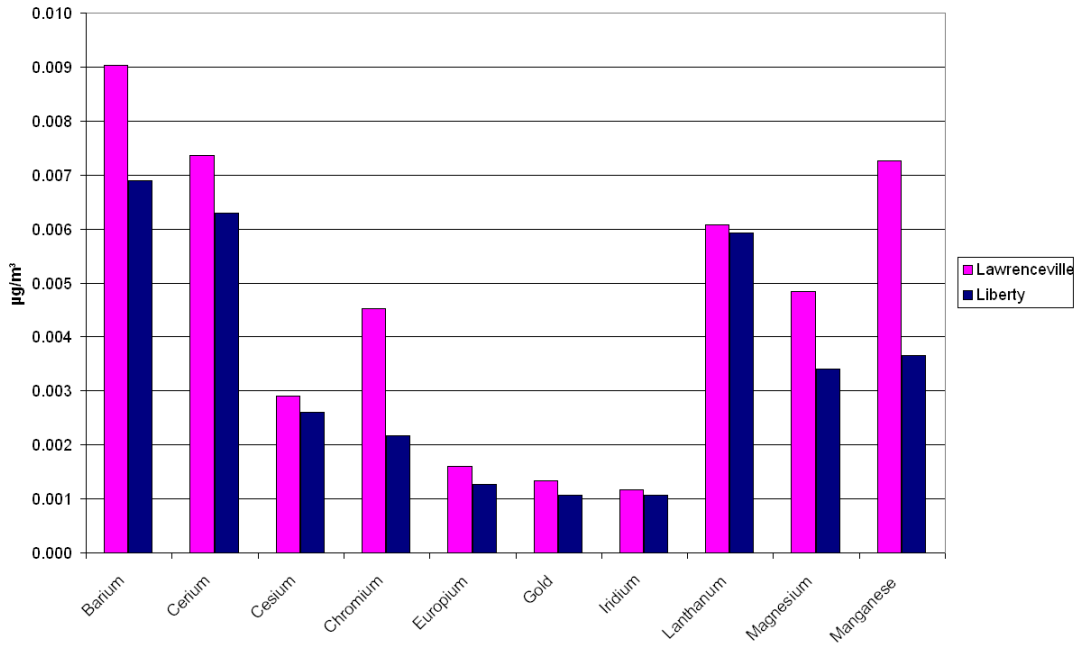


Potassium, sodium, and zinc are the most common Lawrenceville-dominant non-crustal trace elements. [Potassium and sodium are also measured as ions using the same analytical method by which the major species ammonium, nitrate, and sulfate are measured, but since the ionic concentrations of potassium and 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 4<sup>th</sup> 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.

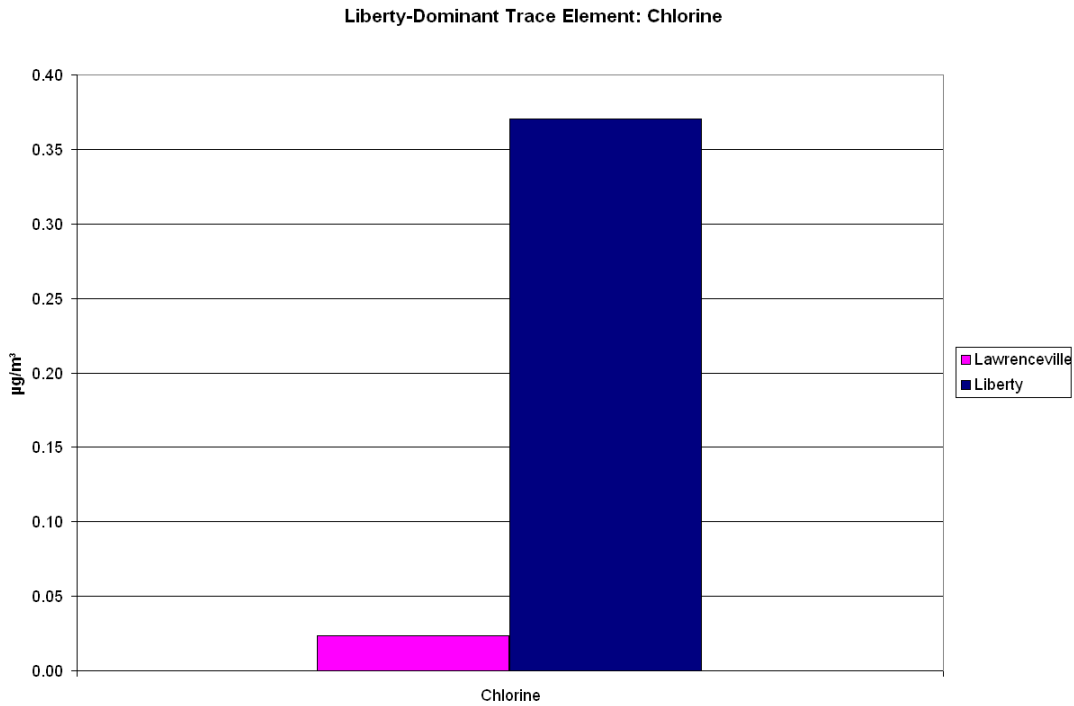
Additional Lawrenceville-dominant trace elements are shown in the charts to follow.

Additional Lawrenceville-Dominant Trace Elements

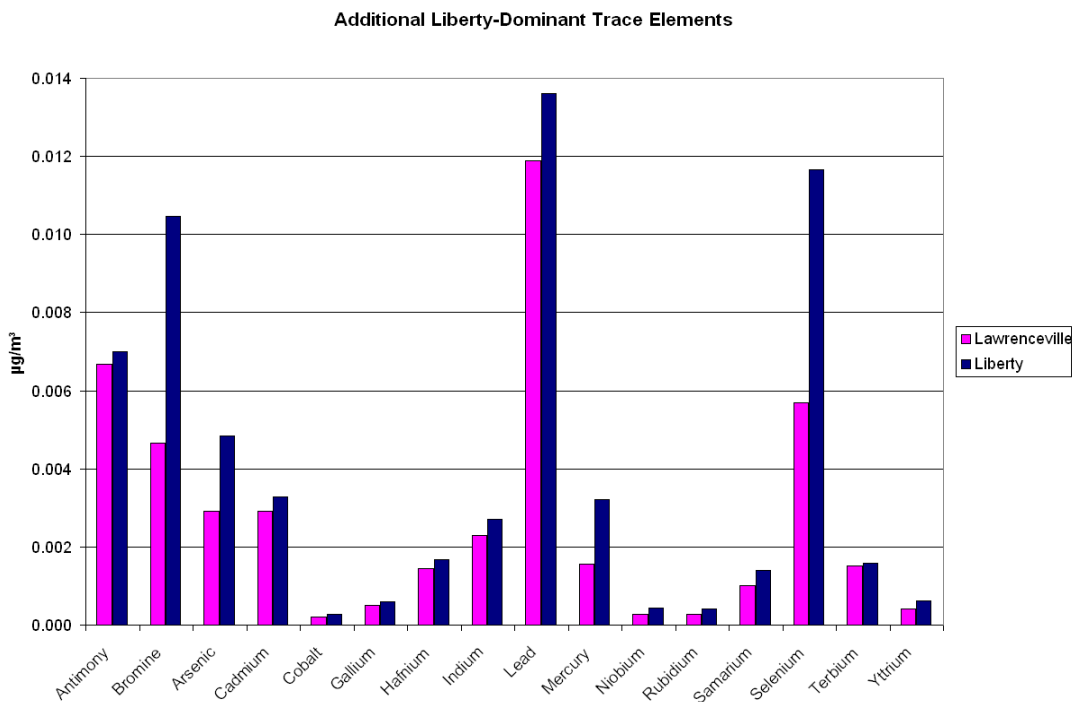


These Lawrenceville-dominant trace elements are likely urban and/or regional in nature. Barium, chromium, manganese, phosphorus, and tin show the most noticeable differences for these elements.

Liberty-dominant trace elements are given below.



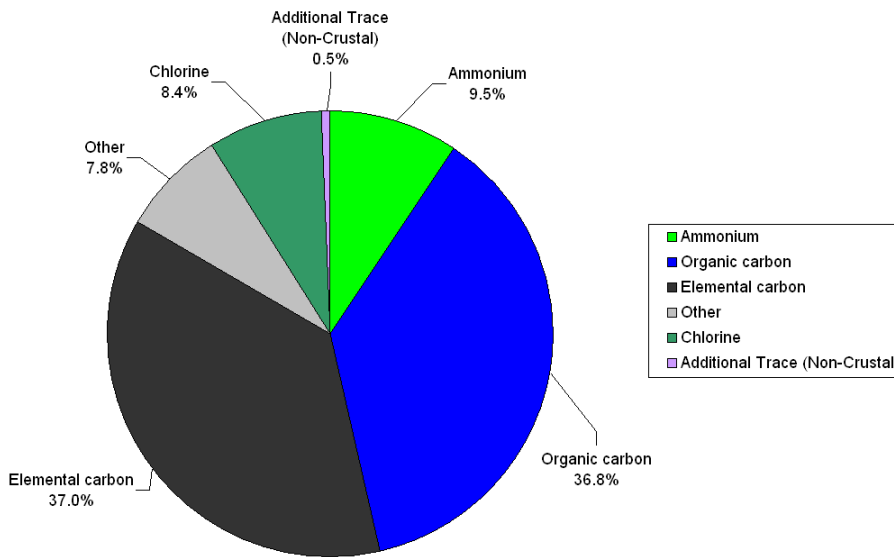
Chlorine is the most common Liberty-dominant trace element. While chlorine is a component of road salt, the amount of excess chlorine is unlikely due to airborne road salt alone.



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.

Localized Excess, Liberty Average Species (Adjusted Pie)



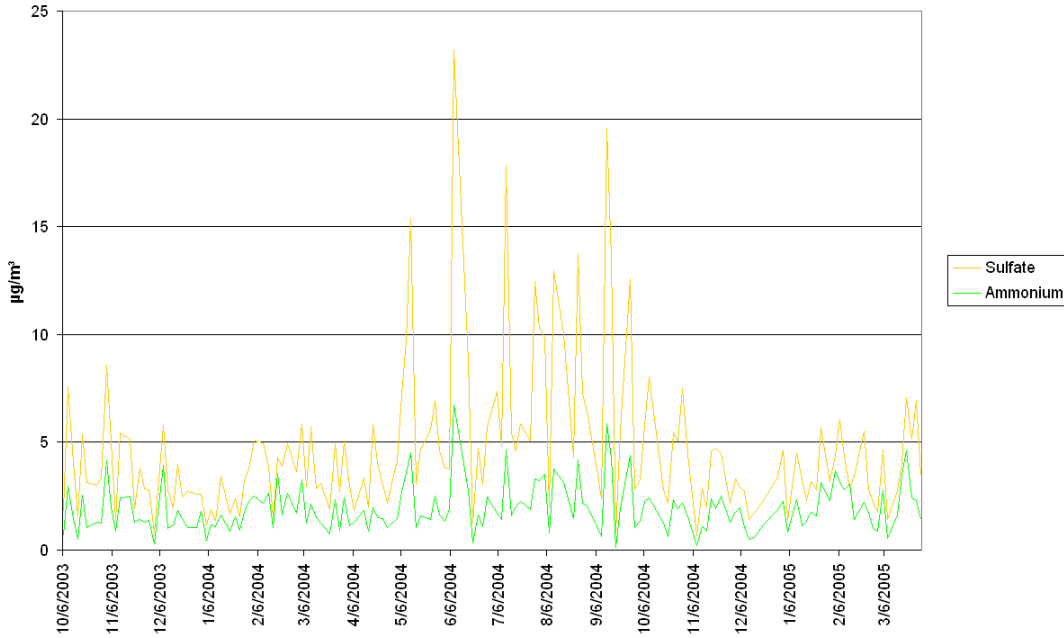
This adjusted localized excess pie chart represents the speciation of the Liberty excess, creating a PM<sub>2.5</sub> fingerprint for the Liberty monitor. Without the excess PM<sub>2.5</sub> components shown in the chart, Liberty would match Lawrenceville and be similar to other Eastern U.S. metropolitan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



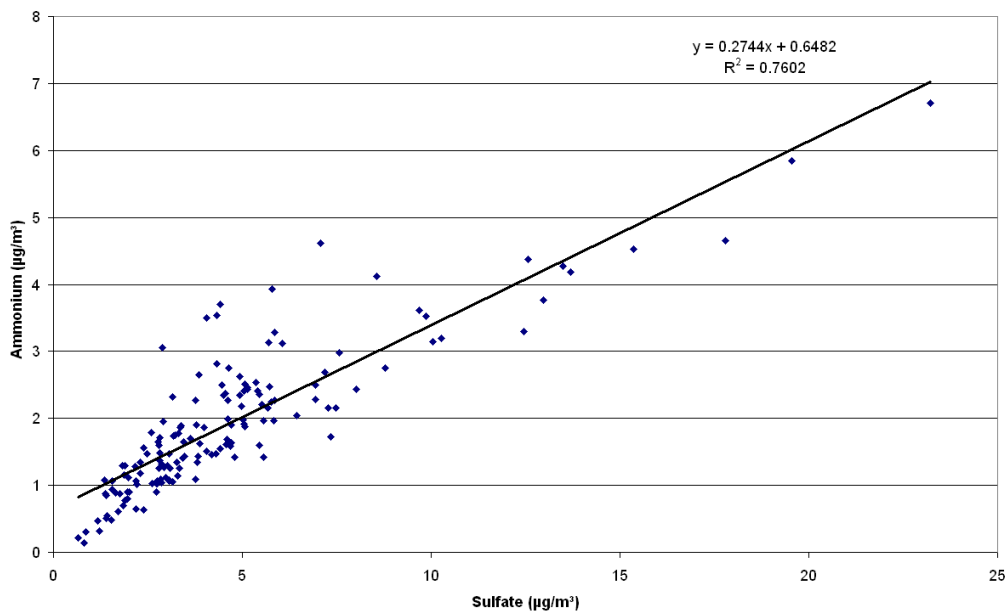
### 7. Species Correlations

Sulfate and nitrate generally exist as ammonium salts in PM<sub>2.5</sub>. Hence, correlations can be drawn between ammonium, nitrate, and sulfate, varying by season.

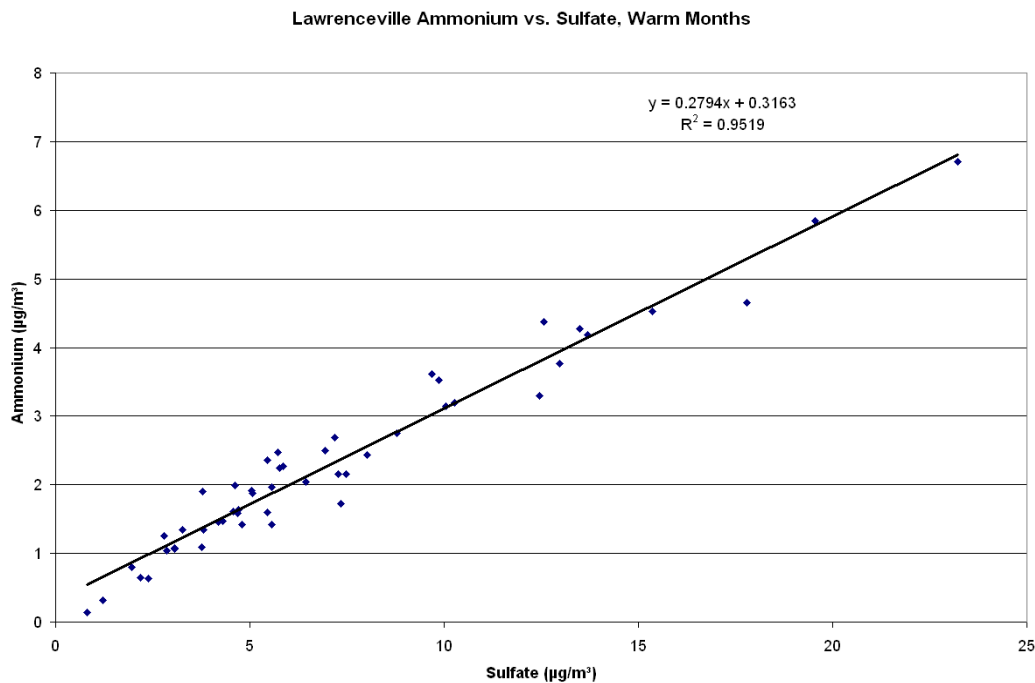
Lawrenceville Sulfate w/Ammonium



Lawrenceville Ammonium vs. Sulfate, Year-Round

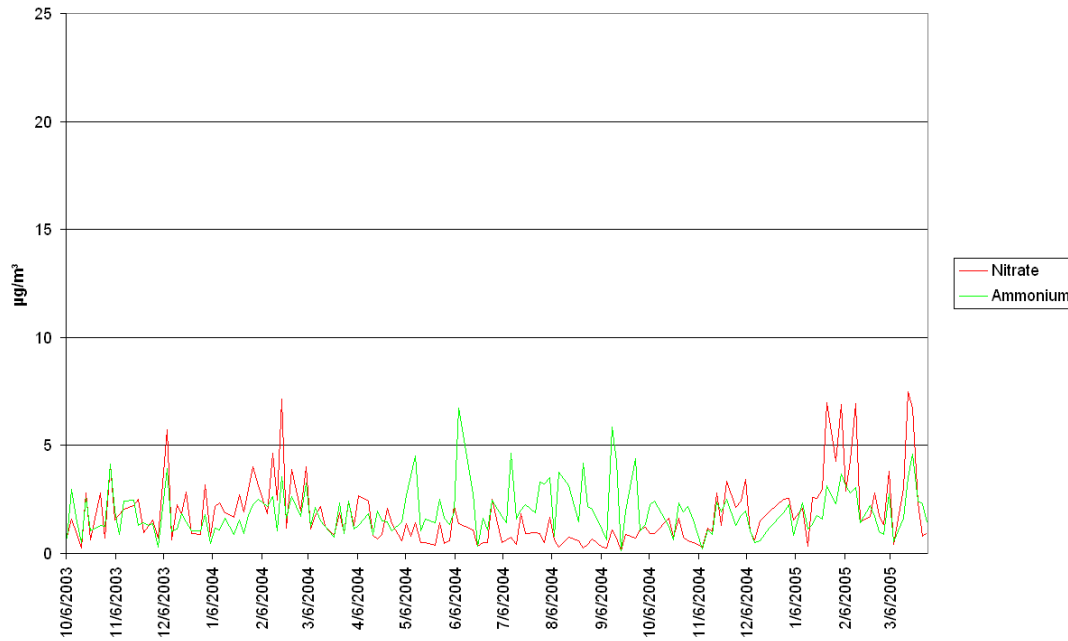


The time series and regression plots for Lawrenceville sulfate and ammonium show a moderate correlation year-round. During warm months when sulfate is most prevalent, the correlation between ammonium and sulfate increases, but the slope of the regression line is similar to that of the year-round basis.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

Lawrenceville Nitrate w/Ammonium

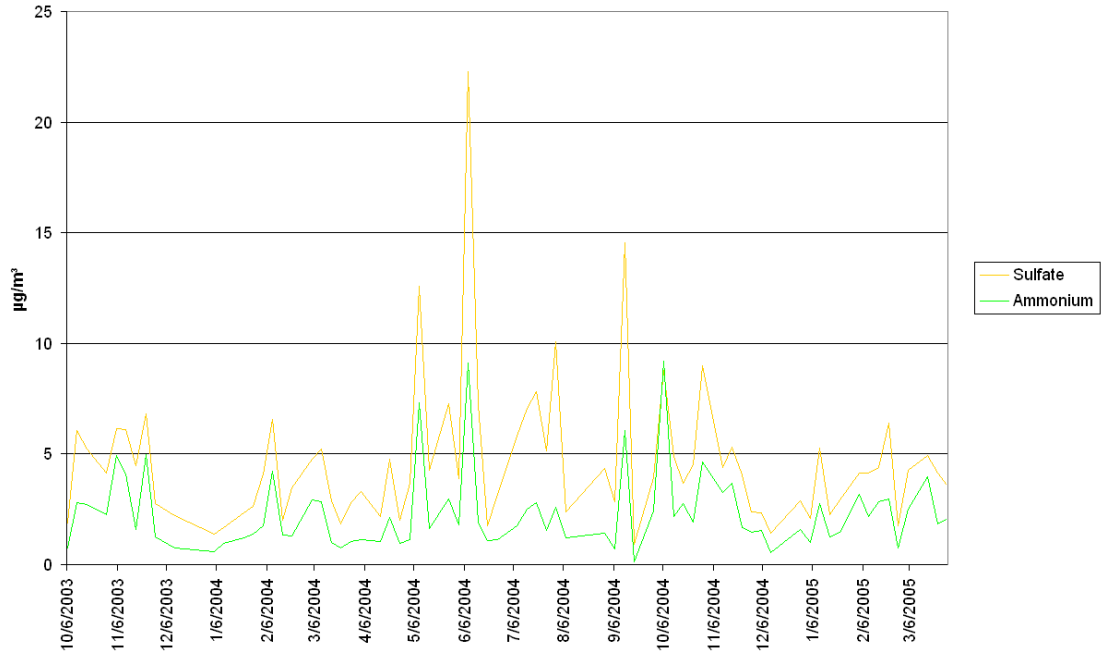


The times series plot for nitrate and ammonium shows the best correlation during winter when nitrates are more prevalent. The worst correlation occurs during warmer months when sulfates are more dominant.

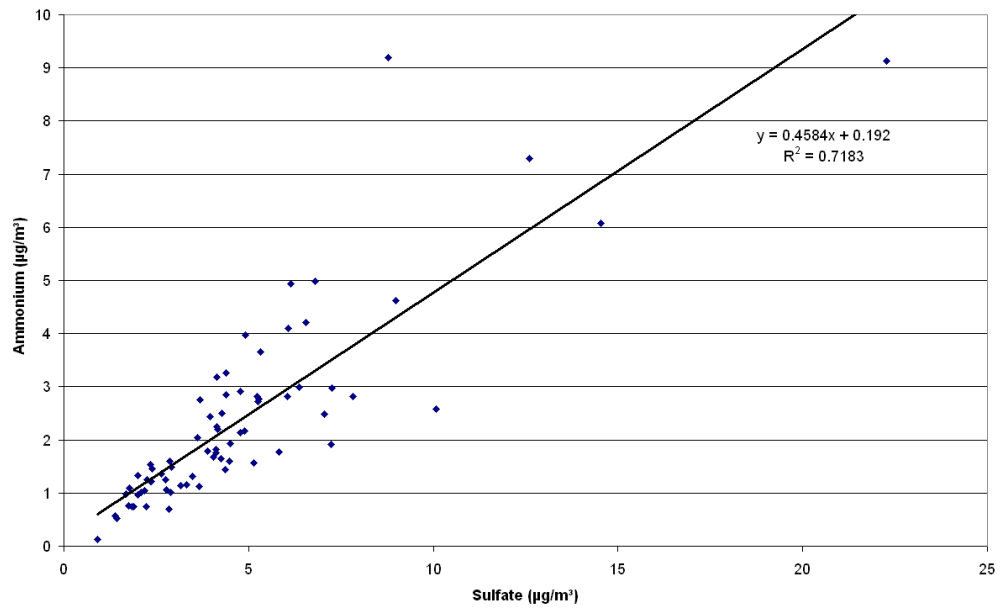
These trends for ammonium sulfate and ammonium nitrate salts are regional and are common to most speciation sites in the Eastern U.S.

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

Liberty Sulfate w/Ammonium

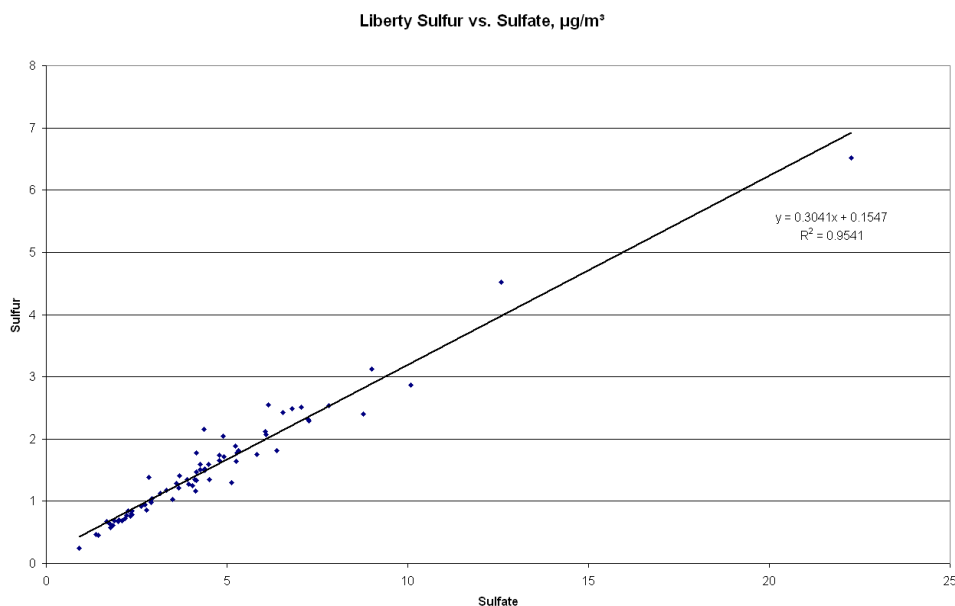
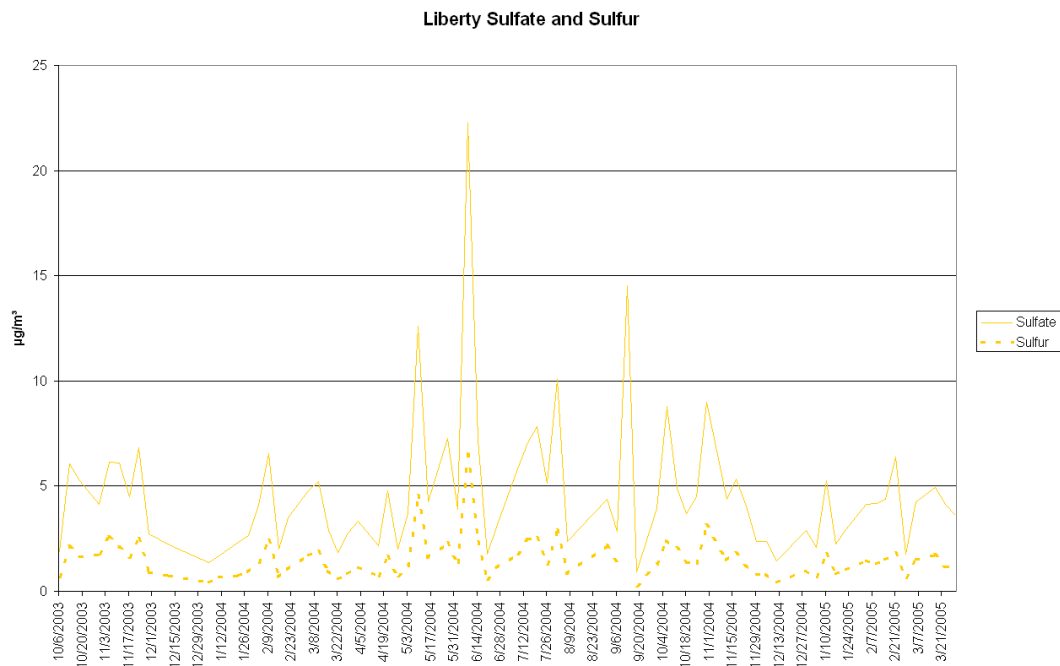


Liberty Ammonium vs. Sulfate, Year-Round



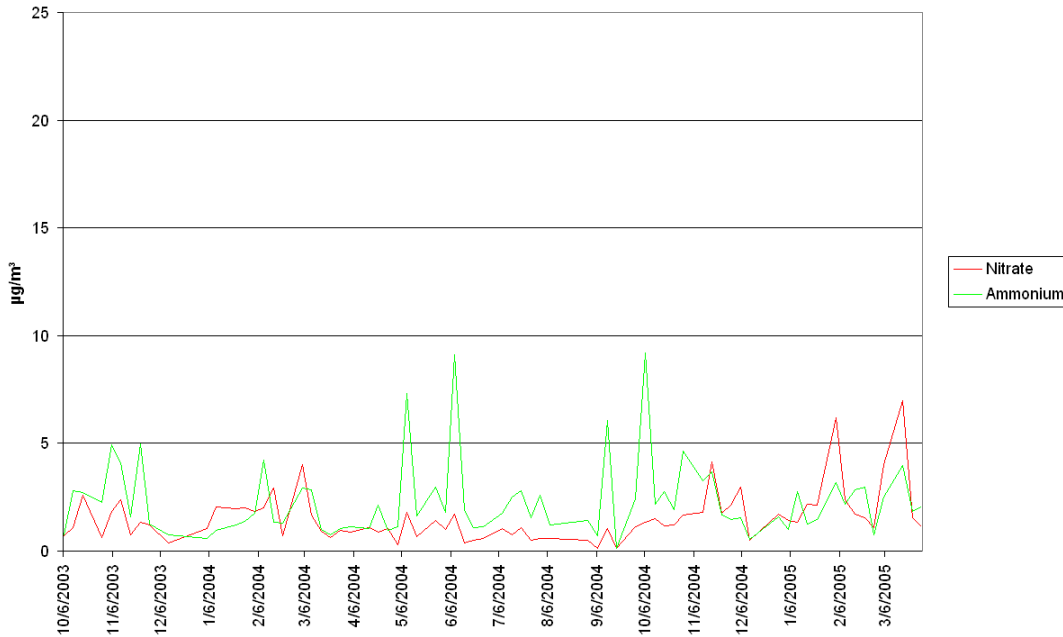
Liberty shows less of a year-round correlation for ammonium and sulfate than Lawrenceville, as the  $R^2$  (0.718) value is lower for the Liberty regression. Also, the slope is considerably greater for the Liberty regression line (0.458), due to the higher concentrations of ammonium at Liberty.

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.

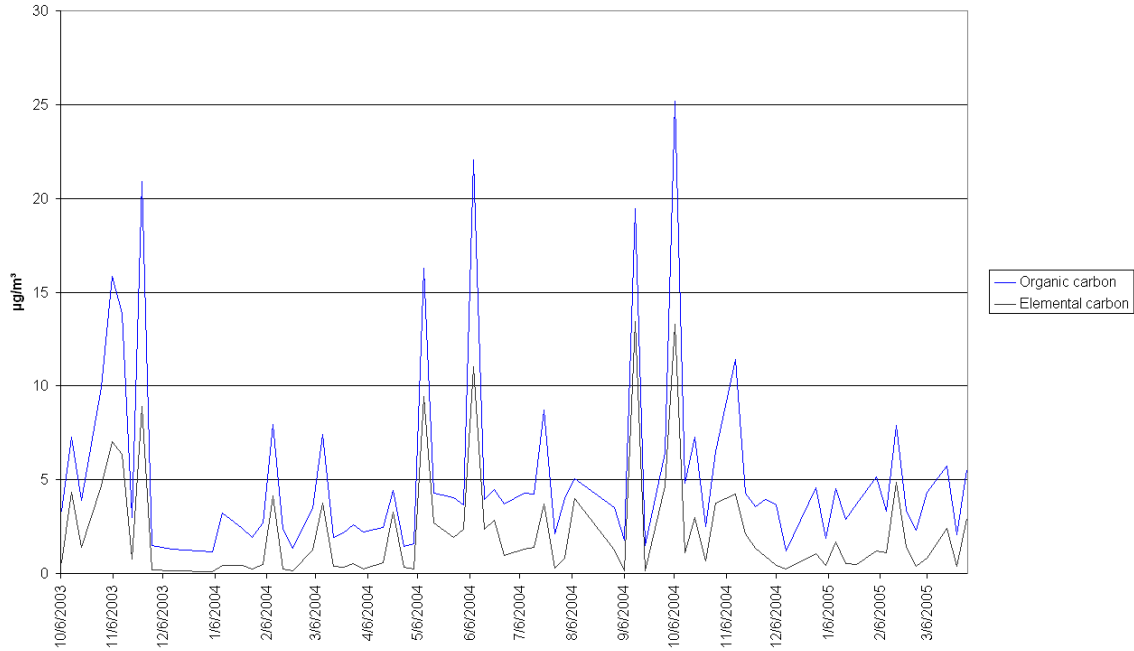
Liberty Nitrate w/Ammonium



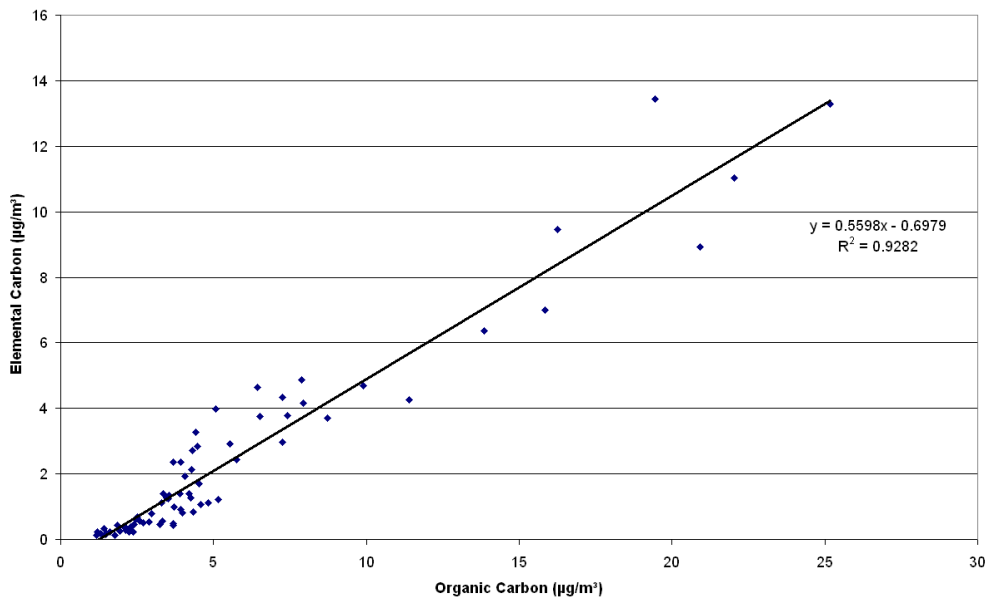
Liberty behaves similarly to Lawrenceville for nitrate and ammonium, but with higher overall concentrations for ammonium at Liberty. Ammonium is likely present in other forms than just ammonium sulfate and nitrate salts at Liberty.

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  $PM_{2.5}$ .

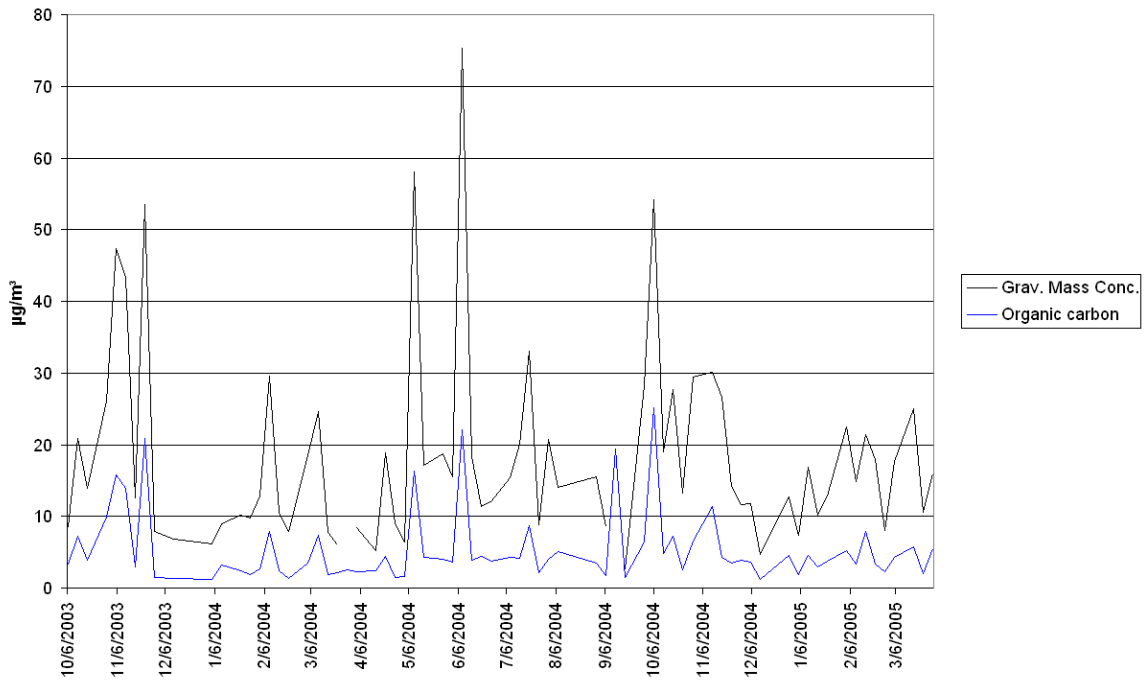
Liberty Organic and Elemental Carbon



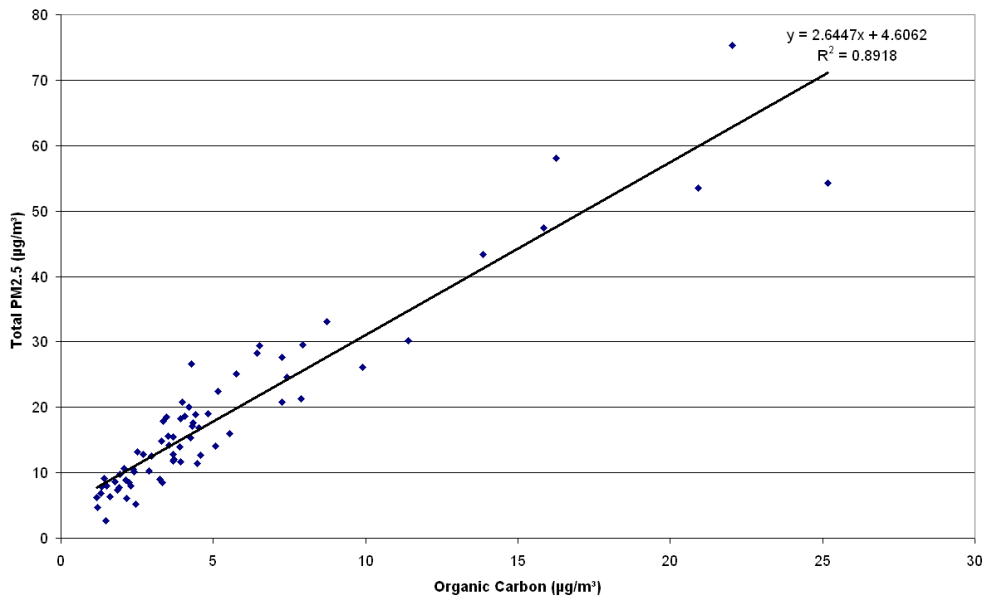
Liberty Elemental vs. Organic Carbon



Liberty Total Gravimetric PM2.5 and Organic Carbon

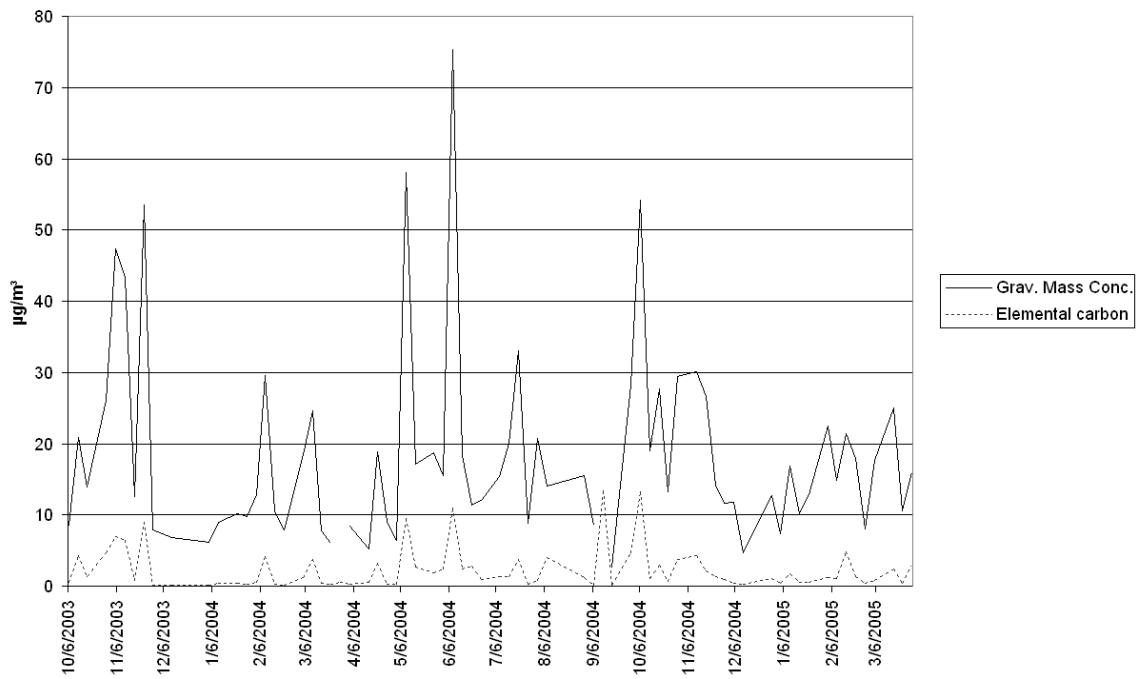


Liberty Total Gravimetric PM2.5 vs. Organic Carbon

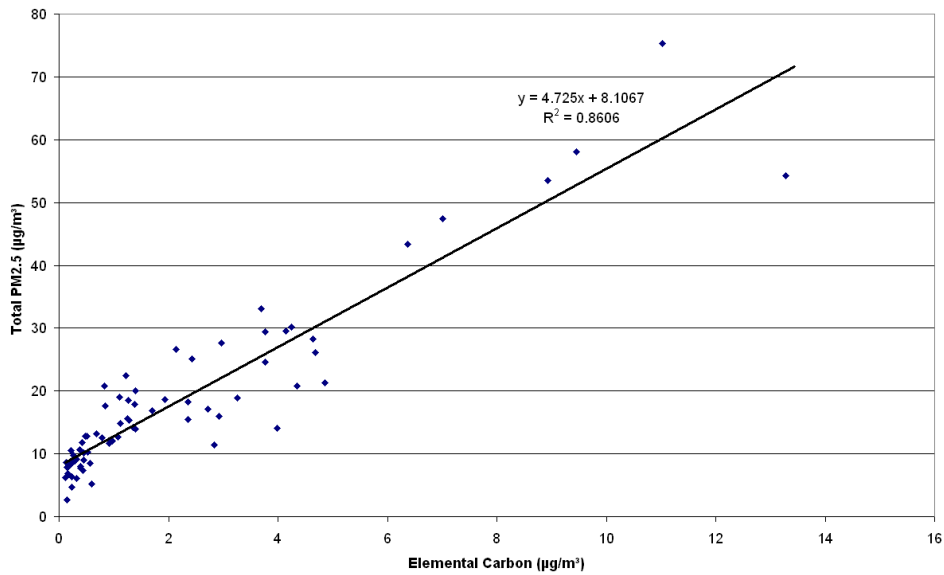




Liberty Total Gravimetric PM2.5 and Elemental Carbon

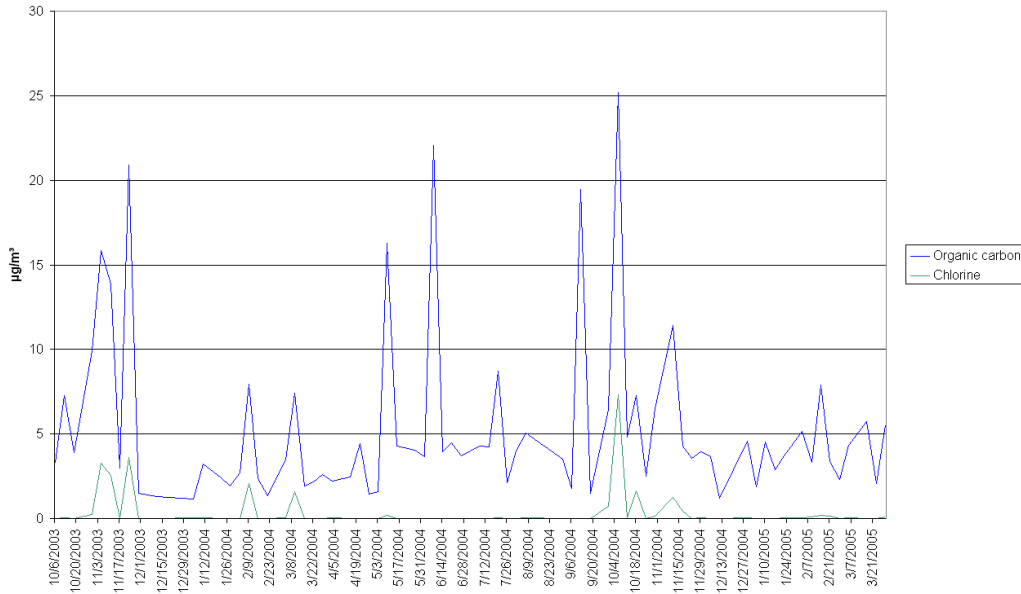


Liberty Total Gravimetric PM2.5 vs. Elemental Carbon

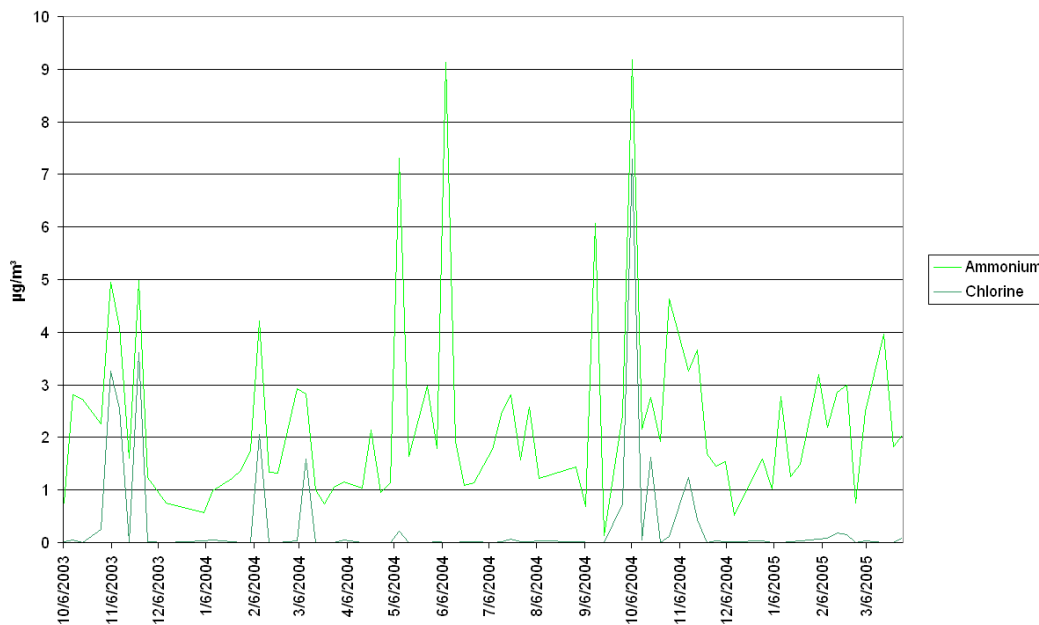


Additionally, chlorine can track organic carbon and ammonium in winter. Time series plots for chlorine with organic carbon and ammonium are given below.

Liberty Organic Carbon and Chlorine



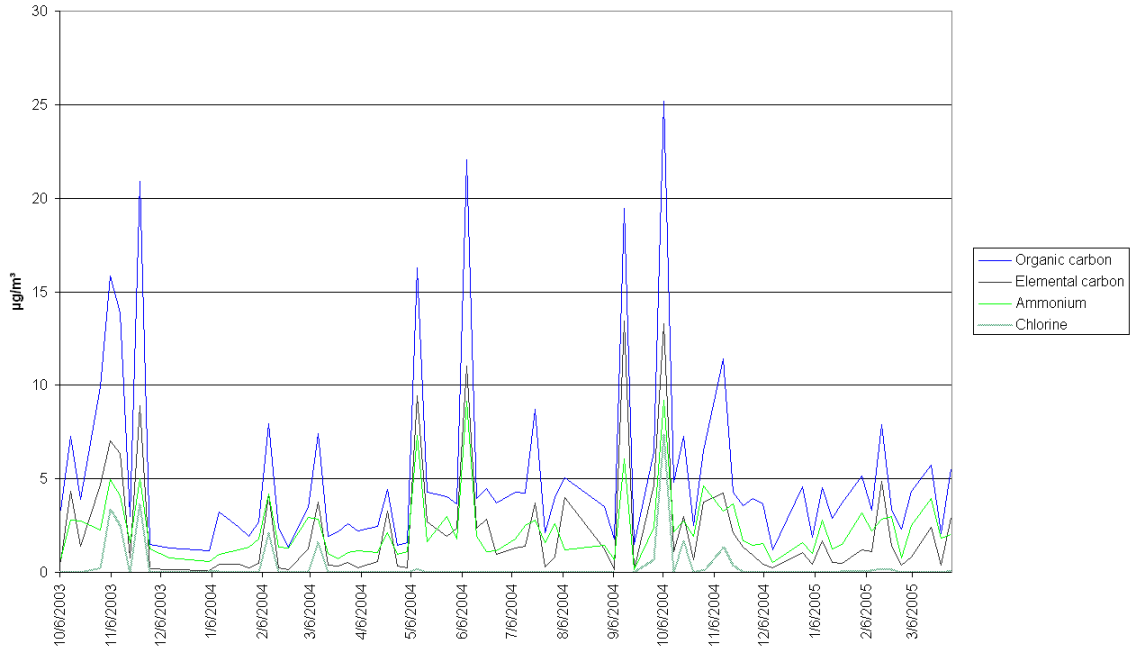
Liberty Ammonium and Chlorine



These plots suggest that chlorinated organic compounds and/or ammonium chloride salt may be a component of Liberty PM<sub>2.5</sub> during cold months.

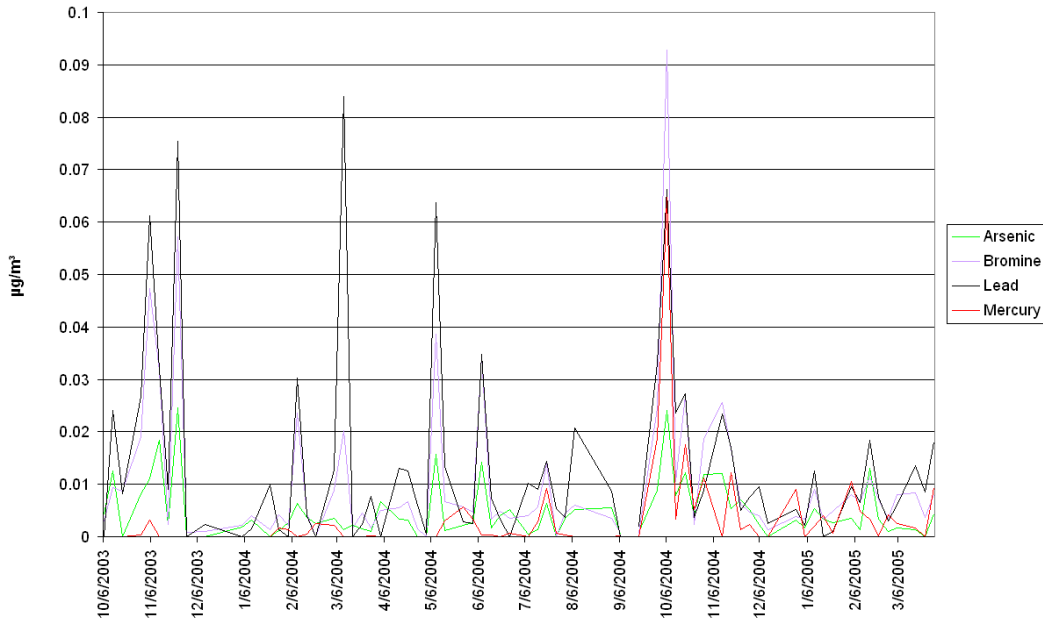
Ammonium can also track the carbons on some days, specifically on peak days. Carbons, ammonium, and chlorine are shown on the following plot as "peak species." These species correlate well on peak days, but not necessarily year-round.

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



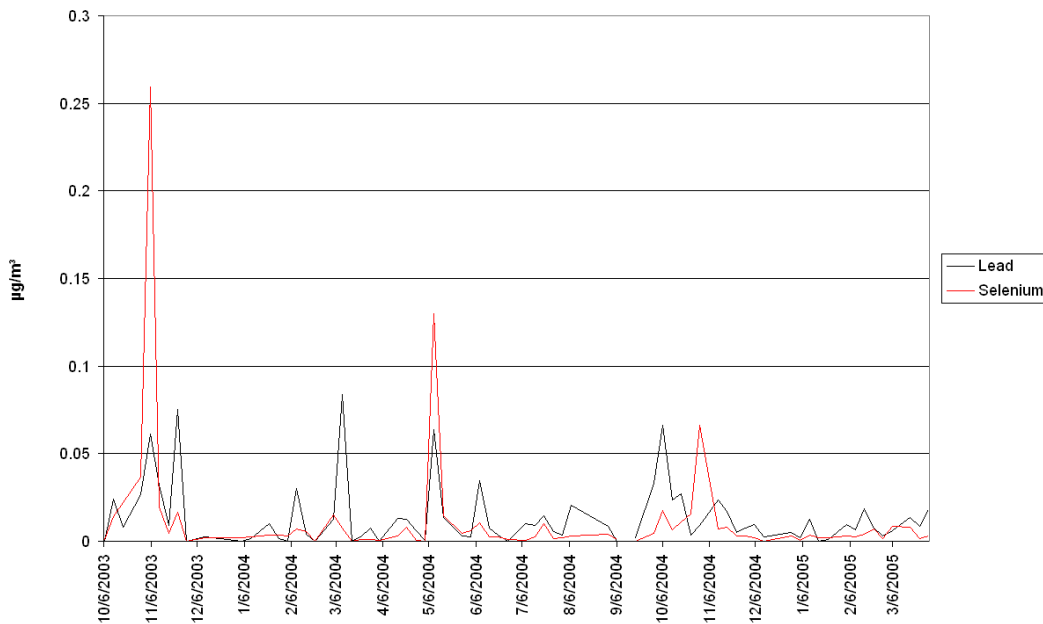
On a smaller scale, some Liberty-dominant trace elements also appear to correlate with one another. Liberty arsenic, bromine, lead, and mercury are shown in the time series plot below.

Liberty Arsenic, Bromine, Lead, and Mercury



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

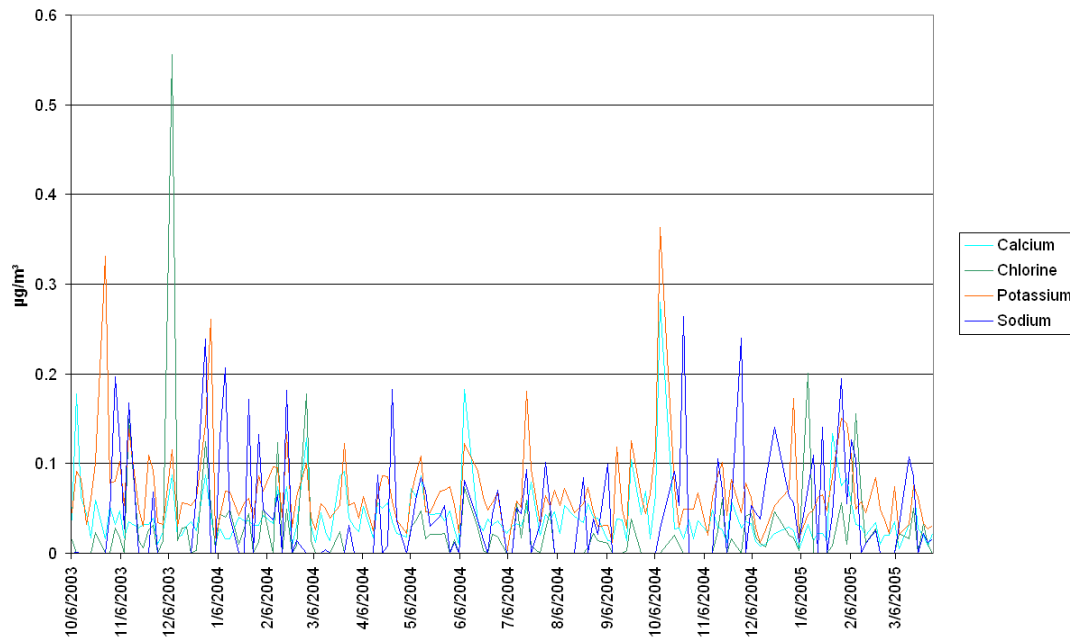
Liberty Lead and Selenium



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.

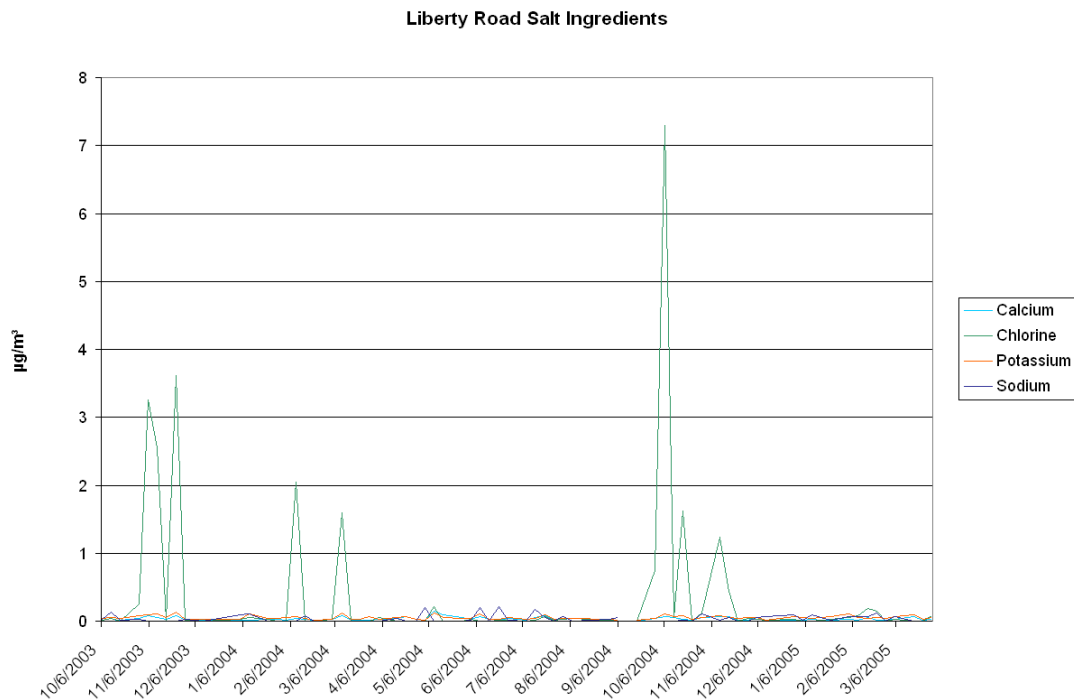
Mass ratios of the cation portion of each salt (sodium, potassium, calcium) are roughly 1:1 to the anionic portion (chloride). Plots of these elements should therefore show similar concentrations to one another if airborne road salt is a source of PM<sub>2.5</sub>.

Lawrenceville Road Salt Ingredients (w/o 4th-of-July Potassium Peak)



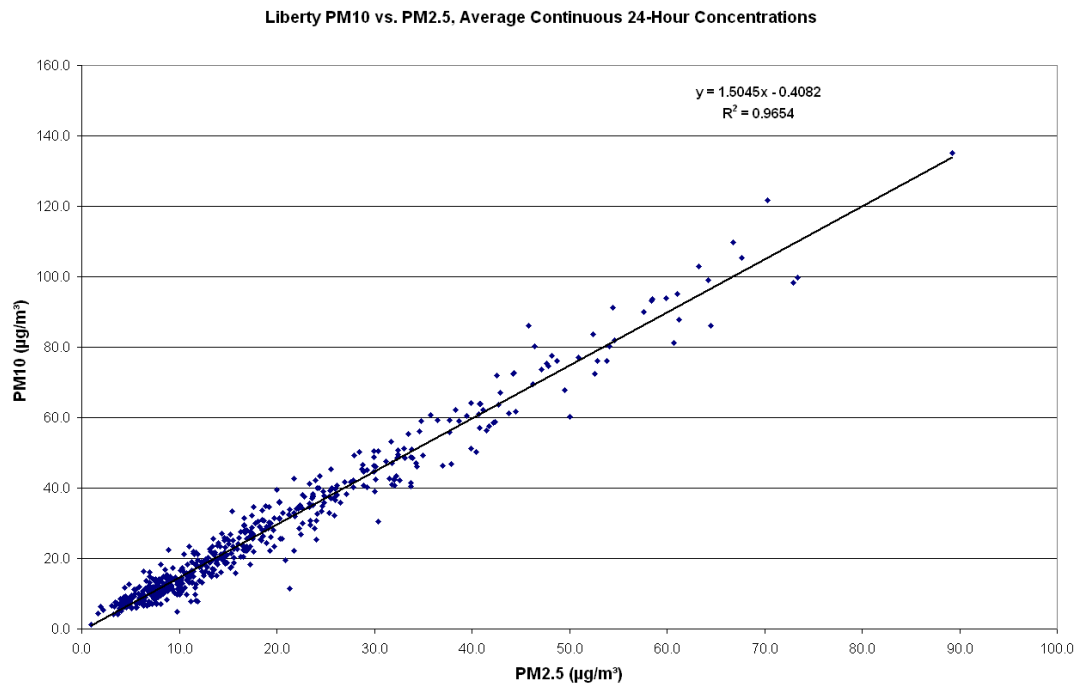
Road salt ingredients show similar concentration levels at Lawrenceville, signifying that one or more of the possible cations may be present with chloride as road salt. The highest chlorine peak (date: 12/8/03) may represent a combination of all three types of salt.

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



At Liberty, road salt may be present as  $PM_{2.5}$ , 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.

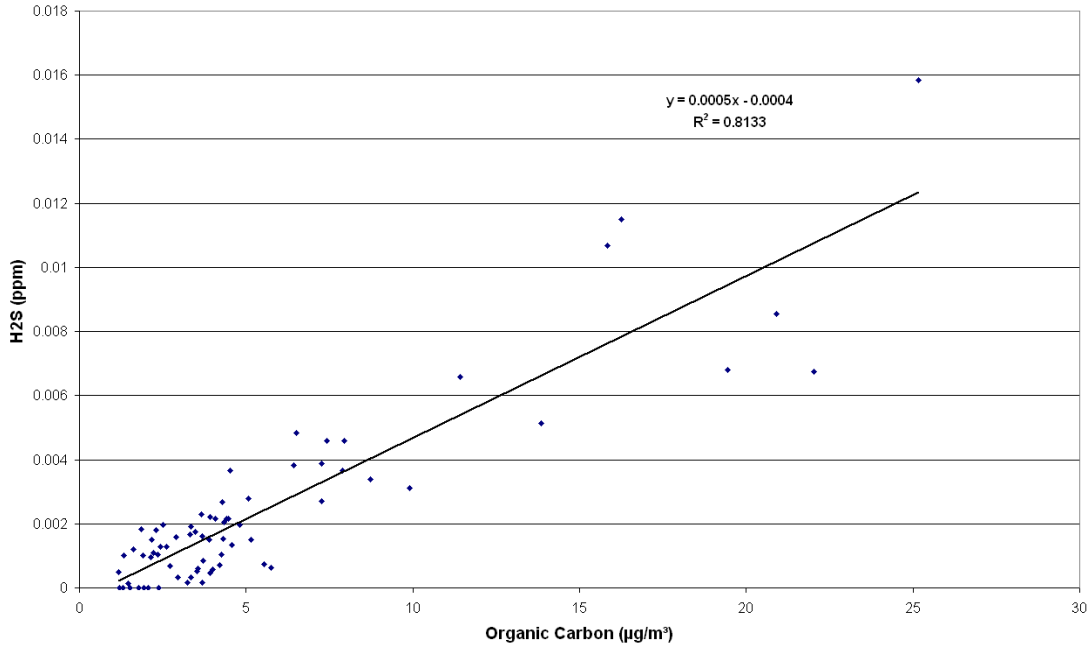
The Liberty site is collocated with several continuous monitors. Liberty continuous PM<sub>10</sub> and PM<sub>2.5</sub> are plotted below.



The Liberty PM<sub>10</sub> and PM<sub>2.5</sub> continuous monitors correlate extremely well, with PM<sub>2.5</sub> constituting two-thirds of the PM<sub>10</sub> concentration.

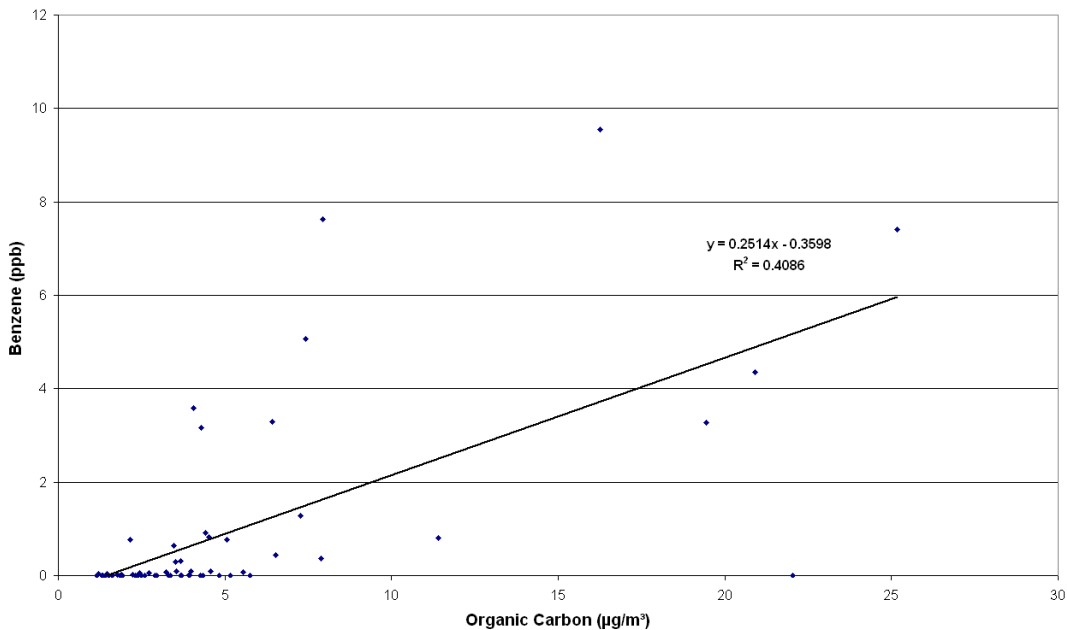
Regression plots for continuous gaseous pollutants and organic carbon (the most dominant PM<sub>2.5</sub> species) are given below for Liberty.

Liberty H<sub>2</sub>S (Average Continuous 24-Hour) vs. Organic Carbon



Hydrogen sulfide (H<sub>2</sub>S) 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

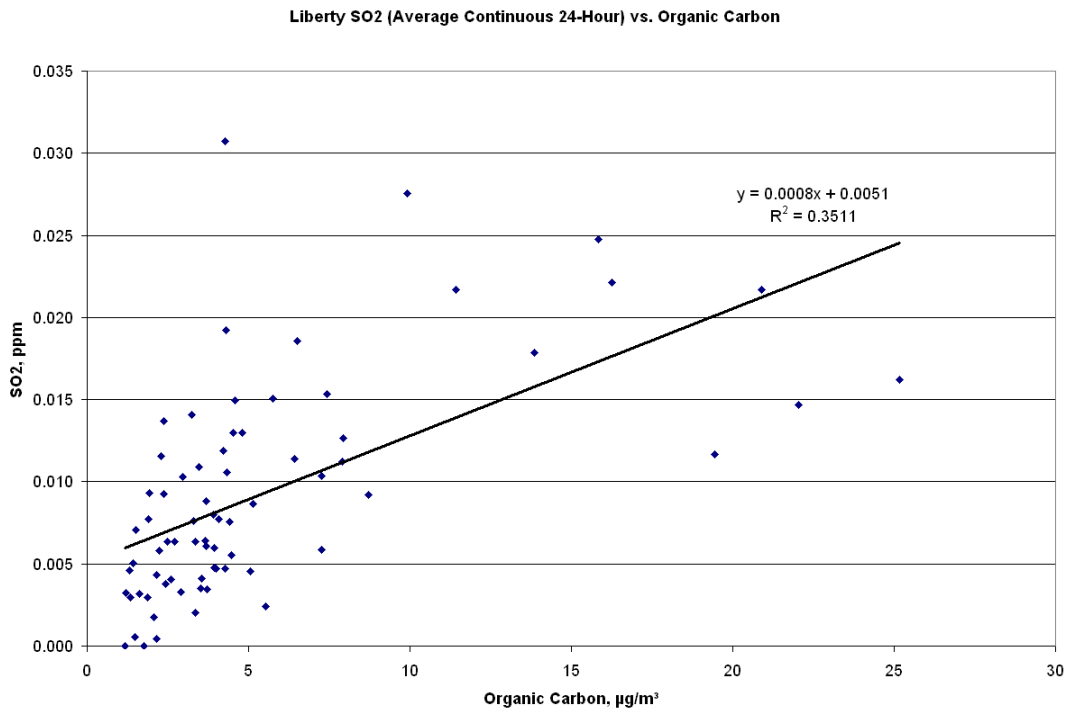




Benzene itself is an organic carbon, but benzene 24-hour averages do not correlate well with organic carbon at Liberty. This is due to the different phases in which benzene and organic carbon are being sampled. The benzene monitor measures continuous gas-phase benzene, while the speciation monitor measures 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 (SO<sub>2</sub>) and organic carbon are shown below.

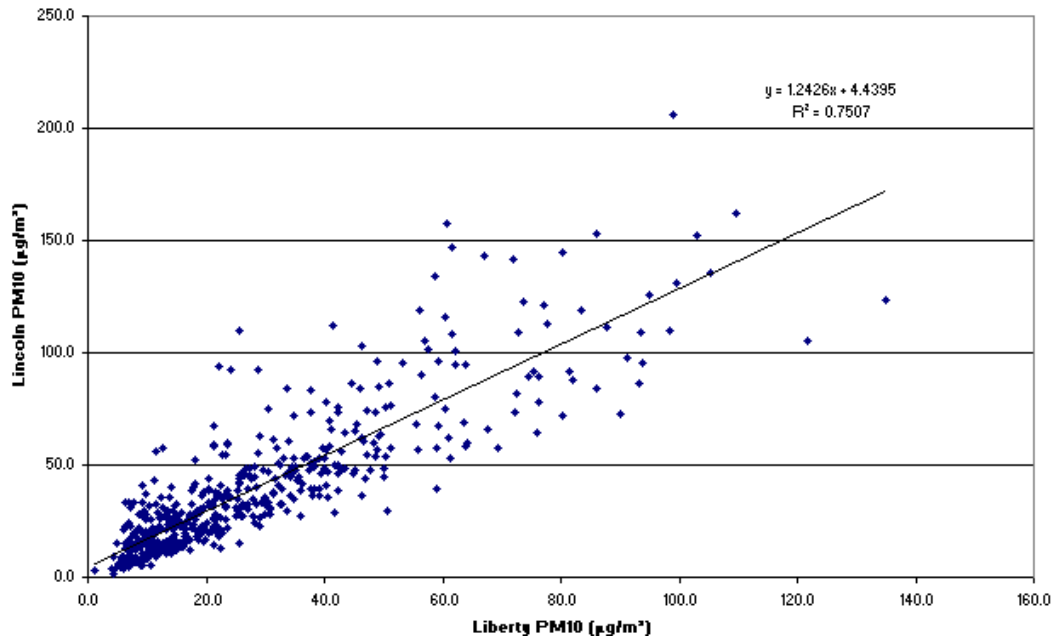


Sulfur dioxide, like benzene, does not correlate well with organic carbon on a 24-hour basis.

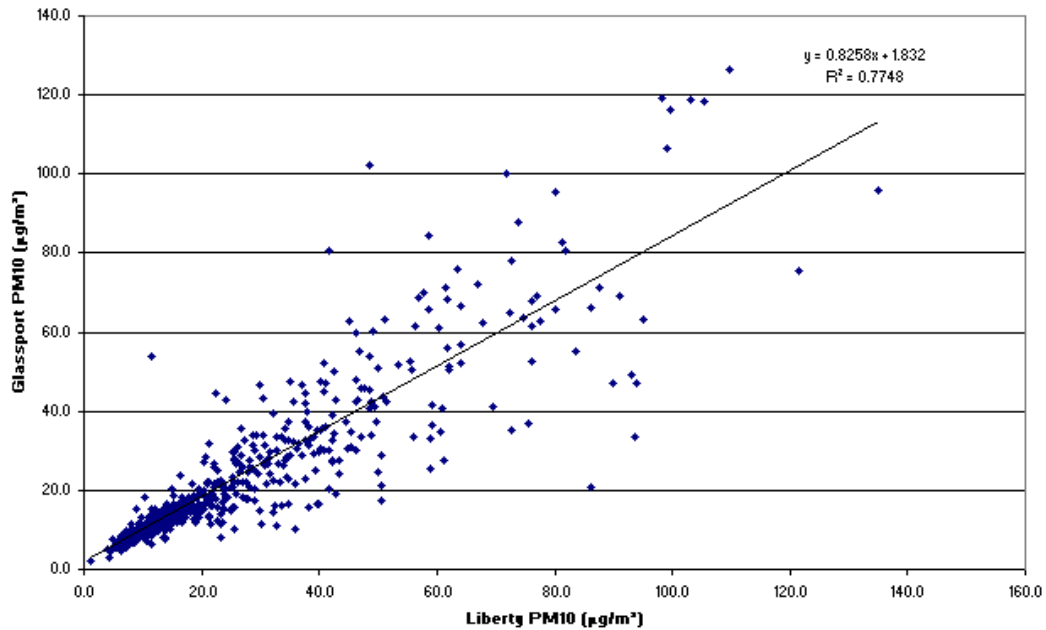
### 8. Site Correlations

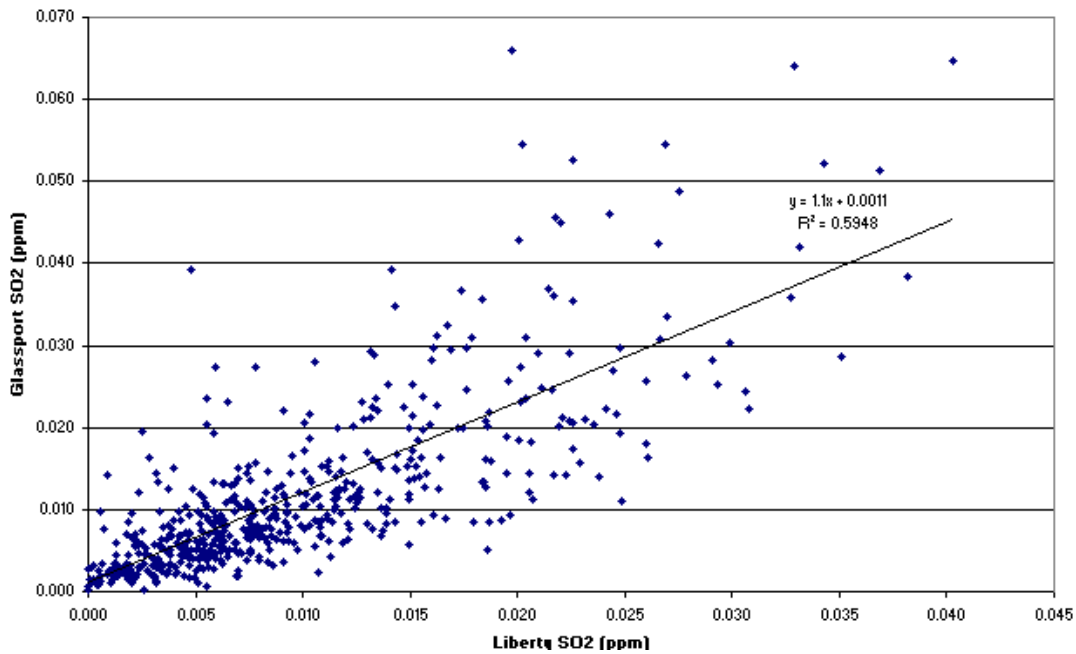
Liberty is located near two additional sites with PM<sub>10</sub> and SO<sub>2</sub> monitors: Lincoln and Glassport. Regression plots for these sites with Liberty are given below.

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



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



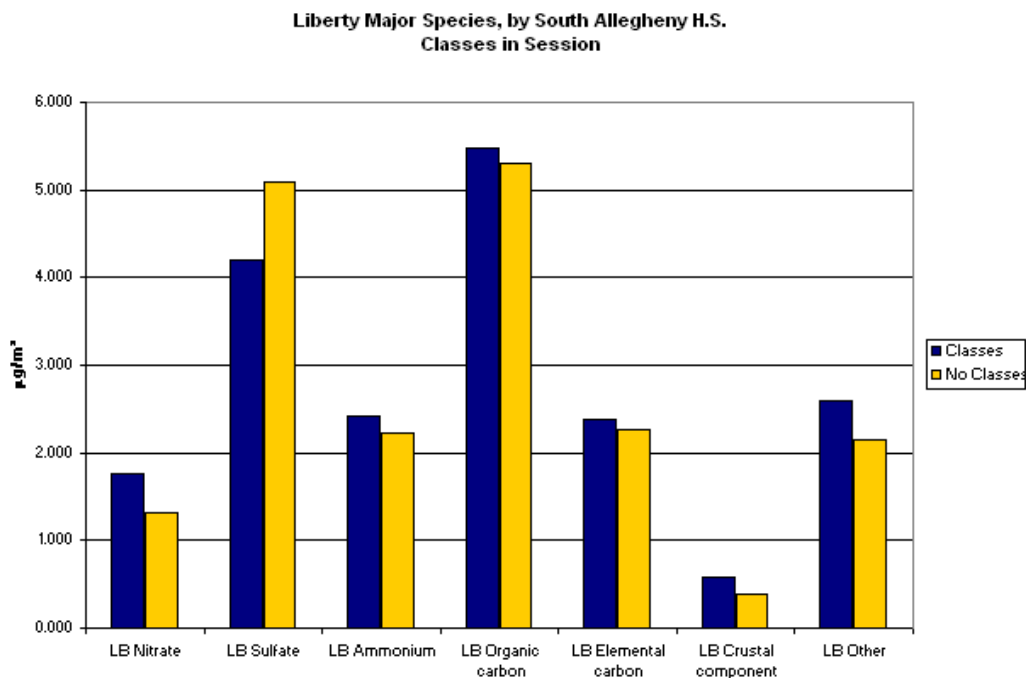
Glassport vs. Liberty, Average SO<sub>2</sub> Continuous 24-Hour Concentrations

These plots reveal that Liberty can correlate moderately with Glassport and Lincoln for PM<sub>10</sub> on a 24-hour average basis. Liberty is more site-specific for SO<sub>2</sub>, however, as Glassport and Liberty do not correlate well.

### 9. Liberty School Buses

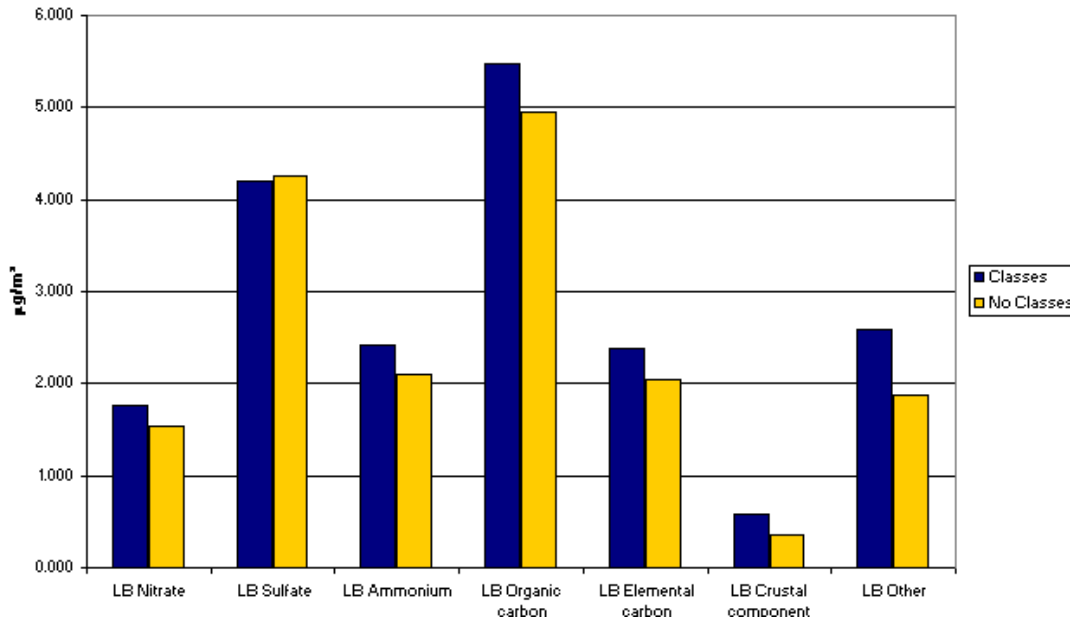
The Liberty site is located on the roof of South Allegheny High School, and school bus diesel emissions are a possible source of PM<sub>2.5</sub> for that monitor. School buses line up on both sides of the high school in the morning and afternoon; the Liberty monitor is located near the center of the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

**Liberty Major Species, by South Allegheny H.S. Classes in Session (excluding summer break)**

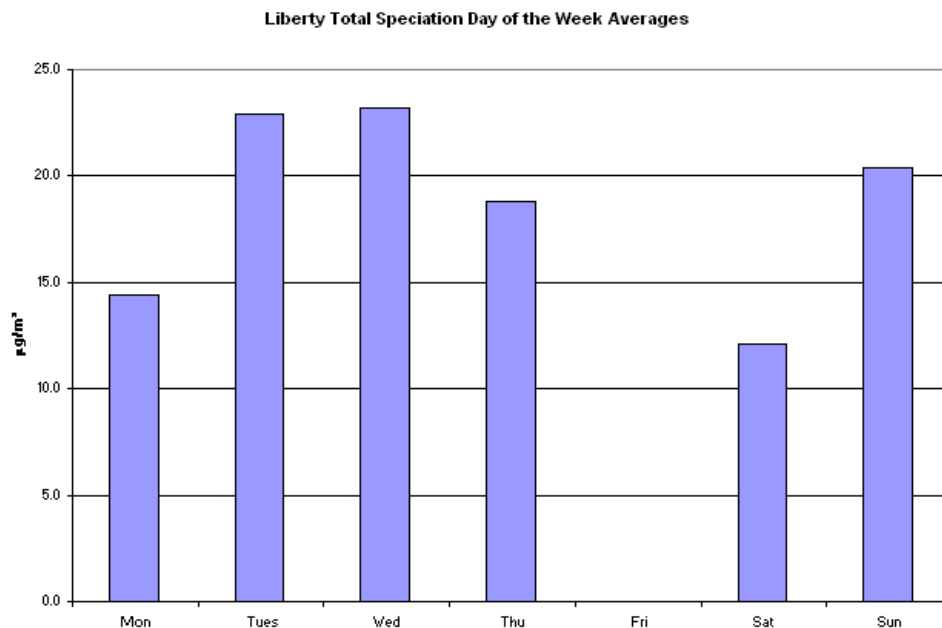
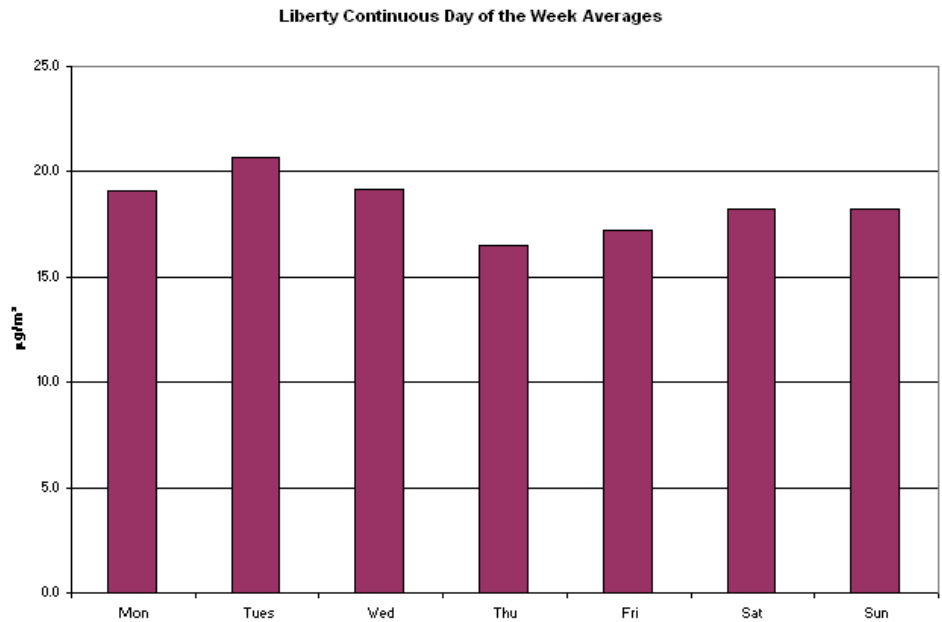


The adjusted column chart above represents a more specific analysis of days with or without school bus emissions during the course of a school year (autumn through spring).

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

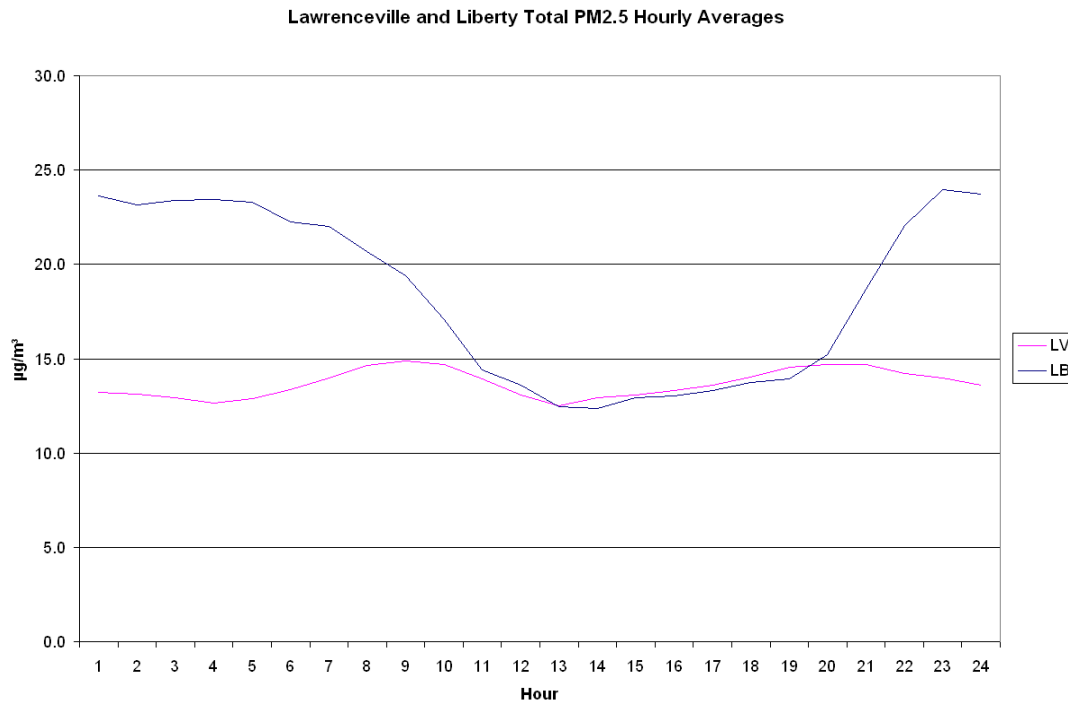
Below are column charts of average total PM<sub>2.5</sub> concentrations for the continuous and speciation monitors.



Total PM<sub>2.5</sub> 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.

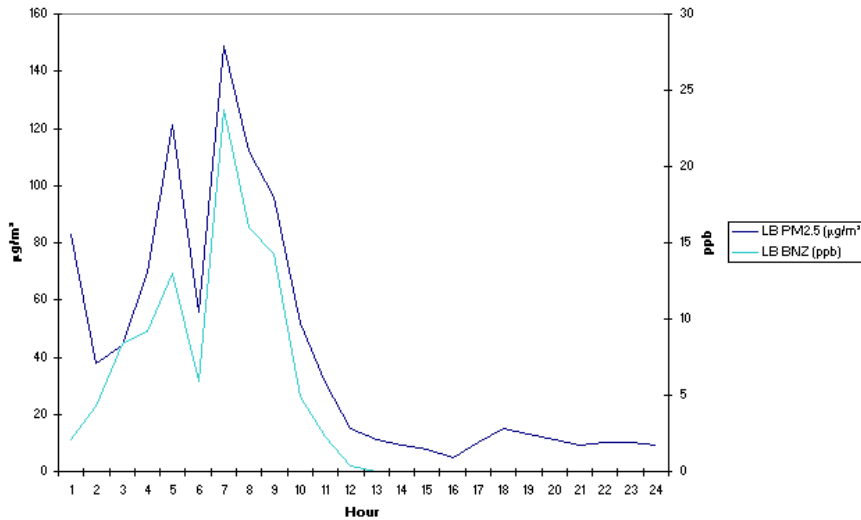
Benzene concentrations on the hourly plots represent gaseous benzene only.

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

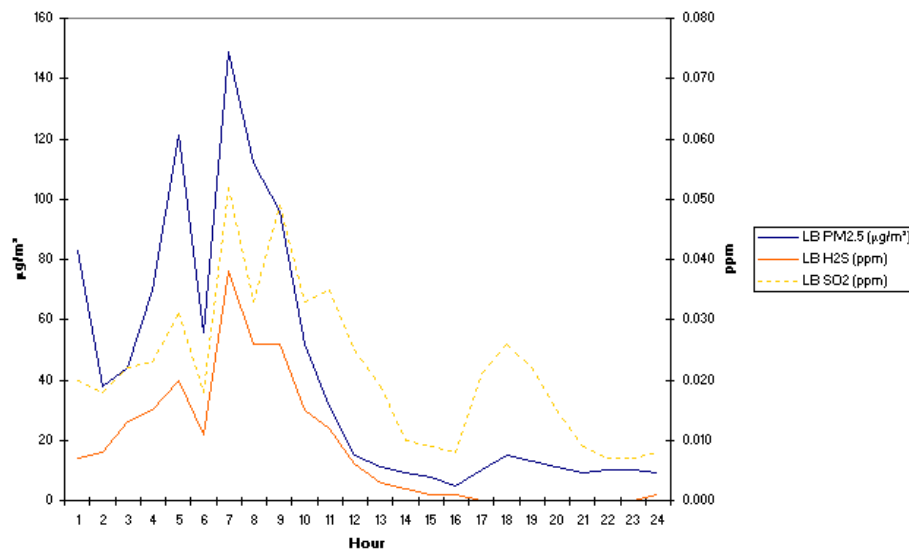
**SAMPLING DATE: 11/23/03**

Total PM<sub>2.5</sub> Speciation ..... 53.5 µg/m<sup>3</sup>  
 Resultant wind speed ..... 3.1 mph  
 Resultant wind direction ..... 164°  
 Wind persistence ..... 0.89

Liberty PM2.5 and Benzene, Hourly, 11/23/04



Liberty PM2.5, H2S, and SO2, Hourly, 11/23/03



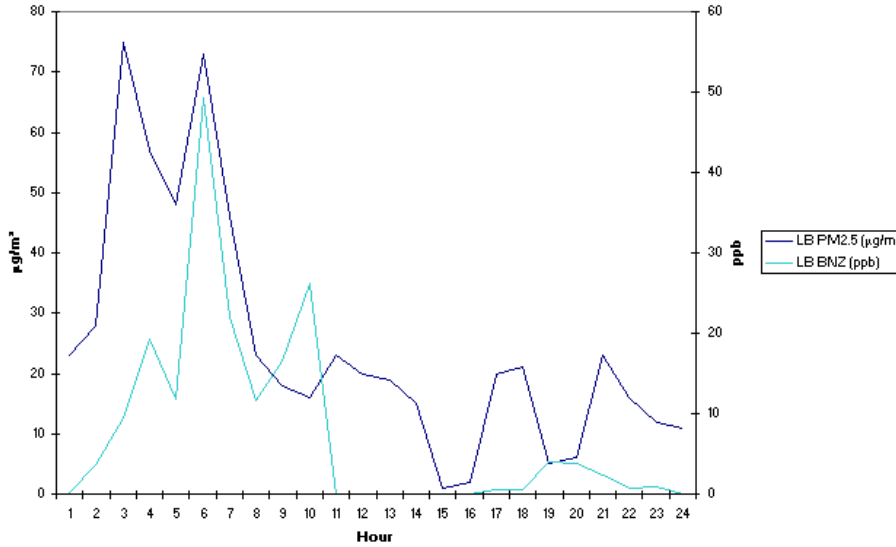
On this date, a morning inversion led to high total PM<sub>2.5</sub>, benzene, and H<sub>2</sub>S. Winds were persistent and from the south-southeast.



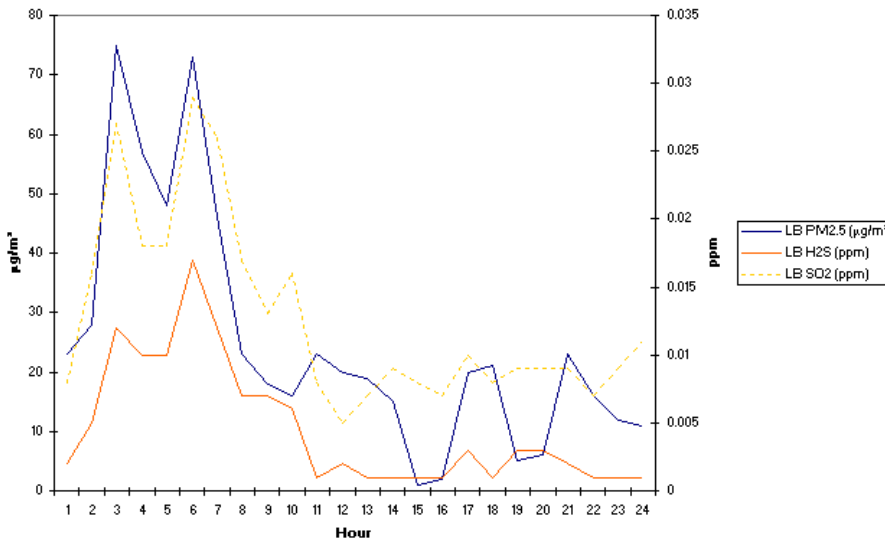
**SAMPLING DATE: 2/9/04**

Total PM<sub>2.5</sub> Speciation ..... 29.5 µg/m<sup>3</sup>  
 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

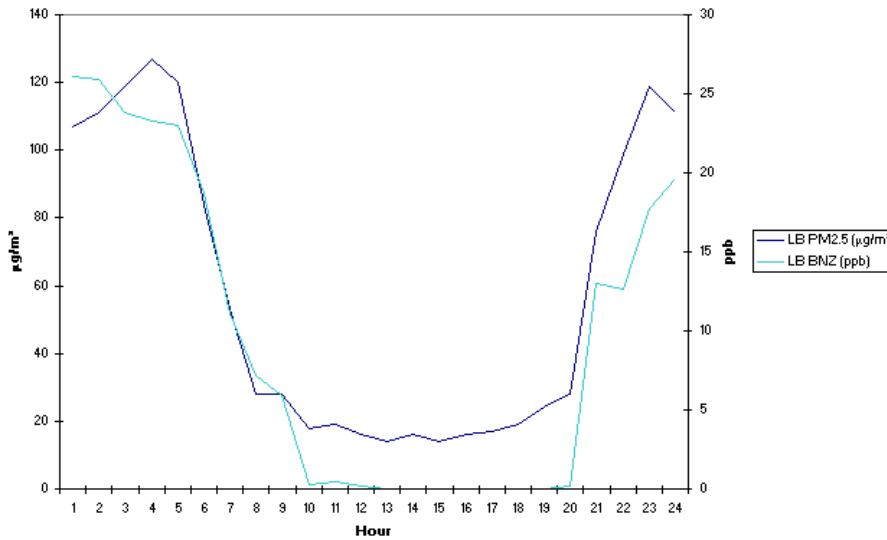


On 2/9/04, a morning inversion led to high total PM<sub>2.5</sub>, benzene, and H<sub>2</sub>S. Winds were persistent, strong, and from the south-southwest.

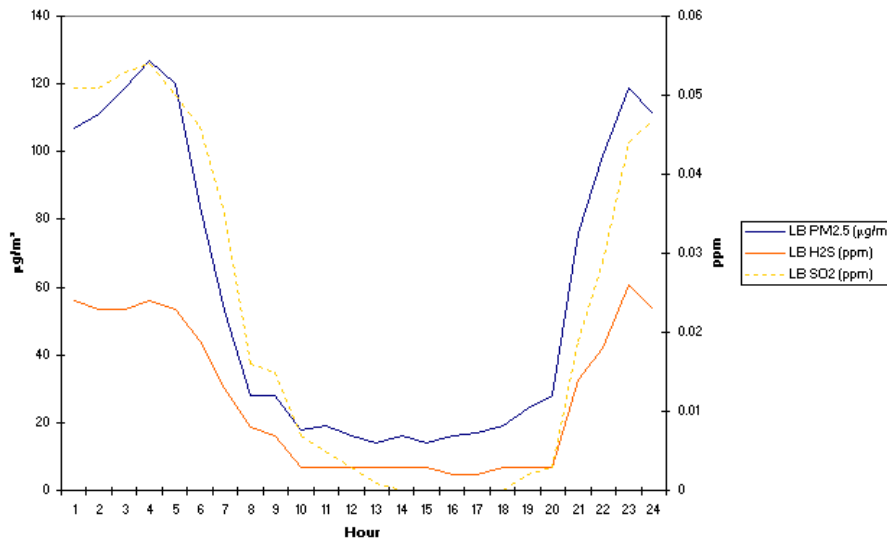
**SAMPLING DATE: 5/9/04**

Total PM<sub>2.5</sub> Speciation ..... 58.0 µg/m<sup>3</sup>  
 Resultant wind speed ..... 5.1 mph  
 Resultant wind direction ..... 227°  
 Wind persistence ..... 0.95

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



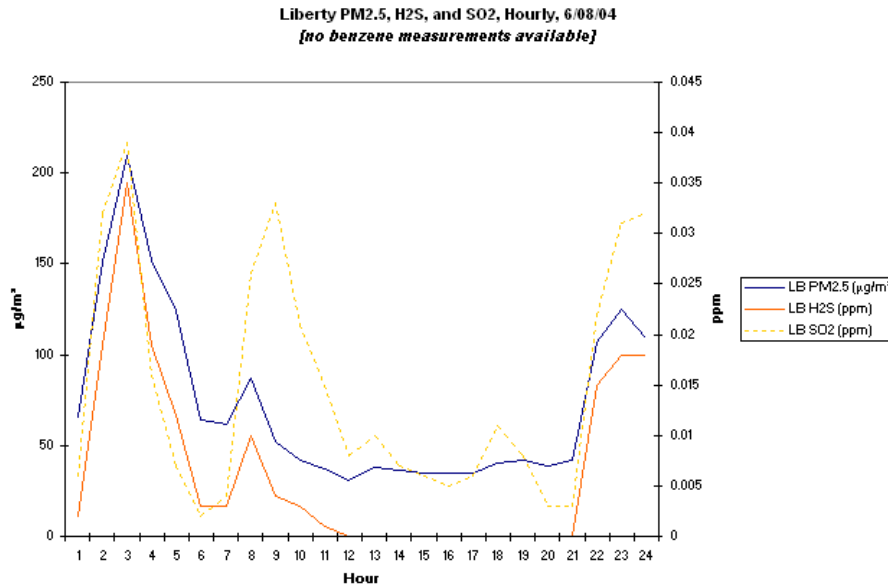
Liberty PM2.5, H2S, and SO2, Hourly, 5/9/04



On this date, nighttime inversions led to high total PM<sub>2.5</sub>, benzene, and H<sub>2</sub>S. Winds were persistent, strong, and from the southwest. All pollutants track together.

**SAMPLING DATE: 6/8/04**

Total PM<sub>2.5</sub> Speciation ..... 75.0 µg/m<sup>3</sup>  
 Resultant wind speed ..... 2.8 mph  
 Resultant wind direction ..... 212°  
 Wind persistence ..... 0.97

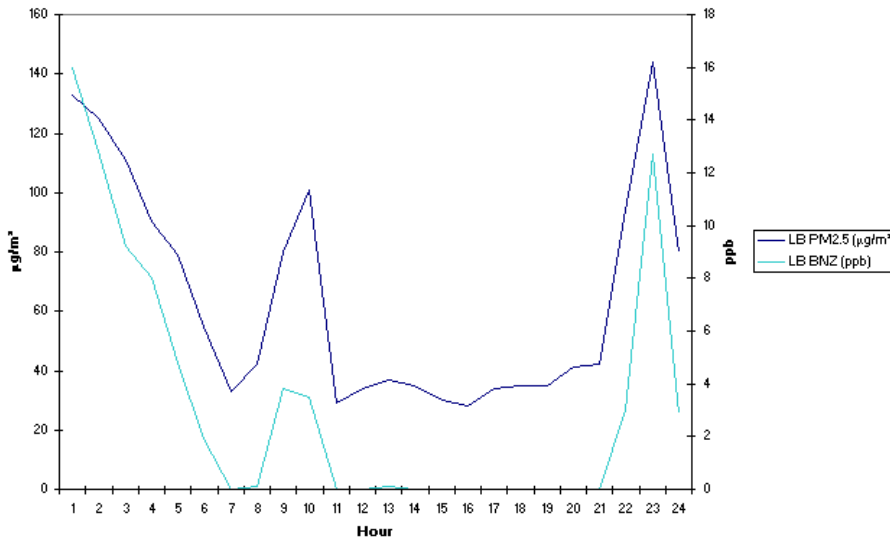


On 6/8/04, nighttime inversions led to very high total PM<sub>2.5</sub> and H<sub>2</sub>S concentrations. Winds were persistent and from the south-southwest.

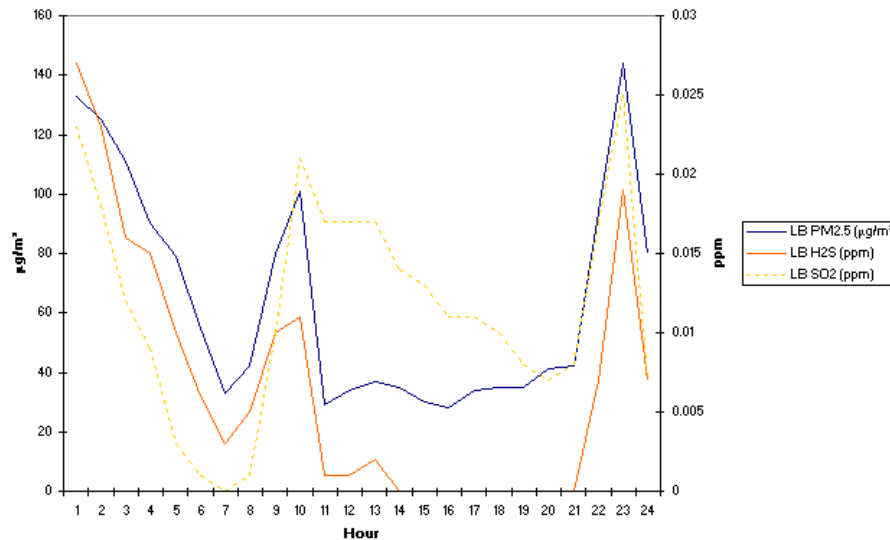
**SAMPLING DATE: 9/12/04**

Total PM<sub>2.5</sub> Speciation ..... 64.2 µg/m<sup>3</sup>  
 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**

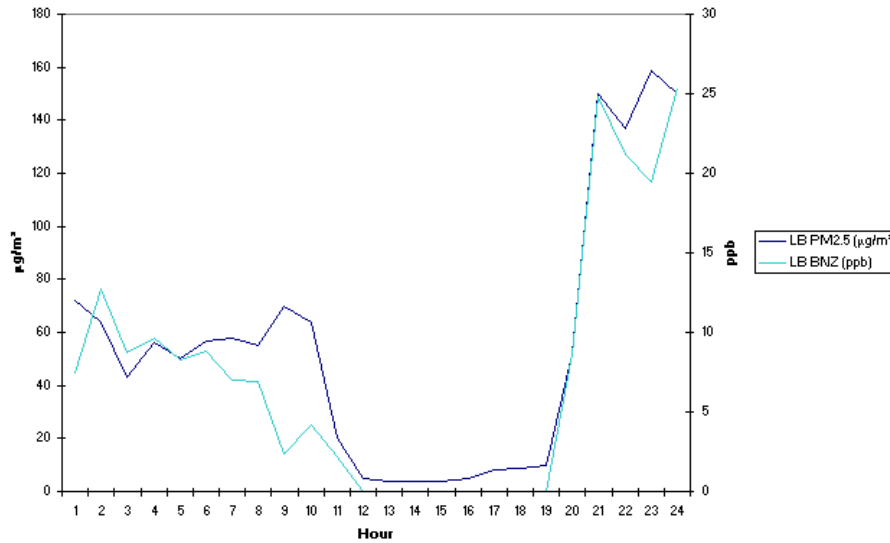


On this date, nighttime inversions led to high total PM<sub>2.5</sub>, benzene, and H<sub>2</sub>S concentrations. Winds were fairly persistent, weak, and from the south-southwest.

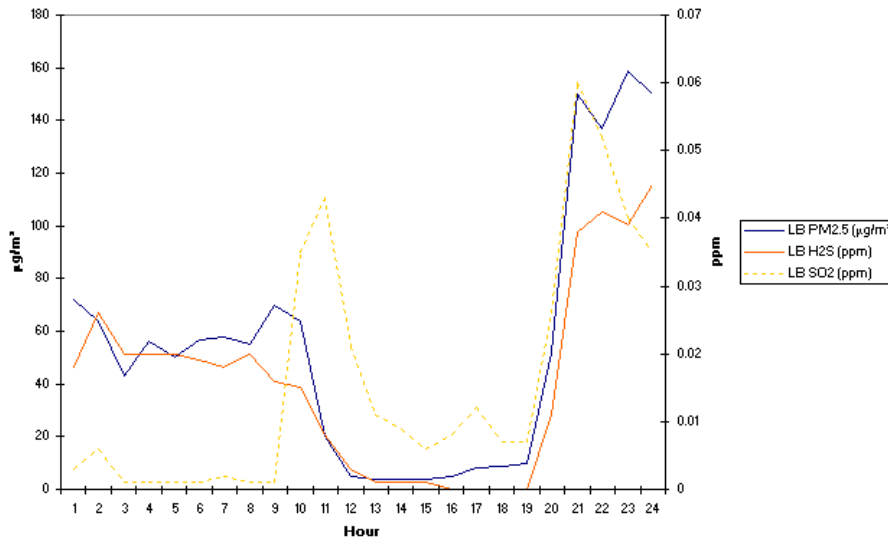
**SAMPLING DATE: 10/6/04**

Total PM<sub>2.5</sub> Speciation ..... 54.2 µg/m<sup>3</sup>  
 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

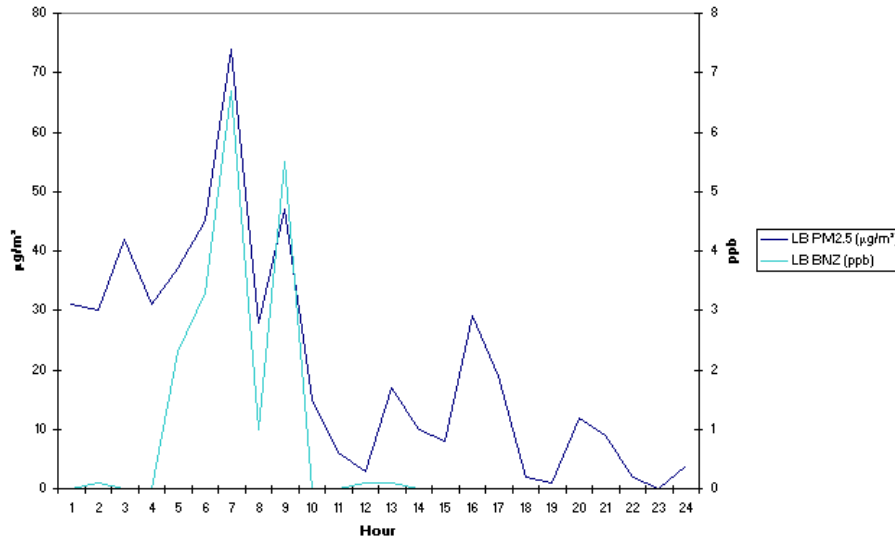


On 10/6/04, nighttime inversions led to high total PM<sub>2.5</sub>, benzene, and H<sub>2</sub>S concentrations. Winds were persistent, weak, and from the south-southwest.

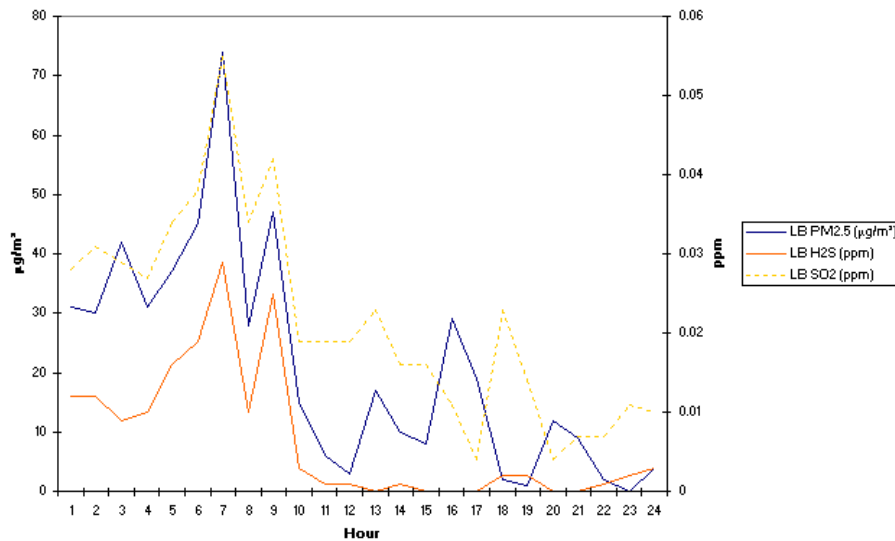
DATE: 11/11/04

Total PM<sub>2.5</sub> Speciation ..... 30.1 µg/m<sup>3</sup>  
 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<sub>2.5</sub>, benzene, and H<sub>2</sub>S 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](mailto:jmaranche@achd.net).

For general information about PM<sub>2.5</sub> and air quality, visit EPA's web site: [www.epa.gov](http://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<sub>2.5</sub> speciation collection and analysis methods, visit RTI's web site: [www.rti.org](http://www.rti.org).



# 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%, PM<sub>10</sub> 40% and volatile organic compounds 46%. Sulfur dioxide (SO<sub>2</sub>) 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. SO<sub>2</sub> 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; PM<sub>10</sub>, 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.

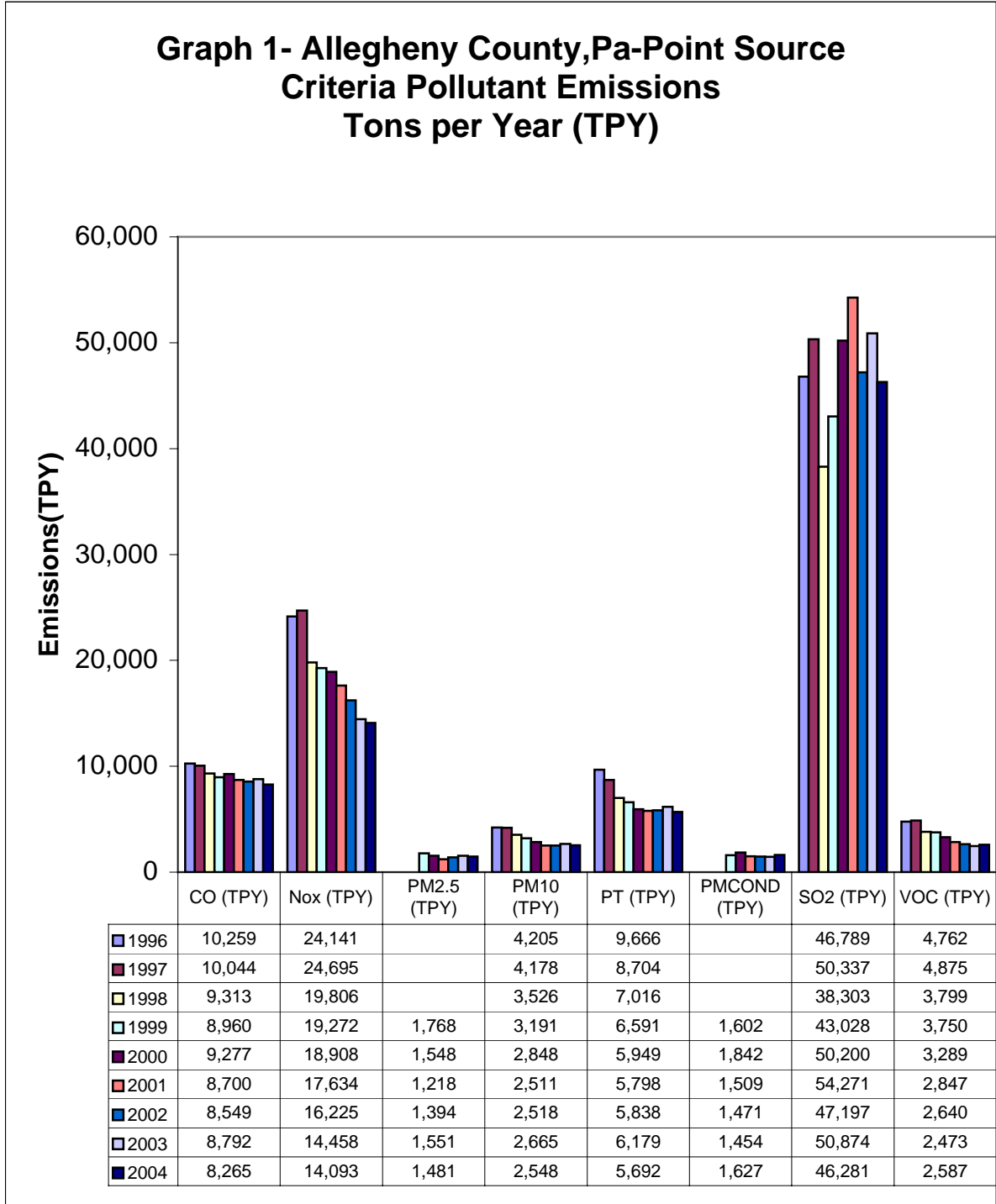
- Section I – Point source Criteria Emission Trends
- Section II – Point Source Criteria emissions by Industry Sector
- Section III- Sources and Form of Particulate Emissions- PM<sub>10</sub>, PM<sub>2.5</sub>, filterable and condensable.
- Section IV – Point source HAP Emissions
- Section V – Point 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<sub>x</sub> – emissions of oxides of nitrogen reported as nitrogen dioxide
- PM<sub>2.5</sub> – filterable particulate with an aerodynamic diameter less than 2.5 microns
- PM<sub>10</sub> - 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.
- SO<sub>2</sub>- 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**

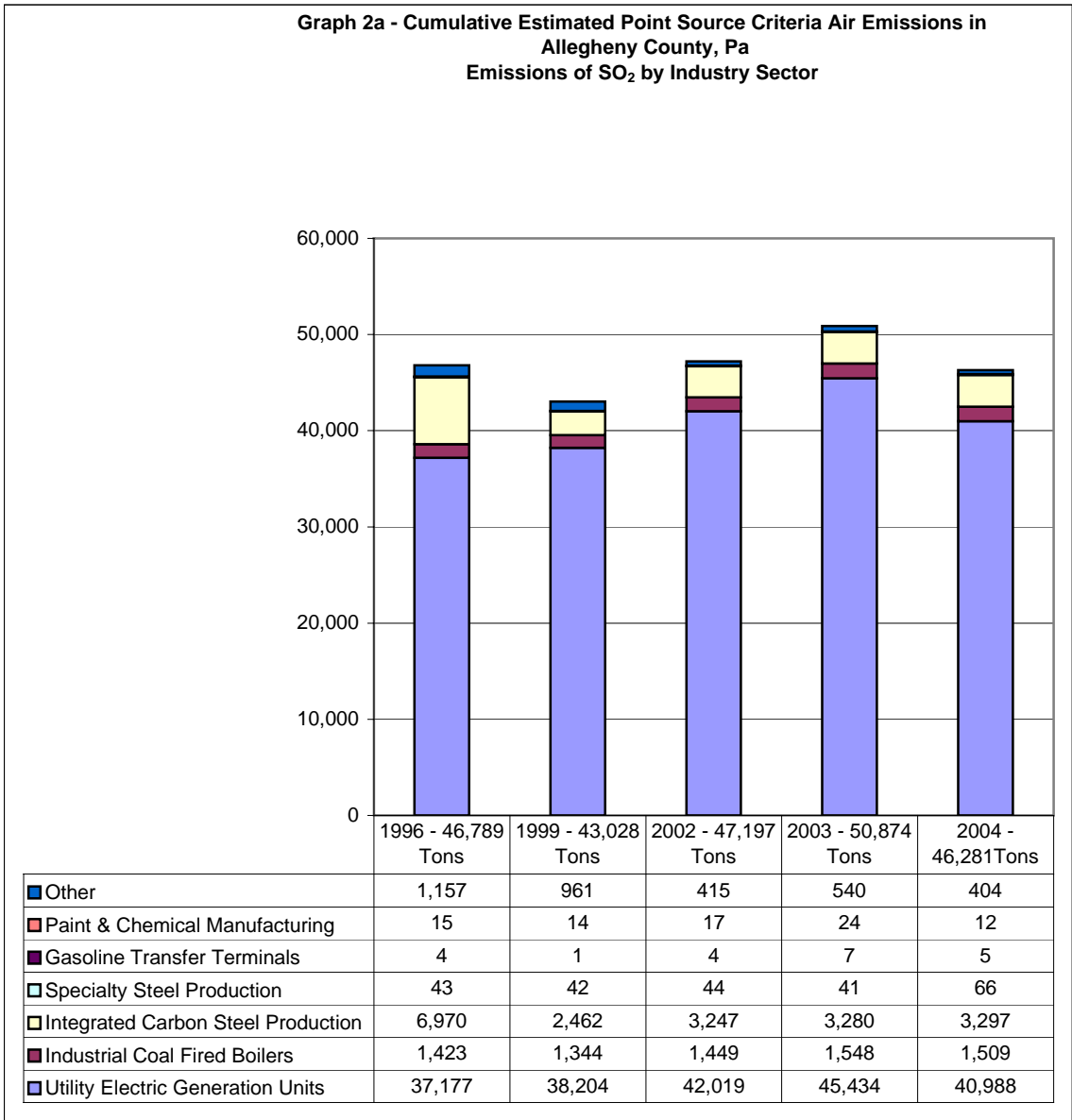
| 1996<br>Base Year<br>(Tons/Yr) | Pollutant |                 |                   |                  |        |        |                 |        |
|--------------------------------|-----------|-----------------|-------------------|------------------|--------|--------|-----------------|--------|
|                                | CO        | NO <sub>x</sub> | PM <sub>2.5</sub> | PM <sub>10</sub> | PT     | PMCOND | SO <sub>2</sub> | VOC    |
|                                | 10,259    | 24,141          |                   | 4,205            | 9,666  |        | 46,789          | 4,762  |
| <b>1997</b>                    | -2.1%     | 2.3%            |                   | -0.7%            | -9.9%  |        | 7.6%            | 2.4%   |
| <b>1998</b>                    | -9.2%     | -18.0%          |                   | -16.2%           | -27.4% |        | -18.1%          | -20.2% |
| <b>1999</b>                    | -12.7%    | -20.2%          | 1,768             | -24.1%           | -31.8% | 1,602  | -8.0%           | -21.3% |
| <b>2000</b>                    | -9.6%     | -21.7%          | -12.5%            | -32.3%           | -38.5% | 15.0%  | 7.3%            | -30.9% |
| <b>2001</b>                    | -15.2%    | -27.0%          | -31.1%            | -40.3%           | -40.0% | -5.8%  | 16.0%           | -40.2% |
| <b>2002</b>                    | -16.7%    | -32.8%          | -21.2%            | -40.1%           | -39.6% | -8.2%  | 0.9%            | -44.6% |
| <b>2003</b>                    | -14.3%    | -40.1%          | -12.2%            | -36.6%           | -36.1% | -9.2%  | 8.7%            | -48.1% |
| <b>2004</b>                    | -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.

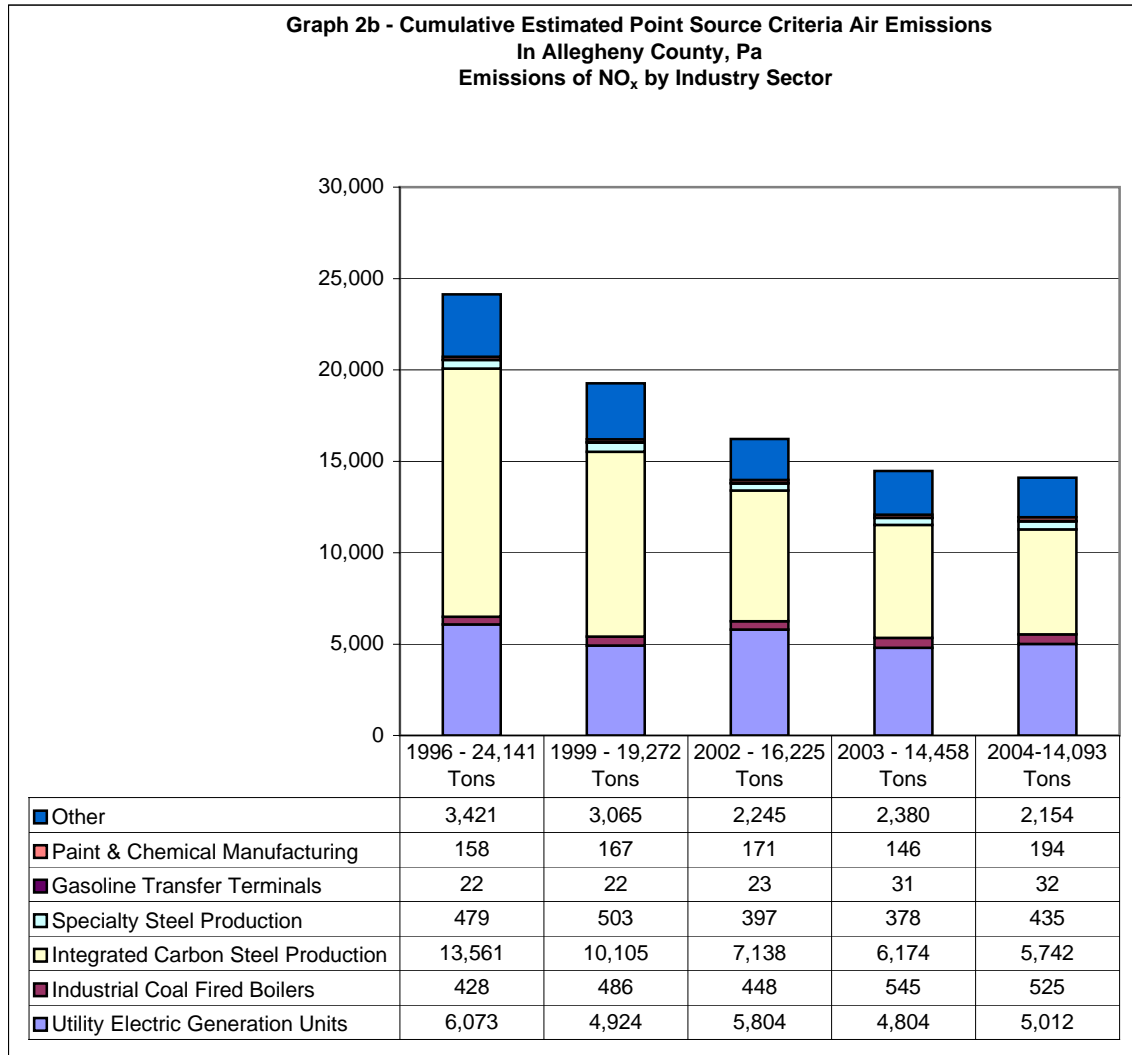
Sulfur Dioxide



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 SO<sub>2</sub> emissions from other point sources in the County and determine the overall direction of SO<sub>2</sub> 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.

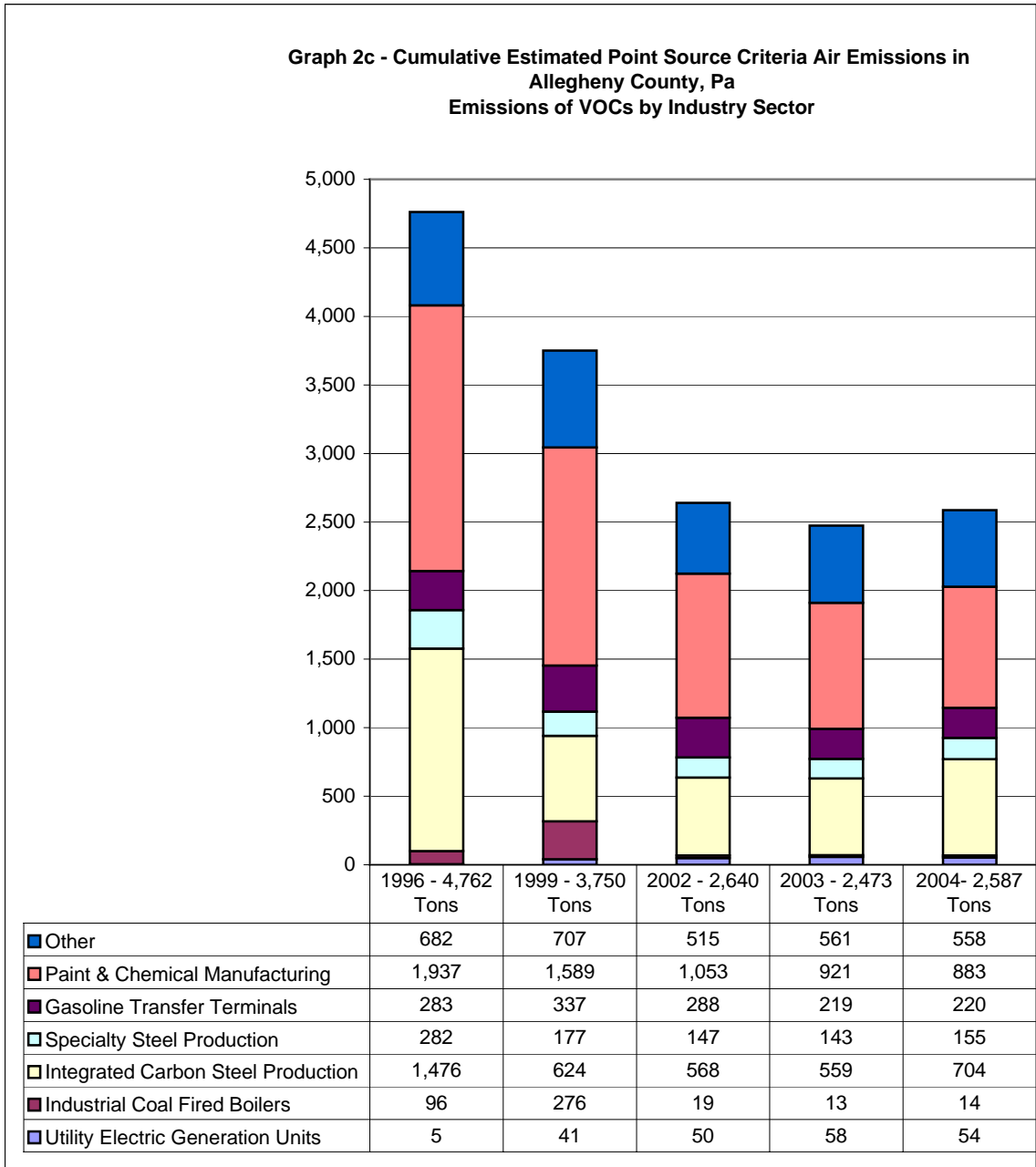
## Nitrogen Dioxide



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.

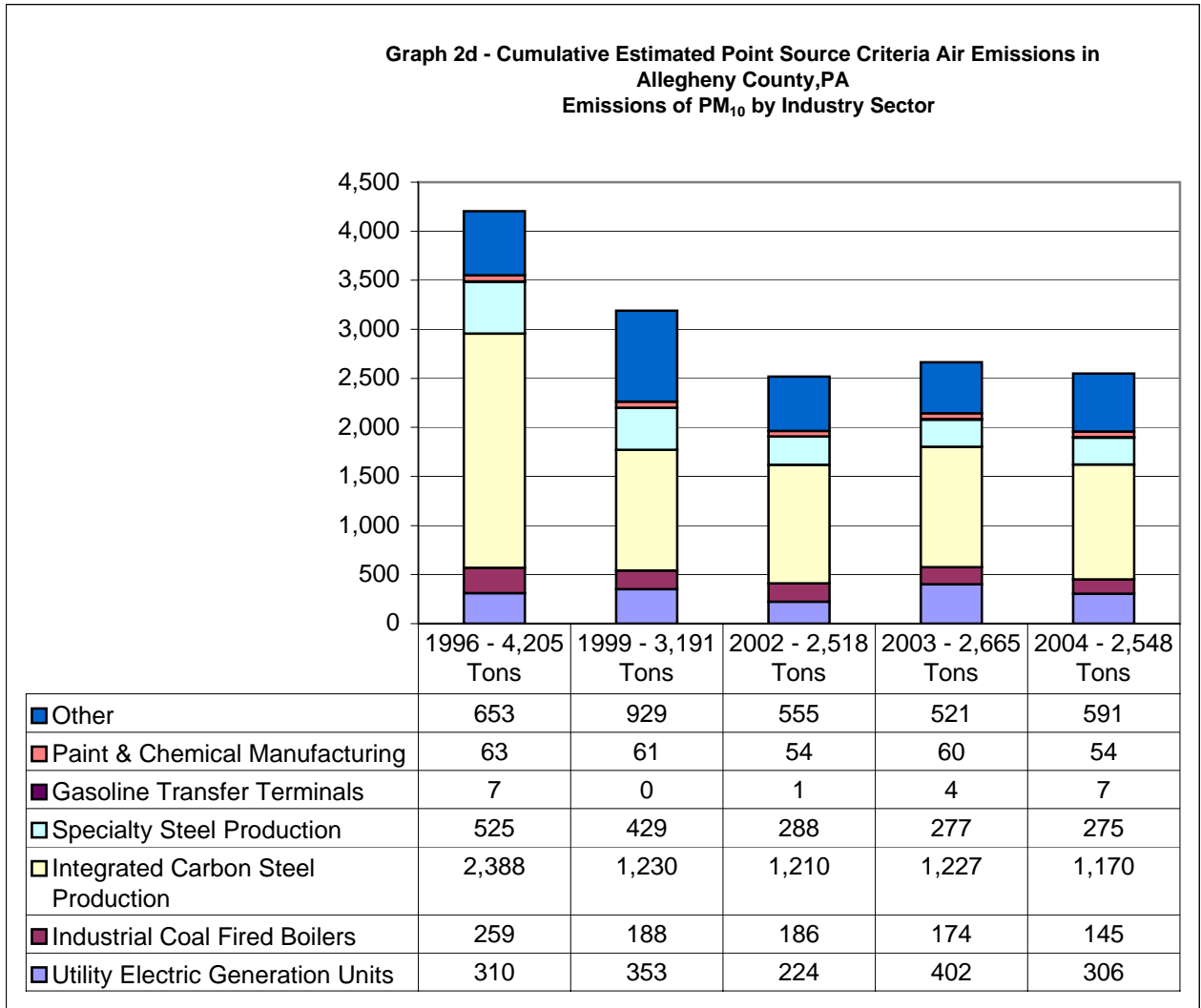
a) Volatile Organic Compounds (VOCs)



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.

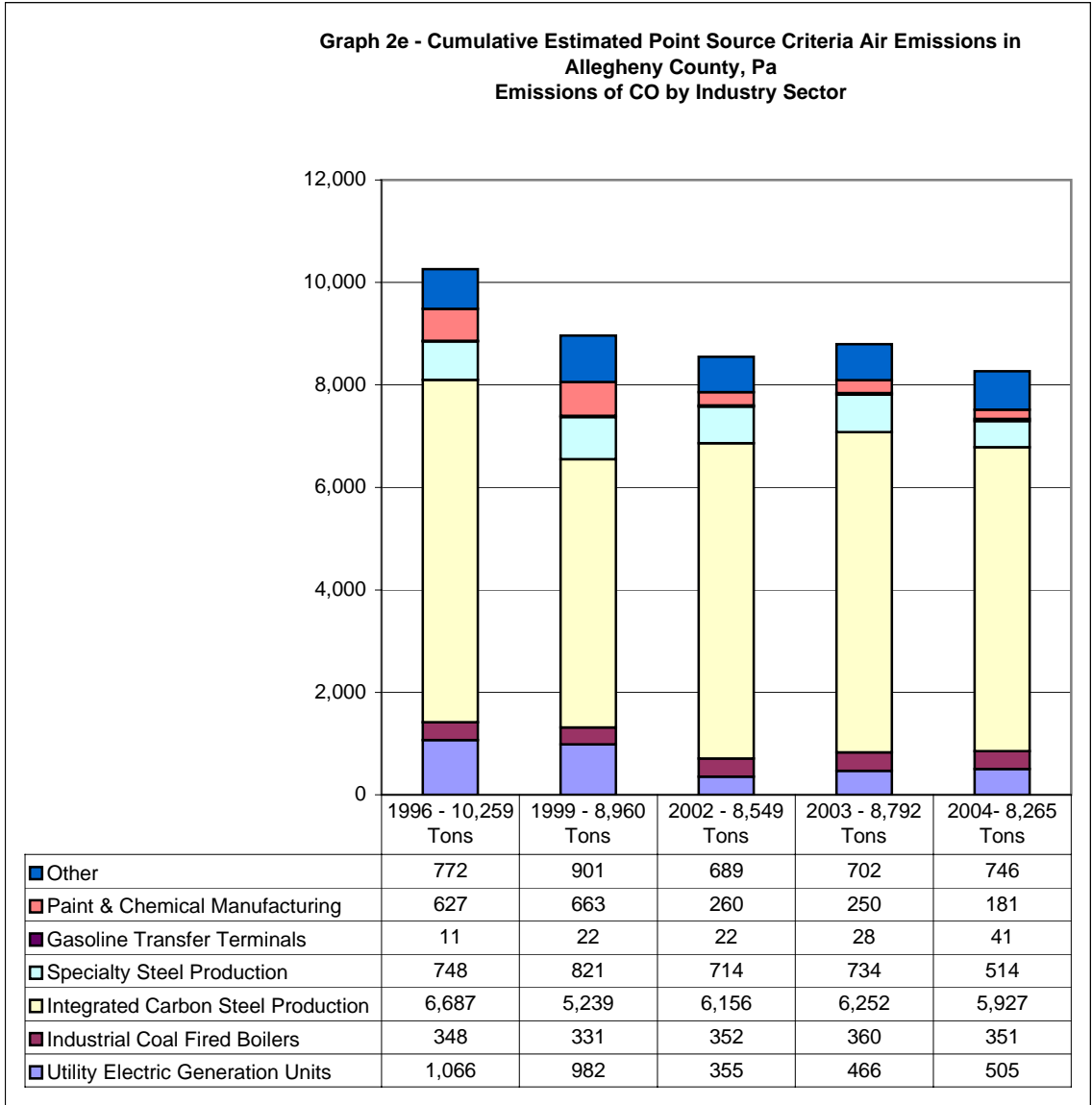


b) PM10



In 2004 PM<sub>10</sub> 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%.

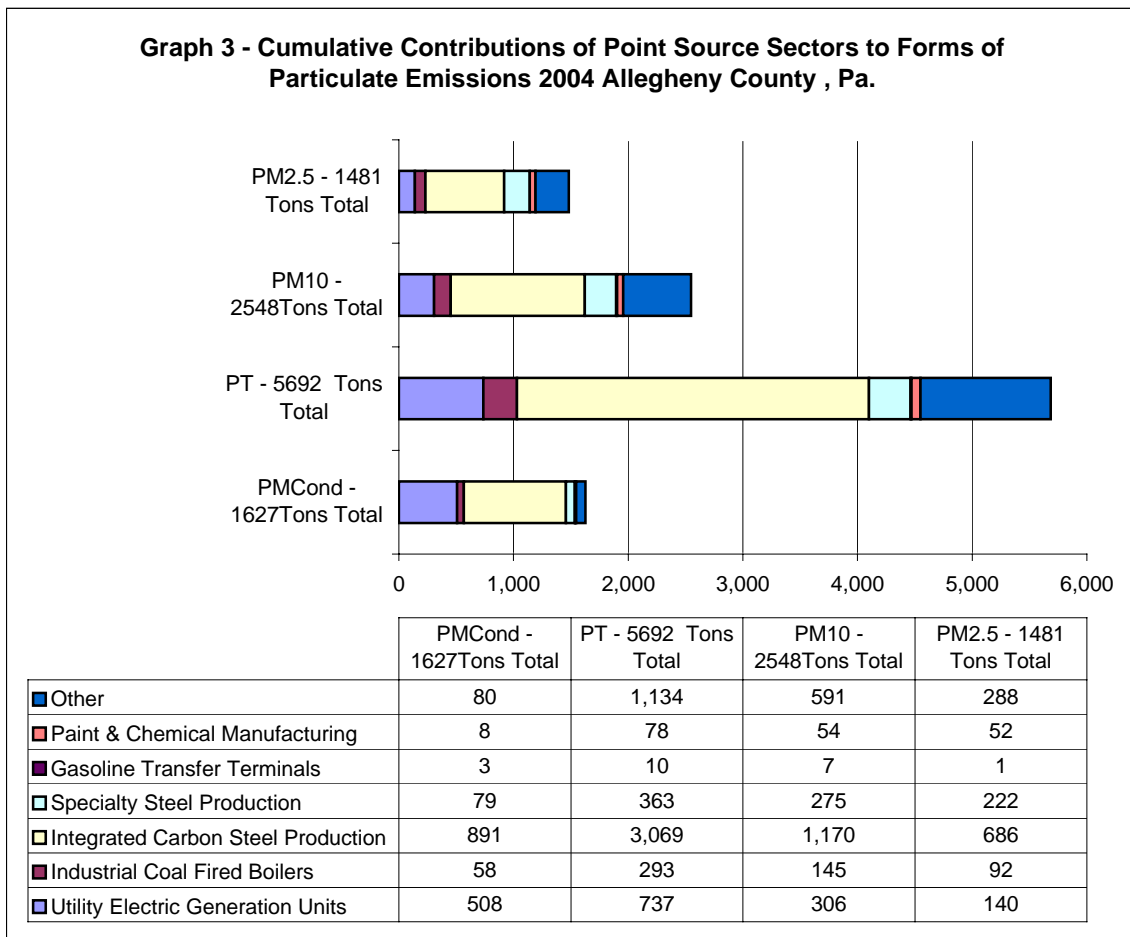
Section III Particulate Emissions and Their Sources

In the Allegheny County Emission Inventory, four forms of particulate matter are reported. These are total particulate (PT), condensable particulate (PMCond), PM<sub>10</sub> and PM<sub>2.5</sub>. 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.
- PM<sub>10</sub> - fraction of filterable particulate with an aerodynamic diameter less than 10 microns
- PM<sub>2.5</sub> – 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.

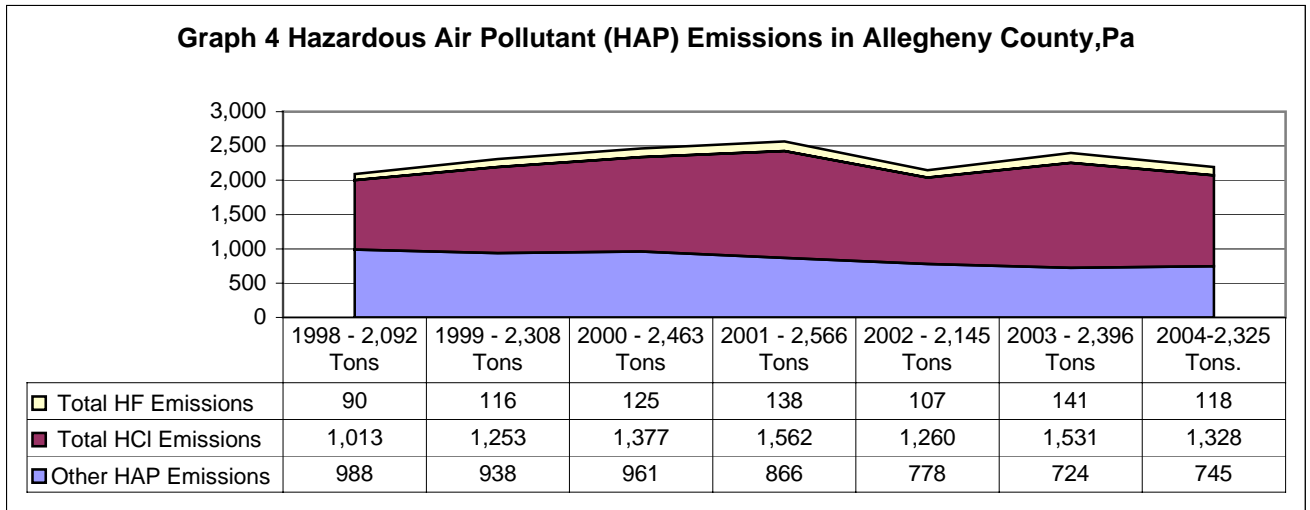
HAP reporting requirements became more stringent with the 1999 Emission Inventory. Speciation for some compounds was introduced. So HAP emission estimates prior to 1999 are not comparable to those of previous years.

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

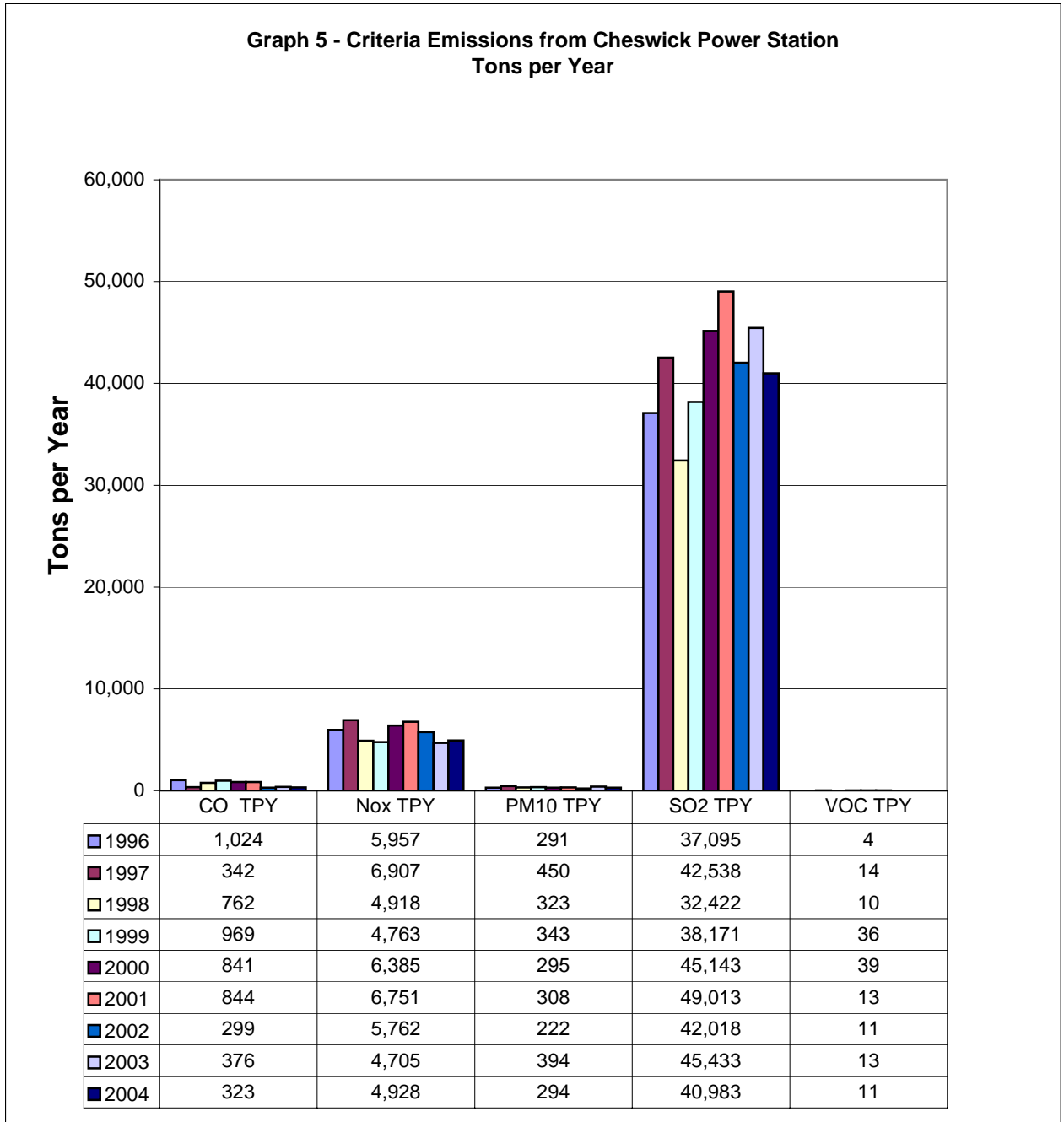
Graph 4 illustrates HAP emissions trends in Allegheny County.



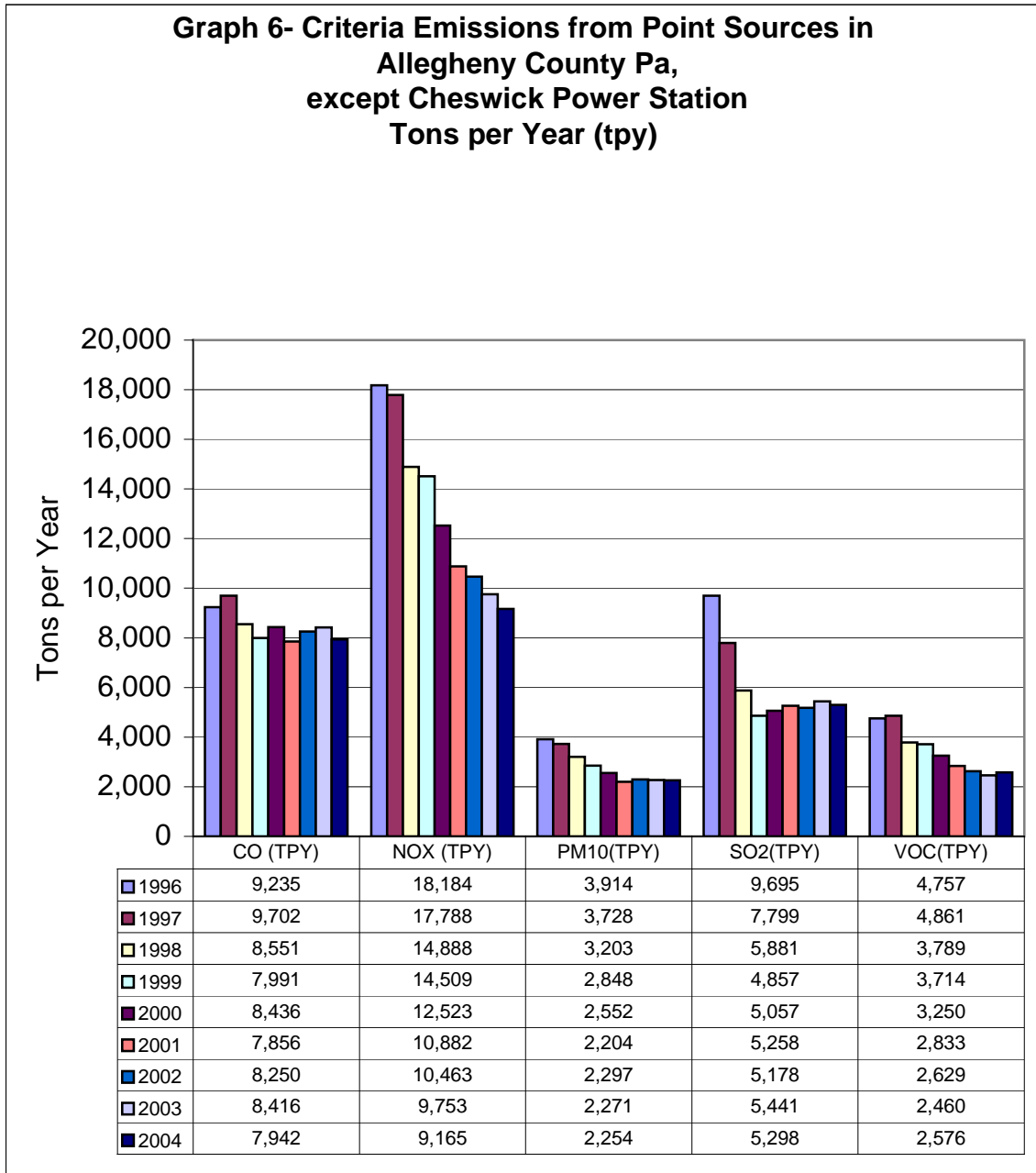
HF and HCl constitute 62% of total HAP emissions from County sources for the period 1998-2004. In 2003 and 2004 emissions of these two compounds from the Cheswick Power Station accounted for 40 % of total HAP emissions reported by point sources. The three largest sources of HCl and HF emissions are the 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, PM<sub>10</sub>, 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.

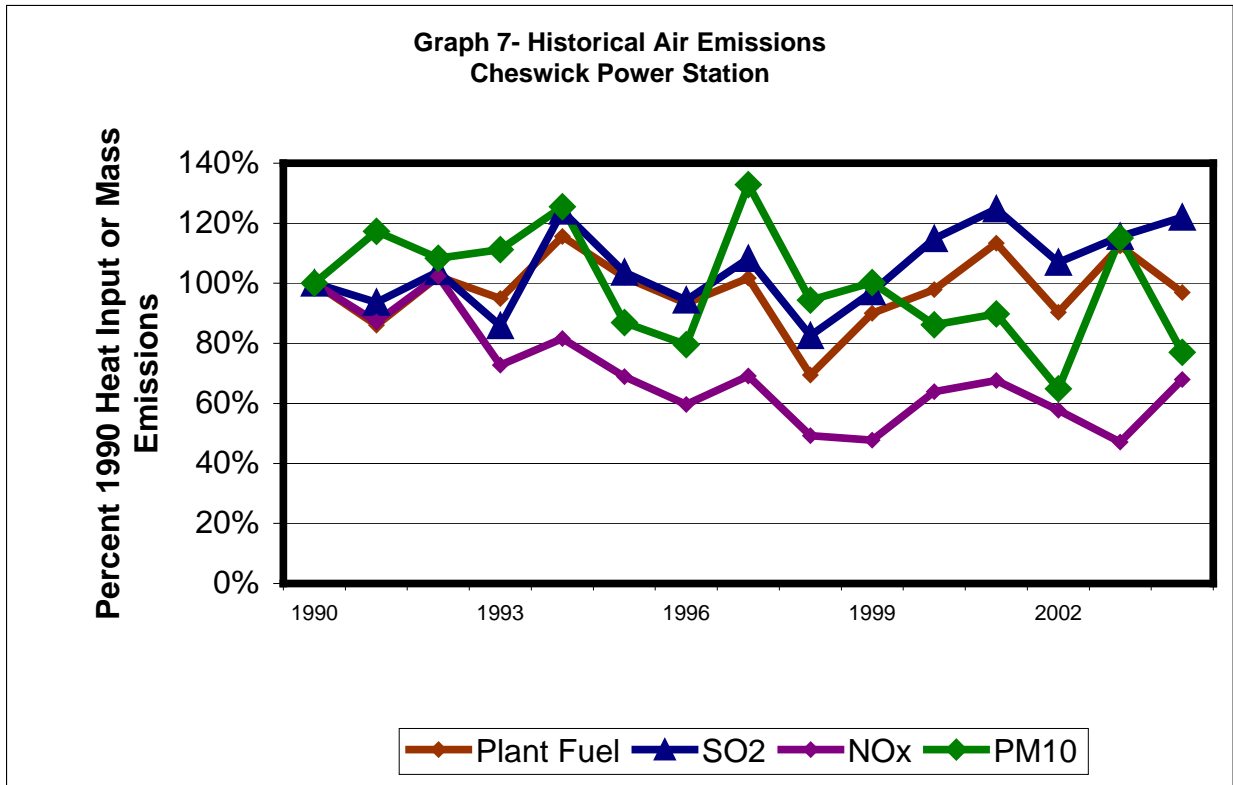


By comparison Graph 6 shows criteria emissions from all the other sources in the County.



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<sub>x</sub> emissions increased particulate emissions. In 2004 NO<sub>x</sub> 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<sub>2.5</sub> 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. PM<sub>10</sub> - Filterable particulate with aerodynamic diameter less than 10 microns.
  - 4.5. PM<sub>2.5</sub> - 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

# 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 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 |                          |                                  |
|  |                         |       | 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. FORMERLY HEIGHTS PLAZA MATERIALS, INC | GRADED AGGREGATE        | 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  |        |      |       |                          |                                  |

# 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   |                          |                               |
| ALLEGHENY .<br>ASPHALT MFG. INC        | BITUMINOUS MFG PLANT     | 15219 | 1998              | 5.04                        | 2.70  |       | 0.74  | 1.62  |        | 0.30  | 4.62  | 2951                     | Paving Mixtures<br>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<br>AIRPORT AUTHORITY  | COMBINATION UTILITY      | 15231 | 1998              | 8.05                        | 14.06 |       | 0.18  | 0.18  |        | 0.06  | 0.53  | 4581                     | Airports, Flying<br>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<br>SANITARY AUTHORITY | ALLEGHENY COUNTY SANIT/  | 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<br>SPRINGDALE CGT    | GAS/OIL COMBUST. TURBINE | 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 |                          |                               |

# 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 Industrial Code                        | SIC Description                           |
|---------------------------------------|-----------------------------|-------|-------------------|-----------------------------|--------|--------|--------|--------|--------|-------|--------|---|---|
|                                       |                             |       |                   | CO                          | NOx    | PM2.5  | PM10   | PT     | PMCond | SO2   |        |   |   |
| ALLEGHENY LUDLUM CORP<br>BRACKENRIDGE | ALLEGHENY LUDLUM CORP       | 15014 | 1996              | 653.98                      | 442.58 |        | 472.32 | 555.57 |        |       | 41.84  | 255.82  | 3312<br>Blast Furnaces<br>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<br>SPRINGDALE STATION | OIL FIRED UTILITY STATION   | 15144 | 1996              | 0.00                        | 0.00   |        | 0.00   | 0.00   |        | 0.00  | 0.00   | 4911<br>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<br>HOSPITAL          | HEALTH CARE FACILITY        | 15065 | 1998              | 1.89                        | 2.25   |        | 0.04   | 0.04   |        | 0.01  | 0.12   | 8062<br>General Medical &s<br>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<br>AND PKG | 15056 | 1998              |                             |        |        | 3.91   | 5.11   |        |       |        | 3295<br>Minerals, Ground<br>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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## Point Source Criteria Air Emission Report 1996-2004

| 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  |       |      |                                     |                 |
| AMERICAN BRIDGE<br>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<br>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<br>FERROUS RECYCLG | 15225 | 1998              | 5.17                        | 7.46 |       | 4.40  | 6.00  |        | 0.15 | 0.43  | 3341 | Secondary<br>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<br>RESEARCH LAB | R&DCOMMERCIAL<br>CHEM PRD    | 15146 | 1996              |                             | 0.28 |       | 0.00  | 0.00  |        |      | 7.09  | 8731 | Commercial<br>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<br>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<br>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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## Point Source Criteria Air Emission Report 1996-2004

| 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  |        |                          |  |
| ASHLAND SPECIALTY<br>CHEMICAL CO - NEVILLE | ASHLAND CHEMICAL CO          | 15225 | 1996              | 504.89                      | 39.00 |       | 1.56 | 1.56 |        |      | 0.13   | 99.48                    | 2865<br>Cyclic Crudes<br>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<br>TECHNOLOGIES           | AUTOMOTIVE<br>PARTS REFURBIS | 15206 | 1998              | 0.03                        | 0.23  |       | 0.23 | 0.27 |        |      | 0.34   | 1.85                     | 3714<br>Motor Vehicle<br>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.<br>RIDC PARK. OHARA TWP     | BACHARACH INC.<br>RIDC PARK  | 15238 | 1996              | 0.16                        | 0.79  |       | 0.02 | 0.02 |        |      | 0.00   | 0.20                     | 3823<br>Process Control<br>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<br>MANUFACT | 15206 | 1996              | 1.91                        | 8.07  |       | 0.36 | 0.36 |        |      | 0.04   | 8.73                     | 2052<br>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   | 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   |                          |  |

# 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   |                          |                              |
| 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  |                          |                              |
| 2004                             | 172.78                  | 272.02 | 32.08             | 53.22                       | 116.72 | 27.84 | 760.03 | 2.72   |        |        |       |                          |                              |
| 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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## Air Quality Program

### Point Source Criteria Air Emission Report 1996-2004

| 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   |       |                          |                                 |  |
| 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.<br>NORTH AMERICA INC       | BP CORAOPOLIS TERMINAL        | 15108 | 1996              | 0.01                        | 0.04  |       | 0.12  | 0.01   |        |       | 0.14  | 28.33                    | 5171                            | Petroleum Bulk<br>Stations & Terminals |
|   |                               |       | 1997              | 0.21                        | 0.25  |       | 0.12  | 0.12   |        | 0.00  | 29.50 |                          |                                 |  |
|   |                               |       | 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 .<br>RECOVERY, INC   | 15104 | 1998              | 1.84                        | 8.00  |       | 3.55  | 6.63   |        | 1.30  | 0.12  | 3399                     | Primary Metal<br>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<br>PIPELINE FACILITY | REFINED PET.<br>PIPELINE FAC. | 15108 | 1998              | 2.00                        | 4.90  |       |       |        |        |       | 37.45 | 4613                     | Refined Petroleum<br>Pipe Lines |  |
|   |                               |       | 1999              | 1.69                        | 4.22  |       |       |        |        |       | 40.71 |                          |                                 |  |
|   |                               |       | 2000              | 0.49                        | 1.21  |       |       |        |        |       | 33.58 |                          |                                 |  |
|   |                               |       | 2001              | 0.78                        | 1.96  |       |       |        |        |       | 31.05 |                          |                                 |  |
|   |                               |       | 2002              | 1.76                        | 4.39  |       |       |        |        |       | 33.61 |                          |                                 |  |
|   |                               |       | 2003              | 2.77                        | 6.93  |       |       |        |        |       | 34.79 |                          |                                 |  |
|   |                               |       | 2004              | 2.38                        | 5.94  |       |       |        |        |       | 27.81 |                          |                                 |  |

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## 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  |                          |                                    |
| 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.<br>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,<br>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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## Air Quality Program

### Point Source Criteria Air Emission Report 1996-2004

| 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   |       |      |                                      |                 |
| 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 |      |                                      |                 |
| 2004   | 13.46                     | 56.36 | 16.32             | 47.36                       | 92.03 | 0.96  | 13.26 | 9.93   |        |       |       |      |                                      |                 |
| 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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Air Quality Program

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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  |       |      |                                 |                                |
| 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 | MFGR 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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| 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    |                          |                                   |
| DICE COMPRESSOR STATION                    | COMPRESSION OF L<br>NG IN WEL | 15239 | 1996              | 4.63                        | 45.91  |       | 0.02   | 0.02   |        | 0.01     | 4.11   | 4924                     | Natural Gas<br>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<br>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<br>SERVICES       | 15282 | 1998              | 6.87                        | 20.42  |       | 4.13   | 4.13   |        | 0.17     | 1.61   | 8221                     | Colleges And<br>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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| 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    |                          |                               |                                       |
| 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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## 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   |                          |                                       |
| 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  |                          |                                       |
| 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,<br>LIGHTING     | BRIDGEVILLE T<br>GLASS PLAN   | 15017 | 1996              | 8.73                        | 232.41 |       | 22.20  | 27.80 |        | 4.10  | 1.52  | 3229                     | Pressed And<br>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<br>APPARATUS SERVICE | REPAIR ELECTR.<br>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<br>PITTSBURGH PLANT    | GENERAL MOTORS<br>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  |                          |                                 |



# 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    |                          |                          |                                     |
| 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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## Air Quality Program

### Point Source Criteria Air Emission Report 1996-2004

| 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  |        |       |                                       |                        |
| 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  |       |                                       |                        |

# 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 Industrial Code | SIC Description                   |  |      |       |      |                          |
|-------------------------------------|--------------------------|-------|-------------------|-----------------------------|-------|-------|-------|--------|--------|------|-------|-------|--------------------------|-----------------------------------|--|------|-------|------|--------------------------|
|                                     |                          |       |                   | CO                          | NOx   | PM2.5 | PM10  | PT     | PMCond | SO2  |       |       |                          |                                   |  |      |       |      |                          |
| HUSSEY COPPER LTD.                  | HUSSEY COPPER LTD.       | 15056 | 1996              | 8.73                        | 26.49 |       | 31.19 | 54.34  |        |      | 0.26  | 27.59 | 3351                     | Copper Rolling<br>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 |       |                          |                                   |  |      |       |      |                          |
| IA CONSTRUCTION<br>GIBSONIA         | HOT MIX<br>ASPHALT PLANT | 15044 | 1998              | 22.30                       | 7.44  |       | 13.53 | 36.10  |        |      | 19.02 | 10.25 | 2951                     | Paving Mixtures<br>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 |       |                          |                                   |  |      |       |      |                          |
| INTL PAPER<br>(formerly Box U.S.A.) | CORRUGATED .<br>BOX MFG  | 15215 | 1998              | 1.39                        | 1.65  |       | 5.72  | 5.72   |        |      | 0.01  | 0.57  | 2653                     | Corrugated<br>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  |       |                          |                                   |  |      |       |      |                          |

# 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 Industrial Code | SIC Description                      |
|------------------------------------|---------------------------|-------|-------------------|-----------------------------|-------|-------|-------|-------|--------|------|-------|--------------------------|--------------------------------------|
|                                    |                           |       |                   | 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  |                          |                                      |
| 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  |                          |                                      |
| 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 |        |      |       |                          |                                      |

# 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 Industrial Code | SIC Description     |                        |
|--|--------------------------|-------|-------------------|-----------------------------|---------|--------|--------|--------|--------|--------|--------|--------------------------|---------------------|------------------------|
|  |                          |       |                   | CO                          | NOx     | PM2.5  | PM10   | PT     | PMCond | SO2    |        |                          |                     |                        |
| KINDER-MORGAN LIQUIDS<br>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<br>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.<br>CLAIRTON PLANT                              | KOPPERS IND.<br>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   |        |        |        |        |        |        |                          |                     |                        |

# 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 Industrial Code       | SIC Description                    |
|----------------------------------|------------------------------|-------|-------------------|-----------------------------|-------|-------|-------|-------|--------|------|-------|-------|--------------------------------|------------------------------------|
|                                  |                              |       |                   | CO                          | NOx   | PM2.5 | PM10  | PT    | PMCond | SO2  |       |       |                                |                                    |
| LAUREL MOUNTAIN WHIRLPOOLS, INC. | WHIRLPOOL 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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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    |                          |   |
| LOZIER CORP.                                 | PARTS MANU<br>FOR STEEL FIX. | 15234 | 1996              | 0.20                        | 0.83    |       | 0.39   | 0.39    |        | 0.00    | 0.02   | 2542                     | Metal Partitions<br>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   |                          |   |
| LTV STEEL CO.<br>PITTSBURGH COKE PLANT       | LTV STEEL CO.                | 15207 | 1996              | 650.63                      | 2035.53 |       | 405.43 | 1043.90 |        | 1752.07 | 670.02 | 3312                     | Blast Furnaces<br>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<br>PET. - FLOREFFE TERMINAL | ASPHALT TERMINAL             | 15025 | 1996              | 1.09                        | 4.34    |       | 0.09   | 0.09    |        | 0.02    | 9.47   | 5171                     | Petroleum Buls<br>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.<br>DRAVOSBURG PLAN       | ASPHALT PLANT                | 15304 | 1998              | 24.81                       | 3.97    |       | 5.60   | 15.37   |        | 6.44    | 2.23   | 2951                     | Paving Mixtures<br>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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## Air Quality Program

### Point Source Criteria Air Emission Report 1996-2004

| 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  |       |      |                                       |                 |
| 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 MFGR         | 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 Medical & 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  |      |                                       |                 |



# 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   |                          |                                     |
| MID-CONTINENT<br>COAL AND COKE          | CLAIRTON SCREENING<br>PLANT    | 15025 | 2000              | 0.10                        | 0.41 | 0.48  | 4.79  | 10.44  |        | 0.15  | 0.00  | 5052                     | Coal & Other<br>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<br>MANUFACTURING COMPANY    | BRADDOCK PLANT                 | 15104 | 1998              | 0.00                        | 0.00 |       | 0.00  | 0.19   |        | 0.00  | 15.83 | 3621                     | Motors And<br>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<br>HIGH SCHOOL              | EDUCATION<br>INSTITUTION       | 15228 | 1998              | 0.50                        | 0.60 |       | 0.01  | 0.01   |        | 0.00  | 0.03  | 8211                     | Elementary And<br>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  |                          |                                     |
| MULTISERV                               | SLAG PROCESSING                | 15104 | 1998              |                             |      |       | 39.14 | 103.95 |        |       |       | 3295                     | Special Trade<br>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  |        |       |       |                          |                                     |
| NATIONAL ENERGY<br>TECHNOLOGY LAB - PGH | NETL - NATIONAL<br>ENERGY TECH | 15236 | 1996              | 0.17                        | 4.35 |       | 0.11  | 0.38   |        | 14.49 | 0.28  | 8731                     | Commercial<br>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   |        |       |       |                          |                                     |

# 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 Industrial Code                 | SIC Description |
|----------------------------|------------------------------|-------|-------------------|-----------------------------|-------|-------|-------|-------|--------|------|--------|------|--|-----------------|
|                            |                              |       |                   | CO                          | NOx   | PM2.5 | PM10  | PT    | PMCond | SO2  |        |      |  |                 |
| NEVILLE CHEMICAL CO.       | NEVILLE<br>CHEMICAL CO.      | 15225 | 1996              | 17.67                       | 33.03 |       | 25.35 | 29.44 |        | 9.24 | 453.75 | 2821 | Plastics<br>Materials And Resins         |                 |
|                            |                              |       | 1997              | 19.21                       | 55.90 |       | 13.67 | 21.26 |        | 9.99 | 756.94 |      |  |                 |
|                            |                              |       | 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<br>LIME | AGGREGATE<br>PULVRIZING FCY  | 15056 | 1998              | 0.05                        | 0.23  |       | 14.03 | 21.95 |        | 0.02 | 0.02   | 3295 | Minerals, d<br>Ground Or Treat           |                 |
|                            |                              |       | 1999              | 0.15                        | 0.70  | 0.56  | 11.67 | 18.09 |        | 0.05 | 0.05   |      |  |                 |
|                            |                              |       | 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<br>GALVANIZING-STRIP | 15145 | 1998              | 11.97                       | 14.25 |       | 0.97  | 1.38  |        | 0.09 | 1.52   | 3479 | Metal Coating<br>And Allied Services,nec |                 |
|                            |                              |       | 1999              | 13.49                       | 16.07 | 0.31  | 0.31  | 0.31  | 0.92   | 0.10 | 1.61   |      |  |                 |
|                            |                              |       | 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<br>CALIG CORP  | NORTH COAST<br>CALIG CORP    | 15136 | 1996              | 0.52                        | 2.46  |       | 0.44  | 1.09  |        | 0.01 | 76.47  | 3412 | Metal Barrels,s<br>Drums & Pail          |                 |
|                            |                              |       | 1997              | 2.24                        | 2.66  |       | 0.05  | 0.05  |        | 0.02 | 64.00  |      |  |                 |
|                            |                              |       | 1998              | 2.24                        | 2.66  |       | 0.05  | 0.05  |        | 0.02 | 64.00  |      |  |                 |

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## Air Quality Program

### Point Source Criteria Air Emission Report 1996-2004

| 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   |       |                          |                               |
| NRG ENERGY CENTER<br>PITTSBURGH      | NRG ENERGY CTR<br>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<br>MANUFACTR | 15106 | 1996              | 0.09                        | 0.61   |       | 0.47 | 0.50 |        | 0.11  | 2.90  | 2899                     | Chemical<br>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<br>BRUNOT ISLAND | ELECTRICAL<br>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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## 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   |                          |                                      |
| ORION POWER MIDWEST,<br>CHESWICK STATION | CHESWICK<br>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<br>PHILLIPS STATION  | ORION POWER<br>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.<br>GRAPHICS DIVISION       | GRAPHIC SIGNAGE              | 15044  | 1999              | 0.10                        | 0.12    | 0.00   | 0.00   | 0.00     | 0.01   | 0.00     | 9.13  | 3083                     | Laminated<br>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<br>SERVICES, INC.         | FUEL & LUBRICANT<br>RESEARCH | 15238  | 1998              | 13.47                       | 0.76    |        | 0.50   |          |        | 0.68     | 2.85  | 8734                     | Testing<br>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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| 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   |                          |                 |                                |
| 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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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    |                          |                   |  |
| PITTSBURGH BREWING CO.<br>PITTSBURGH        | PITTSBURGH.<br>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<br>INSULATION         | MFG&DIST ELEC<br>INSULATION | 15120 | 1997              | 0.07                        | 0.08  |       | 0.00  | 0.00  |        |       | 0.00   | 10.78                    | 5065              | Electronic Parts<br>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  | 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<br>CORP NEVILLE ISLAND |                             | 15225 | 1996              | 0.09                        | 0.39  |       | 4.62  | 7.82  |        |       | 0.03   | 59.71                    | 5171              | Petroleum Bulk<br>Stations & Terminals |
|   |                             | 15225 | 1997              |                             |       |       |       |       |        |       |        | 66.07                    | 5171              |  |
|   |                             |       | 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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Air Quality Program

## Point Source Criteria Air Emission Report 1996-2004

| 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  |        |        |                                |  |
| PITTSBURGH TERMINALS<br>CORP. - CORAOPOLIS  | MOTIVA<br>ENTERPRISES LLC    | 15108 | 1996              | 6.10                        | 2.40  |       |      |        | 0.00   |      | 0.00   | 38.53  | 5171                           | Petroleum Bulk<br>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 -<br>CHEMICALS TECHNICAL CTR | CHEMICAL R&D<br>FACILITY     | 15146 | 1998              | 1.68                        | 2.00  |       | 0.04 | 0.04   |        |      | 0.01   | 9.82   | 2812                           | Alkalies And<br>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<br>RESEARCH CTR. | 15238 | 1998              | 6.25                        | 40.07 |       | 5.38 | 5.55   |        | 5.92 | 0.36   | 3231   | Products Of<br>Purchased Glass |  |
| PPG INDUSTRIES, INC.<br>SPRINGDALE          | PPG INDUSTRIES, INC.         | 15144 | 1996              | 2.89                        | 11.58 |       | 2.51 | 2.51   |        |      | 0.05   | 202.75 | 2851                           | Paints And<br>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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| 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  |       |       |                          |  |
| PRECOAT METALS,<br>A DIV. OF SEQUA COATINGS | PRECOAT METALS                       | 15132 | 1996              | 3.07                        | 12.51 |       | 0.56 | 0.56 |        |      | 0.06  | 56.96 | 3479                     | Metal Coatingc<br>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<br>PRODUCTION PLANT         | 15201 | 1996              | 0.09                        | 0.41  |       | 0.02 | 0.02 |        |      | 0.00  | 14.80 | 2869                     | Industria<br>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 .<br>CHEMICAL CO., INC      | PRUETT-SCHAFFER<br>CHEMICAL CO., INC | 15204 | 1996              | 0.01                        | 0.07  |       | 1.01 | 1.19 |        |      | 0.00  | 3.52  | 2851                     | Paints And<br>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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## 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   |                          |                                   |
| RANBAR<br>TECHNOLOGY INC.         | RANBAR<br>TECHNOLOGY INC. | 15116 | 1996              | 0.29                        | 1.40  |       | 2.06  | 2.06  |        | 0.00     | 17.96 | 2851                     | Paints<br>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     |       |                          |                                   |
| REDLAND BRICK INC<br>HARMAR PLANT | BRICK<br>MANUFACTURER     | 15024 | 1998              | 47.24                       | 14.58 |       | 13.47 | 19.12 |        | 23.69    | 1.73  | 3251                     | Brick And<br>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<br>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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## 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  |   |                                   |
| ROYSTON<br>LABORATORIES DIVISION | COATING<br>MANUFACTURER    | 15238 | 1996              | 0.05                        | 0.27 |       | 0.04 | 0.03 |        |      | 0.00 | 7.09  | 2891<br>Adhesives<br>And Sealants |
|                                  |                            |       | 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 .<br>CHEMICAL & RESIN, INC | SANYO<br>JEFFERSON SITE    | 15088 | 2001              |                             |      | 0.02  | 0.25 | 0.25 |        |      | 3.40 | 2821<br>Plastics Materials<br>And Resins    |                                   |
|                                  |                            |       | 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<br>Elementary And<br>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<br>MANUFACTURER | 15064 | 1998              | 1.47                        | 1.75 |       | 0.86 | 0.55 |        | 0.01 | 1.67 | 3255<br>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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## 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     |                          |  |
| SHALER AREAL<br>INTERMEDIATE SCHOOL      | EDUCATIONAL<br>COMPLEX       | 15116  | 1998              | 0.42                        | 0.50   |       | 0.01   | 0.01   |        |      |         | 0.03                     | 8299<br>Schools &<br>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<br>COKE PLANT       | 15225  | 1996              | 191.49                      | 442.75 |       | 66.28  | 250.68 |        |      | 2192.73 | 38.87                    | 3312<br>Blast Furnaces<br>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                    |  |
| 2004                                     | 433.21                       | 385.52 | 39.98             | 61.75                       | 187.41 | 30.20 |        | 447.13 | 39.41  |      |         |                          |  |
| SOUTH HIGH SCHOOL                        | SOUTH HIGH<br>SCHOOL         | 15203  | 1998              | 0.51                        | 0.65   |       | 0.01   | 0.01   |        |      | 0.00    | 0.04                     | 8211<br>Elementary And<br>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<br>INSTITUTION -- PGH | STATE CORRECTIONAL<br>INSTIT | 15233  | 1996              | 8.64                        | 13.99  |       | 16.68  | 82.63  |        |      | 34.16   | 0.53                     | 9223<br>Correctional<br>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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| 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  |       |      |                                     |                                      |
| 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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| 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   |       |                          |                 |                                     |
| 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<br>SPRINGDALE | CORP CRUSHING<br>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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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   |                          |                              |
| 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  |                          |                              |

# 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  |                          |                             |
| 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 Mill 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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## 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   |                          |  |
| UNIVERSAL STAINLESS & ALLOY PRODUCTS      | UNIVERSAL STAINLESS        | 15017  | 1996              | 65.69                       | 28.44 |       | 22.24 | 22.24 |        | 1.54 | 8.25  | 3312                     | Blast Furnaces<br>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<br>(MAIN CAMPUS) | UNIVERSITY                 | 15213  | 2002              | 4.08                        | 5.70  | 0.17  | 0.17  | 0.17  | 0.34   | 0.10 | 6.10  | 8221                     | Colleges And<br>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<br>WOMEN | 15213  | 1998              | 4.59                        | 5.18  |       | 0.12  | 0.12  |        | 0.10 | 1.70  | 8062                     | General Medical<br>& 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 Medica<br>l & 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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| 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  |       |                          |                                       |
| 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 Medical & 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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| 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    |                          |                                   |
| US STEEL CORPORATION<br>IRVIN PLANT    | USS IRVIN PLANT            | 15034 | 1996              | 148.25                      | 1194.82 |        | 132.81  | 151.59  |        | 147.18  | 38.10  | 3312                     | Blast Furnaces<br>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 -<br>CLAIRTON WORKS    | 15025 | 1996              | 3805.65                     | 9079.76 |        | 1191.16 | 3571.49 |        | 1976.96 | 478.75 | 3312                     | Blast Furnaces<br>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<br>EDGAR THOMSON WORKS | USS EDGAR<br>THOMSON PLANT | 15104 | 1996              | 1621.75                     | 572.09  |        | 426.07  | 590.06  |        | 886.33  | 89.42  | 3312                     | Blast Furnaces<br>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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| 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   |      |                          |   |
| VA MEDICAL CENTER<br>ASPINWAL FACILITY  | HEALTH CARE<br>FACILITY | 15240 | 1998              | 1.64                        | 1.95  |       | 0.04 | 0.04 |        | 0.01  | 0.23 | 8051                     | Skilled Nursings<br>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<br>HIGHLAND DRIVE FAC | HEALTH CARE<br>FACILITY | 15206 | 1998              | 5.14                        | 6.10  |       | 0.12 | 0.12 |        | 0.04  | 0.49 | 8062                     | General Medical &<br>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<br>OAKLAND FACILITY   | HEALTH CARE<br>FACILITY | 15240 | 1998              | 2.73                        | 3.25  |       | 0.06 | 0.06 |        | 0.02  | 5.86 | 8062                     | General Medical &<br>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<br>FACILITY   | 15225 | 1998              | 7.24                        | 8.68  |       | 2.87 | 2.87 |        | 0.11  | 0.47 | 2077                     | Animal And<br>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<br>PROCESS TEST FACILITY | PROCESS<br>TESTING FACILITY | 15238 | 1999              | 0.09                        | 0.18 | 0.02  | 0.02 | 0.02 |        | 0.00  |       | 8731                     | Commercial<br>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<br>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.<br>NEVILLE ISLAND       | NEVILLE ISLAND<br>PLANT     | 15225 | 1998              |                             |      |       | 6.51 | 7.66 |        |       | 5.74  | 2851                     | Paints And<br>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<br>SCHOOL                 | WESTINGHOUSE<br>SCHOOL      | 15208 | 1998              | 0.92                        | 1.10 |       | 0.02 | 0.02 |        | 0.01  | 0.06  | 8211                     | Elementary<br>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<br>HAYS PLANT                     | METAL HEAT<br>TREATING       | 15120 | 1998              | 4.33                        | 4.17 |       | 0.60 | 0.60 |        | 0.03  | 0.28  | 3398                     | Metal Heat<br>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<br>WEST HOMESTEAD FACILITY        | METAL<br>MACHINING/FINISHING | 15120 | 1998              | 3.93                        | 4.75 |       | 0.09 | 0.09 |        | 0.03  | 1.40  | 3547                     | Rolling Mill<br>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<br>MANAGEMENT<br>US STEEL TOWER | HIGH RISE<br>OFFICE BLDG     | 15219 | 1998              | 5.30                        | 6.31 |       | 0.12 | 0.09 |        | 0.04  | 0.35  | 6512                     | Nonresidential<br>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<br>PRODUCTS INC.                | PLASTICS<br>MANUFACTURING    | 15084 | 2000              | 0.04                        | 0.05 | 0.32  | 0.32 | 0.32 |        | 0.00  | 13.67 | 3087                     | Custom Compound<br>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<br>Inventory | Facility Criteria Emissions |          |         |         |         |         |          |         | Standard<br>Industrial<br>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 &amp; 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 &amp; 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<br>Inventory | Facility Criteria Emissions |     |       |      |    |        |     | Standard<br>Industrial<br>Code | SIC Description |
|---------------|------------------|-----|----------------------|-----------------------------|-----|-------|------|----|--------|-----|--------------------------------|-----------------|
|               |                  |     |                      | CO                          | NOx | PM2.5 | PM10 | PT | PMCond | SO2 |                                |                 |

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  | Tons |
|------|-------|-------|-------|------|------|--------|-------|------|------|
| 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<br>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<br>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<br>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   | <b>ISOPROPANOL</b>                 | 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<br>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<br>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<br>Tons per Year |          |          |          |          |          |          |
|------------|-------------------------------------|---|----------|----------|----------|----------|----------|----------|
|            |                                     | 1998  | 1999     | 2000     | 2001     | 2002     | 2003     | 2004     |
| 1746016    | 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIF | 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 ALKYL   | 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

|   |                                   | <b>Total County Emissions of Chemical Compounds<br/>Tons per Year</b> |          |          |          |          |          |          |
|---|-----------------------------------|---|----------|----------|----------|----------|----------|----------|
|   |                                   | 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 ETHEI | 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 |
| <b>Total Air Emissions HAPS including NH<sub>3</sub> AND H<sub>2</sub>S</b> |                                   | 3216.96   | 2866.82  | 3179.14  | 3452.93  | 3018.54  | 3150.54  | 2870.94  |
| <b>Air Emissions HAPS only</b>  |                                   | 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 (NH<sub>3</sub>) 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

| 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     | 0.00     |
|                                     |       | 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  
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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     |
| ALLEGHENY ENERGY<br>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<br>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<br>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<br>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     |          |          |

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     |          |
| 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        | 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 |          |          |

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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<br>84742  | 1,3-BUTADIENE<br>DIBUTYL PHTHALATE   | 0.001<br>0.017  | 0.001<br>0.017   | 0.001<br>0.017  | 0.0009<br>0                                      |   |   |   |
| BAKE- LINE GROUP LLC               | 15206 | 74839<br>75070<br>7664417<br>PBC   | METHYL BROMIDE<br>ACETALDEHYDE<br>AMMONIA<br>LEAD COMPOUNDS  | 0<br>0.13<br>18.94<br>0                               | 0<br>0.00<br>0.00  | 0<br>0.00<br>0.00                                     | 6<br>0.18<br>0.03                                | 0<br>0.20<br>0.10   | 0<br>0.20<br>0.10   |   |
| BARBER SPRING                      | 15201 | 1330207<br>106423<br>108383<br>110543<br>78933<br>PBC  | XYLENE (MIXED ISOMERS)<br>P-XYLENE<br>M-XYLENE<br>HEXANE<br>METHYL ETHYL KETONE<br>LEAD COMPOUNDS  |   |  |   | 0.121<br>0.14<br>0.319<br>0.09<br>0.10           | 0.244<br>0.28<br>0.638  | 0.244<br>0.28<br>0.638  | 2.79<br><br><br>0.10<br>0.00  |
| BELLEFIELD BOILER PLANT            | 15213 | 110543<br>18540299<br>7647010<br>7664393<br>91203<br>ASC<br>BEC<br>CDC<br>COC<br>HGC<br>NIC<br>PBC | HEXANE<br>CHROMIUM (VI)<br>HYDROCHLORIC ACID<br>HYDROGEN FLUORIDE<br>NAPHTHALENE<br>ARSENIC COMPOUNDS<br>BERYLLIUM COMPOUNDS<br>CADMIUM COMPOUNDS<br>COBALT COMPOUNDS<br>MERCURY COMPOUNDS<br>NICKEL COMPOUNDS<br>LEAD COMPOUNDS | 26.18<br>3.27<br><br><br><br><br><br><br><br><br>0.01 | 23.28<br>2.91<br><br><br><br><br><br><br><br><br>0.01    | 24.88<br>3.11<br><br><br><br><br><br><br><br><br>0.01 | 0.30<br><br><br><br><br><br><br><br><br><br>0.01 | 0.52<br>0.10<br>29.44<br>3.68<br>1.74E-04<br>7.54E-05<br>0.009<br>0.003<br>3.27E-05<br>8.01E-05<br>0.07<br>0.01 | 0.59<br>0.10<br>30.46<br>3.81<br>1.98E-04<br>8.56E-05<br>0.009<br>0.003<br>3.72E-05<br>9.12E-05<br>0.08<br>0.01 | 0.05<br>0.10<br>29.81<br>3.73<br>1.72E-04<br>5.64E-05<br>3.18E-03<br>0.02<br>2.37E-05<br>7.33E-05<br>0.06<br>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<br>107211<br>110543<br>16065831<br>7647010<br>CRC<br>HGC<br>PBC                           | MERCURIC NITRATE<br>ETHYLENE GLYCOL<br>HEXANE<br>CHROMIUM (III)<br>HYDROCHLORIC ACID<br>CHROMIUM COMPOUNDS<br>MERCURY COMPOUNDS<br>LEAD COMPOUNDS  | 2.97E-05  | 0.136<br>0.099<br>0.205<br>2.50E-06<br>0.008<br>4.65E-05 | 0.108<br><br><br>0.04<br><br><br>3.95E-05             | 0.352<br><br><br>0.02<br><br><br>1.92E-05        | 0<br><br><br>0.001<br><br><br>2.74E-05  | 0<br><br><br>0.07<br>0.00<br>0.002<br><br><br>2.25E-05  | 0.08<br><br><br><br><br><br>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        |
| 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    |

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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 .<br>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        |          | 0.000    |
|   |                | 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     |

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| 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<br>MANCHESTER FACILTY | 15233               | 1330207        | XYLENE (MIXED ISOMERS) |                           |       |          | 0.008 |       |       |       |
|  |                     | 50000          | FORMALDEHYDE           | 0.001                     | 0.001 | 0.001    | 0.001 |       |       |       |

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| 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 |            |          |
|                             |                | HGC            | MERCURY COMPOUNDS      | 15282                     |          |          |          |          | 7.3748E-06 | 8.58E-06 |
| PBC                         | LEAD COMPOUNDS |                |                        |                           | 1.67E-05 | 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 |

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| 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      |       |       |       |

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| 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<br>(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  | 0.00     |
| 84742   | DIBUTYL PHTHALATE |                | 0.00                           |                           | 0.00  | 0.00  | 0.00  | 0.00    |       |          |
| 91203   | NAPHTHALENE       |                |                                |                           | 0.00  | 0.01  | 0.03  | 0.00048 |       |          |

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| 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    |

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| 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     |

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| 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 & .<br>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 |



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| Company Name                      | ZIP           | Pollutant CAS# | Pollutant Name         | Emissions - Tons per Year |          |          |          |          |          |          |
|-----------------------------------|---------------|----------------|------------------------|---------------------------|----------|----------|----------|----------|----------|----------|
|                                   |               |                |                        | 1998                      | 1999     | 2000     | 2001     | 2002     | 2003     | 2004     |
| HUSSEY COPPER LTD.                | 15056         | 110543         | HEXANE                 |                           |          |          |          |          | 0.39     | 0.39     |
|                                   |               | CRC            | CHROMIUM COMPOUNDS     |                           |          |          | 0.01     | 0.01     | 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                 | 0.030                     | 0.031    | 0.038    | 0.041    |          | 0.062    | 0.064    |
|                                   |               | 75218          | ETHYLENE OXIDE         |                           |          |          |          | 0.035    | 0.032    | 0.033    |
|                                   |               | PB             | LEAD                   |                           |          |          |          | 1.96E-05 | 1.53E-05 | 1.73E-05 |

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| 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      |

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| 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     | 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     |          |       |

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| 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     |          |
| 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                 |                | 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     |          |          |

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| Company Name                                | ZIP            | Pollutant CAS# | Pollutant Name          | Emissions - Tons per Year |          |          |          |          |          |          |
|---|----------------|----------------|-------------------------|---------------------------|----------|----------|----------|----------|----------|----------|
|   |                |                |                         | 1998                      | 1999     | 2000     | 2001     | 2002     | 2003     | 2004     |
| LTV STEEL COMPANY-<br>PITTSBURGH COKE PLANT | 15207          | 71432          | BENZENE                 | 2.46                      |          |          |          |          |          |          |
|   |                | 7664417        | AMMONIA                 | 12.68                     |          |          |          |          |          |          |
|   |                | POM            | POLYCYCLIC ORGANIC MATT | 0.56                      |          |          |          |          |          |          |
| MARATHON ASHLAND PETROLEUM<br>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. -<br>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                  |          |          |          |          |          |          |

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| 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<br>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 |

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| 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 | 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 |          |          |          |      |

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|--|---------------------------|----------------|------------------------|---------------------------|----------|----------|----------|----------|----------|----------|
|  |                           |                |                        | 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 -<br>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           |                           |          | 6.79E-04 | 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 |



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|--|-----------------------------------|----------------|--------------------------------------|---------------------------|----------|----------|----------|----------|----------|----------|----------|
|  |                                   |                |                                      | 1998                      | 1999     | 2000     | 2001     | 2002     | 2003     | 2004     |          |
| ORION POWER MIDWEST,<br>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 |          |          |

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|--|-----|----------------|-----------------------------------|---------------------------|----------------|----------------|----------|----------|---------|----------|
|  |     |                |                                   | 1998                      | 1999           | 2000           | 2001     | 2002     | 2003    | 2004     |
| ORION POWER MIDWEST,<br>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     |
|  |     | <b>7647010</b> | <b>HYDROCHLORIC ACID (adjust)</b> | <b>785.84</b>             | <b>1023.34</b> | <b>1130.43</b> | 1298.42  | 1021.93  | 1292.45 | 1093.85  |
|  |     | <b>7664393</b> | <b>HYDROGEN FLUORIDE (adjust)</b> | <b>74.47</b>              | <b>96.98</b>   | <b>107.13</b>  | 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     |

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|---|-------|----------------|------------------------|---------------------------|----------|----------|----------|----------|----------|----------|
|   |       |                |                        | 1998                      | 1999     | 2000     | 2001     | 2002     | 2003     | 2004     |
| ORION POWER MIDWEST,<br>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,<br>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 |

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| 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<br>PB   | HEXANE<br>LEAD            | 8.13E-07                  | 3.35E-06 | 1.04E-05 | 3.31E-05 | 0        | 2.47E-05 | 0.85<br>2.38E-05 |
| PITTSBURGH BREWING CO.<br>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 |          |                  |

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| Company Name                                | ZIP                       | Pollutant CAS# | Pollutant Name            | Emissions - Tons per Year |          |          |          |          |      |          |
|---|---------------------------|----------------|---------------------------|---------------------------|----------|----------|----------|----------|------|----------|
|   |                           |                |                           | 1998                      | 1999     | 2000     | 2001     | 2002     | 2003 | 2004     |
| PITTSBURGH TERMINALS CORP<br>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. -<br>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 -<br>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     |      |          |

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| Company Name                                | ZIP  | Pollutant CAS# | Pollutant Name                           | Emissions - Tons per Year |      |      |          |      |      |      |
|---|------|----------------|--|---------------------------|------|------|----------|------|------|------|
|   |      |                |  | 1998                      | 1999 | 2000 | 2001     | 2002 | 2003 | 2004 |
| PPG INDUSTRIES -<br>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    |      |      |

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| 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,<br>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<br>PB    | GLYCOL ETHERS<br>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        |          |

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| 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     | 0.01     |
|                                    |        | 106423         | P-XYLENE                   |                           | 0.12     | 0.11  | 0.08     | 0.05     | 0.04     | 0.06     | 0.06     |
|                                    |        | 108101         | METHYL ISOBUTYL KETONE     | 0.04                      | 0.04     | 0.56  | 0.55     | 0.09     | 0.11     | 0.10     | 0.10     |
|                                    |        | 108383         | M-XYLENE                   |                           | 0.30     | 0.26  | 0.17     | 0.09     | 0.10     | 0.14     | 0.14     |
|                                    |        | 108883         | TOLUENE                    | 0.25                      | 0.08     | 0.20  | 0.22     | 0.05     | 0.03     | 0.08     | 0.08     |
|                                    |        | 111762         | 2-BUTOXY ETHANOL           |                           |          |       |          | 0.42     | 0.59     | 0.58     | 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 | 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     | 0.07     |
|                                    |        | 95476          | O-XYLENE                   |                           | 0.10     | 0.10  | 0.06     | 0.03     | 0.04     | 0.06     | 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    | 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        |          |



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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                          |                           |          |          |          |          |          |          |

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| 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  | 0.01  | 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 |

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|---|-------------------------|----------------|---------------------------|---------------------------|----------|----------|----------|----------|----------|----------|
|   |                         |                |                           | 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.<br>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 |

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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,<br>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.<br>.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<br>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<br>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<br>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 |                | 4.12                   | 4.12                      | 0.06 | 0.03 | 0.07  | 0.12     |          |          |
| TRINITY INDUSTRIES PLANT 112 | 15136 | 110543         | HEXANE                 |                           |      |      |       |          | 0.35     | 0.54     |
|                              |       | PB             | LEAD                   |                           |      |      |       |          |          | 1.14E-04 |

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

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| Company Name                              | ZIP              | Pollutant CAS# | Pollutant Name               | Emissions - Tons per Year |      |          |            |          |          |          |
|---|------------------|----------------|------------------------------|---------------------------|------|----------|------------|----------|----------|----------|
|   |                  |                |                              | 1998                      | 1999 | 2000     | 2001       | 2002     | 2003     | 2004     |
| UNIVERSITY OF PITTSBURGH<br>(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     |          |          |

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| 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     |      |          |          |          |

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| Company Name                          | ZIP   | Pollutant<br>CAS# | Pollutant Name         | Emissions - Tons per Year |       |       |       |       |       |       |
|---------------------------------------|-------|-------------------|------------------------|---------------------------|-------|-------|-------|-------|-------|-------|
|                                       |       |                   |                        | 1998                      | 1999  | 2000  | 2001  | 2002  | 2003  | 2004  |
| US STEEL CORPORATION -<br>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  | 0.02  |
|                                       |       | SBC               | ANTIMONY COMPOUNDS     |                           | 0     | 0.00  | 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  |
| 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         |       |       |
| <b>7647010</b>       | <b>HYDROCHLORIC ACID (adjus</b> | <b>108.50</b>  | <b>108.50</b>             | <b>112.83</b>             | <b>106.88</b> | <b>105.70</b> | <b>105.24</b> | <b>101.79</b> |       |       |
| 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        |       |       |

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| 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 MATT   | 15.68                     | 13.10    | 10.20    |          |          |          |          |  |
| USX CORPORATION -<br>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 V   | 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     |          |          |  |

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| 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     |          |          |          |          |          |



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| 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             |                  |
|  |       | 108101         | METHYL ISOBUTYL KETONE          | 0.42                      | 0.54     | 0.26     | 0.40     | 0.47     | 0.40             | 0.30             |
|  |       | 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                |                  |
|  |       | 1330207        | XYLENE (MIXED ISOMERS)          | 0.24                      | 0.30     | 0.12     | 0.11     | 0.20     | 0.25             | 0.16             |
|  |       | 78591          | ISOPHORONE                      | 0.33                      | 0.43     | 0.26     | 0.34     | 0.31     | 0.25             | 0.23             |
|  |       | 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<br>PB   | HEXANE<br>LEAD                  |                           |          | 1.21E-06 | 8.68E-07 | 2.65E-06 | 0.01<br>2.31E-06 | 0.01<br>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                         |                           |          | 0.08     | 0.07     | 0.00     | 0.00             | 0.00             |
|  |       | 110543<br>PB   | HEXANE<br>LEAD                  |                           |          |          | 3.03E-07 | 3.67E-07 | 3.65E-07         | 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     |          |                  |                  |

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3214.60792 2866.64797 3177.04575 3450.86612 3016.66908 3149.13782 2855.405