



APPENDIX AVAILABLE ON REQUEST

Research Report 158

Air Toxics Exposure from Vehicle Emissions at a U.S. Border Crossing: Buffalo Peace Bridge Study

John Spengler et al.

Appendix B. Overview, Summary and Comparison of Integrated Data

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Appendix B:
Overview, Summary and Comparison of Integrated Data

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In this appendix, we summarize data for the entire study. The fixed-site sampling schedule (12-hour [7:00 A.M.-7:00 P.M.] weekdays and 48-hour weekend samples), equipment and methods were established during the second pilot study in the winter of 2005. The same protocol was followed for the summer 2005 and winter 2006 campaigns. All fixed-site data from the three sampling periods are summarized in this section and were the basis for the establishment of disparate wind sector analyses discussed in the main body of the report. The statistical summaries of the data for all analytes are shown by different sampling intervals (12 hours, 48 hours and 60 hours), and broken out by season and site.

PM and EC-r

Descriptive Statistics (N, mean, standard deviation, minimum, median and maximum by site and sampling session and overall of the 12-hour weekday [7:00 A.M. – 7:00 P.M.]) for PM_{10} , $PM_{2.5}$ and EC-r for the winter 2005, summer 2005 and winter 2006 study sessions are listed in Table 1. The descriptive statistics for the 48-hour weekend samples are listed in Table 2. The descriptive statistics of the five-weekday and five-weeknight samples are found in Table 3. For the 12-hour weekday samples, the median values for $PM_{2.5}$ were higher in summer 2005 than in winter 2005 and winter 2006. The median values for PM_{10} , $PM_{2.5}$ and EC-r were higher in winter 2006 than winter 2005. For all sampling sessions the median EC-r was highest at the Chapel site, followed by the School then the GLC sites. The differences were not as pronounced among sites for PM_{10} and $PM_{2.5}$. The difference in EC-r values was not as marked for the weekend samples, however, there is a substantial decrease in number of trucks crossing the bridge on the weekends. The five-weekday and five-weeknight samples show that PM_{10} and

PM_{2.5} were higher during the day than at night. The values of EC-r were similar for day and night samples.

It is evident that the EC-r concentrations were consistently higher at the Chapel site. Overall the Chapel median EC-r concentration was 3.6 times higher than the GLC values. The School EC-r median concentration was 1.4 times higher than the GLC values. EC-r makes up a greater fraction of the median PM_{2.5} at the Chapel site, 17% as compared to 8% at the School site and 5% at the GLC site. The PM₁₀ fraction that is PM_{2.5} was highest at the GLC site (65%) but was similar at the two inland sites (56 and 59%). The average concentration measure at the Chapel site (15.7 µg/m³) was just slightly above the National Ambient Air Quality Standard (NAAQS). The average PM_{2.5} concentration at the GLC site was lower than the Chapel site by 2.3µg/m³. Much of the difference is accounted for in the 1.5 µg/m³ difference in EC-r. The School site's average PM_{2.5} concentration (14.6 µg/m³) falls between the average values at the other two sites.

Volatile Organic Compounds (VOCs)

The overall summary of VOCs and carbonyls are shown in Table 4 for the VOC analysis for the 12-hour weekday samples and the 48-hour weekend samples (N, mean, standard deviation, minimum, median, maximum). Of the mobile source VOCs, benzene and toluene were the most abundant. Acetone and acetaldehyde had weekday means of 5.9 µg/m³ and 4.3 µg/m³ with formaldehyde at 1.2 µg/m³. The weekend acetone samples were about one third the weekday concentrations. Given that several BTEX (benzene, toluene, ethylbenzene, and xylenes) compounds overall had weekend concentrations that were 70% of the weekday levels, we expect that some sample losses accounted for the substantially lower carbonyl compound levels.

Table 5 presents the extensive overall summaries for the 12-hour VOCs and carbonyl samples at each of the three sites and sampling periods (winter 2005, summer 2005 and winter 2006). Except for the winter 2005 pilot, where there were only three or four 12-hour samples per site, the BTEX compounds along with 1,3-butadiene and styrene were consistently higher at the Chapel site than at the GLC site. A few of the BTEX compounds were higher at the School site than either the Chapel or the GLC. MTBE was inconsistent, with the mean and median values at the GLC site either slightly higher or similar to the other sites. The relationship of benzene to toluene was examined for an indication of gasoline signature. The School site showed a typical benzene-to-toluene ratio of 3.4 and a xylenes-to-benzene ratio of 1.8 near the ratios of 3 and 2 commonly reported. The toluene-to-benzene ratio at the Chapel site overall was 2.3. As an indicator of mobile source impact, the sum of BTEX plus MTBE, styrene and 1,3-butadiene (“BTEX plus”) were compared. During the summer campaign the BTEX plus value was $2.8 \mu\text{g}/\text{m}^3$ at the GLC site and more than twice this value at the Chapel ($7.7 \mu\text{g}/\text{m}^3$) and School ($7.8 \mu\text{g}/\text{m}^3$) sites. The winter values at the GLC site were higher, $4.2 \mu\text{g}/\text{m}^3$, which is partially explained by more city wind conditions. During the winter, the School site BTEX plus concentration was $7.4 \mu\text{g}/\text{m}^3$ as compared to $6.1 \mu\text{g}/\text{m}^3$ at the Chapel site.

Formaldehyde, acetaldehyde and acetone were routinely higher during the summer campaign than the winter. The winter formaldehyde concentrations were highest at the School site with summer levels more than five times winter levels. The acetaldehyde concentrations were similar at all three sites in the winter but substantially higher in the summer at the School site than either the Chapel or GLC sites.

Of the chlorinated compounds, five appear to be similar across all three sites and indicative of air mass concentration rather than mobile sources. These are chloroform, 1,1,1-

trichloroethene, carbon tetrachloride, trichloroethene and tetrachlorethene. For the chlorinated compounds, concentrations at either the School or the Chapel site are the highest of the three. For other compounds the seasonal relationship changes. For both 2,3-dimethylpentane and methlocyclohexane the mean is higher at the Chapel than the School site. During the summer, when car crossings increase and there are more lake wind conditions, the Chapel site had higher levels of 2-methylhexane than the School or GLC sites. For completeness, in Table 6 we show VOC and carbonyl concentrations for the 60-hour daytime and nighttime integrated samples. For the BTEX compounds it is generally true that daytime values are similar to nighttime values.

Elements

Twenty-eight elements were analyzed using high resolution ICP/MS. A list of compounds and elements emitted by mobile sources that are also on the IRIS list was shown in Table 3 in the main report. While we cannot identify the form these elements appear in at the Peace Bridge Plaza nor their valence, we had the analytical capabilities of detecting the presence of 13 of the 20 elements listed in Table 3 of the main report. However chromium, selenium and nickel were often below detection limits. The element platinum (Pt) was examined in the winter pilot. The values were in the subpicogram range and appeared to be similar across the three sites, so it was dropped from subsequent analysis. Table 7 provides an overall summary of the elements in the 12-hour integrated $PM_{2.5}$ samples for each site.

The analysis of elements provides useful insight into sources contributing to mobile air contaminants in the west Buffalo area. Sulfur was the most abundant element and was two orders of magnitude higher than many of the earth crustal elements (Na, Mg, Al, K, Ca, Ti, Fe and Zn). Most metals of interest emitted from mobile sources were in the picogram to a few nanograms per cubic meter range. Table 8 provides an overall summary of the elements

measured in the 12-hour and weekend samples. Comparing the mean and median values for the Chapel and GLC sites in Table 7, which presents descriptive statistics of the elemental analysis by site and sampling session, three general groupings are observed. For many of the coal and oil combustion elements (S, As, Se, V and Ni), there does not appear to be differences between the two sites. The same can be said for Be, Na, K, Zn, Ag, Cd, Sn, Cs and Tl. The other elements can be grouped into one of two categories. Among those elements a slight increase in median concentrations is found at the Chapel site for Mg, Al, Sc, Ti, Co, Sr, La and Pb. Another grouping, which includes Ca, Cr, Mn, Fe, Cu and Sb, displays a greater degree of difference, with the Chapel site median concentrations being higher than the GLC concentrations.

Table 9 shows the descriptive statistics for the elements by site and sampling period. In general, the elements having higher concentrations at the Chapel site are consistent with the groupings just described.

Examining the summer-winter relationship for a few elements that did not show a difference between the Chapel and GLC sites indicated that sulfur levels were the same for both seasons. Using the median values for elements sampled at the GLC site, the ratios of summer-to-winter values for V, As, Ni and Se were about 0.6. During the winter campaign there were six days classified as city wind days while there was only one city wind day during the summer campaign.

During the summer 2005 campaign, 60-hour integrated PM_{2.5} mass samples were collected during the weekday and weeknight hours separately. Table 10 displays the values for the elements. Of the 14 elements previously classified as having higher values at the Chapel site for the daytime 12-hour samples, 11 also had higher nighttime values at the Chapel site.

PAH

PAHs detected in 12-hour samples at each of the three fixed sites are displayed in Table 11, by site, for each sampling session and overall. Reported in this section are some overall observations. We collaborated with Professor Joel Baker of the University of Maryland Center for Environmental Science, Chesapeake Biological Laboratory and his master's student Taeko Minegishi. Ms. Minegishi analyzed the PAH and NPAH samples of the Peace Bridge Study as partial fulfillment of her thesis. In addition, she collected additional high-volume samples to supplement the data set and to compare Peace Bridge air with other high-volume samples collected at truck stops, tunnels and highways throughout the country.

Low Molecular Weight PAHs

For PAHs lighter than 2,3,5-trimethylnaphthalene, naphthalene is the most abundant. Naphthalene and many of the methylated naphthalene compounds were consistently higher at the Chapel site, followed by the School site, and then the GLC site. This pattern was more striking during the summer campaign when auto traffic was heavier and temperatures were substantially warmer. For these lower molecular weight compounds (in Table 11, from naphthalene up to acenaphylene), eight of fourteen compounds are three times higher at the Chapel site than the GLC site. These include naphthalene, 2-methylnaphthalene and biphenyl. Examining the overall summary by site (Table 11) reveals that naphthalene levels at the GLC site were less than 40 percent the median level measured at the Chapel site, whereas the School site had naphthalene median concentration 62% of those at the Chapel site. The School site median level was about 92% of the Chapel site level for 2-methylnaphthalene. For the two main campaigns, naphthalene was twice as high during the summer at the Chapel site (110 ng/m^3) than in winter,

when winds from the lake sector were most prevalent. Seasonal differences were not apparent at the GLC and School sites for naphthalene.

Focus on Diesel Exhaust PAH

Tunnel and truck stop studies and emissions tests have characterized PAH and NPAH emitted from diesel engines. The profiles vary for many reasons including fuel, engine design, emission controls, engine load and atmospheric conditions. Complicating interpretation of atmospheric samples are PAHs from other sources, including coal and other biomass combustion, and evaporation from asphalt, tars and lubricants among other sources. Focusing on compounds with molecular weights greater than 188, several PAHs have been identified by Minegishi's truck stop study (2007) and reported in the literature (Schuetzle et al. 1982; Paputa-Peck et al. 1983; Havey et al. 2006; Zielinska et al. 2004) as probable indicators of diesel emissions. The following PAHs or groups of PAHs were designated as likely indicators of diesel exhaust: fluorene, phenanthrene, fluoranthene, pyrene, methylated group, anthracene, the sum of PAHs with molecular weights greater than 202 (chrysene+triphenylene, benzo[b]fluoranthene, indeno[1,2,3-c,d]pyrene, and benzo[g,h,i]perylene).

Comparing coronene, which has been associated with gasoline emissions, across our sites, reveals that the median concentration for the Chapel site was six times the GLC median and twice the School median. Whereas, the median value for retene, a reported marker for wood (Ramdahl 1983) are similar across all three sites.

Weekend and Day-Night Comparisons

For completeness, we have included Table 12 which compares all 72, 12-hour daytime samples to the nine weekend samples. Remember diesel truck traffic decreased substantially over the weekends while car traffic over the bridge did not. The weekend car traffic was

substantially higher during the week in the summer. Table 12 confirms that for most diesel-related compounds (naphthalene, 2-methylnaphthalene, biphenyl, fluorene, phenathrene, chrysene and triphenylene, benzo[b]fluoranthene and benzo[g,h,i]perylene) the weekday values were approximately twice the weekend median values. The median weekend value of coronene was about three times the weekday median. The higher weekend median for coronene suggests a higher contribution from gasoline-related PAHs to overall PAH levels during the weekend.

Table 13 compares the integrated 60-hour weekday samples to the weeknight samples collected during the summer for contrasting daytime and nighttime conditions during the week. For diesel markers, the levels measured at the Chapel site were somewhat higher at night. The truck crossings at night were around 20% of the daytime crossings, but mixing heights and wind speeds drop off at night, which may increase concentrations near the Plaza. In general, the School site showed higher concentrations for these marker compounds during the day. This pattern is consistent with more transport away from the Plaza and more local PAH sources or evaporative emissions during the day.

NPAH

From Minegishi's truck-stop sampling (2007) and reports from the literature (Schuetzle et al. 1982; Paputa-Peck et al. 1983; Havey et al. 2006; Zielinska et al. 2004), we have identified the following NPAHs as possible indicators of diesel emissions: 1N and 2N-naphthalene, 1N and 2N-pyrene, 9N-anthracene and N-phenathrene. Due to cost considerations we only analyzed NPAH samples in the winter pilot and summer campaigns. Detailed analysis is restricted to 19 NPAH that were more reliably and frequently detected. Table 14 presents the summary statistics for the 12-hour NPAH samples collected at the three fixed sites during the winter 2005 and summer 2005 sampling campaigns. Because of the larger number of samples collected, we will

focus on the summer 2005 results when the predominant wind direction blew from the GLC site across the Peace Bridge Plaza to the Chapel site. Overall NPAHs are about 100 to 1000 times less abundant than PAHs. Among the NPAHs, four compounds had median concentrations greater than 10 pg/m³ at the Chapel site. These were 1N-naphthalene and 2N-naphthalene, 2N-biphenyl and 3N-biphenyl, 5N-acenaphthalene and 9N-anthracene. The School site also had 2N-fluoranthene above 10 pg/m³ with 2N-biphenyl above 200 pg/m³. The median values for NPAHs measured at the GLC were all less than the other two sites.

A better indicator than the differences in median concentrations of PAHs across the sites are the differences of NPAH median concentrations for diesel emissions at the Chapel site. The Chapel site median concentrations were about ten times higher than the median values at the GLC site for both 9N-phenanthrene and 1N-pyrene;

Five of the six predominant diesel markers had substantially higher values at the Chapel site. The one compound inconsistent with this observation was 2N-pyrene, which had a median value at the School site exceeding the Chapel site by more than a factor of two. Results suggest that 2N-fluorene might be an additional marker for diesel emissions. The median value at the Chapel site is twice the median value for both the GLC and Chapel sites.

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Table 1. Descriptive Statistics of 12-Hour Weekday Samples (7:00A.M.-7:00P.M.) for PM₁₀, PM_{2.5} and EC-r for Winter 2005, Summer 2005 and Winter 2006 (µg/m³).

	Chapel						GLC						School					
	N	Mean	SD	Min	Median	Max	N	Mean	SD	Min	Median	Max	N	Mean	SD	Min	Median	Max
Winter 2005																		
PM ₁₀	3	12.1	1.3	11.1	11.5	13.6	2	11.6	0.3	11.3	11.6	11.8	2	9.2	3.8	6.5	9.2	11.8
PM _{2.5}	4	9.4	2.5	6.6	9.4	12.0	4	9.7	0.9	8.7	9.7	10.8	2	8.0	3.4	5.6	8.0	10.3
EC-r	4	1.7	0.7	1.1	1.7	2.5	4	0.8	0.5	0.4	0.7	1.6	2	1.0	0.8	0.5	1.0	1.6
Summer 2005																		
PM ₁₀	10	26.7	12.4	11.9	23.3	54.3	9	20.7	12.8	9.5	14.9	48.3	10	28.7	22.2	9.6	23.1	84.5
PM _{2.5}	10	20.9	13.7	8.5	17.2	55.5	14	15.4	9.9	7.5	11.4	43.9	10	19.5	16.2	6.3	14.5	61.5
EC-r	10	2.4	0.5	1.1	2.5	2.9	14	0.6	0.3	0.3	0.5	1.6	10	0.9	0.2	0.6	0.9	1.4
Winter 2006																		
PM ₁₀	10	24.3	7.4	10.0	25.3	34.4	10	17.6	7.3	8.3	17.8	31.1	10	19.2	6.7	1.3	19.3	29.2
PM _{2.5}	10	13.1	5.1	4.4	12.9	21.0	10	10.6	4.1	4.3	10.4	16.0	10	11.2	4.5	2.5	10.8	18.3
EC-r	10	1.9	0.8	0.7	1.9	3.1	10	0.8	0.5	0.1	0.6	1.6	10	1.0	0.3	0.7	1.0	1.4
Overall																		
PM ₁₀	23	23.8	10.4	10.0	23.2	54.3	19	19.1	10.1	8.3	17.2	48.3	22	22.6	16.5	6.5	20.1	84.5
PM _{2.5}	24	15.7	10.3	4.4	12.9	55.5	24	13.4	8.3	4.3	11.2	43.9	22	14.6	11.9	4.0	11.9	61.5
EC-r	24	2.1	0.7	0.7	2.2	3.1	24	0.7	0.4	0.1	0.6	1.6	22	1.0	0.3	0.3	0.9	1.6

Table 2. Descriptive Statistics of Weekend Samples for PM₁₀, PM_{2.5} and EC-r ($\mu\text{g}/\text{m}^3$) for the Winter 2005, Summer 2005 and Winter 2006 Campaigns

		PM ₁₀	PM _{2.5}	EC-r
Chapel	N	4	4	4
	Mean	12.1	7.6	0.6
	SD	3.8	2.7	0.1
	Min	8.2	5.1	0.4
	Median	12.0	7.6	0.6
	Max	16.4	9.9	0.7
GLC	N	4	4	4
	Mean	9.7	7.0	0.3
	SD	4.7	3.8	0.1
	Min	5.5	4.1	0.1
	Median	8.8	5.8	0.3
	Max	15.7	12.2	0.3
School	N	4	4	4
	Mean	12.1	7.5	0.4
	SD	3.8	2.2	0.0
	Min	7.1	5.3	0.4
	Median	12.6	7.2	0.4
	Max	16.2	10.3	0.4
Overall	N	12.0	12.0	12.0
	Mean	11.3	7.4	0.4
	SD	3.9	2.7	0.2
	Min	5.5	4.1	0.1
	Median	11.9	6.7	0.4
	Max	16.4	12.2	0.7

Table 3. Descriptive Statistics for the Five-Weekday (7:00A.M.-7:00P.M.) and Five-Weeknight (7:00P.M.-7:00A.M.) Integrated PM₁₀, PM_{2.5} and EC-r Samples, (µg/m³) for the Summer 2005 and Winter 2006 Campaigns

			N	Mean	SD	Minimum	Median	Maximum	Range
Summer	PM₁₀	Day	8	23.47	6.00	15.40	23.79	31.62	16.23
Summer	PM₁₀	Night	8	19.43	3.19	15.49	21.04	22.47	6.98
Summer	PM_{2.5}	Day	8	18.88	4.19	13.91	18.14	23.90	9.99
Summer	PM_{2.5}	Night	7	14.09	3.58	9.89	14.72	18.11	8.21
Summer	EC-r	Day	8	1.01	0.54	0.46	0.89	2.07	1.61
Summer	EC-r	Night	8	1.11	0.56	0.73	0.85	2.28	1.54
Winter	PM₁₀	Day	7	20.36	4.50	16.78	18.26	28.90	12.12
Winter	PM₁₀	Night	8	14.47	2.53	10.88	14.25	17.58	6.70
Winter	PM_{2.5}	Day	8	15.10	2.15	12.83	14.08	18.46	5.63
Winter	PM_{2.5}	Night	8	11.56	4.67	7.74	10.46	21.59	13.86
Winter	EC-r	Day	8	0.87	0.40	0.49	0.76	1.61	1.12
Winter	EC-r	Night	8	0.74	0.17	0.57	0.70	1.10	0.53

Table 4. Summary Statistics for VOCs ($\mu\text{g}/\text{m}^3$) for 48-Hour Weekend Samples by Site and Sampling Session and Overall for 12-Hour Samples (N for carbonyls 1 less than indicated)^a.

Weekend	Overall					Chapel		GLC		School	
	mean	SD	Min	Median	Max	Mean	SD	Mean	SD	Mean	SD
	N=10					N=3		N=4		N=3	
BTEX	4.3E+00	2.2E+00	1.7E+00	4.0E+00	7.6E+00	4.9E+00	2.2E+00	2.7E+00	1.3E+00	5.7E+00	2.1E+00
Benzene	7.5E-01	4.1E-01	2.1E-02	6.6E-01	1.4E+00	1.0E+00	2.6E-01	4.2E-01	2.8E-01	9.5E-01	4.4E-01
Toluene	1.7E+00	1.1E+00	2.3E-01	1.6E+00	3.2E+00	2.1E+00	1.0E+00	7.2E-01	4.0E-01	2.7E+00	6.5E-01
Ethylbenzene	2.8E-01	1.6E-01	7.5E-02	2.9E-01	4.9E-01	3.2E-01	1.6E-01	1.9E-01	1.5E-01	3.6E-01	1.7E-01
M,p-Xylene	1.1E+00	9.4E-01	2.2E-01	9.7E-01	3.3E+00	1.1E+00	5.5E-01	1.1E+00	1.5E+00	1.3E+00	6.3E-01
o-Xylene	3.9E-01	2.4E-01	8.8E-02	3.9E-01	6.9E-01	4.3E-01	2.2E-01	2.7E-01	2.8E-01	4.9E-01	2.3E-01
BTEXPlus	4.4E+00	2.2E+00	1.8E+00	4.4E+00	7.7E+00	5.1E+00	2.2E+00	2.9E+00	1.6E+00	5.9E+00	2.1E+00
1,3-Butadiene	6.0E-02	4.4E-02	0.0E+00	4.8E-02	1.7E-01	9.1E-02	6.7E-02	3.4E-02	2.3E-02	6.3E-02	2.4E-02
MTBE	6.6E-02	1.6E-01	6.5E-03	1.2E-02	5.3E-01	1.5E-02	9.7E-03	1.4E-01	2.6E-01	1.9E-02	7.8E-03
Styrene	5.0E-02	5.6E-02	9.5E-03	2.6E-02	2.0E-01	4.6E-02	2.4E-02	6.0E-02	9.2E-02	3.9E-02	2.3E-02
Formaldehyde	4.4E-01	6.3E-01	0.0E+00	2.9E-01	1.9E+00	4.6E-01	1.4E-02	3.8E-01	3.2E-01	7.5E-01	1.0E+00
Acetaldehyde	9.4E-01	1.3E+00	0.0E+00	5.4E-01	3.5E+00	6.6E-01	9.2E-02	1.4E+00	1.8E+00	1.2E+00	1.4E+00
Acetone	1.7E+00	2.3E+00	0.0E+00	1.2E+00	5.1E+00	2.2E+00	1.8E+00	2.4E+00	2.4E+00	2.3E+00	1.2E+00
Methylcyclohexane	1.3E-01	5.7E-02	6.9E-02	1.3E-01	2.4E-01	1.6E-01	3.5E-02	9.0E-02	2.9E-02	1.5E-01	8.4E-02
3-Methylhexane	3.1E-01	1.8E-01	1.1E-01	2.9E-01	6.1E-01	4.4E-01	7.0E-02	1.4E-01	4.4E-02	4.0E-01	2.0E-01
2-Methylhexane	2.6E-01	1.6E-01	5.1E-02	2.6E-01	5.5E-01	3.5E-01	4.1E-02	1.1E-01	5.7E-02	3.7E-01	1.7E-01
2,3-Dimethylpentane	1.6E-01	6.8E-02	4.6E-02	1.8E-01	2.5E-01	2.0E-01	3.5E-02	1.1E-01	7.7E-02	1.9E-01	4.2E-02
2,2,4-Trimethylpentane	3.6E-01	2.8E-01	9.9E-02	2.8E-01	9.8E-01	4.1E-01	2.0E-01	1.8E-01	1.1E-01	5.7E-01	3.8E-01
ΣChlorinated Compounds	1.0E+00	4.0E-01	3.6E-01	1.0E+00	1.8E+00	1.2E+00	4.9E-01	7.2E-01	3.4E-01	1.2E+00	1.9E-01
Chloroform	2.9E-02	4.5E-02	8.2E-03	1.3E-02	1.5E-01	1.6E-02	7.1E-03	5.0E-02	7.0E-02	1.3E-02	1.0E-03
1,1,1-Trichloroethane	1.0E-01	4.0E-02	5.5E-02	9.8E-02	2.1E-01	9.9E-02	1.0E-02	1.2E-01	6.6E-02	9.5E-02	1.4E-02
Carbon Tetrachloride	5.7E-01	2.8E-01	3.7E-03	7.0E-01	8.1E-01	6.8E-01	1.2E-01	4.2E-01	3.9E-01	6.7E-01	1.9E-01
Trichloroethene	3.3E-02	1.4E-02	1.1E-02	3.0E-02	5.4E-02	3.9E-02	1.5E-02	3.1E-02	1.7E-02	2.9E-02	1.1E-02
Tetrachloroethene	1.5E-01	1.7E-01	5.9E-02	9.3E-02	6.3E-01	2.6E-01	3.2E-01	7.8E-02	1.7E-02	1.3E-01	5.4E-02
1,4-Dichlorobenzene	1.2E-01	1.2E-01	0.0E+00	8.8E-02	3.7E-01	1.0E-01	5.9E-02	3.0E-02	2.3E-02	2.7E-01	1.1E-01
Overall 12 Hour	N=67										
BTEX	6.1E+00	3.7E+00	6.9E-01	5.7E+00	2.0E+01						
Benzene	1.1E+00	6.0E-01	2.8E-01	1.0E+00	3.9E+00						
Toluene	2.9E+00	1.9E+00	5.3E-02	2.5E+00	9.4E+00						

Table 4. Summary Statistics for VOCs ($\mu\text{g}/\text{m}^3$) for 48-Hour Weekend Samples by Site and Sampling Session and Overall for 12-Hour Samples (N for carbonyls 1 less than indicated)^a.

	Overall					Chapel		GLC		School	
	mean	SD	Min	Median	Max	Mean	SD	Mean	SD	Mean	SD
Ethylbenzene	3.8E-01	2.4E-01	---	3.6E-01	1.2E+00						
M,p-Xylene	1.3E+00	8.3E-01	1.9E-02	1.2E+00	4.0E+00						
o-Xylene	4.9E-01	3.2E-01	5.2E-03	4.8E-01	1.5E+00						
BTEXPlus	6.4E+00	3.9E+00	7.2E-01	5.9E+00	2.1E+01						
1,3-Butadiene	1.7E-01	2.6E-01	---	1.3E-01	2.1E+00						
MTBE	3.3E-02	5.1E-02	---	1.8E-02	2.4E-01						
Styrene	9.5E-02	1.1E-01	---	7.1E-02	7.8E-01						
Formaldehyde	1.2E+00	1.6E+00	---	6.7E-01	6.7E+00						
Acetaldehyde	4.3E+00	9.8E+00	---	1.4E+00	5.9E+01						
Acetone	5.9E+00	1.3E+01	---	2.0E+00	6.3E+01						
Methylcyclohexane	2.0E-01	2.0E-01	---	1.5E-01	1.4E+00						
3-Methylhexane	6.8E-01	1.2E+00	1.0E-01	4.1E-01	9.7E+00						
2-Methylhexane	5.3E-01	8.4E-01	7.5E-02	3.6E-01	6.7E+00						
2,3-Dimethylpentane	2.8E-01	4.5E-01	3.5E-02	1.8E-01	3.7E+00						
2,2,4-Trimethylpentane	5.8E-01	5.7E-01	---	3.8E-01	2.8E+00						
ΣChlorinated Compounds	1.1E+00	5.2E-01	1.5E-01	1.0E+00	4.1E+00						
Chloroform	3.6E-02	3.4E-02	---	2.8E-02	1.6E-01						
1,1,1-Trichloroethane	1.0E-01	4.6E-02	---	9.7E-02	4.4E-01						
Carbon Tetrachloride	6.6E-01	2.7E-01	---	6.2E-01	2.5E+00						
Trichloroethene	6.3E-02	1.0E-01	---	3.2E-02	6.5E-01						
Tetrachloroethene	1.2E-01	1.2E-01	---	1.1E-01	7.1E-01						
1,4-Dichlorobenzene	1.3E-01	1.9E-01	---	7.2E-02	9.1E-01						

^aA dash (---) denotes a value that was equal to zero or negative number after blank correction.

Table 5. Descriptive Statistics 12-Hour Weekday VOC Samples (7:00A.M.-7:00P.M.) by Sampling Session and Location ($\mu\text{g}/\text{m}^3$)^a

	Chapel					GLC					School				
	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
Winter 2005	N=3					N=4					N=3				
BTEX	5.5E+00	6.7E+00	6.9E-01	2.8E+00	1.3E+01	8.1E+00	8.6E+00	9.0E-01	5.8E+00	2.0E+01	1.1E+01	6.8E+00	4.1E+00	1.2E+01	1.8E+01
Benzene	1.1E+00	7.9E-01	5.8E-01	6.8E-01	2.0E+00	1.6E+00	1.6E+00	3.3E-01	1.1E+00	3.9E+00	1.7E+00	9.5E-01	6.6E-01	2.0E+00	2.5E+00
Toluene	2.6E+00	3.5E+00	5.3E-02	1.2E+00	6.5E+00	3.8E+00	4.0E+00	3.6E-01	2.7E+00	9.4E+00	5.8E+00	3.2E+00	2.2E+00	6.7E+00	8.5E+00
Ethylbenzene	3.3E-01	4.0E-01	---	1.7E-01	7.9E-01	5.0E-01	5.1E-01	6.5E-02	3.6E-01	1.2E+00	6.8E-01	4.7E-01	2.2E-01	6.6E-01	1.2E+00
m,p-Xylene	1.1E+00	1.5E+00	1.9E-02	5.2E-01	2.8E+00	1.6E+00	1.7E+00	1.0E-01	1.2E+00	4.0E+00	2.3E+00	1.6E+00	7.2E-01	2.2E+00	4.0E+00
o-Xylene	4.3E-01	5.7E-01	5.2E-03	2.1E-01	1.1E+00	6.2E-01	6.6E-01	3.9E-02	4.7E-01	1.5E+00	9.0E-01	6.2E-01	2.8E-01	9.0E-01	1.5E+00
BTEXPLus	5.8E+00	7.1E+00	7.2E-01	2.8E+00	1.4E+01	8.4E+00	8.8E+00	9.8E-01	6.1E+00	2.1E+01	1.2E+01	7.3E+00	4.2E+00	1.3E+01	1.9E+01
1,3-Butadiene	7.9E-02	1.1E-01	---	---	2.0E-01	1.1E-01	1.2E-01	---	8.7E-02	2.6E-01	1.4E-01	1.4E-01	1.7E-02	1.1E-01	2.9E-01
MTBE	9.5E-02	1.3E-01	---	3.9E-02	2.4E-01	1.3E-01	8.5E-02	3.9E-02	1.3E-01	2.2E-01	1.0E-01	1.1E-01	2.6E-02	4.5E-02	2.3E-01
Styrene	1.1E-01	1.5E-01	1.1E-02	3.2E-02	2.9E-01	9.5E-02	8.4E-02	2.2E-02	7.9E-02	2.0E-01	3.0E-01	4.1E-01	2.1E-02	1.1E-01	7.8E-01
Formaldehyde	1.1E+00	9.5E-01	2.9E-01	7.6E-01	2.1E+00	8.9E-01	2.6E-01	6.3E-01	9.0E-01	1.1E+00	6.3E-01	5.3E-01	---	8.5E-01	1.0E+00
Acetaldehyde	2.3E+00	1.6E+00	5.7E-01	3.0E+00	3.5E+00	6.0E+00	3.1E+00	2.6E+00	6.2E+00	8.9E+00	2.8E+00	2.6E+00	---	3.2E+00	5.2E+00
Acetone	2.3E+00	8.7E-01	1.5E+00	2.1E+00	3.2E+00	6.1E+00	5.8E+00	2.4E+00	3.6E+00	1.5E+01	3.7E+00	3.6E+00	---	3.8E+00	7.3E+00
Methylcyclohexane	2.0E-01	2.0E-01	6.6E-02	1.0E-01	4.4E-01	3.1E-01	3.0E-01	4.6E-02	2.3E-01	7.3E-01	3.7E-01	2.2E-01	1.5E-01	3.7E-01	5.8E-01
3-Methylhexane	3.8E-01	3.6E-01	1.1E-01	2.5E-01	7.9E-01	6.4E-01	4.7E-01	1.5E-01	5.8E-01	1.2E+00	7.7E-01	4.0E-01	3.4E-01	8.4E-01	1.1E+00
2-Methylhexane	3.8E-01	4.1E-01	7.5E-02	2.1E-01	8.5E-01	5.3E-01	4.3E-01	9.7E-02	4.8E-01	1.1E+00	6.9E-01	3.8E-01	2.9E-01	7.2E-01	1.0E+00
2,3-Dimethylpentane	1.9E-01	1.9E-01	6.0E-02	9.2E-02	4.1E-01	2.7E-01	2.3E-01	5.4E-02	2.2E-01	5.8E-01	3.5E-01	1.9E-01	1.4E-01	3.8E-01	5.1E-01
2,2,4-Trimethylpentane	7.4E-01	9.2E-01	1.4E-01	2.8E-01	1.8E+00	1.1E+00	7.2E-01	2.3E-01	1.0E+00	2.0E+00	1.3E+00	7.0E-01	4.9E-01	1.4E+00	1.9E+00
ΣChlorinated Compounds	9.7E-01	9.0E-01	1.5E-01	8.1E-01	1.9E+00	1.5E+00	1.7E+00	3.8E-01	8.3E-01	4.1E+00	1.2E+00	4.7E-01	8.2E-01	1.2E+00	1.8E+00
Chloroform	5.6E-02	9.1E-02	---	---	1.6E-01	1.2E-02	1.7E-02	---	---	3.6E-02	---	---	---	---	---
1,1,1-Trichloroethane	8.7E-02	5.5E-02	2.6E-02	1.0E-01	1.3E-01	1.7E-01	1.8E-01	5.4E-02	8.6E-02	4.4E-01	1.0E-01	2.5E-02	8.9E-02	9.2E-02	1.3E-01
Carbon Tetrachloride	5.6E-01	4.4E-01	1.0E-01	6.0E-01	9.9E-01	9.3E-01	1.0E+00	2.7E-01	4.8E-01	2.5E+00	6.4E-01	1.0E-01	5.6E-01	6.0E-01	7.5E-01
Trichloroethene	4.9E-02	7.1E-02	---	---	1.3E-01	1.1E-01	1.1E-01	2.7E-02	7.8E-02	2.6E-01	7.2E-02	6.4E-02	---	7.3E-02	1.4E-01
Tetrachloroethene	1.7E-01	2.2E-01	---	8.5E-02	4.3E-01	2.5E-01	3.1E-01	2.0E-02	1.4E-01	7.1E-01	2.4E-01	1.9E-01	5.5E-02	2.3E-01	4.3E-01
1,4-Dichlorobenzene	3.9E-02	5.2E-02	---	1.2E-02	9.8E-02	6.3E-02	6.7E-02	---	4.7E-02	1.5E-01	1.9E-01	1.0E-01	1.1E-01	1.6E-01	3.1E-01
Summer 2005	N=10					N=10					N=9				
BTEX	7.5E+00	1.8E+00	4.8E+00	7.3E+00	1.1E+01	2.7E+00	1.3E+00	1.4E+00	2.2E+00	5.4E+00	7.6E+00	1.3E+00	5.7E+00	7.1E+00	9.5E+00
Benzene	1.3E+00	3.8E-01	9.5E-01	1.2E+00	2.2E+00	7.0E-01	6.2E-01	2.8E-01	4.8E-01	2.4E+00	1.1E+00	1.9E-01	8.2E-01	1.1E+00	1.3E+00
Toluene	2.9E+00	9.3E-01	1.6E+00	2.8E+00	5.0E+00	1.0E+00	4.8E-01	6.5E-01	9.2E-01	2.4E+00	3.8E+00	9.2E-01	2.7E+00	3.6E+00	5.6E+00

Table 5. Descriptive Statistics 12-Hour Weekday VOC Samples (7:00A.M.-7:00P.M.) by Sampling Session and Location ($\mu\text{g}/\text{m}^3$)^a

	Chapel					GLC					School				
	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
Ethylbenzene	5.7E-01	1.2E-01	3.9E-01	5.4E-01	7.8E-01	1.9E-01	8.9E-02	7.6E-02	1.8E-01	4.1E-01	4.7E-01	7.4E-02	3.6E-01	4.7E-01	6.1E-01
m,p-Xylene	1.9E+00	4.6E-01	1.3E+00	1.8E+00	2.7E+00	5.4E-01	2.6E-01	2.1E-01	5.0E-01	1.2E+00	1.6E+00	2.6E-01	1.2E+00	1.6E+00	2.1E+00
o-Xylene	7.3E-01	1.6E-01	5.0E-01	6.8E-01	9.8E-01	2.1E-01	1.1E-01	7.7E-02	2.0E-01	5.0E-01	6.3E-01	1.0E-01	4.8E-01	6.2E-01	8.0E-01
BTEXPLus	7.7E+00	1.8E+00	5.0E+00	7.6E+00	1.1E+01	2.8E+00	1.4E+00	1.5E+00	2.3E+00	5.6E+00	7.8E+00	1.3E+00	5.9E+00	7.3E+00	9.7E+00
1,3-Butadiene	1.4E-01	2.7E-02	1.1E-01	1.4E-01	2.0E-01	9.2E-02	7.3E-02	3.4E-02	6.9E-02	2.6E-01	9.6E-02	1.8E-02	6.1E-02	9.6E-02	1.2E-01
MTBE	1.5E-02	8.9E-03	---	1.6E-02	2.9E-02	5.0E-03	3.1E-03	---	---	1.1E-02	1.9E-02	1.7E-02	---	1.4E-02	5.8E-02
Styrene	1.3E-01	5.0E-02	5.3E-02	1.2E-01	2.1E-01	2.6E-02	2.0E-02	---	3.0E-02	6.6E-02	1.2E-01	5.9E-02	6.5E-02	9.6E-02	2.6E-01
Formaldehyde	1.3E+00	1.9E+00	---	---	4.5E+00	3.1E-01	8.2E-01	---	---	2.6E+00	3.7E+00	2.4E+00	---	4.9E+00	6.7E+00
Acetaldehyde	8.2E+00	1.6E+01	---	1.6E+00	5.1E+01	1.1E+01	1.8E+01	---	2.5E+00	5.9E+01	3.1E+00	3.0E+00	1.3E+00	2.0E+00	1.1E+01
Acetone	9.5E+00	2.0E+01	---	---	6.1E+01	9.2E+00	2.1E+01	---	---	6.3E+01	1.1E+01	2.0E+01	---	1.8E+00	6.1E+01
Methylcyclohexane	1.5E-01	3.0E-02	1.1E-01	1.6E-01	2.0E-01	5.5E-02	2.2E-02	---	5.3E-02	9.5E-02	1.4E-01	3.3E-02	9.9E-02	1.3E-01	2.0E-01
3-Methylhexane	4.8E-01	1.1E-01	3.3E-01	4.7E-01	6.5E-01	2.5E-01	9.7E-02	1.3E-01	2.2E-01	4.8E-01	5.1E-01	2.4E-01	3.4E-01	4.2E-01	1.1E+00
2-Methylhexane	4.5E-01	9.6E-02	3.1E-01	4.5E-01	6.3E-01	2.1E-01	6.6E-02	1.1E-01	1.9E-01	3.6E-01	4.3E-01	1.6E-01	3.2E-01	3.6E-01	8.2E-01
2,3-Dimethylpentane	2.1E-01	4.9E-02	1.4E-01	2.1E-01	3.0E-01	1.0E-01	5.0E-02	3.5E-02	8.7E-02	2.2E-01	1.9E-01	5.8E-02	1.2E-01	1.7E-01	3.1E-01
2,2,4-Trimethylpentane	7.4E-01	7.8E-01	2.3E-01	4.7E-01	2.8E+00	4.1E-01	6.7E-01	---	2.1E-01	2.3E+00	5.3E-01	5.2E-01	1.9E-01	3.8E-01	1.9E+00
EChlorinated Compounds	8.1E-01	1.2E-01	6.4E-01	7.9E-01	1.0E+00	7.6E-01	1.2E-01	5.9E-01	7.3E-01	1.0E+00	1.3E+00	4.7E-01	7.3E-01	1.2E+00	2.1E+00
Chloroform	2.1E-02	2.4E-02	---	8.8E-03	6.6E-02	1.2E-02	1.4E-02	---	---	4.2E-02	6.0E-02	4.0E-02	---	6.7E-02	1.2E-01
1,1,1-Trichloroethane	9.6E-02	1.6E-02	8.1E-02	9.3E-02	1.4E-01	9.1E-02	1.8E-02	6.1E-02	9.4E-02	1.2E-01	9.8E-02	1.1E-02	8.2E-02	1.0E-01	1.1E-01
Carbon Tetrachloride	6.0E-01	1.1E-01	3.3E-01	6.1E-01	7.6E-01	5.8E-01	8.8E-02	4.3E-01	6.1E-01	6.8E-01	5.6E-01	1.4E-01	2.1E-01	6.1E-01	6.6E-01
Trichloroethene	2.1E-02	2.9E-02	---	---	9.8E-02	2.9E-02	4.2E-02	---	---	1.4E-01	8.8E-02	1.1E-01	---	2.3E-02	2.8E-01
Tetrachloroethene	5.7E-02	6.8E-02	---	2.6E-02	1.8E-01	4.4E-02	4.2E-02	---	3.2E-02	1.1E-01	7.0E-02	1.0E-01	---	7.0E-03	2.6E-01
1,4-Dichlorobenzene	1.4E-02	2.3E-02	---	---	6.9E-02	6.6E-03	1.1E-02	---	---	3.9E-02	4.5E-01	3.1E-01	1.5E-01	2.9E-01	9.1E-01
Winter 2006			N=10					N=9					n=9		
BTEX	5.6E+00	2.4E+00	3.2E+00	4.8E+00	1.1E+01	4.0E+00	2.2E+00	2.0E+00	3.3E+00	7.4E+00	7.1E+00	2.4E+00	4.0E+00	6.9E+00	1.1E+01
Benzene	1.2E+00	3.4E-01	9.0E-01	9.8E-01	1.8E+00	9.2E-01	4.1E-01	5.2E-01	8.0E-01	1.6E+00	1.1E+00	3.3E-01	5.6E-01	1.1E+00	1.6E+00
Toluene	2.6E+00	1.4E+00	1.2E+00	2.2E+00	5.8E+00	1.8E+00	9.3E-01	8.6E-01	1.6E+00	3.4E+00	3.8E+00	1.7E+00	1.7E+00	4.1E+00	7.3E+00
Ethylbenzene	3.2E-01	1.2E-01	2.1E-01	2.6E-01	5.4E-01	2.2E-01	1.4E-01	8.4E-02	1.5E-01	4.4E-01	3.6E-01	1.4E-01	2.3E-01	3.1E-01	6.7E-01
m,p-Xylene	1.1E+00	4.8E-01	6.1E-01	9.1E-01	1.9E+00	7.1E-01	5.2E-01	2.4E-01	4.9E-01	1.6E+00	1.3E+00	5.2E-01	8.6E-01	1.0E+00	2.4E+00
o-Xylene	4.3E-01	1.9E-01	2.4E-01	3.6E-01	7.7E-01	2.8E-01	2.1E-01	8.8E-02	1.9E-01	6.3E-01	5.0E-01	2.1E-01	3.3E-01	4.1E-01	9.7E-01
BTEXPLus	6.1E+00	3.0E+00	3.4E+00	5.2E+00	1.3E+01	4.2E+00	2.3E+00	2.1E+00	3.5E+00	7.7E+00	7.4E+00	2.5E+00	4.1E+00	7.2E+00	1.1E+01
1,3-Butadiene	4.3E-01	6.3E-01	8.1E-02	1.9E-01	2.1E+00	1.3E-01	4.3E-02	4.9E-02	1.4E-01	1.7E-01	1.8E-01	8.0E-02	5.5E-02	1.7E-01	3.1E-01

Table 5. Descriptive Statistics 12-Hour Weekday VOC Samples (7:00A.M.-7:00P.M.) by Sampling Session and Location ($\mu\text{g}/\text{m}^3$)^a

	Chapel					GLC					School				
	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
MTBE	2.3E-02	1.6E-02	8.8E-03	1.8E-02	5.4E-02	3.3E-02	2.9E-02	7.6E-03	2.6E-02	9.1E-02	2.6E-02	1.3E-02	8.5E-03	2.3E-02	5.5E-02
Styrene	8.7E-02	6.9E-02	3.5E-02	6.4E-02	2.7E-01	7.1E-02	6.2E-02	1.9E-02	6.3E-02	1.9E-01	7.8E-02	4.5E-02	3.4E-02	6.0E-02	1.7E-01
Formaldehyde	7.5E-01	5.0E-01	---	6.9E-01	1.9E+00	7.4E-01	3.1E-01	2.6E-01	8.9E-01	1.2E+00	7.1E-01	2.0E-01	3.8E-01	8.1E-01	9.4E-01
Acetaldehyde	8.4E-01	4.3E-01	1.2E-01	8.2E-01	1.4E+00	7.8E-01	4.3E-01	2.0E-01	6.6E-01	1.6E+00	1.0E+00	5.9E-01	---	1.1E+00	1.9E+00
Acetone	2.3E+00	2.0E+00	---	1.9E+00	6.9E+00	2.9E+00	1.6E+00	3.3E-01	2.6E+00	5.7E+00	2.1E+00	1.4E+00	4.7E-01	1.9E+00	5.2E+00
Methylcyclohexane	3.3E-01	3.9E-01	1.5E-01	2.0E-01	1.4E+00	1.7E-01	7.2E-02	1.1E-01	1.3E-01	2.8E-01	2.6E-01	1.2E-01	9.5E-02	2.3E-01	5.0E-01
3-Methylhexane	1.5E+00	2.9E+00	2.6E-01	4.8E-01	9.7E+00	4.1E-01	3.0E-01	1.0E-01	3.3E-01	9.9E-01	9.8E-01	6.8E-01	3.2E-01	8.5E-01	2.3E+00
2-Methylhexane	1.0E+00	2.0E+00	2.2E-01	3.6E-01	6.7E+00	3.0E-01	2.0E-01	1.0E-01	2.4E-01	6.3E-01	7.6E-01	6.4E-01	2.6E-01	6.5E-01	2.3E+00
2,3-Dimethylpentane	5.9E-01	1.1E+00	1.1E-01	2.3E-01	3.7E+00	1.7E-01	1.2E-01	6.2E-02	1.3E-01	4.0E-01	4.2E-01	2.4E-01	1.5E-01	3.8E-01	8.0E-01
2,2,4-Trimethylpentane	4.1E-01	1.9E-01	2.2E-01	3.3E-01	7.3E-01	3.4E-01	2.6E-01	9.1E-02	2.2E-01	8.5E-01	5.9E-01	2.7E-01	3.3E-01	4.9E-01	1.1E+00
ΣChlorinated Compounds	1.2E+00	3.0E-01	9.9E-01	1.1E+00	2.0E+00	1.1E+00	1.3E-01	9.4E-01	1.2E+00	1.3E+00	1.3E+00	2.4E-01	1.0E+00	1.3E+00	1.8E+00
Chloroform	4.5E-02	2.1E-02	1.2E-02	4.6E-02	7.6E-02	5.1E-02	3.2E-02	7.7E-03	4.7E-02	1.1E-01	4.4E-02	2.3E-02	6.6E-03	3.8E-02	7.1E-02
1,1,1-Trichloroethane	9.9E-02	5.5E-03	9.4E-02	9.7E-02	1.1E-01	1.0E-01	1.3E-02	8.1E-02	9.7E-02	1.3E-01	9.1E-02	1.5E-02	5.7E-02	9.3E-02	1.1E-01
Carbon Tetrachloride	7.2E-01	5.8E-02	6.0E-01	7.3E-01	8.2E-01	7.2E-01	9.1E-02	5.0E-01	7.4E-01	8.4E-01	7.0E-01	9.1E-02	5.3E-01	7.3E-01	8.1E-01
Trichloroethene	1.0E-01	1.9E-01	2.5E-02	4.0E-02	6.5E-01	4.8E-02	1.7E-02	2.8E-02	4.3E-02	7.5E-02	7.6E-02	1.2E-01	1.6E-02	3.6E-02	3.8E-01
Tetrachloroethene	1.7E-01	9.0E-02	8.0E-02	1.3E-01	3.4E-01	1.5E-01	4.2E-02	9.9E-02	1.3E-01	2.1E-01	1.5E-01	7.6E-02	8.5E-02	1.2E-01	3.4E-01
1,4-Dichlorobenzene	7.5E-02	3.6E-02	3.8E-02	6.5E-02	1.3E-01	8.3E-02	3.8E-02	3.8E-02	7.2E-02	1.4E-01	2.2E-01	5.2E-02	1.4E-01	2.4E-01	2.9E-01
Overall			N=23					N=23					N=23		
BTEX	6.4E+00	2.9E+00	6.9E-01	6.2E+00	1.3E+01	4.1E+00	4.0E+00	9.0E-01	2.6E+00	2.0E+01	7.9E+00	3.1E+00	4.0E+00	7.1E+00	1.8E+01
Benzene	1.2E+00	4.2E-01	5.8E-01	1.1E+00	2.2E+00	9.4E-01	8.3E-01	2.8E-01	6.2E-01	3.9E+00	1.2E+00	4.4E-01	5.6E-01	1.1E+00	2.5E+00
Toluene	2.7E+00	1.5E+00	5.3E-02	2.4E+00	6.5E+00	1.8E+00	1.9E+00	3.6E-01	1.1E+00	9.4E+00	4.1E+00	1.8E+00	1.7E+00	3.8E+00	8.5E+00
Ethylbenzene	4.3E-01	2.1E-01	---	4.3E-01	7.9E-01	2.5E-01	2.4E-01	6.5E-02	1.8E-01	1.2E+00	4.5E-01	2.1E-01	2.2E-01	4.7E-01	1.2E+00
m,p-Xylene	1.4E+00	7.4E-01	1.9E-02	1.4E+00	2.8E+00	8.0E-01	8.3E-01	1.0E-01	5.2E-01	4.0E+00	1.5E+00	7.3E-01	7.2E-01	1.5E+00	4.0E+00
o-Xylene	5.6E-01	2.8E-01	5.2E-03	5.7E-01	1.1E+00	3.1E-01	3.2E-01	3.9E-02	2.1E-01	1.5E+00	6.1E-01	2.8E-01	2.8E-01	6.1E-01	1.5E+00
BTEXPlus	6.8E+00	3.2E+00	7.2E-01	6.4E+00	1.4E+01	4.3E+00	4.2E+00	9.8E-01	2.8E+00	2.1E+01	8.2E+00	3.3E+00	4.1E+00	7.3E+00	1.9E+01
1,3-Butadiene	2.6E-01	4.3E-01	---	1.5E-01	2.1E+00	1.1E-01	7.1E-02	---	1.1E-01	2.6E-01	1.4E-01	7.8E-02	---	1.1E-01	3.1E-01
MTBE	2.9E-02	4.8E-02	---	1.7E-02	2.4E-01	3.8E-02	5.8E-02	---	1.1E-02	2.2E-01	3.4E-02	4.8E-02	---	2.2E-02	2.3E-01
Styrene	1.1E-01	7.4E-02	1.1E-02	8.7E-02	2.9E-01	5.6E-02	5.8E-02	---	3.3E-02	2.0E-01	1.3E-01	1.6E-01	2.1E-02	9.1E-02	7.8E-01
Formaldehyde	1.0E+00	1.3E+00	---	6.4E-01	4.5E+00	5.8E-01	6.2E-01	---	5.0E-01	2.6E+00	2.0E+00	2.2E+00	---	8.5E-01	6.7E+00
Acetaldehyde	4.2E+00	1.1E+01	---	1.1E+00	5.1E+01	6.2E+00	1.3E+01	---	1.6E+00	5.9E+01	2.2E+00	2.3E+00	---	1.5E+00	1.1E+01
Acetone	5.4E+00	1.3E+01	---	1.5E+00	6.1E+01	6.2E+00	1.4E+01	---	2.4E+00	6.3E+01	6.0E+00	1.3E+01	---	1.9E+00	6.1E+01

Table 5. Descriptive Statistics 12-Hour Weekday VOC Samples (7:00A.M.-7:00P.M.) by Sampling Session and Location ($\mu\text{g}/\text{m}^3$)^a

	Chapel					GLC					School				
	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
Methylcyclohexane	2.3E-01	2.7E-01	6.6E-02	1.6E-01	1.4E+00	1.4E-01	1.5E-01	---	1.1E-01	7.3E-01	2.3E-01	1.3E-01	9.5E-02	1.7E-01	5.8E-01
3-Methylhexane	9.0E-01	1.9E+00	1.1E-01	4.3E-01	9.7E+00	3.8E-01	2.9E-01	1.0E-01	2.5E-01	1.2E+00	7.5E-01	5.2E-01	3.2E-01	5.7E-01	2.3E+00
2-Methylhexane	6.9E-01	1.3E+00	7.5E-02	3.9E-01	6.7E+00	3.0E-01	2.3E-01	9.7E-02	2.1E-01	1.1E+00	6.1E-01	4.6E-01	2.6E-01	4.4E-01	2.3E+00
2,3-Dimethylpentane	3.7E-01	7.3E-01	6.0E-02	2.1E-01	3.7E+00	1.6E-01	1.3E-01	3.5E-02	1.1E-01	5.8E-01	3.1E-01	2.0E-01	1.2E-01	2.5E-01	8.0E-01
2,2,4-Trimethylpentane	6.0E-01	6.1E-01	1.4E-01	3.6E-01	2.8E+00	4.9E-01	5.9E-01	---	2.5E-01	2.3E+00	6.6E-01	5.0E-01	1.9E-01	4.4E-01	1.9E+00
ΣChlorinated Compounds	1.0E+00	3.9E-01	1.5E-01	9.9E-01	2.0E+00	1.0E+00	7.0E-01	3.8E-01	8.5E-01	4.1E+00	1.3E+00	3.7E-01	7.3E-01	1.2E+00	2.1E+00
Chloroform	3.6E-02	3.7E-02	---	2.8E-02	1.6E-01	2.7E-02	3.0E-02	---	1.7E-02	1.1E-01	4.5E-02	3.5E-02	---	3.8E-02	1.2E-01
1,1,1-Trichloroethane	9.6E-02	2.0E-02	---	9.7E-02	1.4E-01	1.1E-01	7.4E-02	5.4E-02	9.5E-02	4.4E-01	9.6E-02	1.5E-02	5.7E-02	9.3E-02	1.3E-01
Carbon Tetrachloride	6.5E-01	1.7E-01	---	6.7E-01	9.9E-01	7.0E-01	4.1E-01	2.7E-01	6.2E-01	2.5E+00	6.3E-01	1.3E-01	2.1E-01	6.2E-01	8.1E-01
Trichloroethene	6.1E-02	1.3E-01	---	2.9E-02	6.5E-01	5.0E-02	5.7E-02	---	3.5E-02	2.6E-01	8.0E-02	1.0E-01	---	3.7E-02	3.8E-01
Tetrachloroethene	1.2E-01	1.1E-01	---	9.8E-02	4.3E-01	1.2E-01	1.4E-01	---	1.0E-01	7.1E-01	1.3E-01	1.2E-01	---	1.1E-01	4.3E-01
1,4-Dichlorobenzene	4.3E-02	4.3E-02	---	4.1E-02	1.3E-01	4.6E-02	5.0E-02	---	3.8E-02	1.5E-01	3.2E-01	2.4E-01	1.1E-01	2.4E-01	9.1E-01

^aA dash (---) denotes a value that was equal to zero or negative number after blank correction.

Table 6. Descriptive Statistics of the Five-Weekday (7:00A.M.-7:00P.M.) and Five Weeknight (7:00P.M.-7:00A.M.) VOC Samples ($\mu\text{g}/\text{m}^3$), Summer 2005 and Winter 2006 by Site^a

	Chapel AM		GLC AM		School AM		N=4 (Carbonyl=3)		Chapel PM		N=4 (Carbonyl=3)		GLC PM		School PM	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
BTEX	5.7E+03	1.0E+03	3.7E+03	1.2E+03	7.3E+03	1.5E+03	5.4E+03	1.6E+03	4.9E+03	1.9E+03	5.7E+03	3.5E+03				
Benzene	1.4E+03	2.7E+02	8.8E+02	2.7E+02	1.3E+03	2.3E+02	1.2E+03	2.9E+02	1.1E+03	4.2E+02	1.1E+03	3.6E+02				
Toluene	2.8E+03	5.9E+02	2.0E+03	6.4E+02	4.2E+03	1.1E+03	2.8E+03	6.5E+02	2.6E+03	7.6E+02	2.9E+03	2.0E+03				
Ethylbenzene	4.2E+02	1.0E+02	2.3E+02	6.9E+01	4.7E+02	8.9E+01	3.7E+02	1.9E+02	3.3E+02	2.0E+02	4.5E+02	3.2E+02				
M,p-Xylene	1.4E+03	3.2E+02	7.4E+02	2.5E+02	1.6E+03	3.3E+02	1.3E+03	6.7E+02	1.1E+03	7.4E+02	1.6E+03	1.1E+03				
o-Xylene	5.4E+02	1.3E+02	3.0E+02	8.4E+01	6.2E+02	1.2E+02	4.7E+02	2.3E+02	4.2E+02	2.6E+02	6.2E+02	4.5E+02				
BTEXPLus	5.9E+03	1.0E+03	4.0E+03	1.4E+03	7.6E+03	1.5E+03	5.6E+03	1.6E+03	5.1E+03	1.9E+03	5.9E+03	3.5E+03				
1,3-Butadiene	1.1E+02	6.8E+01	1.7E+02	2.2E+02	1.4E+02	8.0E+01	1.0E+02	3.8E+01	9.6E+01	5.7E+01	7.5E+01	2.9E+01				
MTBE	1.2E+01	9.1E+00	1.5E+01	1.0E+01	4.2E+01	5.1E+01	1.8E+01	1.0E+01	2.1E+01	1.0E+01	1.9E+01	1.3E+01				
Styrene	5.9E+01	3.1E+01	4.3E+01	1.1E+01	8.6E+01	4.4E+01	4.7E+01	2.9E+01	5.8E+01	5.0E+01	7.6E+01	5.6E+01				
Formaldehyde	5.0E-01	3.4E-01	1.8E-01	6.3E-02	1.4E+00	1.6E+00	2.9E-01	2.0E-01	7.8E-01	7.6E-01	1.1E+00	1.6E+00				
Acetaldehyde	4.3E+00	7.3E+00	6.2E+00	8.1E+00	4.6E+00	6.6E+00	4.7E+00	7.2E+00	7.0E+00	7.7E+00	4.0E+00	6.0E+00				
Acetone	2.8E+00	2.0E+00	9.3E-01	1.1E+00	1.6E+00	1.2E+00	9.8E-01	9.1E-01	8.1E-01	9.2E-01	2.1E+00	2.0E+00				
Methylcyclohexane	1.8E+02	2.2E+01	2.2E+02	1.7E+02	2.4E+02	9.6E+01	1.9E+02	2.3E+01	1.9E+02	4.5E+01	2.5E+02	1.2E+02				
3-Methylhexane	5.1E+02	1.1E+02	8.1E+02	9.4E+02	9.9E+02	5.8E+02	5.2E+02	9.9E+01	5.9E+02	2.1E+02	7.0E+02	5.0E+02				
2-Methylhexane	4.3E+02	8.2E+01	5.9E+02	7.0E+02	6.5E+02	2.6E+02	4.1E+02	3.8E+01	4.7E+02	1.3E+02	4.9E+02	2.8E+02				
2,3-Dimethylpentane	2.2E+02	4.1E+01	3.3E+02	3.8E+02	4.0E+02	1.8E+02	2.1E+02	2.6E+01	2.5E+02	7.4E+01	3.3E+02	2.4E+02				
2,2,4-Trimethylpentane	5.3E+02	1.5E+02	3.2E+02	8.2E+01	8.3E+02	3.9E+02	4.6E+02	1.9E+02	3.9E+02	2.0E+02	6.8E+02	3.6E+02				
Σ Chlorinated Compounds	8.8E+02	2.8E+02	7.7E+02	5.2E+02	1.3E+03	6.3E+02	1.0E+03	3.0E+02	9.8E+02	3.0E+02	1.4E+03	1.1E+03				
Chloroform	2.1E+01	1.1E+01	2.0E+01	7.8E+00	3.1E+01	1.4E+01	3.1E+01	1.7E+01	1.7E+01	2.0E+01	4.8E+01	1.5E+01				
1,1,1-Trichloroethane	6.6E+01	4.5E+01	4.9E+01	1.2E+01	7.9E+01	4.8E+01	5.8E+01	2.3E+01	4.1E+01	7.7E+00	5.7E+01	3.9E+00				
Carbon Tetrachloride	5.6E+02	1.6E+02	4.8E+02	4.5E+02	5.7E+02	1.3E+02	6.1E+02	1.1E+02	6.1E+02	1.0E+02	4.8E+02	3.3E+02				
Trichloroethene	9.3E+01	6.8E+00	9.0E+01	2.2E+01	9.8E+01	8.2E+00	9.1E+01	2.0E+01	8.0E+01	3.3E+01	8.7E+01	6.0E+01				
Tetrachloroethene	6.6E+01	4.0E+01	4.7E+01	1.8E+01	7.9E+01	4.8E+01	5.3E+01	2.0E+01	5.1E+01	1.8E+01	5.7E+01	3.9E+00				
1,4-Dichlorobenzene	7.1E+01	2.2E+01	8.5E+01	1.5E+01	4.2E+02	3.8E+02	2.0E+02	1.1E+02	1.7E+02	1.2E+02	6.7E+02	6.5E+02				

Table 7. Summary Statistics of Elemental Analysis for 12-Hour Samples by Site (ng/m³)^a

	Chapel						GLC						School					
	N	Mean	SD	Min	Median	Max	N	Mean	SD	Min	Median	Max	N	Mean	SD	Min	Median	Max
Be	23	3.2E-03	2.4E-03	---	2.4E-03	9.4E-03	23	3.0E-03	2.4E-03	2.6E-04	2.6E-03	8.7E-03	14	2.4E-03	1.4E-03	5.6E-04	2.0E-03	5.9E-03
Na	23	5.8E+01	4.8E+01	3.4E+00	4.7E+01	2.0E+02	23	5.4E+01	4.6E+01	3.7E+00	3.8E+01	1.9E+02	14	5.5E+01	5.5E+01	4.8E+00	3.7E+01	1.8E+02
Mg	23	1.5E+01	8.9E+00	1.7E-01	1.4E+01	4.3E+01	23	1.3E+01	9.8E+00	3.2E+00	1.1E+01	4.8E+01	14	1.3E+01	5.4E+00	6.6E+00	1.3E+01	2.8E+01
Al	23	4.0E+01	6.5E+01	---	2.8E+01	3.2E+02	23	2.9E+01	3.7E+01	---	1.5E+01	1.4E+02	14	3.9E+01	3.7E+01	8.3E+00	2.4E+01	1.5E+02
S	23	1.7E+03	1.3E+03	5.6E+01	1.6E+03	6.1E+03	23	1.6E+03	1.1E+03	3.6E+02	1.4E+03	5.2E+03	14	1.8E+03	1.8E+03	3.1E+02	1.4E+03	7.5E+03
K	23	3.9E+01	1.9E+01	6.4E-01	4.0E+01	7.8E+01	23	3.8E+01	1.9E+01	1.3E+01	3.8E+01	9.7E+01	14	4.6E+01	2.4E+01	1.7E+01	4.1E+01	1.0E+02
Ca	23	7.9E+01	1.2E+02	2.5E+00	5.6E+01	6.1E+02	23	4.7E+01	5.3E+01	4.0E+00	2.5E+01	2.3E+02	14	4.0E+01	2.4E+01	---	3.3E+01	9.8E+01
Sc	23	7.6E-03	1.1E-02	---	4.5E-03	4.8E-02	23	6.1E-03	1.1E-02	---	2.9E-03	3.7E-02	14	6.6E-03	9.6E-03	---	4.1E-03	2.2E-02
Ti	23	4.2E+00	6.3E+00	8.1E-02	3.0E+00	3.2E+01	23	2.6E+00	2.1E+00	3.2E-01	2.1E+00	9.7E+00	14	2.9E+00	1.6E+00	1.0E+00	2.5E+00	6.1E+00
V	23	1.2E+00	1.1E+00	1.9E-01	8.6E-01	5.5E+00	23	1.2E+00	8.6E-01	1.2E-01	1.2E+00	3.1E+00	14	1.4E+00	1.4E+00	2.7E-01	7.8E-01	5.7E+00
Cr	23	7.2E-01	1.5E+00	---	4.1E-01	6.8E+00	23	1.9E-01	4.4E-01	---	1.4E-01	1.4E+00	14	1.1E+00	2.1E+00	1.5E-01	3.7E-01	8.1E+00
Mn	23	2.3E+00	8.8E-01	---	2.4E+00	3.9E+00	23	1.9E+00	8.9E-01	6.5E-01	1.7E+00	4.4E+00	14	1.9E+00	6.2E-01	6.6E-01	2.0E+00	2.9E+00
Fe	23	8.8E+01	3.7E+01	---	9.1E+01	1.9E+02	23	5.7E+01	4.6E+01	1.1E+01	4.8E+01	2.3E+02	14	5.5E+01	2.2E+01	2.5E+01	5.1E+01	1.0E+02
Co	23	3.8E-02	1.7E-02	---	3.8E-02	6.8E-02	23	3.0E-02	1.8E-02	4.8E-03	2.7E-02	7.1E-02	14	3.3E-02	1.5E-02	1.1E-02	3.3E-02	5.6E-02
Ni	23	7.3E-01	1.0E+00	---	4.5E-01	4.8E+00	23	6.3E-01	5.7E-01	1.9E-02	5.3E-01	2.8E+00	14	6.2E-01	5.4E-01	1.9E-01	4.6E-01	2.2E+00
Cu	23	5.6E+00	6.9E+00	3.7E-03	3.5E+00	2.6E+01	23	1.7E+00	1.3E+00	9.8E-02	1.4E+00	4.9E+00	14	3.4E+00	2.8E+00	8.3E-01	2.3E+00	1.1E+01
Zn	23	1.8E+01	1.5E+01	---	1.5E+01	7.2E+01	23	1.8E+01	2.0E+01	---	1.3E+01	9.0E+01	14	2.5E+01	2.1E+01	4.4E+00	1.4E+01	7.3E+01
As	23	6.3E-01	3.2E-01	6.7E-03	5.5E-01	1.2E+00	23	6.4E-01	3.2E-01	2.2E-01	5.7E-01	1.4E+00	14	6.5E-01	3.5E-01	2.4E-01	5.6E-01	1.5E+00
Se	23	1.5E+00	9.9E-01	2.0E-01	1.2E+00	3.6E+00	23	1.4E+00	8.7E-01	2.5E-01	1.4E+00	2.9E+00	14	1.4E+00	1.1E+00	2.9E-01	1.1E+00	4.7E+00
Sr	23	1.4E+00	2.3E+00	6.1E-02	4.7E-01	8.8E+00	23	1.0E+00	1.7E+00	2.2E-02	3.2E-01	5.9E+00	14	1.8E+00	2.6E+00	1.8E-01	3.5E-01	7.9E+00
Ag	23	1.3E-02	9.9E-03	2.5E-03	1.1E-02	4.5E-02	23	2.3E-02	4.7E-02	---	9.2E-03	2.2E-01	14	2.1E-02	3.4E-02	3.1E-03	1.1E-02	1.4E-01
Cd	23	1.6E-01	1.9E-01	4.6E-03	9.6E-02	7.9E-01	23	1.7E-01	2.1E-01	5.7E-03	1.0E-01	8.4E-01	14	1.5E-01	2.2E-01	9.1E-03	7.8E-02	7.6E-01
Sn	23	1.2E+00	7.9E-01	5.0E-03	1.1E+00	3.9E+00	23	1.1E+00	8.3E-01	2.2E-01	8.6E-01	3.7E+00	14	1.2E+00	8.3E-01	3.5E-01	9.5E-01	3.1E+00
Sb	23	7.9E-01	3.9E-01	9.4E-03	7.6E-01	1.6E+00	23	5.2E-01	3.7E-01	1.2E-01	4.4E-01	1.5E+00	14	4.5E-01	1.9E-01	1.7E-01	4.3E-01	7.8E-01
Cs	23	1.1E-02	6.8E-03	---	1.1E-02	2.6E-02	23	1.1E-02	7.5E-03	2.0E-03	9.2E-03	3.6E-02	14	1.0E-02	6.4E-03	7.3E-04	1.0E-02	2.3E-02
La	23	7.6E-02	4.6E-02	9.7E-03	7.1E-02	1.9E-01	23	6.3E-02	4.0E-02	2.7E-03	5.5E-02	1.8E-01	14	7.3E-02	4.8E-02	1.3E-02	5.8E-02	1.7E-01
Pt	3	3.0E-04	1.4E-04	1.4E-04	3.6E-04	4.0E-04	3	2.7E-04	1.6E-04	1.1E-04	2.8E-04	4.3E-04	4	7.4E-04	7.6E-04	2.8E-04	4.1E-04	1.9E-03
Tl	20	1.7E-02	1.0E-02	1.2E-03	1.4E-02	3.5E-02	20	1.6E-02	1.0E-02	1.3E-03	1.4E-02	3.4E-02	10	1.3E-02	6.7E-03	3.6E-03	1.1E-02	2.7E-02
Pb	23	3.9E+00	2.4E+00	1.7E-01	4.0E+00	1.0E+01	23	3.6E+00	1.9E+00	1.0E+00	3.2E+00	9.8E+00	14	1.5E+01	4.1E+01	2.1E+00	3.2E+00	1.6E+02

^aA dash (---) denotes a value that was equal to zero or negative number after blank correction.

Table 8. Summary Statistics of Elemental Analysis for 12-Hour Samples and 48-Hour Weekend Samples (ng/m³)^a

	12-Hour N=60					Weekend N=6				
	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
Be	2.9E-03	2.2E-03	---	2.3E-03	9.4E-03	1.4E-03	4.8E-04	7.2E-04	1.6E-03	2.0E-03
Na	5.6E+01	4.8E+01	3.4E+00	3.9E+01	2.0E+02	7.5E+01	5.2E+01	2.5E+01	7.0E+01	1.4E+02
Mg	1.4E+01	8.6E+00	1.7E-01	1.2E+01	4.8E+01	1.5E+01	3.9E+00	1.1E+01	1.5E+01	2.0E+01
Al	3.5E+01	4.9E+01	---	2.3E+01	3.2E+02	1.8E+01	1.9E+01	---	1.7E+01	5.1E+01
S	1.7E+03	1.3E+03	5.6E+01	1.5E+03	7.5E+03	6.5E+02	2.2E+02	4.5E+02	6.1E+02	1.0E+03
K	4.1E+01	2.0E+01	6.4E-01	4.0E+01	1.0E+02	3.5E+01	1.1E+01	2.6E+01	3.1E+01	5.7E+01
Ca	5.8E+01	8.3E+01	---	3.8E+01	6.1E+02	3.4E+01	9.2E+00	2.2E+01	3.1E+01	4.5E+01
Sc	6.8E-03	1.0E-02	---	4.0E-03	4.8E-02	4.1E-03	2.2E-03	1.8E-03	4.0E-03	7.5E-03
Ti	3.3E+00	4.2E+00	8.1E-02	2.4E+00	3.2E+01	1.9E+00	1.7E+00	8.0E-01	8.2E-01	1.6E+00
V	1.2E+00	1.1E+00	1.2E-01	8.5E-01	5.7E+00	8.8E-01	3.6E-01	5.1E-01	8.6E-01	1.4E+00
Cr	6.0E-01	1.4E+00	---	2.8E-01	8.1E+00	3.4E-01	1.9E-01	---	3.9E-01	5.1E-01
Mn	2.0E+00	8.4E-01	---	2.0E+00	4.4E+00	1.1E+00	9.6E-02	9.2E-01	1.1E+00	1.2E+00
Fe	6.9E+01	4.1E+01	---	6.3E+01	2.3E+02	3.3E+01	1.3E+01	1.9E+01	3.0E+01	5.2E+01
Co	3.4E-02	1.7E-02	---	3.2E-02	7.1E-02	1.9E-02	3.5E-03	1.4E-02	1.8E-02	2.3E-02
Ni	6.7E-01	7.5E-01	---	4.6E-01	4.8E+00	4.4E-01	1.5E-01	2.6E-01	4.3E-01	6.4E-01
Cu	3.6E+00	4.8E+00	3.7E-03	2.2E+00	2.6E+01	2.2E+00	3.0E+00	---	9.7E-01	7.8E+00
Zn	2.0E+01	1.8E+01	---	1.4E+01	9.0E+01	5.4E+00	4.2E+00	---	6.4E+00	1.1E+01
As	6.4E-01	3.2E-01	6.7E-03	5.7E-01	1.5E+00	1.1E+00	4.4E-01	7.0E-01	1.0E+00	1.9E+00
Se	1.5E+00	9.6E-01	2.0E-01	1.2E+00	4.7E+00	8.6E-01	3.2E-01	5.1E-01	8.2E-01	1.4E+00
Sr	1.4E+00	2.1E+00	2.2E-02	4.1E-01	8.8E+00	2.7E+00	2.6E+00	2.5E-01	2.7E+00	5.4E+00
Ag	1.8E-02	3.4E-02	---	1.0E-02	2.2E-01	8.1E-03	3.5E-03	3.9E-03	8.0E-03	1.4E-02
Cd	1.6E-01	2.0E-01	4.6E-03	8.4E-02	8.4E-01	9.3E-02	9.3E-02	4.2E-03	8.5E-02	1.9E-01
Sn	1.1E+00	8.0E-01	5.0E-03	9.1E-01	3.9E+00	5.2E-01	2.8E-01	2.4E-01	4.7E-01	8.5E-01
Sb	6.1E-01	3.7E-01	9.4E-03	5.4E-01	1.6E+00	3.8E-01	2.4E-01	9.9E-02	3.5E-01	7.0E-01
Cs	1.1E-02	6.8E-03	---	1.0E-02	3.6E-02	6.5E-03	2.5E-03	4.0E-03	6.2E-03	1.1E-02
La	7.0E-02	4.4E-02	2.7E-03	6.3E-02	1.9E-01	2.9E-02	9.1E-03	2.0E-02	2.9E-02	4.2E-02
Pt	4.7E-04	5.1E-04	1.1E-04	3.6E-04	1.9E-03	6.2E-05	1.3E-05	4.8E-05	6.2E-05	7.5E-05
Tl	1.6E-02	9.7E-03	1.2E-03	1.3E-02	3.5E-02	1.2E-02	1.0E-03	1.1E-02	1.1E-02	1.3E-02
Pb	6.3E+00	2.0E+01	1.7E-01	3.3E+00	1.6E+02	4.2E+00	3.2E+00	1.5E+00	3.5E+00	1.0E+01

^aA dash (---) denotes a value that was equal to zero or negative number after blank correction.

Table 9. Descriptive Statistics for 12-Hour Weekday Elemental Samples (7:00A.M.-7:00P.M.) by Sampling Session and Location (ng/m³)^a

			Chapel			GLC					School				
	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
Winter 2005			N=3			N=3					N=4				
Be	2.8E-03	2.8E-03	9.6E-04	1.5E-03	6.1E-03	2.8E-03	4.3E-03	2.6E-04	4.3E-04	7.8E-03	2.2E-03	6.8E-04	1.8E-03	1.9E-03	3.2E-03
Na	1.1E+02	7.6E+01	6.5E+01	7.6E+01	2.0E+02	8.8E+01	2.7E+01	7.0E+01	7.5E+01	1.2E+02	1.3E+02	5.3E+01	6.7E+01	1.3E+02	1.8E+02
Mg	1.6E+01	1.1E+01	9.1E+00	1.0E+01	2.9E+01	1.5E+01	6.4E+00	9.1E+00	1.4E+01	2.2E+01	1.5E+01	8.6E+00	8.8E+00	1.2E+01	2.8E+01
Al	1.6E+01	6.6E+00	8.5E+00	1.9E+01	2.1E+01	1.0E+01	1.2E+01	---	6.8E+00	2.4E+01	6.3E+01	6.2E+01	1.7E+01	4.4E+01	1.5E+02
S	1.0E+03	4.7E+02	5.9E+02	9.9E+02	1.5E+03	1.1E+03	4.5E+02	6.5E+02	1.1E+03	1.5E+03	1.1E+03	4.1E+02	6.6E+02	1.1E+03	1.6E+03
K	3.9E+01	8.6E+00	2.9E+01	4.4E+01	4.5E+01	3.9E+01	8.5E+00	3.0E+01	4.3E+01	4.5E+01	4.5E+01	6.9E+00	4.0E+01	4.3E+01	5.5E+01
Ca	3.2E+01	1.6E+01	2.1E+01	2.5E+01	5.1E+01	4.2E+01	3.3E+01	1.6E+01	3.0E+01	8.0E+01	2.9E+01	7.7E+00	2.1E+01	2.8E+01	3.9E+01
Sc	2.9E-03	6.4E-04	2.5E-03	2.6E-03	3.6E-03	2.5E-03	5.5E-04	1.8E-03	2.7E-03	2.9E-03	3.2E-03	1.2E-03	1.6E-03	3.4E-03	4.4E-03
Ti	1.6E+00	5.4E-01	1.3E+00	1.4E+00	2.3E+00	1.3E+00	3.1E-01	1.1E+00	1.1E+00	1.6E+00	1.5E+00	5.5E-01	1.0E+00	1.4E+00	2.3E+00
V	1.0E+00	6.5E-01	6.1E-01	6.5E-01	1.8E+00	1.3E+00	1.1E+00	5.3E-01	8.1E-01	2.6E+00	2.2E+00	2.4E+00	5.2E-01	1.3E+00	5.7E+00
Cr	2.6E+00	3.6E+00	4.1E-01	6.3E-01	6.8E+00	2.3E-01	1.4E-01	1.4E-01	1.5E-01	3.9E-01	6.6E-01	7.0E-01	2.2E-01	3.6E-01	1.7E+00
Mn	1.7E+00	3.4E-01	1.4E+00	1.7E+00	2.1E+00	1.4E+00	3.7E-01	1.0E+00	1.3E+00	1.8E+00	1.6E+00	5.1E-01	8.9E-01	1.8E+00	2.0E+00
Fe	7.8E+01	1.1E+01	6.7E+01	7.8E+01	9.0E+01	4.5E+01	1.8E+01	2.4E+01	5.4E+01	5.6E+01	4.2E+01	1.3E+01	2.9E+01	4.0E+01	6.0E+01
Co	2.6E-02	1.1E-02	1.8E-02	2.2E-02	3.8E-02	2.0E-02	1.0E-02	1.1E-02	1.7E-02	3.1E-02	3.1E-02	1.9E-02	1.6E-02	2.6E-02	5.6E-02
Ni	1.2E+00	1.1E+00	3.0E-01	7.9E-01	2.4E+00	1.4E+00	1.2E+00	3.8E-01	1.1E+00	2.8E+00	1.1E+00	7.8E-01	4.9E-01	8.1E-01	2.2E+00
Cu	5.3E+00	6.9E+00	1.1E+00	1.5E+00	1.3E+01	7.7E-01	8.3E-01	9.8E-02	5.0E-01	1.7E+00	2.5E+00	1.8E+00	8.3E-01	2.2E+00	5.0E+00
Zn	1.8E+01	2.1E+01	---	1.3E+01	4.1E+01	2.9E+01	2.7E+01	8.3E+00	1.8E+01	6.0E+01	3.3E+01	1.7E+01	1.3E+01	3.3E+01	5.4E+01
As	7.7E-01	2.7E-01	4.8E-01	8.1E-01	1.0E+00	9.2E-01	4.3E-01	5.0E-01	9.1E-01	1.4E+00	7.7E-01	3.2E-01	4.5E-01	7.1E-01	1.2E+00
Se	7.5E-01	4.5E-01	3.4E-01	6.9E-01	1.2E+00	8.9E-01	6.6E-01	2.6E-01	8.3E-01	1.6E+00	8.8E-01	4.7E-01	2.9E-01	8.9E-01	1.4E+00
Sr	6.0E+00	2.4E+00	4.6E+00	4.7E+00	8.8E+00	5.1E+00	8.8E-01	4.1E+00	5.2E+00	5.9E+00	5.6E+00	1.6E+00	4.4E+00	5.0E+00	7.9E+00
Ag	1.4E-02	8.7E-03	4.2E-03	1.6E-02	2.1E-02	1.5E-02	7.3E-03	7.6E-03	1.4E-02	2.2E-02	4.7E-02	6.1E-02	6.6E-03	2.2E-02	1.4E-01
Cd	1.3E-02	9.2E-03	7.0E-03	8.6E-03	2.4E-02	1.5E-02	1.1E-02	5.7E-03	1.1E-02	2.7E-02	1.9E-02	1.0E-02	9.1E-03	1.9E-02	2.8E-02
Sn	9.8E-01	6.3E-01	3.6E-01	9.7E-01	1.6E+00	7.9E-01	5.5E-01	2.2E-01	8.4E-01	1.3E+00	1.5E+00	1.0E+00	3.5E-01	1.4E+00	2.8E+00
Sb	4.7E-01	2.3E-01	3.1E-01	3.7E-01	7.3E-01	4.1E-01	2.8E-01	1.2E-01	4.4E-01	6.8E-01	4.5E-01	2.6E-01	1.7E-01	4.5E-01	7.1E-01
Cs	1.0E-02	3.9E-03	5.7E-03	1.1E-02	1.3E-02	1.1E-02	4.9E-03	5.7E-03	1.2E-02	1.5E-02	9.9E-03	4.6E-03	5.6E-03	1.0E-02	1.4E-02
La	3.2E-02	1.1E-02	2.3E-02	2.8E-02	4.5E-02	2.9E-02	1.6E-02	2.0E-02	2.1E-02	4.8E-02	3.9E-02	1.0E-02	2.6E-02	4.2E-02	4.8E-02
Pt	3.0E-04	1.4E-04	1.4E-04	3.6E-04	4.0E-04	2.7E-04	1.6E-04	1.1E-04	2.8E-04	4.3E-04	7.4E-04	7.6E-04	2.8E-04	4.1E-04	1.9E-03
Pb	3.2E+00	2.4E+00	1.5E+00	2.0E+00	6.0E+00	2.8E+00	1.5E+00	1.6E+00	2.5E+00	4.4E+00	4.3E+00	1.9E+00	2.7E+00	3.8E+00	6.8E+00

Table 9. Descriptive Statistics for 12-Hour Weekday Elemental Samples (7:00A.M.-7:00P.M.) by Sampling Session and Location (ng/m³)^a

	Chapel					GLC					School				
	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
Summer 2005	N=10					N=10					N=10				
Be	2.8E-03	1.7E-03	1.0E-03	2.3E-03	6.5E-03	2.3E-03	1.6E-03	1.1E-03	1.6E-03	6.0E-03	2.5E-03	1.7E-03	5.6E-04	2.1E-03	5.9E-03
Na	2.6E+01	1.5E+01	3.4E+00	2.1E+01	5.3E+01	2.2E+01	1.2E+01	3.7E+00	2.0E+01	4.3E+01	2.7E+01	1.7E+01	4.8E+00	2.0E+01	5.7E+01
Mg	1.7E+01	4.4E+00	1.0E+01	1.6E+01	2.5E+01	1.3E+01	7.3E+00	4.6E+00	1.1E+01	3.2E+01	1.2E+01	4.0E+00	6.6E+00	1.3E+01	1.8E+01
Al	3.6E+01	2.2E+01	---	3.2E+01	7.0E+01	2.9E+01	3.7E+01	4.0E+00	1.4E+01	1.3E+02	2.9E+01	1.8E+01	8.3E+00	2.4E+01	7.0E+01
S	2.0E+03	1.6E+03	4.3E+02	1.8E+03	6.1E+03	1.8E+03	1.4E+03	3.6E+02	1.5E+03	5.2E+03	2.1E+03	2.0E+03	3.1E+02	1.6E+03	7.5E+03
K	3.6E+01	1.3E+01	1.7E+01	3.8E+01	5.4E+01	3.2E+01	8.0E+00	1.9E+01	3.2E+01	4.2E+01	4.6E+01	2.9E+01	1.7E+01	3.9E+01	1.0E+02
Ca	7.5E+01	3.4E+01	1.0E+01	6.9E+01	1.3E+02	4.9E+01	7.0E+01	4.0E+00	2.1E+01	2.3E+02	4.4E+01	2.7E+01	---	3.9E+01	9.8E+01
Sc	8.7E-03	8.8E-03	---	1.1E-02	2.0E-02	8.3E-03	1.4E-02	---	9.1E-03	3.7E-02	8.0E-03	1.1E-02	---	9.8E-03	2.2E-02
Ti	3.9E+00	1.7E+00	2.2E+00	3.3E+00	6.8E+00	2.7E+00	1.5E+00	1.1E+00	2.3E+00	5.5E+00	3.4E+00	1.6E+00	1.5E+00	2.9E+00	6.1E+00
V	8.6E-01	5.4E-01	2.1E-01	6.8E-01	1.7E+00	9.0E-01	7.0E-01	1.2E-01	7.2E-01	2.4E+00	1.0E+00	7.2E-01	2.7E-01	6.9E-01	2.1E+00
Cr	6.3E-01	5.4E-01	1.9E-01	5.1E-01	2.0E+00	3.1E-01	4.3E-01	---	1.9E-01	1.4E+00	1.2E+00	2.5E+00	1.5E-01	3.7E-01	8.1E+00
Mn	2.5E+00	7.1E-01	1.3E+00	2.5E+00	3.9E+00	1.7E+00	4.0E-01	1.1E+00	1.6E+00	2.2E+00	2.1E+00	6.3E-01	6.6E-01	2.0E+00	2.9E+00
Fe	9.1E+01	2.3E+01	4.6E+01	9.3E+01	1.2E+02	4.2E+01	1.6E+01	1.9E+01	4.4E+01	6.4E+01	6.1E+01	2.3E+01	2.5E+01	5.7E+01	1.0E+02
Co	3.8E-02	1.4E-02	2.2E-02	3.3E-02	6.7E-02	2.5E-02	1.1E-02	1.3E-02	2.2E-02	4.8E-02	3.4E-02	1.5E-02	1.1E-02	3.4E-02	5.3E-02
Ni	4.8E-01	3.0E-01	1.3E-01	4.0E-01	1.1E+00	3.9E-01	2.4E-01	1.4E-01	3.6E-01	9.2E-01	4.3E-01	2.9E-01	1.9E-01	2.9E-01	1.2E+00
Cu	6.3E+00	7.4E+00	1.1E+00	3.7E+00	2.6E+01	1.5E+00	8.2E-01	4.9E-01	1.1E+00	3.1E+00	3.7E+00	3.1E+00	1.1E+00	2.5E+00	1.1E+01
Zn	1.6E+01	6.1E+00	6.0E+00	1.5E+01	2.3E+01	1.7E+01	2.6E+01	---	1.0E+01	9.0E+01	2.2E+01	2.2E+01	4.4E+00	1.3E+01	7.3E+01
As	5.6E-01	2.8E-01	2.8E-01	4.7E-01	1.2E+00	5.1E-01	2.0E-01	3.0E-01	4.7E-01	9.6E-01	6.0E-01	3.6E-01	2.4E-01	4.7E-01	1.5E+00
Se	1.4E+00	9.2E-01	4.4E-01	1.1E+00	3.6E+00	1.3E+00	7.7E-01	4.3E-01	1.1E+00	2.7E+00	1.6E+00	1.2E+00	6.7E-01	1.2E+00	4.7E+00
Sr	5.1E-01	2.8E-01	1.3E-01	4.6E-01	1.1E+00	4.1E-01	5.3E-01	2.2E-02	2.3E-01	1.8E+00	3.2E-01	1.5E-01	1.8E-01	2.8E-01	6.7E-01
Ag	1.5E-02	1.3E-02	4.3E-03	1.2E-02	4.5E-02	1.7E-02	2.7E-02	2.6E-03	5.8E-03	8.7E-02	1.0E-02	3.9E-03	3.1E-03	9.6E-03	1.6E-02
Cd	1.3E-01	1.3E-01	2.7E-02	8.3E-02	4.7E-01	1.3E-01	1.1E-01	5.7E-02	9.5E-02	4.2E-01	2.0E-01	2.4E-01	5.7E-02	9.7E-02	7.6E-01
Sn	1.3E+00	9.9E-01	6.2E-01	1.0E+00	3.9E+00	1.1E+00	1.0E+00	3.6E-01	7.8E-01	3.7E+00	1.1E+00	7.8E-01	5.1E-01	9.1E-01	3.1E+00
Sb	8.0E-01	2.7E-01	4.0E-01	7.9E-01	1.4E+00	3.6E-01	1.7E-01	1.2E-01	3.3E-01	7.3E-01	4.5E-01	1.8E-01	2.0E-01	4.3E-01	7.8E-01
Cs	1.1E-02	6.5E-03	2.1E-03	1.0E-02	2.2E-02	8.9E-03	5.4E-03	2.0E-03	7.5E-03	1.8E-02	1.0E-02	7.2E-03	7.3E-04	1.0E-02	2.3E-02
La	8.2E-02	3.7E-02	2.4E-02	9.0E-02	1.2E-01	6.8E-02	4.0E-02	2.7E-03	8.0E-02	1.1E-01	8.6E-02	5.0E-02	1.3E-02	8.1E-02	1.7E-01
TL	1.4E-02	7.0E-03	3.5E-03	1.3E-02	2.4E-02	1.2E-02	7.3E-03	3.9E-03	1.1E-02	2.6E-02	1.3E-02	6.7E-03	3.6E-03	1.1E-02	2.7E-02
Pb	4.1E+00	2.0E+00	1.9E+00	3.7E+00	8.5E+00	3.2E+00	1.2E+00	1.6E+00	3.0E+00	4.8E+00	1.9E+01	4.9E+01	2.1E+00	3.1E+00	1.6E+02

^aA dash (---) denotes a value that was equal to zero or negative number after blank correction.

	Winter 2006			N=10			N=10			N=10		
Be	3.8E-03	2.9E-03	---	3.2E-03	9.4E-03	3.6E-03	2.7E-03	4.2E-04	3.6E-03	8.7E-03		
Na	7.4E+01	3.9E+01	3.0E+01	6.7E+01	1.4E+02	7.5E+01	5.3E+01	9.3E+00	7.0E+01	1.9E+02		
Mg	1.3E+01	1.2E+01	1.7E-01	1.0E+01	4.3E+01	1.2E+01	1.3E+01	3.2E+00	9.8E+00	4.8E+01		
Al	5.2E+01	9.7E+01	---	2.9E+01	3.2E+02	3.5E+01	4.3E+01	3.4E+00	2.0E+01	1.4E+02		
S	1.7E+03	1.1E+03	5.6E+01	1.6E+03	4.0E+03	1.6E+03	7.9E+02	4.0E+02	1.5E+03	3.2E+03		
K	4.2E+01	2.6E+01	6.4E-01	4.1E+01	7.8E+01	4.5E+01	2.6E+01	1.3E+01	4.0E+01	9.7E+01		
Ca	9.7E+01	1.8E+02	2.5E+00	5.1E+01	6.1E+02	4.6E+01	4.3E+01	1.2E+01	2.8E+01	1.5E+02		
Sc	7.9E-03	1.4E-02	---	4.3E-03	4.8E-02	4.9E-03	8.4E-03	---	2.6E-03	2.8E-02		
Ti	5.3E+00	9.5E+00	8.1E-02	2.9E+00	3.2E+01	2.9E+00	2.7E+00	3.2E-01	2.6E+00	9.7E+00		
V	1.6E+00	1.5E+00	1.9E-01	1.3E+00	5.5E+00	1.5E+00	9.0E-01	2.7E-01	1.4E+00	3.1E+00		
Cr	2.4E-01	1.0E+00	---	9.9E-02	2.8E+00	6.1E-02	5.1E-01	---	6.9E-02	8.1E-01		
Mn	2.2E+00	1.1E+00	---	2.3E+00	3.4E+00	2.2E+00	1.2E+00	6.5E-01	2.3E+00	4.4E+00		
Fe	8.8E+01	5.3E+01	---	9.7E+01	1.9E+02	7.6E+01	6.4E+01	1.1E+01	5.6E+01	2.3E+02		
Co	4.2E-02	2.1E-02	---	4.6E-02	6.8E-02	3.9E-02	2.1E-02	4.8E-03	3.7E-02	7.1E-02		
Ni	8.6E-01	1.4E+00	---	4.6E-01	4.8E+00	6.5E-01	3.6E-01	1.9E-02	6.3E-01	1.2E+00		
Cu	5.0E+00	6.9E+00	3.7E-03	3.3E+00	2.4E+01	2.3E+00	1.5E+00	6.9E-01	1.7E+00	4.9E+00		
Zn	2.1E+01	1.9E+01	7.9E+00	1.5E+01	7.2E+01	1.6E+01	8.3E+00	3.6E+00	1.5E+01	3.1E+01		
As	6.7E-01	3.8E-01	6.7E-03	7.5E-01	1.1E+00	6.9E-01	3.4E-01	2.2E-01	7.5E-01	1.2E+00		
Se	1.9E+00	1.1E+00	2.0E-01	2.2E+00	3.2E+00	1.7E+00	9.8E-01	2.5E-01	1.9E+00	2.9E+00		
Sr	9.6E-01	1.7E+00	6.1E-02	4.2E-01	5.8E+00	4.1E-01	2.8E-01	1.4E-01	3.2E-01	1.1E+00		
Ag	1.1E-02	5.8E-03	2.5E-03	9.4E-03	2.3E-02	3.1E-02	6.7E-02	---	1.1E-02	2.2E-01		
Cd	2.3E-01	2.4E-01	4.6E-03	1.6E-01	7.9E-01	2.5E-01	2.8E-01	3.7E-02	1.4E-01	8.4E-01		
Sn	1.1E+00	6.5E-01	5.0E-03	1.3E+00	2.1E+00	1.1E+00	7.5E-01	2.6E-01	1.1E+00	2.4E+00		
Sb	8.8E-01	4.9E-01	9.4E-03	9.4E-01	1.6E+00	7.2E-01	4.6E-01	1.2E-01	5.8E-01	1.5E+00		
Cs	1.2E-02	8.0E-03	---	1.1E-02	2.6E-02	1.3E-02	9.6E-03	2.6E-03	1.1E-02	3.6E-02		
La	8.3E-02	5.5E-02	9.7E-03	7.8E-02	1.9E-01	6.8E-02	4.3E-02	2.9E-02	5.9E-02	1.8E-01		
TL	2.0E-02	1.2E-02	1.2E-03	2.5E-02	3.5E-02	2.0E-02	1.2E-02	1.3E-03	2.3E-02	3.4E-02		
Pb	4.1E+00	2.9E+00	1.7E-01	4.2E+00	1.0E+01	4.1E+00	2.6E+00	1.0E+00	3.8E+00	9.8E+00		

^aA dash (---) denotes a value that was equal to zero or negative number after blank correction.

Table 10. Five-Weekday (7:00A.M.-7:00P.M.) and Five-Weeknight (7:00P.M.-7:00A.M.) Elemental Samples (ng/m³), Summer 2005.

	Chapel DAY	Chapel NIGHT	GLC DAY	GLC NIGHT	School DAY	School NIGHT
Be	4.1E-03	3.5E-03	3.8E-03	3.9E-03	5.0E-03	1.0E-02
Na	3.0E+01	4.7E+01	2.4E+01	3.7E+01	3.4E+01	5.0E+01
Mg	3.4E+01	4.2E+01	1.9E+01	3.6E+01	3.6E+01	8.7E+01
Al	6.3E+01	9.9E+01	4.8E+01	6.9E+01	7.6E+01	2.1E+02
S	1.6E+03	1.2E+03	1.7E+03	1.1E+03	1.9E+03	1.1E+03
K	4.6E+01	6.5E+01	4.1E+01	5.8E+01	6.2E+01	1.1E+02
Ca	1.6E+02	1.9E+02	6.5E+01	1.5E+02	1.6E+02	2.5E+02
Sc	1.3E-02	1.0E-02	2.3E-03	1.4E-02	1.8E-02	6.1E-02
Ti	6.4E+00	6.9E+00	4.4E+00	6.0E+00	1.0E+01	3.3E+01
V	9.4E-01	1.3E+00	8.2E-01	1.1E+00	1.2E+00	1.5E+00
Cr	9.2E-01	9.9E-01	4.2E-01	7.3E-01	7.9E-01	1.5E+00
Mn	3.4E+00	4.0E+00	2.2E+00	3.4E+00	3.5E+00	9.1E+00
Fe	1.5E+02	1.8E+02	6.4E+01	1.4E+02	1.3E+02	4.7E+02
Co	6.3E-02	5.7E-02	3.7E-02	5.3E-02	6.2E-02	3.1E-01
Ni	7.9E-01	2.5E+00	3.4E+01	7.7E-01	7.4E-01	8.6E+00
Cu	4.8E+00	1.2E+01	2.5E+00	4.5E+00	5.0E+00	5.6E+00
Zn	1.4E+01	3.1E+01	2.2E+01	1.9E+01	1.7E+01	2.3E+01
As	4.8E-01	1.1E+00	4.8E-01	8.5E-01	6.8E-01	4.1E+00
Se	1.3E+00	1.1E+00	1.2E+00	9.7E-01	1.4E+00	9.9E-01
Sr	8.2E-01	9.4E-01	4.9E-01	7.0E-01	7.4E-01	9.8E-01
Ag	1.4E-02	2.4E-02	1.7E-02	2.1E-02	3.3E-02	1.9E-02
Cd	2.4E-01	3.1E-01	9.2E-02	8.3E-01	1.3E-01	1.6E-01
Sn	1.2E+00	3.4E+00	9.4E-01	2.9E+00	1.2E+00	1.1E+00
Sb	9.2E-01	1.9E+00	3.9E-01	1.0E+00	6.3E-01	8.8E-01
Cs	1.3E-02	1.1E-02	9.8E-03	9.9E-03	1.4E-02	5.0E-02
La	1.3E-01	1.2E-01	1.0E-01	1.1E-01	1.6E-01	5.8E-01
Tl	1.2E-02	1.5E-02	1.1E-02	1.4E-02	1.4E-02	1.3E-02
Pb	3.3E+00	1.3E+01	3.0E+00	5.1E+00	1.4E+01	1.3E+01
Pb	4.1E-03	3.5E-03	3.8E-03	3.9E-03	5.0E-03	1.0E-02

Table 11. Summary Statistics for PAH samples (ng/m³) by Site and Sampling Session and Overall for 12-Hour Samples^a

	Chapel					GLC					School				
	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
Winter 2005	N=5					N=5					N=5				
Naphthalene	2.4E+02	1.6E+02	1.0E+02	1.6E+02	5.0E+02	1.6E+02	1.3E+02	5.5E+01	7.4E+01	3.3E+02	1.9E+02	1.1E+02	6.5E+01	1.6E+02	3.4E+02
2-Methylnaphthalene	1.2E+02	8.2E+01	4.5E+01	8.2E+01	2.4E+02	8.5E+01	8.3E+01	1.9E+01	4.0E+01	2.0E+02	1.0E+02	6.7E+01	1.8E+01	8.7E+01	1.9E+02
Azulene	3.2E-01	4.1E-01	---	1.0E-01	9.0E-01	1.2E-01	1.6E-01	---	---	3.0E-01	1.6E-01	2.3E-01	---	---	5.0E-01
1-Methylnaphthalene	4.5E+01	3.1E+01	1.8E+01	3.1E+01	9.1E+01	3.3E+01	3.1E+01	8.6E+00	1.5E+01	7.5E+01	3.7E+01	2.4E+01	7.5E+00	2.9E+01	7.0E+01
Biphenyl	8.1E+00	5.6E+00	2.8E+00	8.8E+00	1.6E+01	6.7E+00	5.4E+00	2.4E+00	4.2E+00	1.6E+01	6.1E+00	4.7E+00	1.1E+00	6.0E+00	1.3E+01
2,7-Dimethylnaphthalene	2.2E+01	1.7E+01	5.5E+00	2.4E+01	4.9E+01	1.9E+01	1.9E+01	4.5E+00	9.2E+00	5.1E+01	1.5E+01	1.4E+01	1.5E+00	1.4E+01	3.7E+01
1,3-Dimethylnaphthalene	2.1E+01	1.7E+01	5.0E+00	2.2E+01	4.8E+01	1.7E+01	1.8E+01	3.9E+00	8.1E+00	4.7E+01	1.4E+01	1.3E+01	1.5E+00	1.2E+01	3.6E+01
1,6-Dimethylnaphthalene	1.2E+01	9.9E+00	2.8E+00	1.3E+01	2.7E+01	1.0E+01	1.1E+01	2.5E+00	5.2E+00	2.9E+01	8.0E+00	7.4E+00	7.0E-01	7.2E+00	2.0E+01
1,4-Dimethylnaphthalene	5.6E+00	4.7E+00	1.2E+00	5.8E+00	1.3E+01	4.6E+00	4.9E+00	1.1E+00	2.3E+00	1.3E+01	4.0E+00	3.8E+00	4.0E-01	3.4E+00	1.0E+01
1,5-Dimethylnaphthalene	2.4E+00	2.1E+00	5.0E-01	2.6E+00	5.7E+00	2.0E+00	2.2E+00	5.0E-01	1.1E+00	5.7E+00	1.7E+00	1.7E+00	1.0E-01	1.3E+00	4.4E+00
Acenaphylene	7.8E+00	9.4E+00	7.0E-01	3.2E+00	2.3E+01	5.5E+00	7.8E+00	6.0E-01	8.3E-01	1.9E+01	6.0E+00	7.2E+00	8.0E-01	2.4E+00	1.8E+01
1,2-Dimethylnaphthalene	3.3E+00	2.8E+00	7.0E-01	3.5E+00	7.7E+00	2.7E+00	2.9E+00	6.0E-01	1.3E+00	7.6E+00	2.4E+00	2.3E+00	2.0E-01	2.1E+00	6.2E+00
1,8-Dimethylnaphthalene	4.0E-02	5.5E-02	---	---	1.0E-01	1.6E-01	2.5E-01	---	1.0E-01	6.0E-01	6.0E-02	1.3E-01	---	---	3.0E-01
Acenaphthene	4.6E+00	3.5E+00	1.1E+00	3.7E+00	9.7E+00	4.7E+00	3.5E+00	1.8E+00	3.7E+00	1.1E+01	4.5E+00	3.7E+00	6.0E-01	4.5E+00	9.8E+00
2,3,5-Trimethylnaphthalene	3.7E+00	3.2E+00	5.0E-01	4.1E+00	8.6E+00	3.2E+00	3.5E+00	6.5E-01	1.8E+00	9.1E+00	3.1E+00	3.1E+00	3.0E-01	1.9E+00	7.6E+00
Fluorene	1.2E+01	1.1E+01	1.2E+00	6.8E+00	2.8E+01	1.1E+01	7.3E+00	2.3E+00	7.9E+00	1.9E+01	1.3E+01	1.2E+01	1.9E+00	7.2E+00	2.7E+01
1-Methylfluorene	3.3E+00	3.1E+00	5.0E-01	2.6E+00	8.0E+00	2.9E+00	2.7E+00	7.0E-01	2.3E+00	7.4E+00	3.9E+00	4.7E+00	3.0E-01	1.7E+00	1.2E+01
Dibenzothiophene	2.3E+00	2.3E+00	2.0E-01	1.4E+00	5.6E+00	2.4E+00	2.3E+00	4.0E-01	1.9E+00	6.2E+00	3.3E+00	4.1E+00	3.0E-01	1.5E+00	1.0E+01
Phenanthrene	3.1E+01	3.4E+01	2.1E+00	1.8E+01	8.6E+01	3.0E+01	3.2E+01	5.2E+00	2.3E+01	8.2E+01	4.0E+01	5.2E+01	3.9E+00	2.2E+01	1.3E+02
Anthracene	3.0E+00	3.9E+00	1.0E-01	1.6E+00	9.5E+00	2.9E+00	3.9E+00	2.0E-01	1.8E+00	9.7E+00	4.2E+00	6.3E+00	1.0E-01	1.9E+00	1.5E+01
2-Methyldibenzothiophene	6.4E-01	6.2E-01	1.0E-01	5.0E-01	1.7E+00	6.1E-01	6.3E-01	2.0E-01	4.3E-01	1.7E+00	1.0E+00	1.4E+00	1.0E-01	6.0E-01	3.5E+00
4-Methyldibenzothiophene	3.8E-01	4.3E-01	---	2.0E-01	1.1E+00	4.0E-01	4.1E-01	1.0E-01	3.0E-01	1.1E+00	6.4E-01	8.5E-01	---	5.0E-01	2.1E+00
2-Methylphenanthrene	9.1E+00	9.6E+00	1.3E+00	5.6E+00	2.6E+01	9.0E+00	3.5E+00	4.0E+00	1.0E+01	1.2E+01	1.1E+01	1.0E+01	4.0E-01	1.1E+01	2.7E+01
2-Methylanthracene	2.2E+00	2.4E+00	3.0E-01	1.7E+00	6.4E+00	1.8E+00	1.8E+00	6.0E-01	1.3E+00	5.0E+00	2.3E+00	2.9E+00	2.0E-01	1.5E+00	7.4E+00
4,5-Methylenphenanthrene	7.6E-01	8.4E-01	1.0E-01	6.0E-01	2.2E+00	7.0E-01	7.7E-01	1.0E-01	5.3E-01	2.0E+00	9.6E-01	1.2E+00	2.0E-01	7.0E-01	3.0E+00
1-Methylanthracene	9.6E-01	1.1E+00	1.0E-01	6.0E-01	2.9E+00	8.3E-01	9.1E-01	2.0E-01	5.3E-01	2.4E+00	1.1E+00	1.4E+00	1.0E-01	7.0E-01	3.4E+00
1-Methylphenanthrene	7.2E-01	7.9E-01	1.0E-01	5.0E-01	2.1E+00	6.1E-01	6.3E-01	1.5E-01	4.0E-01	1.7E+00	7.6E-01	9.4E-01	1.0E-01	5.0E-01	2.4E+00
9-Methylanthracene	---	---	---	---	---	---	---	---	---	---	1.2E-01	2.7E-01	---	---	6.0E-01
9,10-Dimethylanthracene	1.8E-01	1.9E-01	---	1.0E-01	5.0E-01	1.8E-01	1.3E-01	1.0E-01	1.0E-01	4.0E-01	1.6E-01	1.5E-01	---	1.0E-01	4.0E-01
Fluoranthene	1.7E+00	1.5E+00	5.0E-01	1.3E+00	4.4E+00	1.6E+00	1.3E+00	5.0E-01	1.1E+00	3.8E+00	2.0E+00	1.6E+00	7.0E-01	1.5E+00	4.7E+00

Table 11. Summary Statistics for PAH samples (ng/m³) by Site and Sampling Session and Overall for 12-Hour Samples^a

	Chapel					GLC					School				
	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
Pyrene	1.3E+00	1.1E+00	4.0E-01	9.0E-01	3.2E+00	1.1E+00	9.6E-01	3.0E-01	6.7E-01	2.6E+00	1.3E+00	9.0E-01	6.0E-01	1.1E+00	2.9E+00
3,6-Dimethylphenanthrene	2.0E-02	4.5E-02	---	---	1.0E-01	---	---	---	---	---	---	---	---	---	---
Benzo-a-fluorene	1.0E-01	7.1E-02	---	1.0E-01	2.0E-01	6.0E-02	8.9E-02	---	---	2.0E-01	8.0E-02	8.4E-02	---	1.0E-01	2.0E-01
Retene	1.0E-01	7.1E-02	---	1.0E-01	2.0E-01	1.2E-01	5.5E-02	5.0E-02	1.0E-01	2.0E-01	1.6E-01	5.5E-02	1.0E-01	2.0E-01	2.0E-01
Benzo-b-fluorene	6.0E-02	5.5E-02	---	1.0E-01	1.0E-01	4.7E-02	5.1E-02	---	3.3E-02	1.0E-01	6.0E-02	5.5E-02	---	1.0E-01	1.0E-01
Cyclopenta-c,d-pyrene	1.4E-01	8.9E-02	1.0E-01	1.0E-01	3.0E-01	1.0E-01	7.1E-02	---	1.0E-01	2.0E-01	1.2E-01	8.4E-02	---	1.0E-01	2.0E-01
Benz-a-anthracene	1.8E-01	1.3E-01	1.0E-01	1.0E-01	4.0E-01	2.0E-01	1.4E-01	1.0E-01	1.0E-01	4.0E-01	1.8E-01	8.4E-02	1.0E-01	2.0E-01	3.0E-01
Chrysene+Triphenylene	2.6E-01	1.5E-01	1.0E-01	2.0E-01	5.0E-01	2.2E-01	1.6E-01	1.0E-01	1.0E-01	4.0E-01	2.6E-01	1.1E-01	1.0E-01	3.0E-01	4.0E-01
Naphthacene	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
4-Methylchrysene	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo-b-fluoranthene	2.6E-01	8.9E-02	2.0E-01	2.0E-01	4.0E-01	2.0E-01	1.4E-01	1.0E-01	1.0E-01	4.0E-01	2.0E-01	1.2E-01	1.0E-01	2.0E-01	4.0E-01
Benzo-k-fluoranthene	1.8E-01	1.3E-01	1.0E-01	1.0E-01	4.0E-01	1.8E-01	1.1E-01	1.0E-01	1.0E-01	3.0E-01	1.8E-01	8.4E-02	1.0E-01	2.0E-01	3.0E-01
Dimethylbenz-a-anthracene	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo-e-pyrene	2.2E-01	1.3E-01	1.0E-01	2.0E-01	4.0E-01	1.6E-01	8.9E-02	1.0E-01	1.0E-01	3.0E-01	1.8E-01	1.1E-01	1.0E-01	1.0E-01	3.0E-01
Benzo-a-pyrene	2.2E-01	1.8E-01	1.0E-01	1.0E-01	5.0E-01	2.0E-01	1.4E-01	1.0E-01	1.0E-01	4.0E-01	1.8E-01	8.4E-02	1.0E-01	2.0E-01	3.0E-01
Perylene	2.0E-02	4.5E-02	---	---	1.0E-01	---	---	---	---	---	---	---	---	---	---
3-Methylchloanthrene	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Indeno-1,2,3-c,d-pyrene	1.8E-01	1.1E-01	1.0E-01	1.0E-01	3.0E-01	1.8E-01	1.3E-01	1.0E-01	1.0E-01	4.0E-01	1.8E-01	1.3E-01	1.0E-01	1.0E-01	4.0E-01
Dibenz-a,h+ac-anthracene	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Benzo-g,h,i-perylene	2.6E-01	2.2E-01	1.0E-01	1.0E-01	5.0E-01	2.2E-01	1.8E-01	1.0E-01	1.0E-01	5.0E-01	2.2E-01	1.3E-01	1.0E-01	2.0E-01	4.0E-01
Anthranthrene	2.0E-02	4.5E-02	---	---	1.0E-01	---	---	---	---	---	---	---	---	---	---
Coronene	4.0E-02	5.5E-02	---	---	1.0E-01	2.0E-02	4.5E-02	---	---	1.0E-01	4.0E-02	5.5E-02	---	---	1.0E-01
Summer 2005			N=10					N=10					N=9		
Naphthalene	1.1E+02	6.0E+01	4.1E+01	1.0E+02	2.5E+02	3.9E+01	3.5E+01	---	2.5E+01	1.2E+02	5.4E+01	3.1E+01	---	5.3E+01	9.8E+01
2-Methylnaphthalene	5.5E+01	1.3E+01	3.8E+01	5.6E+01	7.4E+01	2.3E+01	1.2E+01	1.2E+01	2.0E+01	4.6E+01	4.8E+01	1.6E+01	2.4E+01	4.7E+01	7.3E+01
Azulene	8.5E-01	5.5E-01	1.2E-01	8.1E-01	2.1E+00	9.8E-02	2.1E-01	---	1.3E-02	6.7E-01	2.4E-01	2.9E-01	---	1.0E-01	7.9E-01
1-Methylnaphthalene	2.2E+01	4.8E+00	1.6E+01	2.3E+01	3.0E+01	9.2E+00	4.9E+00	4.7E+00	7.8E+00	1.8E+01	1.9E+01	6.3E+00	9.3E+00	1.8E+01	2.8E+01
Biphenyl	5.2E+00	1.3E+00	4.0E+00	4.6E+00	8.0E+00	2.5E+00	1.7E+00	7.4E-01	2.0E+00	6.4E+00	4.2E+00	2.2E+00	7.0E-01	3.8E+00	7.9E+00
2,7-Dimethylnaphthalene	1.3E+01	2.9E+00	9.4E+00	1.2E+01	1.8E+01	4.6E+00	4.4E+00	1.2E+00	2.7E+00	1.6E+01	7.6E+00	3.4E+00	1.1E+00	7.1E+00	1.3E+01
1,3-Dimethylnaphthalene	1.0E+01	3.0E+00	6.5E+00	9.3E+00	1.5E+01	3.7E+00	4.0E+00	1.2E+00	2.0E+00	1.4E+01	6.2E+00	3.4E+00	1.1E+00	5.3E+00	1.2E+01
1,6-Dimethylnaphthalene	9.2E+00	1.6E+00	5.8E+00	9.5E+00	1.1E+01	2.7E+00	2.3E+00	1.8E-01	2.0E+00	8.1E+00	4.7E+00	2.4E+00	3.1E-01	4.6E+00	7.9E+00
1,4-Dimethylnaphthalene	3.0E+00	7.3E-01	2.2E+00	2.8E+00	4.3E+00	1.2E+00	1.0E+00	4.1E-01	9.2E-01	3.9E+00	1.9E+00	9.6E-01	4.9E-01	1.6E+00	3.7E+00

Table 11. Summary Statistics for PAH samples (ng/m³) by Site and Sampling Session and Overall for 12-Hour Samples^a

	Chapel			GLC			School								
	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
1,5-Dimethylnaphthalene	1.7E+00	7.2E-01	9.2E-01	1.5E+00	3.2E+00	4.1E-01	3.4E-01	4.0E-02	4.0E-01	9.8E-01	8.6E-01	4.6E-01	1.3E-01	7.8E-01	1.5E+00
Acenaphthylene	2.6E+00	1.0E+00	1.7E+00	2.2E+00	5.1E+00	1.1E+00	9.1E-01	1.8E-01	8.2E-01	2.8E+00	2.1E+00	1.2E+00	5.2E-01	1.9E+00	4.2E+00
1,2-Dimethylnaphthalene	1.5E+00	6.5E-01	---	1.6E+00	2.2E+00	4.9E-01	4.0E-01	7.5E-02	4.6E-01	1.5E+00	8.2E-01	3.5E-01	2.0E-01	7.7E-01	1.3E+00
1,8-Dimethylnaphthalene	9.2E-02	2.9E-01	---	---	9.2E-01	2.0E-01	4.2E-01	---	---	1.1E+00	2.5E-01	5.5E-01	---	---	1.6E+00
Acenaphthene	6.5E+00	3.0E+00	3.0E+00	5.0E+00	1.1E+01	1.0E+01	1.3E+01	8.7E-01	4.5E+00	3.7E+01	1.1E+01	6.3E+00	4.4E+00	8.9E+00	2.2E+01
2,3,5-Trimethylnaphthalene	4.2E+00	7.1E-01	3.2E+00	4.1E+00	5.8E+00	1.5E+00	1.3E+00	2.8E-01	1.3E+00	4.6E+00	2.0E+00	9.5E-01	5.9E-01	1.7E+00	3.1E+00
Fluorene	1.7E+01	7.0E+00	7.4E+00	1.7E+01	2.7E+01	2.1E+01	2.1E+01	1.7E+00	1.7E+01	7.4E+01	2.5E+01	1.4E+01	9.3E+00	2.3E+01	4.3E+01
1-Methylfluorene	2.1E+00	5.2E-01	1.4E+00	2.0E+00	2.9E+00	8.4E-01	6.3E-01	1.0E-01	7.7E-01	2.3E+00	1.5E+00	6.6E-01	6.8E-01	1.8E+00	2.4E+00
Dibenzothiophene	2.5E+00	1.3E+00	7.5E-01	2.2E+00	4.4E+00	3.0E+00	2.9E+00	4.3E-01	2.3E+00	1.0E+01	7.9E+00	4.4E+00	2.9E+00	5.7E+00	1.3E+01
Phenanthrene	4.4E+01	1.9E+01	1.8E+01	4.1E+01	7.8E+01	5.0E+01	4.9E+01	7.3E+00	3.5E+01	1.6E+02	1.7E+02	9.4E+01	7.0E+01	1.4E+02	3.2E+02
Anthracene	3.3E+00	1.7E+00	1.2E+00	3.3E+00	5.6E+00	2.8E+00	2.7E+00	3.8E-01	1.9E+00	9.2E+00	1.2E+01	8.5E+00	3.8E+00	9.2E+00	2.8E+01
2-Methyldibenzothiophene	9.2E-01	3.1E-01	6.0E-01	8.5E-01	1.5E+00	6.1E-01	4.7E-01	1.7E-01	4.4E-01	1.6E+00	1.2E+00	6.5E-01	5.5E-01	8.9E-01	2.5E+00
4-Methyldibenzothiophene	5.4E-01	2.1E-01	3.0E-01	5.2E-01	9.7E-01	4.2E-01	3.8E-01	1.4E-01	2.6E-01	1.3E+00	9.3E-01	5.0E-01	4.2E-01	6.0E-01	1.7E+00
2-Methylphenanthrene	3.3E+00	1.1E+00	2.4E+00	3.0E+00	5.7E+00	2.1E+00	1.5E+00	8.0E-01	1.4E+00	5.0E+00	6.5E+00	3.8E+00	2.9E+00	4.2E+00	1.4E+01
2-Methylanthracene	4.7E+00	1.7E+00	3.3E+00	4.2E+00	8.6E+00	2.9E+00	2.1E+00	1.2E+00	1.8E+00	7.0E+00	9.2E+00	5.2E+00	4.3E+00	5.6E+00	1.7E+01
4,5-Methylenephenanthrene	4.1E-01	1.4E-01	2.6E-01	3.7E-01	6.4E-01	3.5E-01	1.5E-01	2.1E-01	2.9E-01	6.5E-01	4.5E-01	3.0E-01	1.8E-01	3.3E-01	1.0E+00
1-Methylanthracene	2.0E+00	5.9E-01	1.4E+00	1.8E+00	3.2E+00	1.1E+00	7.9E-01	5.3E-01	7.9E-01	2.6E+00	2.9E+00	1.6E+00	1.5E+00	1.9E+00	5.9E+00
1-Methylphenanthrene	1.5E+00	5.3E-01	1.1E+00	1.3E+00	2.7E+00	9.9E-01	6.7E-01	4.4E-01	7.2E-01	2.3E+00	2.9E+00	1.7E+00	1.4E+00	1.8E+00	5.8E+00
9-Methylanthracene	2.0E-02	2.8E-02	---	7.5E-03	8.0E-02	2.1E-02	2.8E-02	---	1.5E-02	9.0E-02	1.0E-02	1.7E-02	---	---	5.0E-02
9,10-Dimethylanthracene	3.5E-01	7.3E-02	2.7E-01	3.4E-01	4.9E-01	1.9E-01	1.0E-01	1.0E-01	1.4E-01	4.0E-01	3.7E-01	1.5E-01	1.8E-01	3.1E-01	6.4E-01
Fluoranthene	1.1E+01	1.1E+01	3.9E+00	6.8E+00	4.0E+01	1.3E+01	8.4E+00	3.0E+00	1.1E+01	2.7E+01	5.1E+01	3.2E+01	2.4E+01	3.3E+01	1.1E+02
Pyrene	5.3E+00	4.4E+00	2.4E+00	3.8E+00	1.7E+01	5.7E+00	3.4E+00	1.8E+00	5.0E+00	1.2E+01	2.0E+01	1.3E+01	1.0E+01	1.2E+01	4.3E+01
3,6-Dimethylphenanthrene	1.9E-02	2.0E-02	---	1.3E-02	6.0E-02	1.5E-02	1.4E-02	---	1.0E-02	4.0E-02	1.4E-02	1.5E-02	---	2.0E-02	4.0E-02
Benzo-a-fluorene	9.3E-02	3.6E-02	5.0E-02	8.8E-02	1.5E-01	9.8E-02	4.9E-02	5.0E-02	8.5E-02	1.7E-01	2.1E-01	1.2E-01	1.0E-01	1.4E-01	4.2E-01
Retene	8.0E-02	2.7E-02	2.5E-02	8.5E-02	1.2E-01	1.1E-01	7.8E-02	3.0E-02	7.8E-02	2.7E-01	1.1E-01	5.8E-02	5.0E-02	1.0E-01	2.3E-01
Benzo-b-fluorene	7.4E-02	3.0E-02	4.0E-02	7.5E-02	1.3E-01	7.0E-02	3.3E-02	4.0E-02	6.0E-02	1.3E-01	1.3E-01	6.7E-02	7.0E-02	1.0E-01	2.4E-01
Cyclopenta-c,d-pyrene	2.8E-02	1.8E-02	1.0E-02	2.8E-02	7.0E-02	2.2E-02	4.3E-02	---	1.0E-02	1.4E-01	8.8E-02	1.9E-01	---	2.0E-02	5.9E-01
Benz-a-anthracene	6.3E-02	1.8E-02	4.5E-02	5.5E-02	9.0E-02	3.0E-02	2.7E-02	---	2.0E-02	8.0E-02	7.2E-02	4.8E-02	2.0E-02	7.0E-02	1.5E-01
Chrysene+Triphenylene	1.1E-01	4.3E-02	5.0E-02	9.8E-02	1.8E-01	9.3E-02	4.1E-02	4.0E-02	9.0E-02	1.7E-01	4.2E-01	2.7E-01	1.6E-01	2.8E-01	8.9E-01
Naphthacene	9.0E-03	9.9E-03	---	1.0E-02	3.0E-02	1.0E-02	1.3E-02	---	7.5E-03	4.0E-02	6.7E-03	7.1E-03	---	1.0E-02	2.0E-02
4-Methylchrysene	4.0E-03	1.3E-02	---	---	4.0E-02	4.5E-03	9.6E-03	---	---	3.0E-02	1.1E-03	3.3E-03	---	---	1.0E-02
Benzo-b-fluoranthene	5.9E-02	4.9E-02	---	4.0E-02	1.7E-01	3.9E-02	4.5E-02	---	2.0E-02	1.2E-01	8.8E-02	8.6E-02	---	5.0E-02	2.5E-01

Table 11. Summary Statistics for PAH samples (ng/m³) by Site and Sampling Session and Overall for 12-Hour Samples^a

	Chapel					GLC					School				
	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
Benzo-k-fluoranthene	3.0E-02	2.8E-02	---	2.0E-02	9.0E-02	1.0E-02	1.6E-02	---	---	4.0E-02	2.1E-02	3.7E-02	---	---	1.1E-01
Dimethylbenz-a-anthracene	1.4E-02	3.8E-02	---	---	1.2E-01	7.0E-03	1.6E-02	---	---	5.0E-02	1.1E-03	3.3E-03	---	---	1.0E-02
Benzo-e-pyrene	4.7E-02	3.9E-02	---	3.5E-02	1.2E-01	3.5E-02	3.7E-02	---	1.5E-02	1.0E-01	4.6E-02	4.3E-02	1.0E-02	3.0E-02	1.2E-01
Benzo-a-pyrene	4.0E-02	5.2E-02	---	1.5E-02	1.4E-01	2.8E-02	4.0E-02	---	---	1.0E-01	1.3E-02	3.6E-02	---	---	1.1E-01
Perylene	5.0E-03	1.1E-02	---	---	3.0E-02	4.5E-03	9.6E-03	---	---	3.0E-02	2.2E-03	4.4E-03	---	---	1.0E-02
3-Methylchloanthrene	4.4E-02	5.4E-02	---	2.5E-02	1.4E-01	---	---	---	---	---	---	---	---	---	---
Indeno-1,2,3-c,d-pyrene	4.2E-02	3.0E-02	---	3.8E-02	1.1E-01	4.9E-02	5.5E-02	---	3.3E-02	1.4E-01	5.8E-02	5.4E-02	---	4.0E-02	1.6E-01
Dibenz-a,h+ac-anthracene	8.0E-03	1.9E-02	---	---	6.0E-02	5.0E-03	1.1E-02	---	---	3.0E-02	---	---	---	---	---
Benzo-g,h,i-perylene	8.8E-02	7.4E-02	4.0E-02	7.0E-02	2.9E-01	4.0E-02	5.5E-02	---	1.5E-02	1.7E-01	6.4E-02	5.5E-02	1.0E-02	5.0E-02	1.8E-01
Anthranthrene	4.0E-03	1.3E-02	---	---	4.0E-02	3.0E-03	9.5E-03	---	---	3.0E-02	---	---	---	---	---
Coronene	1.9E-02	2.6E-02	---	5.0E-03	7.0E-02	5.5E-03	1.2E-02	---	---	3.0E-02	2.2E-03	6.7E-03	---	---	2.0E-02
Winter 2006			N=10					N=10					N=10		
Naphthalene	4.8E+01	2.0E+01	1.7E+01	3.9E+01	8.5E+01	4.0E+01	3.4E+01	1.5E+01	2.8E+01	1.2E+02	5.5E+01	7.0E+01	1.3E+01	3.1E+01	2.5E+02
2-Methylnaphthalene	7.0E+01	3.1E+01	3.1E+01	6.6E+01	1.3E+02	3.9E+01	2.3E+01	1.3E+01	3.7E+01	7.4E+01	6.6E+01	3.0E+01	3.4E+01	5.4E+01	1.1E+02
Azulene	2.6E-01	1.1E-01	1.0E-01	2.5E-01	4.2E-01	2.3E-01	2.0E-01	5.8E-02	1.5E-01	6.2E-01	2.1E-01	2.8E-01	5.0E-02	1.1E-01	9.7E-01
1-Methylnaphthalene	2.8E+01	1.2E+01	1.4E+01	2.7E+01	5.2E+01	1.6E+01	8.6E+00	6.0E+00	1.5E+01	2.9E+01	2.5E+01	1.1E+01	1.4E+01	2.2E+01	4.3E+01
Biphenyl	9.0E+00	5.8E+00	4.8E+00	5.8E+00	2.2E+01	3.9E+00	1.4E+00	2.2E+00	3.5E+00	6.7E+00	6.0E+00	3.6E+00	3.1E+00	4.2E+00	1.3E+01
2,7-Dimethylnaphthalene	1.1E+01	5.7E+00	3.4E+00	9.3E+00	2.0E+01	6.7E+00	3.5E+00	2.5E+00	5.7E+00	1.1E+01	7.4E+00	4.4E+00	3.6E+00	5.5E+00	1.8E+01
1,3-Dimethylnaphthalene	2.4E+01	1.2E+01	8.5E+00	2.0E+01	4.4E+01	1.5E+01	8.2E+00	5.9E+00	1.3E+01	2.7E+01	1.6E+01	9.3E+00	8.5E+00	1.1E+01	3.5E+01
1,6-Dimethylnaphthalene	1.4E+01	7.1E+00	4.9E+00	1.1E+01	2.7E+01	8.6E+00	4.6E+00	3.7E+00	7.8E+00	1.6E+01	8.9E+00	5.1E+00	4.9E+00	6.0E+00	1.9E+01
1,4-Dimethylnaphthalene	6.6E+00	3.5E+00	2.6E+00	5.4E+00	1.3E+01	4.2E+00	2.3E+00	1.7E+00	3.8E+00	7.5E+00	4.6E+00	2.6E+00	2.5E+00	3.3E+00	9.3E+00
1,5-Dimethylnaphthalene	2.4E+00	1.3E+00	1.1E+00	2.0E+00	5.0E+00	1.4E+00	8.0E-01	5.1E-01	1.2E+00	2.9E+00	1.6E+00	9.3E-01	7.7E-01	1.0E+00	3.3E+00
Acenaphthylene	1.2E+01	1.1E+01	4.3E+00	8.2E+00	4.0E+01	3.5E+00	2.8E+00	7.5E-01	3.5E+00	7.9E+00	8.2E+00	5.6E+00	3.7E+00	6.4E+00	2.1E+01
1,2-Dimethylnaphthalene	4.0E+00	2.1E+00	1.6E+00	3.2E+00	7.9E+00	2.4E+00	1.4E+00	1.0E+00	2.1E+00	4.6E+00	2.8E+00	1.6E+00	1.4E+00	2.0E+00	5.6E+00
1,8-Dimethylnaphthalene	8.6E-02	1.6E-01	---	9.5E-03	4.7E-01	1.0E-02	3.1E-02	---	---	9.2E-02	3.1E-02	4.2E-02	---	1.2E-02	1.1E-01
Acenaphthene	4.0E+00	3.0E+00	1.7E+00	3.0E+00	1.0E+01	2.3E+00	9.8E-01	9.2E-01	2.4E+00	3.9E+00	3.5E+00	2.3E+00	1.4E+00	2.5E+00	8.2E+00
2,3,5-Trimethylnaphthalene	2.4E+00	1.3E+00	7.0E-01	2.4E+00	5.1E+00	2.5E+00	2.0E+00	8.0E-01	1.3E+00	7.0E+00	1.7E+00	6.4E-01	6.9E-01	1.6E+00	2.6E+00
Fluorene	4.1E+00	1.4E+00	2.2E+00	3.7E+00	6.9E+00	3.4E+00	1.4E+00	1.9E+00	3.1E+00	5.5E+00	4.3E+00	1.3E+00	2.3E+00	4.4E+00	6.6E+00
1-Methylfluorene	7.1E-01	3.9E-01	8.5E-02	6.8E-01	1.4E+00	4.5E-01	4.4E-01	4.2E-02	1.8E-01	1.3E+00	4.4E-01	1.8E-01	7.9E-02	4.9E-01	6.3E-01
Dibenzothiophene	1.1E-01	1.3E-01	---	7.8E-02	3.3E-01	3.8E-02	7.9E-02	---	---	2.1E-01	1.8E-01	1.4E-01	---	1.5E-01	4.4E-01
Phenanthrene	8.8E+00	3.2E+00	4.3E+00	7.9E+00	1.5E+01	5.6E+00	2.6E+00	2.9E+00	4.9E+00	1.1E+01	1.1E+01	3.6E+00	3.6E+00	1.1E+01	1.5E+01
Anthracene	6.9E-01	2.9E-01	1.2E-01	7.1E-01	1.1E+00	3.6E-01	2.2E-01	1.5E-01	2.8E-01	7.5E-01	1.3E+00	1.7E+00	4.7E-01	8.6E-01	6.1E+00

Table 11. Summary Statistics for PAH samples (ng/m³) by Site and Sampling Session and Overall for 12-Hour Samples^a

	Chapel					GLC					School				
	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
2-Methyldibenzothiophene	3.5E-01	1.4E-01	1.1E-01	3.6E-01	5.8E-01	2.3E-01	1.2E-01	1.2E-01	1.8E-01	4.4E-01	2.6E-01	7.5E-02	7.7E-02	2.7E-01	3.5E-01
4-Methyldibenzothiophene	1.9E-01	7.3E-02	7.3E-02	2.0E-01	2.9E-01	1.3E-01	6.0E-02	7.9E-02	1.0E-01	2.4E-01	1.6E-01	4.8E-02	5.8E-02	1.6E-01	2.4E-01
2-Methylphenanthrene	9.7E-01	3.7E-01	4.1E-01	1.0E+00	1.5E+00	6.1E-01	3.9E-01	2.8E-01	4.1E-01	1.4E+00	7.3E-01	2.2E-01	2.7E-01	7.3E-01	9.9E-01
2-Methylanthracene	1.5E+00	5.9E-01	6.4E-01	1.6E+00	2.4E+00	9.7E-01	5.8E-01	4.4E-01	6.6E-01	2.1E+00	1.2E+00	3.7E-01	4.2E-01	1.1E+00	1.7E+00
4,5-Methylenephenanthrene	2.9E-02	2.4E-02	3.6E-03	2.5E-02	8.2E-02	2.3E-02	2.5E-02	---	1.2E-02	5.9E-02	2.0E-02	2.1E-02	6.1E-03	1.4E-02	7.5E-02
1-Methylanthracene	5.8E-01	2.3E-01	2.7E-01	6.3E-01	9.1E-01	3.7E-01	2.3E-01	1.8E-01	2.7E-01	8.4E-01	4.2E-01	1.3E-01	1.6E-01	4.1E-01	5.9E-01
1-Methylphenanthrene	4.7E-01	1.8E-01	2.3E-01	4.8E-01	7.1E-01	2.9E-01	1.8E-01	1.4E-01	2.2E-01	6.7E-01	3.5E-01	1.1E-01	1.4E-01	3.2E-01	4.9E-01
9-Methylanthracene	2.2E-02	5.7E-02	---	3.0E-03	1.8E-01	7.1E-05	2.1E-04	---	---	6.4E-04	2.9E-02	7.9E-02	---	2.4E-03	2.5E-01
9,10-Dimethylanthracene	1.1E-01	4.5E-02	5.1E-02	1.2E-01	1.7E-01	7.0E-02	4.1E-02	2.7E-02	6.0E-02	1.5E-01	7.3E-02	2.4E-02	4.2E-02	6.6E-02	1.1E-01
Fluoranthene	1.3E+00	5.4E-01	7.4E-01	1.2E+00	2.2E+00	8.5E-01	3.3E-01	4.4E-01	7.6E-01	1.5E+00	1.7E+00	8.4E-01	8.5E-01	1.6E+00	3.6E+00
Pyrene	1.1E+00	5.2E-01	4.7E-01	8.7E-01	1.9E+00	6.2E-01	3.1E-01	3.4E-01	4.8E-01	1.2E+00	1.1E+00	4.3E-01	6.0E-01	1.0E+00	1.8E+00
3,6-Dimethylphenanthrene	1.5E-02	4.7E-02	---	---	1.5E-01	3.0E-02	9.0E-02	---	---	2.7E-01	2.8E-02	8.9E-02	---	---	2.8E-01
Benzo-a-fluorene	5.4E-02	2.7E-02	1.5E-02	4.5E-02	9.1E-02	3.7E-02	2.6E-02	6.6E-03	3.2E-02	7.0E-02	4.6E-02	1.9E-02	1.9E-02	4.8E-02	7.7E-02
Retene	4.8E-02	2.7E-02	7.1E-03	5.0E-02	8.4E-02	3.2E-02	2.2E-02	4.9E-03	2.5E-02	6.7E-02	3.6E-02	2.3E-02	8.9E-03	3.3E-02	8.4E-02
Benzo-b-fluorene	6.0E-02	3.1E-02	1.6E-02	4.8E-02	1.1E-01	4.1E-02	2.9E-02	8.7E-03	3.0E-02	8.1E-02	5.1E-02	2.2E-02	2.4E-02	5.6E-02	8.0E-02
Cyclopenta-c,d-pyrene	1.5E-01	1.2E-01	2.6E-02	1.2E-01	4.3E-01	1.0E-01	9.4E-02	9.3E-03	7.4E-02	3.0E-01	1.2E-01	9.9E-02	4.3E-02	8.4E-02	3.6E-01
Benz-a-anthracene	1.4E-01	8.1E-02	3.0E-02	1.2E-01	2.9E-01	9.3E-02	7.7E-02	1.3E-02	6.9E-02	2.4E-01	1.1E-01	6.2E-02	3.8E-02	1.2E-01	1.9E-01
Chrysene+Triphenylene	1.7E-01	1.0E-01	4.5E-02	1.4E-01	3.3E-01	1.4E-01	9.7E-02	3.2E-02	8.6E-02	2.6E-01	1.7E-01	8.1E-02	6.3E-02	1.8E-01	2.9E-01
Naphthacene	4.1E-03	5.1E-03	4.4E-04	2.3E-03	1.5E-02	1.8E-03	2.1E-03	---	5.2E-04	6.0E-03	6.7E-03	1.5E-02	---	1.1E-03	4.8E-02
4-Methylchrysene	7.3E-03	4.3E-03	1.5E-03	6.6E-03	1.4E-02	4.8E-03	5.3E-03	---	3.9E-03	1.7E-02	7.2E-03	4.9E-03	1.3E-03	6.5E-03	1.7E-02
Benzo-b-fluoranthene	6.2E-02	3.3E-02	1.5E-02	5.6E-02	1.2E-01	4.9E-02	3.6E-02	9.2E-03	3.3E-02	1.1E-01	6.0E-02	2.9E-02	2.0E-02	6.3E-02	9.5E-02
Benzo-k-fluoranthene	1.8E-02	1.0E-02	3.9E-03	1.6E-02	3.5E-02	1.4E-02	1.1E-02	1.9E-03	9.8E-03	3.4E-02	1.8E-02	8.6E-03	5.3E-03	1.9E-02	2.8E-02
Dimethylbenz-a-anthracene	9.6E-04	5.8E-04	2.6E-04	9.2E-04	2.1E-03	8.9E-04	9.5E-04	---	8.1E-04	2.5E-03	1.1E-03	5.1E-04	1.8E-04	1.0E-03	1.9E-03
Benzo-e-pyrene	2.5E-02	3.1E-02	---	1.5E-02	1.0E-01	2.2E-02	2.7E-02	---	9.5E-03	7.7E-02	2.9E-02	3.2E-02	---	2.4E-02	1.0E-01
Benzo-a-pyrene	3.5E-02	2.4E-02	5.3E-03	3.0E-02	8.6E-02	2.6E-02	2.4E-02	1.8E-03	1.9E-02	7.6E-02	3.1E-02	1.8E-02	8.1E-03	2.9E-02	5.9E-02
Perylene	4.4E-03	2.7E-03	7.4E-04	3.9E-03	9.7E-03	3.0E-03	2.9E-03	1.5E-04	2.6E-03	9.7E-03	3.8E-03	2.4E-03	1.1E-03	3.3E-03	7.3E-03
3-Methylchloanthrene	7.5E-05	1.1E-04	---	1.2E-05	2.9E-04	4.5E-05	1.1E-04	---	---	3.5E-04	2.1E-04	2.9E-04	---	6.8E-05	9.2E-04
Indeno-1,2,3-c,d-pyrene	2.4E-01	1.4E-01	6.5E-02	2.0E-01	5.0E-01	1.8E-01	1.2E-01	4.2E-02	1.3E-01	3.4E-01	2.2E-01	1.0E-01	9.6E-02	2.2E-01	3.6E-01
Dibenz-a,h+ac-anthracene	1.5E-02	7.1E-03	3.2E-03	1.4E-02	2.5E-02	1.2E-02	8.6E-03	2.3E-03	1.1E-02	2.9E-02	1.4E-02	7.0E-03	4.8E-03	1.3E-02	2.2E-02
Benzo-g,h,i-perylene	2.1E-01	1.3E-01	4.5E-02	1.7E-01	4.7E-01	1.5E-01	1.0E-01	3.6E-02	1.0E-01	3.2E-01	2.0E-01	1.1E-01	6.8E-02	1.9E-01	3.6E-01
Anthranthrene	3.1E-02	2.4E-02	2.6E-03	2.5E-02	8.6E-02	2.2E-02	1.8E-02	2.6E-03	1.9E-02	6.0E-02	2.6E-02	1.9E-02	6.1E-03	2.1E-02	6.8E-02
Coronene	1.2E-01	7.6E-02	3.1E-02	8.4E-02	2.5E-01	7.3E-02	4.8E-02	2.0E-02	7.3E-02	1.3E-01	1.1E-01	6.2E-02	4.3E-02	9.2E-02	2.4E-01

Table 11. Summary Statistics for PAH samples (ng/m³) by Site and Sampling Session and Overall for 12-Hour Samples^a

	Chapel			GLC			School								
	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
Overall			N=25					N=25					N=25		
Naphthalene	1.1E+02	1.0E+02	1.7E+01	8.5E+01	5.0E+02	6.4E+01	7.7E+01	---	3.3E+01	3.3E+02	8.3E+01	8.7E+01	---	5.3E+01	3.4E+02
2-Methylnaphthalene	7.3E+01	4.6E+01	3.1E+01	5.9E+01	2.4E+02	4.2E+01	4.5E+01	1.2E+01	2.3E+01	2.0E+02	6.6E+01	4.0E+01	1.8E+01	5.4E+01	1.9E+02
Azulene	5.1E-01	4.8E-01	---	3.6E-01	2.1E+00	1.5E-01	2.0E-01	---	7.0E-02	6.7E-01	2.1E-01	2.6E-01	---	1.0E-01	9.7E-01
1-Methylnaphthalene	2.9E+01	1.7E+01	1.4E+01	2.4E+01	9.1E+01	1.7E+01	1.7E+01	4.7E+00	9.5E+00	7.5E+01	2.5E+01	1.5E+01	7.5E+00	2.2E+01	7.0E+01
Biphenyl	7.3E+00	4.6E+00	2.8E+00	5.7E+00	2.2E+01	3.9E+00	3.1E+00	7.4E-01	3.3E+00	1.6E+01	5.4E+00	3.4E+00	7.0E-01	4.2E+00	1.3E+01
2,7-Dimethylnaphthalene	1.4E+01	9.2E+00	3.4E+00	1.2E+01	4.9E+01	8.3E+00	1.0E+01	1.2E+00	5.4E+00	5.1E+01	9.1E+00	7.3E+00	1.1E+00	7.1E+00	3.7E+01
1,3-Dimethylnaphthalene	1.8E+01	1.2E+01	5.0E+00	1.3E+01	4.8E+01	1.1E+01	1.1E+01	1.2E+00	6.2E+00	4.7E+01	1.2E+01	9.4E+00	1.1E+00	1.0E+01	3.6E+01
1,6-Dimethylnaphthalene	1.2E+01	6.3E+00	2.8E+00	9.9E+00	2.7E+01	6.5E+00	6.4E+00	1.8E-01	3.9E+00	2.9E+01	7.1E+00	5.1E+00	3.1E-01	5.8E+00	2.0E+01
1,4-Dimethylnaphthalene	5.0E+00	3.3E+00	1.2E+00	3.7E+00	1.3E+01	3.0E+00	3.0E+00	4.1E-01	1.9E+00	1.3E+01	3.5E+00	2.6E+00	4.0E-01	2.7E+00	1.0E+01
1,5-Dimethylnaphthalene	2.2E+00	1.3E+00	5.0E-01	1.9E+00	5.7E+00	1.1E+00	1.2E+00	4.0E-02	7.9E-01	5.7E+00	1.3E+00	1.0E+00	1.0E-01	1.0E+00	4.4E+00
Acenaphylene	7.3E+00	8.7E+00	7.0E-01	4.3E+00	4.0E+01	2.9E+00	4.1E+00	1.8E-01	1.1E+00	1.9E+01	5.5E+00	5.4E+00	5.2E-01	3.9E+00	2.1E+01
1,2-Dimethylnaphthalene	2.9E+00	2.1E+00	---	2.1E+00	7.9E+00	1.7E+00	1.8E+00	7.5E-02	1.0E+00	7.6E+00	2.0E+00	1.7E+00	2.0E-01	1.5E+00	6.2E+00
1,8-Dimethylnaphthalene	7.9E-02	2.1E-01	---	---	9.2E-01	1.2E-01	3.0E-01	---	---	1.1E+00	1.2E-01	3.5E-01	---	---	1.6E+00
Acenaphthene	5.1E+00	3.2E+00	1.1E+00	4.6E+00	1.1E+01	6.2E+00	9.1E+00	8.7E-01	2.7E+00	3.7E+01	6.7E+00	5.7E+00	6.0E-01	5.1E+00	2.2E+01
2,3,5-Trimethylnaphthalene	3.4E+00	1.8E+00	5.0E-01	3.8E+00	8.6E+00	2.2E+00	2.1E+00	2.8E-01	1.3E+00	9.1E+00	2.1E+00	1.6E+00	3.0E-01	1.6E+00	7.6E+00
Fluorene	1.1E+01	8.7E+00	1.2E+00	6.9E+00	2.8E+01	1.2E+01	1.6E+01	1.7E+00	5.9E+00	7.4E+01	1.4E+01	1.3E+01	1.9E+00	6.9E+00	4.3E+01
1-Methylfluorene	1.8E+00	1.7E+00	8.5E-02	1.4E+00	8.0E+00	1.1E+00	1.6E+00	4.2E-02	7.4E-01	7.4E+00	1.6E+00	2.4E+00	7.9E-02	7.4E-01	1.2E+01
Dibenzothiophene	1.5E+00	1.7E+00	---	7.5E-01	5.6E+00	1.7E+00	2.5E+00	---	6.2E-01	1.0E+01	3.7E+00	4.7E+00	---	9.7E-01	1.3E+01
Phenanthrene	2.8E+01	2.5E+01	2.1E+00	1.8E+01	8.6E+01	2.9E+01	3.9E+01	2.9E+00	1.3E+01	1.6E+02	7.8E+01	9.7E+01	3.6E+00	1.8E+01	3.2E+02
Anthracene	2.2E+00	2.3E+00	1.0E-01	1.2E+00	9.5E+00	1.9E+00	2.7E+00	1.5E-01	7.1E-01	9.7E+00	6.0E+00	7.6E+00	1.0E-01	2.8E+00	2.8E+01
2-Methyldibenzothiophene	6.3E-01	4.2E-01	1.0E-01	5.8E-01	1.7E+00	4.7E-01	4.4E-01	1.2E-01	3.6E-01	1.7E+00	7.8E-01	8.4E-01	7.7E-02	4.5E-01	3.5E+00
4-Methyldibenzothiophene	3.7E-01	2.7E-01	---	2.9E-01	1.1E+00	3.1E-01	3.3E-01	7.9E-02	2.1E-01	1.3E+00	5.5E-01	5.8E-01	---	3.3E-01	2.1E+00
2-Methylphenanthrene	3.5E+00	5.0E+00	4.1E-01	2.5E+00	2.6E+01	3.0E+00	3.7E+00	2.8E-01	1.3E+00	1.2E+01	5.0E+00	6.3E+00	2.7E-01	3.3E+00	2.7E+01
2-Methylantracene	2.9E+00	2.1E+00	3.0E-01	2.2E+00	8.6E+00	2.0E+00	1.8E+00	4.4E-01	1.5E+00	7.0E+00	4.4E+00	5.0E+00	2.0E-01	1.6E+00	1.7E+01
4,5-Methylenphenanthrene	3.3E-01	4.5E-01	3.6E-03	2.6E-01	2.2E+00	3.0E-01	4.2E-01	---	2.1E-01	2.0E+00	3.8E-01	6.3E-01	6.1E-03	2.0E-01	3.0E+00
1-Methylantracene	1.2E+00	8.8E-01	1.0E-01	8.3E-01	3.2E+00	7.8E-01	7.3E-01	1.8E-01	5.5E-01	2.6E+00	1.5E+00	1.6E+00	1.0E-01	6.5E-01	5.9E+00
1-Methylphenanthrene	9.4E-01	6.8E-01	1.0E-01	6.9E-01	2.7E+00	6.5E-01	6.0E-01	1.4E-01	4.7E-01	2.3E+00	1.4E+00	1.6E+00	1.0E-01	5.0E-01	5.8E+00
9-Methylantracene	1.7E-02	4.0E-02	---	---	1.8E-01	8.6E-03	2.0E-02	---	---	9.0E-02	4.1E-02	1.3E-01	---	---	6.0E-01
9,10-Dimethylantracene	2.2E-01	1.5E-01	---	1.7E-01	5.0E-01	1.4E-01	1.0E-01	2.7E-02	1.1E-01	4.0E-01	2.0E-01	1.7E-01	---	1.1E-01	6.4E-01
Fluoranthene	5.4E+00	8.3E+00	5.0E-01	2.1E+00	4.0E+01	5.9E+00	7.8E+00	4.4E-01	1.7E+00	2.7E+01	2.0E+01	3.1E+01	7.0E-01	2.3E+00	1.1E+02
Pyrene	2.8E+00	3.5E+00	4.0E-01	1.8E+00	1.7E+01	2.8E+00	3.3E+00	3.0E-01	1.4E+00	1.2E+01	8.3E+00	1.2E+01	6.0E-01	1.5E+00	4.3E+01

Table 11. Summary Statistics for PAH samples (ng/m³) by Site and Sampling Session and Overall for 12-Hour Samples^a

	Chapel			GLC			School								
	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
3,6-Dimethylphenanthrene	1.8E-02	3.6E-02	---	---	1.5E-01	1.7E-02	5.5E-02	---	---	2.7E-01	1.7E-02	5.8E-02	---	---	2.8E-01
Benzo-a-fluorene	7.9E-02	4.5E-02	---	8.5E-02	2.0E-01	6.7E-02	5.8E-02	---	5.8E-02	2.0E-01	1.1E-01	1.1E-01	---	8.8E-02	4.2E-01
Retene	7.1E-02	4.3E-02	---	7.1E-02	2.0E-01	8.1E-02	6.7E-02	4.9E-03	5.4E-02	2.7E-01	8.8E-02	6.6E-02	8.9E-03	7.2E-02	2.3E-01
Benzo-b-fluorene	6.6E-02	3.5E-02	---	7.0E-02	1.3E-01	5.4E-02	3.7E-02	---	4.5E-02	1.3E-01	8.3E-02	6.1E-02	---	7.5E-02	2.4E-01
Cyclopenta-c,d-pyrene	9.9E-02	1.0E-01	1.0E-02	7.0E-02	4.3E-01	6.8E-02	7.9E-02	---	3.1E-02	3.0E-01	1.1E-01	1.3E-01	---	4.9E-02	5.9E-01
Benz-a-anthracene	1.2E-01	8.7E-02	3.0E-02	9.0E-02	4.0E-01	8.9E-02	1.0E-01	---	5.9E-02	4.0E-01	1.1E-01	7.2E-02	2.0E-02	1.0E-01	3.0E-01
Chrysene+Triphenylene	1.7E-01	1.1E-01	4.5E-02	1.3E-01	5.0E-01	1.4E-01	1.0E-01	3.2E-02	1.0E-01	4.0E-01	2.8E-01	2.1E-01	6.3E-02	2.2E-01	8.9E-01
Naphacene	5.2E-03	7.7E-03	---	1.2E-03	3.0E-02	4.8E-03	9.2E-03	---	2.5E-04	4.0E-02	5.3E-03	1.1E-02	---	3.1E-04	4.8E-02
4-Methylchrysene	4.5E-03	8.6E-03	---	---	4.0E-02	3.7E-03	7.0E-03	---	---	3.0E-02	3.4E-03	4.9E-03	---	---	1.7E-02
Benzo-b-fluoranthene	1.0E-01	9.6E-02	---	7.0E-02	4.0E-01	7.6E-02	9.5E-02	---	4.1E-02	4.0E-01	1.0E-01	9.2E-02	---	8.6E-02	4.0E-01
Benzo-k-fluoranthene	5.5E-02	8.5E-02	---	2.4E-02	4.0E-01	4.7E-02	8.4E-02	---	1.2E-02	3.0E-01	5.3E-02	7.8E-02	---	2.2E-02	3.0E-01
Dimethylbenz-a-anthracene	5.8E-03	2.4E-02	---	2.6E-04	1.2E-01	3.2E-03	1.0E-02	---	---	5.0E-02	8.8E-04	2.0E-03	---	---	1.0E-02
Benzo-e-pyrene	7.3E-02	9.7E-02	---	3.1E-02	4.0E-01	5.6E-02	7.2E-02	---	2.2E-02	3.0E-01	6.7E-02	8.2E-02	---	3.0E-02	3.0E-01
Benzo-a-pyrene	7.4E-02	1.1E-01	---	3.3E-02	5.0E-01	6.3E-02	9.7E-02	---	2.7E-02	4.0E-01	5.5E-02	7.8E-02	---	2.4E-02	3.0E-01
Perylene	7.8E-03	2.0E-02	---	7.4E-04	1.0E-01	3.0E-03	6.5E-03	---	7.3E-05	3.0E-02	2.4E-03	3.3E-03	---	5.6E-04	1.0E-02
3-Methylchloanthrene	1.7E-02	3.9E-02	---	---	1.4E-01	1.7E-05	7.1E-05	---	---	3.5E-04	8.6E-05	2.1E-04	---	---	9.2E-04
Indeno-1,2,3-c,d-pyrene	1.5E-01	1.3E-01	---	1.0E-01	5.0E-01	1.3E-01	1.2E-01	---	1.0E-01	4.0E-01	1.5E-01	1.2E-01	---	1.1E-01	4.0E-01
Dibenz-a,h+ac-anthracene	9.1E-03	1.4E-02	---	---	6.0E-02	6.6E-03	9.7E-03	---	---	3.0E-02	5.7E-03	8.2E-03	---	---	2.2E-02
Benzo-g,h,i-perylene	1.7E-01	1.5E-01	4.0E-02	1.0E-01	5.0E-01	1.2E-01	1.3E-01	---	9.0E-02	5.0E-01	1.5E-01	1.2E-01	1.0E-02	1.0E-01	4.0E-01
Anthranthrene	1.8E-02	2.8E-02	---	---	1.0E-01	9.5E-03	1.6E-02	---	---	6.0E-02	1.1E-02	1.8E-02	---	---	6.8E-02
Coronene	6.3E-02	7.2E-02	---	6.0E-02	2.5E-01	3.4E-02	4.7E-02	---	1.0E-02	1.3E-01	5.7E-02	6.8E-02	---	3.1E-02	2.4E-01

^aA dash (---) denotes a value that was equal to zero or negative number after blank correction.

Table 12. Summary Statistics of PAH Samples Collected during the Winter 2005, Summer 2006 and Winter 2006 Sampling Sessions (ng/m³)^a

	12-hour N=72					Weekend N=9				
	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
Naphthalene	8.6E+01	9.1E+01	---	5.3E+01	5.0E+02	7.7E+01	9.0E+01	1.7E+01	2.7E+01	2.7E+02
2-Methylnaphthalene	6.1E+01	4.5E+01	1.2E+01	4.9E+01	2.4E+02	3.7E+01	5.5E+01	0.0E+00	2.4E+01	1.8E+02
Azulene	2.9E-01	3.7E-01	---	1.5E-01	2.1E+00	2.4E-01	2.5E-01	5.5E-02	1.1E-01	8.1E-01
1-Methylnaphthalene	2.4E+01	1.7E+01	4.7E+00	1.9E+01	9.1E+01	1.4E+01	2.1E+01	0.0E+00	9.7E+00	6.9E+01
Biphenyl 2,7-	5.5E+00	4.0E+00	7.0E-01	4.3E+00	2.2E+01	2.0E+00	1.2E+00	0.0E+00	2.2E+00	3.6E+00
Dimethylnaphthalene 1,3-	1.1E+01	9.3E+00	1.1E+00	8.1E+00	5.1E+01	2.0E+01	5.0E+01	6.6E-01	3.1E+00	1.5E+02
Dimethylnaphthalene 1,6-	1.4E+01	1.1E+01	1.1E+00	1.0E+01	4.8E+01	4.3E+01	1.2E+02	1.5E+00	3.1E+00	3.6E+02
Dimethylnaphthalene 1,4-	8.4E+00	6.3E+00	1.8E-01	7.3E+00	2.9E+01	2.3E+01	6.0E+01	8.4E-01	3.6E+00	1.8E+02
Dimethylnaphthalene 1,5-	3.8E+00	3.1E+00	4.0E-01	2.8E+00	1.3E+01	1.3E+01	3.5E+01	5.3E-01	9.8E-01	1.1E+02
Dimethylnaphthalene	1.5E+00	1.3E+00	4.0E-02	1.2E+00	5.7E+00	4.6E+00	1.2E+01	1.4E-01	5.8E-01	3.7E+01
Acenaphylene	5.3E+00	6.6E+00	1.8E-01	2.8E+00	4.0E+01	1.1E+00	9.3E-01	0.0E+00	7.1E-01	2.6E+00
Dimethylnaphthalene 1,8-	2.2E+00	1.9E+00	---	1.6E+00	7.9E+00	8.1E+00	2.2E+01	3.3E-01	6.2E-01	6.7E+01
Dimethylnaphthalene	1.1E-01	2.9E-01	---	---	1.6E+00	7.5E-01	1.8E+00	1.6E-03	1.3E-01	5.6E+00
Acenaphthene 2,3,5-	6.0E+00	6.4E+00	6.0E-01	3.9E+00	3.7E+01	3.2E+00	4.3E+00	0.0E+00	1.8E+00	1.4E+01
Trimethylnaphthalene	2.6E+00	1.9E+00	2.8E-01	2.1E+00	9.1E+00	9.2E-01	2.4E-01	5.1E-01	9.2E-01	1.4E+00
Fluorene	1.2E+01	1.3E+01	1.2E+00	6.8E+00	7.4E+01	6.1E+00	5.5E+00	1.7E+00	3.2E+00	1.8E+01
1-Methylfluorene	1.5E+00	1.9E+00	4.2E-02	8.3E-01	1.2E+01	7.0E-01	4.6E-01	2.9E-01	4.4E-01	1.4E+00
Dibenzothiophene	2.3E+00	3.3E+00	---	7.0E-01	1.3E+01	1.9E+00	2.7E+00	1.5E-01	2.9E-01	8.0E+00
Phenanthrene	4.5E+01	6.5E+01	2.1E+00	1.6E+01	3.2E+02	3.9E+01	5.8E+01	3.5E+00	7.0E+00	1.8E+02
Anthracene	3.4E+00	5.1E+00	1.0E-01	1.1E+00	2.8E+01	2.5E+00	4.2E+00	2.2E-01	4.8E-01	1.3E+01
2-Methyl Methyldibenzothiophene 4-	6.3E-01	6.0E-01	7.7E-02	4.3E-01	3.5E+00	4.1E-01	4.1E-01	1.3E-01	1.8E-01	1.3E+00
Methyldibenzothiophene	4.1E-01	4.2E-01	---	2.5E-01	2.1E+00	2.7E-01	3.2E-01	7.3E-02	1.1E-01	1.0E+00
2-Methylphenanthrene	3.8E+00	5.1E+00	2.7E-01	1.5E+00	2.7E+01	1.6E+00	2.0E+00	2.9E-01	5.3E-01	6.3E+00
2-Methylanthracene	3.1E+00	3.4E+00	2.0E-01	1.7E+00	1.7E+01	2.4E+00	3.2E+00	4.7E-01	8.7E-01	1.0E+01

Table 12. Summary Statistics of PAH Samples Collected during the Winter 2005, Summer 2006 and Winter 2006 Sampling Sessions (ng/m³)^a

	12-hour N=72					Weekend N=9				
	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
4,5-Methylenphenanthrene	3.3E-01	5.0E-01	---	2.1E-01	3.0E+00	4.3E-02	4.9E-02	6.1E-03	1.9E-02	1.4E-01
1-Methylanthracene	1.2E+00	1.1E+00	1.0E-01	6.9E-01	5.9E+00	7.6E-01	8.9E-01	1.6E-01	3.0E-01	2.8E+00
1-Methylphenanthrene	9.9E-01	1.1E+00	1.0E-01	5.7E-01	5.8E+00	6.9E-01	8.7E-01	1.4E-01	2.7E-01	2.8E+00
9,10-Dimethylanthracene	2.2E-02	7.9E-02	---	---	6.0E-01	7.7E-03	9.3E-03	0.0E+00	6.6E-03	3.0E-02
Fluoranthene	1.9E-01	1.5E-01	---	1.3E-01	6.4E-01	1.1E-01	1.1E-01	2.4E-02	4.8E-02	3.4E-01
Pyrene	1.0E+01	2.0E+01	4.4E-01	2.1E+00	1.1E+02	7.8E+00	1.5E+01	4.5E-01	1.4E+00	4.7E+01
3,6-Dimethylphenanthrene	4.6E+00	7.8E+00	3.0E-01	1.6E+00	4.3E+01	3.5E+00	6.0E+00	2.9E-01	9.0E-01	1.9E+01
Benzo-a-fluorene	1.7E-02	5.0E-02	---	---	2.8E-01	1.4E-02	2.2E-02	0.0E+00	0.0E+00	5.8E-02
Retene	8.7E-02	7.7E-02	---	6.6E-02	4.2E-01	6.3E-02	5.3E-02	1.3E-02	4.3E-02	1.9E-01
Benzo-b-fluorene	8.0E-02	5.9E-02	---	6.5E-02	2.7E-01	6.2E-02	4.7E-02	1.9E-02	4.2E-02	1.3E-01
Cyclopenta-c,d-pyrene	6.8E-02	4.7E-02	---	7.0E-02	2.4E-01	5.8E-02	3.6E-02	1.4E-02	5.2E-02	1.4E-01
Benz-a-anthracene	9.2E-02	1.1E-01	---	5.0E-02	5.9E-01	4.5E-02	1.6E-02	2.0E-02	5.2E-02	6.5E-02
Chrysene+Triphenylene	1.1E-01	8.7E-02	---	9.0E-02	4.0E-01	5.8E-02	2.3E-02	1.9E-02	6.0E-02	9.0E-02
Naphacene	1.9E-01	1.6E-01	3.2E-02	1.5E-01	8.9E-01	1.4E-01	8.4E-02	2.7E-02	1.2E-01	3.4E-01
4-Methylchrysene	5.1E-03	9.1E-03	---	5.2E-04	4.8E-02	1.6E-03	3.2E-03	0.0E+00	5.0E-04	1.0E-02
Benzo-b-fluoranthene	3.9E-03	7.0E-03	---	---	4.0E-02	2.6E-03	2.5E-03	0.0E+00	2.6E-03	6.4E-03
Benzo-k-fluoranthene	9.2E-02	9.4E-02	---	6.8E-02	4.0E-01	6.4E-02	3.9E-02	8.7E-03	4.5E-02	1.2E-01
Dimethylbenz-a-anthracene	5.2E-02	8.2E-02	---	2.0E-02	4.0E-01	1.9E-02	1.2E-02	2.6E-03	1.3E-02	4.0E-02
Benzo-c-pyrene	3.3E-03	1.5E-02	---	---	1.2E-01	5.3E-04	5.9E-04	0.0E+00	2.5E-04	1.5E-03
Benzo-a-pyrene	6.5E-02	8.4E-02	---	3.0E-02	4.0E-01	3.0E-02	2.1E-02	6.0E-04	2.9E-02	7.0E-02
Perylene	6.4E-02	9.5E-02	---	3.0E-02	5.0E-01	3.0E-02	2.5E-02	4.2E-03	1.7E-02	7.0E-02
3-Methylchloanthrene	4.4E-03	1.3E-02	---	1.5E-04	1.0E-01	2.6E-03	3.0E-03	0.0E+00	2.3E-03	1.0E-02
Indeno-1,2,3-c,d-pyrene	6.0E-03	2.4E-02	---	---	1.4E-01	2.2E-03	6.7E-03	0.0E+00	0.0E+00	2.0E-02
Dibenz-a,h+ac-anthracene	1.4E-01	1.2E-01	---	1.0E-01	5.0E-01	1.2E-01	4.9E-02	3.4E-02	1.4E-01	1.9E-01
Benzo-g,h,i-perylene	7.2E-03	1.1E-02	---	---	6.0E-02	5.6E-03	4.9E-03	0.0E+00	8.7E-03	1.1E-02
Anthranthrene	1.5E-01	1.3E-01	---	1.0E-01	5.0E-01	9.6E-02	4.3E-02	3.2E-02	9.7E-02	1.5E-01
	1.3E-02	2.1E-02	---	---	1.0E-01	9.9E-03	7.4E-03	0.0E+00	1.0E-02	2.1E-02

Table 12. Summary Statistics of PAH Samples Collected during the Winter 2005, Summer 2006 and Winter 2006 Sampling Sessions (ng/m³)^a

	12-hour N=72					Weekend N=9				
	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
Coronene	5.1E-02	6.4E-02	---	2.1E-02	2.5E-01	4.7E-02	3.0E-02	1.0E-02	5.6E-02	9.3E-02

^aA dash (---) denotes a value that was equal to zero or negative number after blank correction.

Table 13. Five-Weekday (7:00A.M.-7:00P.M.) and Five-Weeknight (7:00P.M.-7:00A.M.) PAH Samples (ng/m³), Summer 2005

	Chapel	Chapel	GLC	GLC	School	School
	AM	PM	AM	PM	AM	PM
Naphthalene	1.96E+01	8.61E+01	7.07E+01	2.58E+01	2.35E+01	2.25E+01
2-Methylnaphthalene	6.95E+01	4.65E+01	4.74E+01	9.34E+00	6.06E+01	1.62E+01
Azulene	2.98E-01	7.07E-01	3.82E-01	0.00E+00	1.09E-01	7.92E-02
1-Methylnaphthalene	2.86E+01	1.82E+01	1.83E+01	3.70E+00	2.32E+01	6.09E+00
Biphenyl	3.60E+00	4.13E+00	4.44E+00	8.49E+00	4.27E+00	1.71E+00
2,7-Dimethylnaphthalene	9.05E+00	8.74E+00	9.30E+00	1.57E+01	7.85E+00	3.12E+00
1,3-Dimethylnaphthalene	8.27E+00	7.37E+00	7.93E+00	1.35E+01	6.40E+00	2.30E+00
1,6-Dimethylnaphthalene	4.38E+00	4.98E+00	4.50E+00	7.59E+00	4.27E+00	2.12E+00
1,4-Dimethylnaphthalene	2.58E+00	2.16E+00	2.29E+00	4.28E+00	2.01E+00	7.37E-01
1,5-Dimethylnaphthalene	8.73E-01	8.54E-01	9.08E-01	1.48E+00	7.86E-01	4.39E-01
Acenaphthylene	8.15E-01	7.75E-01	1.02E+00	2.94E+00	8.76E-01	3.55E-01
1,2-Dimethylnaphthalene	9.24E-01	8.71E-01	8.09E-01	1.47E+00	8.92E-01	4.03E-01
1,8-Dimethylnaphthalene	3.95E-01	3.82E-01	4.55E-01	1.48E+00	3.35E-01	1.99E-01
Acenaphthene	4.96E+00	6.23E+00	1.24E+01	1.82E+01	1.08E+01	5.05E+00
2,3,5-Trimethylnaphthalene	2.85E+00	2.44E+00	2.01E+00	2.49E+00	2.44E+00	9.64E-01
Fluorene	9.80E+00	1.36E+01	1.67E+01	1.68E+01	3.06E+01	1.17E+01
1-Methylfluorene	1.68E+00	1.82E+00	1.00E+00	1.80E+00	2.05E+00	1.04E+00
Dibenzothiophene	2.17E+00	3.66E+00	2.90E+00	4.06E+00	1.16E+01	4.53E+00
Phenanthrene	4.29E+01	7.34E+01	5.52E+01	7.58E+01	2.77E+02	9.52E+01
Anthracene	3.03E+00	3.90E+00	2.93E+01	3.23E+00	1.90E+01	6.18E+00
2-Methyldibenzothiophene	7.47E-01	8.50E-01	5.82E-01	7.64E-01	1.69E+00	7.10E-01
4-Methyldibenzothiophene	3.85E-01	4.80E-01	3.61E-01	4.66E-01	1.32E+00	4.92E-01
2-Methylphenanthrene	3.18E+00	3.74E+00	2.03E+00	2.57E+00	1.00E+01	3.17E+00
2-Methylantracene	3.92E+00	4.88E+00	2.56E+00	3.30E+00	1.43E+01	4.85E+00
4,5-Methylenphenanthrene	8.40E-02	1.23E-01	1.06E-01	9.72E-02	3.21E-01	7.88E-02
1-Methylantracene	1.74E+00	1.86E+00	1.02E+00	1.24E+00	4.26E+00	1.48E+00
1-Methylphenanthrene	1.36E+00	1.51E+00	7.75E-01	1.00E+00	4.39E+00	1.36E+00
9-Methylantracene	3.15E-02	2.57E-02	3.79E-02	1.22E-02	8.23E-02	1.54E-02
9,10-Dimethylantracene	2.35E-01	2.72E-01	1.54E-01	1.77E-01	5.47E-01	2.03E-01
Fluoranthene	4.15E+00	7.38E+00	5.13E+00	6.35E+00	8.30E+01	1.80E+01
Pyrene	2.50E+00	4.04E+00	2.51E+00	3.24E+00	3.41E+01	7.60E+00
3,6-Dimethylphenanthrene	3.85E-02	5.10E-02	5.72E-03	1.02E-02	6.28E-02	1.25E-02
Benzo-a-fluorene	4.94E-02	9.13E-02	6.30E-02	8.37E-02	3.88E-01	1.18E-01
Retene	5.36E-02	9.04E-02	6.74E-02	7.93E-02	3.68E-01	1.33E-01
Benzo-b-fluorene	4.32E-02	7.25E-02	4.98E-02	8.09E-02	2.61E-01	8.36E-02
Cyclopenta-c,d-pyrene	1.24E-02	3.79E-02	9.54E-03	3.98E-02	3.89E-02	2.62E-02
Benz-a-anthracene	2.45E-02	6.35E-02	1.95E-02	6.79E-02	1.05E-01	4.95E-02
Chrysene+Triphenylene	5.60E-02	1.19E-01	4.73E-02	1.29E-01	5.10E-01	1.44E-01
Naphacene	1.11E-03	2.40E-03	1.24E-03	1.91E-03	2.80E-03	1.43E-03
4-Methylchrysene	0.00E+00	3.02E-03	1.37E-05	3.49E-03	1.83E-03	0.00E+00
Benzo-b-fluoranthene	1.61E-02	9.49E-02	1.67E-02	1.37E-01	6.25E-02	5.45E-02
Benzo-k-fluoranthene	3.87E-03	2.80E-02	5.88E-03	4.34E-02	1.88E-02	1.96E-02
Dimethylbenz-a-anthracene	0.00E+00	0.00E+00	0.00E+00	1.88E-03	0.00E+00	1.18E-04
Benzo-e-pyrene	1.42E-02	6.72E-02	1.60E-02	7.08E-02	3.21E-02	3.93E-02

Table 13. Five-Weekday (7:00A.M.-7:00P.M.) and Five-Weeknight (7:00P.M.-7:00A.M.) PAH Samples (ng/m³), Summer 2005

	Chapel	Chapel	GLC	GLC	School	School
	AM	PM	AM	PM	AM	PM
Benzo-a-pyrene	1.31E-02	7.60E-02	1.25E-02	7.10E-02	1.98E-02	3.28E-02
Perylene	0.00E+00	5.75E-03	0.00E+00	7.44E-03	0.00E+00	5.39E-03
3-Methylchloanthrene	0.00E+00	0.00E+00	6.25E-05	0.00E+00	0.00E+00	2.96E-03
Indeno-1,2,3-c,d-pyrene	1.92E-02	1.43E-01	2.51E-02	1.33E-01	4.10E-02	5.19E-02
Dibenz-a,h+ac-anthracene	0.00E+00	1.02E-02	0.00E+00	5.35E-03	0.00E+00	6.15E-03
Benzo-g,h,i-perylene	3.82E-02	1.32E-01	2.62E-02	1.44E-01	4.34E-02	6.34E-02
Anthranthrene	0.00E+00	3.85E-03	0.00E+00	6.47E-03	0.00E+00	4.34E-03
Coronene	5.01E-03	6.73E-02	3.81E-03	4.33E-02	1.14E-02	3.53E-02

Table 14. Summary Statistics of NPAH Samples (pg/m³) by Site and Sampling Session^a

	Chapel					GLC					School				
	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
Winter 2005	N=4					N=4					N=4				
1N-Naphthalene	4.2E+02	4.8E+02	1.5E+02	1.9E+02	1.1E+03	3.8E+02	3.8E+02	3.6E+01	2.9E+02	9.2E+02	4.4E+02	5.9E+02	9.6E+01	1.6E+02	1.3E+03
2N-Naphthalene	2.4E+02	3.4E+02	---	1.1E+02	7.4E+02	2.2E+02	3.2E+02	---	9.0E+01	7.0E+02	2.4E+02	4.3E+02	---	3.1E+01	8.8E+02
2N-Biphenyl	7.7E+02	1.0E+03	5.7E+01	4.0E+02	2.2E+03	6.4E+02	9.9E+02	5.1E+00	2.2E+02	2.1E+03	1.0E+03	1.9E+03	9.1E+01	1.1E+02	3.8E+03
3N-Biphenyl	6.1E+02	1.0E+03	3.0E+01	1.3E+02	2.1E+03	3.3E+02	5.2E+02	5.3E+00	1.1E+02	1.1E+03	9.1E+02	1.8E+03	1.2E+01	4.2E+01	3.6E+03
2N-Anthracene	4.5E+01	3.7E+01	---	5.0E+01	8.0E+01	5.7E+01	4.9E+01	2.4E+01	3.7E+01	1.3E+02	5.7E+01	6.0E+01	---	4.4E+01	1.4E+02
9N-Phenanthrene	1.8E+00	2.1E+00	---	1.7E+00	4.0E+00	1.6E+00	2.1E+00	---	9.7E-01	4.4E+00	4.4E-01	8.9E-01	---	---	1.8E+00
3N-Phenanthrene	---	---	---	---	---	9.1E-01	1.8E+00	---	---	3.7E+00	8.4E-01	1.7E+00	---	---	3.4E+00
4N-Phenanthrene	2.1E+00	3.1E+00	---	9.2E-01	6.5E+00	2.6E+00	4.5E+00	---	5.4E-01	9.4E+00	7.5E-01	1.5E+00	---	---	3.0E+00
3N-Fluoranthene	7.5E+00	5.8E+00	1.9E+00	6.8E+00	1.5E+01	8.0E+00	5.8E+00	8.4E-01	8.2E+00	1.5E+01	3.7E+00	2.7E+00	---	4.5E+00	6.0E+00
1N-Pyrene	5.4E-01	1.1E+00	---	---	2.1E+00	---	---	---	---	---	2.2E-01	4.3E-01	---	---	8.6E-01
2N-Pyrene	5.8E+00	8.3E+00	---	2.8E+00	1.8E+01	4.5E+00	5.5E+00	---	3.3E+00	1.1E+01	---	---	---	---	---
7N-Benz-a-anthracene	1.2E+00	1.6E+00	---	6.8E-01	3.4E+00	4.4E-01	8.9E-01	---	---	1.8E+00	1.2E+00	1.6E+00	---	7.1E-01	3.5E+00
6N-Chrysene	1.3E+00	1.6E+00	---	1.1E+00	3.1E+00	2.2E+00	2.5E+00	---	2.1E+00	4.6E+00	2.0E+00	2.3E+00	---	1.8E+00	4.2E+00
1N-Benzo-e-pyrene	4.5E-01	9.0E-01	---	---	1.8E+00	---	---	---	---	---	---	---	---	---	---
3N-Benzo-e-pyrene	---	---	---	---	---	3.7E-01	7.5E-01	---	---	1.5E+00	---	---	---	---	---
Summer 2005	N=10					N=10					N=8				
1N-Naphthalene	6.3E+01	1.5E+01	4.1E+01	6.2E+01	9.1E+01	3.4E+01	1.2E+01	1.9E+01	3.3E+01	5.7E+01	6.2E+01	1.8E+01	3.8E+01	6.1E+01	9.4E+01
2N-Naphthalene	5.7E+01	1.7E+01	3.1E+01	6.0E+01	8.2E+01	3.3E+01	1.3E+01	1.6E+01	3.0E+01	5.2E+01	6.6E+01	2.2E+01	3.9E+01	6.7E+01	9.9E+01
2N-Biphenyl	7.1E+01	5.2E+01	1.4E+01	5.9E+01	1.7E+02	7.3E+01	4.5E+01	1.0E+01	7.5E+01	1.4E+02	2.0E+02	7.4E+01	1.0E+02	2.1E+02	3.0E+02
3N-Biphenyl	2.2E+01	1.2E+01	1.2E+01	1.9E+01	5.4E+01	1.5E+01	5.8E+00	7.4E+00	1.5E+01	2.7E+01	2.1E+01	8.4E+00	1.2E+01	1.9E+01	3.9E+01
4N-Biphenyl	1.7E+01	4.9E+01	---	---	1.5E+02	4.5E+00	1.4E+01	---	---	4.5E+01	1.5E+01	2.2E+01	---	3.3E+00	5.7E+01
1,3-DiN-Naphthalene	5.8E-01	4.1E-01	---	5.2E-01	1.1E+00	3.2E-01	3.0E-01	---	1.8E-01	8.8E-01	6.4E-01	3.7E-01	---	6.9E-01	1.3E+00
1,5-DiN-Naphthalene	2.7E-02	8.5E-02	---	---	2.7E-01	3.4E-02	8.6E-02	---	---	2.7E-01	4.4E-02	1.2E-01	---	---	3.5E-01
5N-Acenaphthalene	2.6E+01	1.7E+01	7.8E+00	2.5E+01	6.6E+01	2.7E+01	1.6E+01	1.1E+01	2.1E+01	5.8E+01	5.4E+01	2.5E+01	3.1E+01	4.5E+01	1.0E+02
2N-Fluorene	2.5E-01	3.5E-01	---	1.5E-01	1.2E+00	1.2E-01	1.8E-01	---	5.8E-02	5.5E-01	9.1E-02	9.1E-02	---	5.5E-02	2.5E-01
9N-Anthracene	5.0E+01	3.6E+01	1.0E+01	4.1E+01	1.3E+02	4.3E+01	3.4E+01	1.8E+01	2.8E+01	1.3E+02	5.3E+01	1.5E+01	3.7E+01	4.8E+01	8.2E+01
2N-Anthracene	4.4E-01	4.9E-01	---	3.4E-01	1.3E+00	2.8E-01	3.6E-01	---	7.0E-02	9.1E-01	8.3E-01	4.0E-01	---	8.5E-01	1.3E+00
9N-Phenanthrene	2.0E+00	7.0E-01	1.1E+00	2.0E+00	3.5E+00	2.2E-01	2.5E-01	---	1.5E-01	6.7E-01	4.9E-01	4.4E-01	---	3.6E-01	1.2E+00
3N-Phenanthrene	3.8E+00	1.4E+00	1.9E+00	3.7E+00	6.6E+00	2.3E+00	1.0E+00	9.4E-01	2.0E+00	4.3E+00	6.2E+00	1.6E+00	4.2E+00	5.5E+00	8.6E+00
4N-Phenanthrene	2.5E-01	5.4E-01	---	---	1.5E+00	4.6E-01	1.5E+00	---	---	4.6E+00	2.7E+00	5.3E+00	---	7.4E-01	1.5E+01
2N-Fluoranthene	7.9E+00	3.0E+00	3.1E+00	8.1E+00	1.3E+01	5.0E+00	1.5E+00	2.1E+00	5.3E+00	7.6E+00	1.4E+01	5.6E+00	7.8E+00	1.4E+01	2.4E+01
1N-Pyrene	5.7E+00	1.8E+00	3.1E+00	5.7E+00	9.1E+00	7.0E-01	5.6E-01	---	6.8E-01	2.0E+00	2.1E+00	5.2E-01	1.3E+00	2.1E+00	2.9E+00

Table 14. Summary Statistics of NPAH Samples (pg/m³) by Site and Sampling Session^a

	Chapel					GLC					School				
	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
2N-Pyrene	1.0E-01	7.8E-02	---	9.5E-02	2.3E-01	1.6E-01	1.7E-01	---	1.2E-01	5.7E-01	4.4E-01	5.2E-01	4.0E-02	2.3E-01	1.5E+00
7N-Benz-a-anthracene	1.7E-01	1.4E-01	1.0E-02	1.2E-01	4.5E-01	1.1E-01	1.3E-01	2.0E-02	5.0E-02	4.4E-01	2.0E-01	2.0E-01	---	1.7E-01	4.9E-01
6N-Chrysene	8.9E-02	2.8E-01	---	---	8.9E-01	---	---	---	---	---	2.1E-02	6.0E-02	---	---	1.7E-01
6N-Benzo-a-pyrene	2.7E-01	4.6E-01	---	---	1.1E+00	6.3E-01	1.1E+00	---	---	3.5E+00	2.7E-01	5.0E-01	---	---	1.2E+00
1N-Benzo-e-pyrene	1.7E-01	2.7E-01	---	---	8.1E-01	1.7E-01	2.1E-01	---	1.2E-01	6.5E-01	7.0E-02	1.4E-01	---	---	3.6E-01
3N-Benzo-e-pyrene	3.0E-01	9.4E-01	---	---	3.0E+00	5.8E-01	1.4E+00	---	---	4.4E+00	---	---	---	---	---

^aA dash (---) denotes a value that was equal to zero or negative number after blank correction.

Table 15. Descriptive Statistics 12-Hour Weekday VOC Samples (7:00A.M.-7:00P.M.) by Wind Type and Sampling Session (ng/m³)^a

Wind Type/Session/N	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
	CityOther	Summer 2005	N=3			CityOther	Winter 2006	N=11		
1-3 butadiene	139	33	108	136	174	372	584	132	169	2123
mtbe	12	7	---	14	18	30	15	10	23	61
benzene	1266	280	957	1337	1503	1391	325	835	1522	1813
toluene	3569	1148	2361	3702	4645	3498	1204	1628	3381	5786
ethylbenzene	562	138	407	610	670	401	154	148	416	670
mpxlyene	1837	585	1169	2081	2261	1424	553	494	1437	2401
o-xylene	720	197	495	801	864	564	227	190	571	972
BTEX	7954	2234	5389	9000	9474	7278	2231	3293	7378	10845
BTEXPLus	8226	2256	5633	9306	9740	7791	2677	3461	7749	13261
styrene	121	47	66	144	152	112	77	20	93	270
chloroform	9	10	---	---	20	69	18	37	65	112
trichloroethane	96	4	93	95	101	98	6	88	98	107
carbon tetrachloride	617	8	608	618	624	702	81	502	727	779
2-methylhexane	403	43	355	416	437	1039	1890	179	508	6710
2, 3-dimethylpentane	197	20	176	199	216	587	1031	111	278	3679
3-methylhexane	453	37	413	463	484	1451	2750	236	658	9709
trichlorethene	13	8	---	---	22	136	199	25	56	653
2,2,4-trimethylpentane	403	79	316	426	468	618	259	216	619	1111
methylcyclohexane	121	29	95	116	152	346	362	106	262	1411
tetrachloroethene	178	77	102	175	257	219	77	117	203	344
1,4-dichlorobenzene	326	503	---	69	905	149	72	72	134	294
formaldehyde	900	1506	---	---	2639	751	447	269	721	1917
acetaldehyde	6340	4275	2178	6122	10720	753	459	107	870	1351
acetone	---	---	---	---	---	3674	1748	1879	3507	6928
Wind Type/Session/N	Lake	Summer 2005	N=26			Lake	Winter 2006	N=17		
1-3 butadiene	107	52	34	108	261	175	166	49	143	781
Mtbe	13	13	---	11	58	25	23	8	16	91
benzene	1015	521	278	991	2365	869	218	516	909	1221
toluene	2433	1398	653	2621	5624	2255	1596	856	1842	7330
ethylbenzene	389	191	76	450	784	236	86	84	231	363
mpxlyene	1271	679	211	1452	2670	754	329	238	713	1259
o-xylene	497	260	77	583	975	305	134	88	286	508
BTEX	5605	2707	1380	6344	10962	4419	2193	2027	3959	10681
BTEXPLus	5809	2790	1458	6585	11388	4677	2236	2108	4115	10941
styrene	84	65	---	85	263	58	27	19	56	122
chloroform	33	35	---	19	117	32	17	7	31	66
Trichloroethane	95	16	61	94	137	96	14	57	96	127
carbon tetrachloride	578	115	209	607	760	721	78	527	726	835
2-methylhexane	359	165	111	355	820	492	542	104	296	2347
2, 3-Dimethylpentane	166	72	35	164	308	279	235	62	183	799
3-methylhexane	407	204	132	380	1066	666	636	103	395	2335

Table 15. Descriptive Statistics 12-Hour Weekday VOC Samples (7:00A.M.-7:00P.M.) by Wind Type and Sampling Session (ng/m³)^a

	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
trichlorethene	47	75	---	---	285	39	15	16	34	74
2,2,4-trimethylpentane	578	698	---	292	2802	332	189	91	299	829
methylcyclohexane	115	55	---	123	205	197	100	95	162	498
tetrachloroethene	43	58	---	---	228	114	16	80	116	138
1,4-dichlorobenzene	126	236	---	---	853	108	82	38	72	246
formaldehyde	1796	2339	---	47	6704	721	287	---	806	1163
acetaldehyde	7781	14970	---	1825	59054	948	487	---	964	1911
acetone	10862	20295	---	---	63380	1648	1047	---	1730	3605

Wind Type/Session/N	Lake	Winter 05	N=10		
1-3 butadiene	110	110	---	63	287
mtbe	111	96	---	63	242
benzene	1477	1143	328	1122	3915
toluene	4022	3494	53	3146	9356
ethylbenzene	501	439	---	376	1209
mpxyene	1674	1529	19	1281	4014
o-xylene	647	581	5	496	1519
BTEX	8320	7120	685	6408	19968
BTEXPLus	8704	7425	717	6699	20514
styrene	162	235	11	72	779
chloroform	22	50	---	---	161
Trichloroethane	124	116	---	97	439
carbon tetrachloride	732	662	---	598	2477
2-methylhexane	530	383	75	492	1051
2, 3-Dimethylpentane	266	194	54	216	576
3-methylhexane	602	403	107	580	1246
trichlorethene	80	81	---	54	259
2,2,4-trimethylpentane	1019	719	136	1003	1983
methylcyclohexane	294	234	46	238	725
tetrachloroethene	223	230	---	144	708
1,4-dichlorobenzene	94	95	---	85	305
formaldehyde	864	562	---	806	2116
acetaldehyde	3938	2890	---	3377	8911
acetone	4241	4141	---	3394	14740

^aA dash (---) denotes a value that was equal to zero or negative number after blank correction.

Table 16. Descriptive Statistics 12-Hour Weekday VOC Samples (7:00A.M.-7:00P.M.) by Site and Wind Type (ng/m³)^a

Site\Wind Type\N	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
	Chapel	City/ other	N=8			Chapel	Lake	N=15		
1-3 butadiene	392	706	---	177	2123	188	168	81	144	781
mtbe	52	78	---	22	242	16	12	---	14	50
benzene	1330	529	576	1513	1992	1175	352	896	1061	2204
toluene	3293	2187	53	3379	6525	2431	915	1223	2379	5026
ethylbenzene	417	259	---	452	790	435	185	205	430	784
mpxyene	1442	928	19	1582	2785	1437	659	608	1415	2670
o-xylene	564	358	5	633	1070	558	239	240	560	975
BTEX	7046	4173	685	7708	13162	6035	2138	3225	5957	10962
BTEXPLus	7613	4676	717	8063	13893	6338	2168	3416	6294	11388
styrene	123	106	11	97	287	98	52	44	86	211
chloroform	52	54	---	49	161	28	22	3	22	66
trichloroethane	95	31	---	100	134	97	14	81	96	137
carbon tetrachloride	641	253	---	667	989	653	115	325	673	817
2-methylhexane	1188	2244	75	448	6710	431	177	216	387	910
2, 3-dimethylpentane	643	1231	60	227	3679	229	115	112	200	588
3-methylhexane	1611	3279	107	480	9709	527	296	259	432	1501
trichlorethene	121	219	---	40	653	29	27	---	29	98
2,2,4-trimethylpentane	604	524	136	436	1796	592	664	216	364	2802
methylcyclohexane	350	445	66	204	1411	173	52	112	162	329
tetrachloroethene	213	139	---	213	426	71	56	---	70	182
1,4-dichlorobenzene	79	49	---	88	134	25	25	---	---	75
formaldehyde	874	765	---	739	2116	1090	1584	---	593	4541
acetaldehyde	2077	2008	121	1226	6122	5403	13090	---	1141	51321
acetone	2644	2020	---	2052	6928	6868	16292	---	588	60559
Site\Wind Type\N	GLC	City/ other	N=9			GLC	Lake	N=14		
1-3 butadiene	136	78	---	157	264	93	64	34	70	261
mtbe	73	78	---	39	219	15	25	---	6	91
benzene	1383	1051	328	1135	3915	654	513	278	513	2365
toluene	3105	2602	365	2434	9356	1003	246	653	970	1610
ethylbenzene	415	335	65	378	1209	151	48	76	154	233
mpxyene	1362	1127	104	1225	3976	433	163	211	423	705
o-xylene	534	427	39	495	1512	170	63	77	169	274
BTEX	6799	5518	900	5800	19968	2411	805	1380	2218	4562
BTEXPLus	7105	5650	978	6061	20514	2548	873	1458	2340	4832
styrene	97	71	20	66	201	29	22	---	29	80
chloroform	40	41	---	36	112	18	17	---	12	47
trichloroethane	127	118	54	93	439	95	18	61	98	127
carbon tetrachloride	778	658	269	618	2477	643	118	427	649	835
2-methylhexane	474	298	97	401	1051	186	50	104	188	270
2, 3-dimethylpentane	257	160	54	216	576	95	34	35	86	154
3-methylhexane	613	353	154	484	1246	228	78	103	214	384
trichlorethene	76	76	---	53	259	34	35	---	28	141

Table 16. Descriptive Statistics 12-Hour Weekday VOC Samples (7:00A.M.-7:00P.M.) by Site and Wind Type (ng/m³)^a

	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
2,2,4-trimethylpentane	756	552	216	619	1983	325	575	---	165	2297
methylcyclohexane	247	204	46	235	725	77	40	---	62	135
tetrachloroethene	207	199	20	184	708	66	50	---	71	134
1,4-dichlorobenzene	78	59	---	72	153	25	30	---	---	91
formaldehyde	961	679	408	713	2639	334	439	---	47	1163
acetaldehyde	3183	3304	203	2178	8911	8072	16152	---	1598	59054
acetone	4564	4130	---	3679	14740	7238	17659	---	217	63380
Site\Wind Type\N	School	City/ other	N=7			School	Lake	N=14		
1-3 butadiene	179	108	---	169	306	117	52	55	106	244
mtbe	57	78	14	26	233	22	17	---	19	58
benzene	1541	594	658	1584	2490	1027	205	563	1035	1309
toluene	5015	2011	2230	4555	8497	3649	1476	1663	3300	7330
ethylbenzene	577	317	216	610	1152	392	87	270	371	528
mpxylyene	2017	1098	719	2081	4014	1304	290	915	1259	1821
o-xylene	788	419	279	801	1519	525	119	372	499	729
BTEX	9939	4297	4102	9474	17671	6897	1814	3959	6921	10681
BTEXPLus	10368	4610	4185	9740	18794	7129	1825	4115	7153	10941
styrene	193	264	21	110	779	92	54	43	87	263
chloroform	33	32	---	20	71	51	36	---	41	117
trichloroethane	101	15	88	101	133	94	14	57	93	111
carbon tetrachloride	680	83	557	725	755	606	141	209	617	809
2-methylhexane	594	282	257	648	1045	616	539	296	395	2347
2, 3-dimethylpentane	321	155	139	384	514	305	220	124	218	799
3-methylhexane	705	323	335	840	1130	771	609	318	504	2335
trichlorethene	99	133	---	56	383	70	90	---	36	285
2,2,4-trimethylpentane	937	553	426	821	1864	519	427	194	365	1868
methylcyclohexane	297	161	147	318	580	190	104	95	171	498
tetrachloroethene	230	128	55	233	428	77	70	---	95	228
1,4-dichlorobenzene	317	270	106	267	905	315	230	142	240	853
formaldehyde	565	413	---	821	1012	2709	2337	---	1949	6704
acetaldehyde	3059	3850	---	1133	10720	1740	994	---	1514	3845
acetone	2984	2660	---	2438	7307	7577	16207	---	1782	61181

^aA dash (---) denotes a value that was equal to zero or negative number after blank correction.

Table 17. Descriptive Statistics 12-Hour Weekday Elements (ng/m³), PM₁₀ (µg/m³), PM_{2.5} (µg/m³), and EC-r (µg/m³) Samples (7:00A.M.-7:00P.M.) by Wind Type and Sampling Session^a

Wind Type/Session/N	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
	City	Summer 2005	N=3			City	Winter 2006	N=8		
Be	2.37E-03	1.61E-03	5.57E-04	2.89E-03	3.66E-03	4.41E-03	3.57E-03	---	4.07E-03	9.42E-03
Na	2.43E+01	1.69E+01	1.10E+01	1.87E+01	4.34E+01	1.02E+02	4.55E+01	3.04E+01	1.09E+02	1.87E+02
Mg	1.80E+01	1.27E+01	6.62E+00	1.58E+01	3.16E+01	1.87E+01	1.69E+01	1.69E-01	1.22E+01	4.76E+01
Al	6.24E+01	6.07E+01	8.30E+00	5.10E+01	1.28E+02	7.59E+01	1.09E+02	---	3.14E+01	3.23E+02
S	3.67E+02	6.30E+01	3.09E+02	3.59E+02	4.34E+02	1.35E+03	7.10E+02	5.60E+01	1.65E+03	1.97E+03
K	1.86E+01	2.65E+00	1.68E+01	1.74E+01	2.17E+01	5.27E+01	3.11E+01	6.44E-01	5.69E+01	9.71E+01
Ca	1.27E+02	1.02E+02	3.01E+01	1.18E+02	2.33E+02	1.35E+02	1.97E+02	2.49E+00	6.54E+01	6.11E+02
Sc	1.91E-02	1.70E-02	3.25E-03	1.70E-02	3.70E-02	1.22E-02	1.70E-02	---	4.99E-03	4.79E-02
Ti	3.37E+00	2.01E+00	1.46E+00	3.18E+00	5.47E+00	7.07E+00	1.06E+01	8.10E-02	3.20E+00	3.23E+01
V	5.78E-01	2.25E-01	3.26E-01	6.46E-01	7.61E-01	2.13E+00	1.59E+00	1.85E-01	1.73E+00	5.47E+00
Cr	1.22E+00	8.71E-01	2.72E-01	1.42E+00	1.98E+00	4.38E-01	1.11E+00	---	1.46E-01	2.82E+00
Mn	1.01E+00	3.12E-01	6.62E-01	1.10E+00	1.27E+00	2.55E+00	1.45E+00	---	3.03E+00	4.43E+00
Fe	4.48E+01	1.90E+01	2.46E+01	4.72E+01	6.24E+01	1.13E+02	7.12E+01	---	1.10E+02	2.31E+02
Co	2.30E-02	1.12E-02	1.08E-02	2.54E-02	3.27E-02	4.63E-02	2.32E-02	---	4.63E-02	7.13E-02
Ni	6.82E-01	3.78E-01	3.95E-01	5.41E-01	1.11E+00	1.15E+00	1.53E+00	---	6.77E-01	4.80E+00
Cu	3.93E+00	6.88E-01	3.15E+00	4.21E+00	4.43E+00	6.04E+00	7.55E+00	3.72E-03	4.32E+00	2.42E+01
Zn	8.80E+00	6.58E+00	1.34E+00	1.13E+01	1.38E+01	2.63E+01	2.03E+01	7.95E+00	2.16E+01	7.19E+01
As	4.88E-01	7.50E-02	4.34E-01	4.57E-01	5.73E-01	7.87E-01	4.35E-01	6.69E-03	9.44E-01	1.21E+00
Se	9.93E-01	4.75E-02	9.54E-01	9.78E-01	1.05E+00	1.99E+00	1.14E+00	2.02E-01	2.26E+00	3.16E+00
Sr	1.07E+00	7.98E-01	2.43E-01	1.14E+00	1.84E+00	1.17E+00	1.88E+00	6.13E-02	4.80E-01	5.77E+00
Ag	3.29E-02	1.54E-02	1.55E-02	3.86E-02	4.47E-02	3.78E-02	7.39E-02	7.88E-03	1.14E-02	2.21E-01
Cd	3.24E-01	2.10E-01	8.33E-02	4.15E-01	4.73E-01	4.20E-01	3.33E-01	4.64E-03	3.61E-01	8.38E-01
Sn	3.57E+00	4.56E-01	3.05E+00	3.75E+00	3.92E+00	1.45E+00	8.84E-01	5.00E-03	1.64E+00	2.39E+00
Sb	3.10E-01	9.89E-02	2.03E-01	3.29E-01	3.98E-01	1.09E+00	5.54E-01	9.40E-03	1.30E+00	1.59E+00
Cs	2.38E-03	1.43E-03	7.29E-04	3.06E-03	3.35E-03	1.37E-02	1.19E-02	---	1.12E-02	3.58E-02
La	1.80E-02	6.40E-03	1.31E-02	1.57E-02	2.52E-02	9.66E-02	6.16E-02	9.72E-03	9.14E-02	1.88E-01
Pt	4.50E+00	1.43E+00	2.88E+00	5.04E+00	5.58E+00	5.31E+00	3.62E+00	1.33E-01	4.90E+00	1.11E+01
Tl	1.90E-02	8.85E-03	8.77E-03	2.37E-02	2.44E-02	2.38E-02	1.43E-02	1.16E-03	3.09E-02	3.50E-02
Pb	4.09E+00	1.35E+00	2.55E+00	4.59E+00	5.11E+00	5.49E+00	3.48E+00	1.72E-01	5.38E+00	1.01E+01
PM ₁₀ µg/m ³	1.08E+01	1.58E+00	9.65E+00	1.08E+01	1.19E+01	2.51E+01	6.63E+00	1.53E+01	2.67E+01	3.44E+01
PM _{2.5} µg/m ³	7.42E+00	1.12E+00	6.26E+00	7.50E+00	8.51E+00	1.16E+01	4.78E+00	4.31E+00	1.28E+01	1.61E+01
EC-r µg/m ³	9.37E-01	3.02E-01	5.90E-01	1.08E+00	1.14E+00	1.63E+00	8.81E-01	6.40E-01	1.58E+00	3.12E+00
Wind Type/Session/N	Lake	Summer 2005	N=27			Lake	Winter 06	N=12		
Be	2.56E-03	1.62E-03	7.42E-04	1.93E-03	6.52E-03	3.22E-03	2.05E-03	4.22E-04	3.34E-03	5.75E-03
Na	2.48E+01	1.48E+01	3.36E+00	2.29E+01	5.71E+01	5.70E+01	3.72E+01	9.34E+00	4.62E+01	1.45E+02
Mg	1.35E+01	4.62E+00	4.62E+00	1.29E+01	2.55E+01	8.21E+00	4.95E+00	3.23E+00	7.56E+00	2.04E+01
Al	2.76E+01	1.88E+01	---	2.58E+01	7.01E+01	2.15E+01	2.04E+01	3.42E+00	1.14E+01	6.83E+01
S	2.13E+03	1.65E+03	5.66E+02	1.74E+03	7.46E+03	1.82E+03	1.00E+03	7.26E+02	1.41E+03	3.99E+03
K	4.04E+01	1.87E+01	1.91E+01	3.77E+01	1.04E+02	3.73E+01	2.01E+01	1.32E+01	3.74E+01	7.80E+01
Ca	4.80E+01	3.32E+01	---	4.39E+01	1.26E+02	2.99E+01	1.64E+01	1.18E+01	2.35E+01	5.67E+01
Sc	7.12E-03	1.02E-02	---	9.23E-03	2.19E-02	2.57E-03	3.01E-03	---	2.09E-03	1.05E-02
Ti	3.33E+00	1.59E+00	1.11E+00	2.95E+00	6.79E+00	2.20E+00	1.35E+00	3.15E-01	2.22E+00	4.19E+00
V	9.57E-01	6.60E-01	1.19E-01	7.22E-01	2.36E+00	1.13E+00	7.13E-01	2.65E-01	1.07E+00	2.26E+00

Table 17. Descriptive Statistics 12-Hour Weekday Elements (ng/m³), PM₁₀ (µg/m³), PM_{2.5} (µg/m³), and EC-r (µg/m³) Samples (7:00A.M.-7:00P.M.) by Wind Type and Sampling Session^a

	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
Cr	6.74E-01	1.53E+00	---	3.36E-01	8.15E+00	---	4.54E-01	---	2.13E-02	6.94E-01
Mn	2.21E+00	5.96E-01	1.28E+00	2.12E+00	3.91E+00	1.96E+00	8.53E-01	6.52E-01	1.94E+00	3.14E+00
Fe	6.72E+01	2.93E+01	1.92E+01	6.38E+01	1.22E+02	6.10E+01	3.60E+01	1.09E+01	5.55E+01	1.19E+02
Co	3.32E-02	1.44E-02	1.27E-02	3.01E-02	6.65E-02	3.60E-02	1.90E-02	4.76E-03	3.71E-02	7.12E-02
Ni	4.04E-01	2.50E-01	1.34E-01	3.19E-01	1.15E+00	4.91E-01	2.82E-01	1.93E-02	5.15E-01	9.04E-01
Cu	3.83E+00	5.22E+00	4.90E-01	2.06E+00	2.62E+01	2.06E+00	1.01E+00	6.89E-01	1.75E+00	3.71E+00
Zn	1.90E+01	2.03E+01	01	1.38E+01	9.00E+01	1.32E+01	6.13E+00	3.58E+00	1.34E+01	2.32E+01
As	5.64E-01	2.96E-01	2.43E-01	4.77E-01	1.52E+00	6.07E-01	2.78E-01	2.34E-01	6.17E-01	1.07E+00
Se	1.48E+00	9.99E-01	4.31E-01	1.23E+00	4.65E+00	1.66E+00	9.34E-01	4.71E-01	1.69E+00	3.20E+00
Sr	3.40E-01	1.83E-01	2.24E-02	3.18E-01	7.46E-01	3.58E-01	1.60E-01	1.39E-01	3.37E-01	6.38E-01
Ag	1.19E-02	1.62E-02	2.57E-03	7.66E-03	8.70E-02	9.14E-03	6.62E-03	---	8.25E-03	2.27E-02
Cd	1.36E-01	1.57E-01	2.65E-02	8.56E-02	7.60E-01	1.20E-01	5.69E-02	3.73E-02	1.24E-01	2.17E-01
Sn	8.68E-01	3.75E-01	3.57E-01	8.37E-01	1.78E+00	9.11E-01	4.26E-01	2.59E-01	9.28E-01	1.63E+00
Sb	5.65E-01	2.83E-01	1.24E-01	5.05E-01	1.40E+00	6.01E-01	2.83E-01	1.22E-01	6.04E-01	1.04E+00
Cs	1.09E-02	5.99E-03	2.00E-03	1.04E-02	2.26E-02	1.18E-02	6.07E-03	4.41E-03	1.02E-02	2.23E-02
La	8.53E-02	3.87E-02	2.65E-03	9.20E-02	1.70E-01	6.11E-02	3.31E-02	2.30E-02	5.71E-02	1.39E-01
Pt	9.90E+00	3.29E+01	1.66E+00	3.35E+00	1.74E+02	2.92E+00	1.44E+00	9.34E-01	3.17E+00	5.02E+00
Tl	1.22E-02	6.38E-03	3.48E-03	1.13E-02	2.67E-02	1.70E-02	9.78E-03	4.16E-03	1.91E-02	2.81E-02
Pb	9.16E+00	2.98E+01	1.57E+00	3.18E+00	1.58E+02	3.16E+00	1.55E+00	1.02E+00	3.41E+00	5.33E+00
PM ₁₀ µg/m ³	2.78E+01	1.65E+01	9.47E+00	2.31E+01	8.45E+01	1.82E+01	7.71E+00	8.33E+00	1.85E+01	3.15E+01
PM _{2.5} µg/m ³	2.07E+01	1.35E+01	7.54E+00	1.60E+01	6.15E+01	1.20E+01	4.83E+00	6.10E+00	1.04E+01	2.10E+01
EC-r µg/m ³	1.32E+00	9.01E-01	3.00E-01	8.80E-01	2.91E+00	1.12E+00	8.45E-01	1.10E-01	7.70E-01	2.83E+00
Wind Type/Session/N	City/other	Winter 2005	N=10							
Be	2.58E-03	2.47E-03	2.59E-04	1.84E-03	7.75E-03					
Na	1.11E+02	5.16E+01	6.50E+01	8.54E+01	2.02E+02					
Mg	1.53E+01	7.84E+00	8.77E+00	1.19E+01	2.90E+01					
Al	3.33E+01	4.50E+01	---	1.84E+01	1.50E+02					
S	1.08E+03	3.89E+02	5.86E+02	1.03E+03	1.65E+03					
K	4.18E+01	7.65E+00	2.93E+01	4.35E+01	5.52E+01					
Ca	3.38E+01	1.90E+01	1.62E+01	2.77E+01	7.96E+01					
Sc	2.89E-03	8.54E-04	1.64E-03	2.80E-03	4.37E-03					
Ti	1.48E+00	4.59E-01	1.01E+00	1.35E+00	2.29E+00					
V	1.59E+00	1.61E+00	5.21E-01	8.02E-01	5.67E+00					
Cr	1.12E+00	2.06E+00	1.36E-01	4.01E-01	6.82E+00					
Mn	1.58E+00	4.08E-01	8.86E-01	1.71E+00	2.09E+00					
Fe	5.37E+01	2.11E+01	2.39E+01	5.50E+01	8.98E+01					
Co	2.61E-02	1.39E-02	1.09E-02	2.01E-02	5.62E-02					
Ni	1.21E+00	9.05E-01	2.99E-01	9.14E-01	2.75E+00					
Cu	2.83E+00	3.90E+00	9.84E-02	1.61E+00	1.32E+01					
Zn	2.73E+01	2.01E+01	---	2.49E+01	5.98E+01					
As	8.18E-01	3.13E-01	4.54E-01	7.84E-01	1.36E+00					
Se	8.42E-01	4.69E-01	2.56E-01	8.40E-01	1.57E+00					
Sr	5.57E+00	1.59E+00	4.12E+00	4.97E+00	8.84E+00					
Ag	2.73E-02	3.93E-02	4.18E-03	1.86E-02	1.37E-01					
Cd	1.59E-02	9.38E-03	5.72E-03	1.11E-02	2.76E-02					

Table 17. Descriptive Statistics 12-Hour Weekday Elements (ng/m³), PM₁₀ (µg/m³), PM_{2.5} (µg/m³), and EC-r (µg/m³) Samples (7:00A.M.-7:00P.M.) by Wind Type and Sampling Session^a

	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
Sn	1.12E+00	7.69E-01	2.16E-01	1.12E+00	2.79E+00					
Sb	4.44E-01	2.27E-01	1.21E-01	4.04E-01	7.34E-01					
Cs	1.03E-02	3.98E-03	5.62E-03	1.16E-02	1.54E-02					
La	3.42E-02	1.20E-02	1.98E-02	3.18E-02	4.80E-02					
Pt	4.65E-04	5.06E-04	1.20E-04	3.50E-04	1.87E-03					
Tl	3.51E+00	1.85E+00	1.54E+00	2.89E+00	6.83E+00					
Pb	1.05E+01	2.29E+00	6.48E+00	1.15E+01	1.18E+01					
PM ₁₀ µg/m ³	9.25E+00	2.38E+00	5.60E+00	1.03E+01	1.20E+01					
PM _{2.5} µg/m ³	1.41E+00	7.54E-01	4.73E-01	1.58E+00	2.48E+00					
EC-r µg/m ³										

^aA dash (---) denotes a value that was equal to zero or negative number after blank correction.

Table 18. Descriptive Statistics 12-Hour Weekday Elements (ng/m³), PM₁₀ (µg/m³), PM_{2.5} (µg/m³), and EC-r (µg/m³) Samples (7:00A.M.-7:00P.M.) by Site and Wind Type. (*Denotes number of samples for city/other wind type only)^a

Site\Wind Type\N	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
	Chapel	City/other	N=8	Chapel	Lake	N=15				
Be	3.64E-03	3.23E-03	---	2.65E-03	9.42E-03	2.77E-03	1.65E-03	1.01E-03	2.19E-03	5.75E-03
Na	8.59E+01	5.72E+01	1.87E+01	7.65E+01	2.02E+02	4.46E+01	3.70E+01	3.36E+00	3.57E+01	1.45E+02
Mg	1.64E+01	1.33E+01	1.69E-01	1.23E+01	4.25E+01	1.39E+01	5.84E+00	4.36E+00	1.35E+01	2.55E+01
Al	6.01E+01	1.07E+02	---	2.51E+01	3.23E+02	2.68E+01	1.95E+01	---	2.75E+01	6.96E+01
S	1.08E+03	6.56E+02	5.60E+01	1.25E+03	1.75E+03	1.77E+03	8.94E+02	5.82E+02	1.70E+03	3.99E+03
K	4.00E+01	2.39E+01	6.44E-01	4.42E+01	7.31E+01	3.85E+01	1.69E+01	1.88E+01	3.63E+01	7.80E+01
Ca	1.19E+02	2.02E+02	2.49E+00	5.11E+01	6.11E+02	5.64E+01	3.12E+01	1.03E+01	5.61E+01	1.26E+02
Sc	1.04E-02	1.60E-02	---	4.47E-03	4.79E-02	5.08E-03	6.41E-03	---	4.32E-03	1.49E-02
Ti	5.81E+00	1.07E+01	8.10E-02	2.52E+00	3.23E+01	3.27E+00	1.70E+00	6.17E-01	2.98E+00	6.79E+00
V	1.55E+00	1.69E+00	1.85E-01	9.88E-01	5.47E+00	1.00E+00	6.44E-01	2.06E-01	8.30E-01	1.97E+00
Cr	1.47E+00	2.47E+00	---	5.22E-01	6.82E+00	3.04E-01	4.15E-01	---	2.97E-01	1.12E+00
Mn	1.93E+00	1.12E+00	---	1.91E+00	3.38E+00	2.45E+00	7.18E-01	1.14E+00	2.39E+00	3.91E+00
Fe	8.40E+01	5.31E+01	---	8.09E+01	1.86E+02	9.11E+01	2.85E+01	2.29E+01	9.80E+01	1.22E+02
Co	3.49E-02	2.32E-02	---	3.18E-02	6.82E-02	3.91E-02	1.46E-02	1.21E-02	3.92E-02	6.65E-02
Ni	1.27E+00	1.61E+00	---	6.25E-01	4.80E+00	4.58E-01	2.34E-01	1.34E-01	4.34E-01	8.03E-01
Cu	6.69E+00	8.18E+00	3.72E-03	4.28E+00	2.42E+01	5.18E+00	6.47E+00	1.05E+00	3.47E+00	2.62E+01
Zn	2.40E+01	2.34E+01	---	1.34E+01	7.19E+01	1.56E+01	6.32E+00	6.02E+00	1.62E+01	2.34E+01
As	7.11E-01	3.68E-01	6.69E-03	8.26E-01	1.06E+00	5.48E-01	2.49E-01	2.76E-01	4.72E-01	1.07E+00
Se	1.38E+00	1.05E+00	2.02E-01	1.10E+00	3.16E+00	1.43E+00	8.54E-01	4.42E-01	1.27E+00	3.20E+00
Sr	3.28E+00	3.17E+00	6.13E-02	2.86E+00	8.84E+00	4.21E-01	1.60E-01	1.32E-01	4.16E-01	7.46E-01
Ag	1.60E-02	1.28E-02	4.18E-03	1.28E-02	4.47E-02	1.10E-02	8.19E-03	2.54E-03	9.03E-03	3.21E-02
Cd	2.50E-01	2.99E-01	4.64E-03	1.22E-01	7.94E-01	1.00E-01	5.52E-02	2.65E-02	8.70E-02	2.17E-01
Sn	1.51E+00	1.20E+00	5.00E-03	1.47E+00	3.92E+00	9.40E-01	3.40E-01	5.63E-01	8.39E-01	1.63E+00
Sb	7.55E-01	5.85E-01	9.40E-03	5.66E-01	1.59E+00	7.99E-01	2.60E-01	2.82E-01	7.90E-01	1.40E+00
Cs	1.01E-02	7.87E-03	---	1.07E-02	2.55E-02	1.19E-02	6.46E-03	2.11E-03	1.03E-02	2.23E-02
La	6.50E-02	6.10E-02	9.72E-03	3.65E-02	1.88E-01	7.88E-02	3.63E-02	2.30E-02	7.54E-02	1.39E-01
Pt (N=3)*	2.91E-04	1.54E-04	1.20E-04	3.36E-04	4.18E-04					
Tl (N=5)*	2.36E-02	1.35E-02	1.16E-03	2.44E-02	3.50E-02	1.38E-02	8.18E-03	3.48E-03	1.20E-02	2.81E-02
Pb	4.50E+00	3.23E+00	1.72E-01	4.72E+00	1.01E+01	3.55E+00	1.91E+00	1.60E+00	2.92E+00	8.51E+00
PM ₁₀ µg/m ³	1.99E+01	9.70E+00	1.11E+01	1.53E+01	3.44E+01	2.42E+01	7.19E+00	9.97E+00	2.34E+01	3.74E+01
PM _{2.5} µg/m ³	1.09E+01	4.21E+00	4.40E+00	1.14E+01	1.61E+01	1.62E+01	6.05E+00	7.81E+00	1.54E+01	2.82E+01
EC-r µg/m ³	1.87E+00	8.59E-01	7.40E-01	1.88E+00	3.12E+00	2.18E+00	5.98E-01	7.90E-01	2.32E+00	2.91E+00
Site\Wind Type\N	GLC	City/other	N=8	GLC	Lake	N=15				
Be	3.71E-03	3.34E-03	2.59E-04	3.15E-03	8.74E-03	2.55E-03	1.81E-03	4.22E-04	1.69E-03	5.95E-03
Na	9.95E+01	4.48E+01	4.34E+01	9.44E+01	1.87E+02	2.96E+01	2.25E+01	3.70E+00	2.43E+01	8.60E+01
Mg	1.99E+01	1.35E+01	9.10E+00	1.32E+01	4.76E+01	8.65E+00	3.78E+00	3.23E+00	8.86E+00	1.48E+01
Al	4.80E+01	5.58E+01	---	2.82E+01	1.44E+02	1.91E+01	1.78E+01	3.42E+00	1.19E+01	6.83E+01
S	1.17E+03	6.37E+02	3.59E+02	1.29E+03	1.97E+03	1.87E+03	1.18E+03	5.66E+02	1.41E+03	5.23E+03
K	4.71E+01	2.62E+01	2.04E+01	4.42E+01	9.71E+01	3.39E+01	1.23E+01	1.32E+01	3.54E+01	6.21E+01
Ca	8.78E+01	7.12E+01	1.62E+01	6.54E+01	2.33E+02	2.53E+01	2.21E+01	3.99E+00	1.86E+01	9.59E+01
Sc	1.05E-02	1.39E-02	1.85E-03	3.63E-03	3.70E-02	3.70E-03	8.36E-03	---	2.82E-03	1.87E-02

Table 18. Descriptive Statistics 12-Hour Weekday Elements (ng/m³), PM₁₀ (µg/m³), PM_{2.5} (µg/m³), and EC-r (µg/m³) Samples (7:00A.M.-7:00P.M.) by Site and Wind Type. (*Denotes number of samples for city/other wind type only)^a

	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
Ti	3.44E+00	2.99E+00	1.09E+00	2.38E+00	9.74E+00	2.19E+00	1.29E+00	3.15E-01	2.09E+00	4.54E+00
V	1.63E+00	9.54E-01	5.30E-01	1.45E+00	3.07E+00	9.84E-01	7.33E-01	1.19E-01	8.39E-01	2.36E+00
Cr	3.16E-01	3.05E-01	---	2.10E-01	8.07E-01	1.23E-01	4.99E-01	---	1.14E-01	1.43E+00
Mn	2.08E+00	1.28E+00	9.69E-01	1.54E+00	4.43E+00	1.74E+00	6.33E-01	6.52E-01	1.72E+00	3.00E+00
Fe	8.88E+01	6.52E+01	2.39E+01	6.45E+01	2.31E+02	4.02E+01	1.68E+01	1.09E+01	3.61E+01	6.39E+01
Co	3.58E-02	1.89E-02	1.09E-02	3.24E-02	7.13E-02	2.71E-02	1.68E-02	4.76E-03	2.25E-02	7.12E-02
Ni	1.03E+00	7.67E-01	3.82E-01	8.88E-01	2.75E+00	4.22E-01	2.76E-01	1.93E-02	4.53E-01	9.19E-01
Cu	2.56E+00	1.81E+00	9.84E-02	2.48E+00	4.89E+00	1.31E+00	5.21E-01	4.90E-01	1.14E+00	2.45E+00
Zn	2.18E+01	1.79E+01	1.34E+00	1.80E+01	5.98E+01	1.55E+01	2.13E+01	---	1.18E+01	9.00E+01
As	8.40E-01	3.85E-01	2.20E-01	8.97E-01	1.36E+00	5.38E-01	2.20E-01	2.34E-01	4.87E-01	9.58E-01
Se	1.47E+00	1.06E+00	2.54E-01	1.26E+00	2.93E+00	1.42E+00	7.92E-01	4.31E-01	1.37E+00	2.74E+00
Sr	2.43E+00	2.29E+00	3.11E-01	1.46E+00	5.86E+00	2.70E-01	1.74E-01	2.24E-02	2.24E-01	6.38E-01
Ag	4.29E-02	7.25E-02	7.57E-03	1.63E-02	2.21E-01	1.19E-02	2.12E-02	---	6.94E-03	8.70E-02
Cd	2.91E-01	3.34E-01	5.72E-03	1.56E-01	8.38E-01	1.04E-01	4.00E-02	3.73E-02	1.05E-01	1.67E-01
Sn	1.56E+00	1.19E+00	2.16E-01	1.38E+00	3.75E+00	7.79E-01	3.75E-01	2.59E-01	8.37E-01	1.67E+00
Sb	7.62E-01	5.12E-01	1.21E-01	6.22E-01	1.54E+00	3.98E-01	1.82E-01	1.22E-01	4.12E-01	7.27E-01
Cs	1.23E-02	1.07E-02	2.65E-03	1.05E-02	3.58E-02	1.01E-02	5.35E-03	2.00E-03	8.69E-03	2.06E-02
La	5.98E-02	5.36E-02	1.57E-02	4.52E-02	1.76E-01	6.44E-02	3.25E-02	2.65E-03	6.28E-02	1.07E-01
Pt (N=3)*	2.78E-04	1.27E-04	1.40E-04	3.03E-04	3.90E-04					
Tl (N=5)*	2.41E-02	1.33E-02	1.31E-03	2.92E-02	3.36E-02	1.33E-02	8.12E-03	3.87E-03	1.13E-02	2.69E-02
Pb	4.45E+00	2.67E+00	1.56E+00	4.51E+00	9.82E+00	3.08E+00	1.25E+00	1.02E+00	3.02E+00	5.22E+00
PM ₁₀ µg/m ³	2.16E+01	7.51E+00	1.18E+01	2.01E+01	3.11E+01	1.87E+01	1.13E+01	8.33E+00	1.49E+01	4.83E+01
PM _{2.5} µg/m ³	1.01E+01	3.61E+00	4.31E+00	1.08E+01	1.52E+01	1.54E+01	9.75E+00	6.10E+00	1.42E+01	4.39E+01
EC-r µg/m ³	1.16E+00	4.46E-01	5.43E-01	1.14E+00	1.60E+00	4.76E-01	1.58E-01	1.10E-01	4.80E-01	7.50E-01
Site\Wind										
Type\N	School	City/other	N=5			School	Lake	N=9		
Be	1.88E-03	9.47E-04	5.57E-04	1.86E-03	3.23E-03	2.68E-03	1.62E-03	7.42E-04	2.17E-03	5.88E-03
Na	1.02E+02	6.87E+01	1.10E+01	9.45E+01	1.76E+02	2.83E+01	1.73E+01	4.82E+00	2.34E+01	5.71E+01
Mg	1.34E+01	8.34E+00	6.62E+00	1.12E+01	2.77E+01	1.30E+01	3.66E+00	7.52E+00	1.33E+01	1.75E+01
Al	5.25E+01	5.95E+01	8.30E+00	1.78E+01	1.50E+02	3.07E+01	1.72E+01	1.37E+01	2.58E+01	7.01E+01
S	9.55E+02	5.07E+02	3.09E+02	1.01E+03	1.65E+03	2.28E+03	2.07E+03	5.99E+02	1.70E+03	7.46E+03
K	3.97E+01	1.42E+01	1.68E+01	4.12E+01	5.52E+01	4.95E+01	2.82E+01	1.94E+01	3.99E+01	1.04E+02
Ca	2.92E+01	6.73E+00	2.06E+01	3.01E+01	3.85E+01	4.54E+01	2.86E+01	---	4.39E+01	9.79E+01
Sc	3.19E-03	1.04E-03	1.64E-03	3.25E-03	4.37E-03	8.47E-03	1.17E-02	---	1.05E-02	2.19E-02
Ti	1.49E+00	4.76E-01	1.01E+00	1.37E+00	2.29E+00	3.66E+00	1.51E+00	1.80E+00	3.11E+00	6.11E+00
V	1.84E+00	2.23E+00	3.26E-01	7.91E-01	5.67E+00	1.08E+00	7.22E-01	2.74E-01	7.70E-01	2.12E+00
Cr	8.12E-01	6.97E-01	2.18E-01	4.89E-01	1.70E+00	1.23E+00	2.60E+00	1.51E-01	3.47E-01	8.15E+00
Mn	1.43E+00	6.12E-01	6.62E-01	1.70E+00	2.02E+00	2.21E+00	4.23E-01	1.58E+00	2.05E+00	2.87E+00
Fe	3.85E+01	1.37E+01	2.46E+01	3.92E+01	5.98E+01	6.49E+01	2.03E+01	4.06E+01	6.05E+01	1.01E+02
Co	2.70E-02	1.88E-02	1.08E-02	1.68E-02	5.62E-02	3.65E-02	1.29E-02	2.14E-02	3.84E-02	5.26E-02
Ni	9.70E-01	7.17E-01	4.89E-01	5.89E-01	2.19E+00	4.18E-01	3.07E-01	1.90E-01	2.81E-01	1.15E+00
Cu	2.87E+00	1.72E+00	8.29E-01	2.62E+00	4.98E+00	3.69E+00	3.28E+00	1.09E+00	2.06E+00	1.11E+01
Zn	2.88E+01	1.76E+01	1.13E+01	3.20E+01	5.41E+01	2.30E+01	2.27E+01	4.44E+00	1.38E+01	7.30E+01
As	7.06E-01	3.19E-01	4.34E-01	6.68E-01	1.22E+00	6.14E-01	3.82E-01	2.43E-01	4.77E-01	1.52E+00
Se	9.12E-01	4.16E-01	2.92E-01	9.27E-01	1.45E+00	1.66E+00	1.27E+00	6.73E-01	1.26E+00	4.65E+00
Sr	4.51E+00	2.78E+00	2.43E-01	4.52E+00	7.94E+00	3.30E-01	1.55E-01	1.85E-01	2.83E-01	6.71E-01

Table 18. Descriptive Statistics 12-Hour Weekday Elements (ng/m³), PM₁₀ (μg/m³), PM_{2.5} (μg/m³), and EC-r (μg/m³) Samples (7:00A.M.-7:00P.M.) by Site and Wind Type. (*Denotes number of samples for city/other wind type only)^a

	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
Ag	4.07E-02	5.43E-02	6.58E-03	2.16E-02	1.37E-01	9.35E-03	3.52E-03	3.09E-03	9.22E-03	1.46E-02
Cd	3.17E-02	3.01E-02	9.08E-03	2.76E-02	8.33E-02	2.16E-01	2.55E-01	5.67E-02	1.10E-01	7.60E-01
Sn	1.79E+00	1.12E+00	3.47E-01	1.48E+00	3.05E+00	8.61E-01	3.85E-01	5.14E-01	9.00E-01	1.74E+00
Sb	3.98E-01	2.47E-01	1.73E-01	2.89E-01	7.06E-01	4.82E-01	1.66E-01	2.43E-01	4.36E-01	7.85E-01
Cs	8.11E-03	5.71E-03	7.29E-04	6.41E-03	1.40E-02	1.15E-02	6.69E-03	2.07E-03	1.04E-02	2.26E-02
La	3.41E-02	1.48E-02	1.31E-02	3.55E-02	4.79E-02	9.41E-02	4.59E-02	3.11E-02	9.20E-02	1.70E-01
Pt (N=3)*	7.35E-04	7.62E-04	2.82E-04	3.92E-04	1.87E-03					
TI (N=1)*	8.77E-03		8.77E-03	8.77E-03	8.77E-03	1.32E-02	7.00E-03	3.62E-03	1.24E-02	2.67E-02
Pb	3.93E+00	1.79E+00	2.55E+00	3.05E+00	6.83E+00	2.05E+01	5.17E+01	2.15E+00	3.43E+00	1.58E+02
PM ₁₀ μg/m ³	9.32E+00	2.69E+00	6.48E+00	9.65E+00	1.18E+01	3.08E+01	2.25E+01	1.11E+01	2.31E+01	8.45E+01
PM _{2.5} μg/m ³	7.40E+00	2.57E+00	5.60E+00	6.26E+00	1.03E+01	2.09E+01	1.65E+01	7.54E+00	1.63E+01	6.15E+01
EC-r μg/m ³	8.93E-01	6.29E-01	4.73E-01	5.90E-01	1.62E+00	9.49E-01	2.06E-01	7.35E-01	8.80E-01	1.42E+00

^aA dash (---) denotes a value that was equal to zero or negative number after blank correction.

Table 19. Descriptive Statistics 12-Hour Weekday PAH Samples (7:00A.M.-7:00P.M.) by Wind Type and Sampling Session (ng/m³)^a

Wind Type/Session/N	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
	City/other	Summer 2005	N=3			City/other	Winter 2006	N=12		
Naphthalene	79.31	28.49	52.46	76.27	109.20	73.38	61.97	27.98	54.21	250.86
2-Methylnaphthalene	51.47	11.53	41.88	48.28	64.26	75.83	29.29	37.28	69.84	130.73
Azulene	0.48	0.39	0.03	0.67	0.75	0.33	0.27	0.09	0.21	0.97
1-Methylnaphthalene	20.38	4.18	17.93	18.00	25.21	29.17	11.36	14.83	27.27	52.05
Biphenyl	4.25	1.34	3.23	3.76	5.77	6.99	4.17	3.06	5.34	16.39
2,7-Dimethylnaphthalene	12.09	4.50	7.09	13.36	15.82	10.55	4.87	4.35	10.30	17.99
1,3-Dimethylnaphthalene	9.77	4.51	5.31	9.66	14.33	22.74	10.66	10.05	23.32	42.21
1,6-Dimethylnaphthalene	7.63	2.44	5.00	8.06	9.82	12.62	5.89	5.35	13.40	22.66
1,4-Dimethylnaphthalene	2.79	1.12	1.63	2.88	3.86	6.16	2.81	2.57	6.77	10.66
1,5-Dimethylnaphthalene	1.09	0.39	0.76	0.98	1.52	2.19	1.04	0.94	2.03	4.17
Acenaphylene	3.85	1.14	2.79	3.72	5.05	9.52	5.72	3.66	7.71	21.41
1,2-Dimethylnaphthalene	1.33	0.42	0.85	1.49	1.64	3.72	1.68	1.52	3.91	6.54
1,8-Dimethylnaphthalene	0.31	0.53	---	---	0.92	0.05	0.09	---	0.01	0.30
Acenaphthene	4.50	1.43	2.92	4.87	5.71	4.16	2.55	1.93	3.62	10.19
2,3,5-Trimethylnaphthalene	3.33	1.58	1.57	3.82	4.61	2.78	1.82	1.07	2.50	6.99
Fluorene	8.47	1.82	6.38	9.31	9.71	4.69	1.48	2.30	4.87	6.88
1-Methylfluorene	1.04	0.43	0.77	0.82	1.54	0.61	0.40	0.08	0.57	1.26
Dibenzothiophene	1.75	1.04	0.83	1.55	2.88	0.12	0.12	0.00	0.12	0.33
Phenanthrene	39.93	27.28	16.00	34.16	69.63	8.63	4.08	3.46	8.96	15.14
Anthracene	2.00	1.63	0.59	1.62	3.79	1.11	1.60	0.12	0.78	6.10
2-Methyldibenzothiophene	0.51	0.15	0.34	0.55	0.64	0.29	0.14	0.08	0.29	0.49
4-Methyldibenzothiophene	0.31	0.11	0.21	0.30	0.42	0.17	0.07	0.06	0.17	0.27
2-Methylphenanthrene	2.19	0.80	1.33	2.35	2.90	0.84	0.41	0.27	0.85	1.43
2-Methylanthracene	3.20	1.40	1.63	3.62	4.34	1.31	0.64	0.42	1.33	2.23
4,5-Methylenphenanthrene	0.45	0.24	0.18	0.54	0.64	0.02	0.02	0.001	0.02	0.06
1-Methylanthracene	1.19	0.48	0.64	1.40	1.54	0.50	0.25	0.16	0.50	0.84
1-Methylphenanthrene	1.07	0.43	0.60	1.16	1.44	0.41	0.19	0.14	0.41	0.69
9-Methylanthracene	0.01	0.02	---	---	0.03	0.04	0.09	0.00	0.00	0.25
9,10-Dimethylanthracene	0.23	0.08	0.14	0.27	0.27	0.10	0.04	0.04	0.09	0.16
Fluoranthene	13.38	9.44	7.04	8.88	24.23	1.51	0.53	0.85	1.35	2.18
Pyrene	5.97	3.44	3.95	4.02	9.95	1.20	0.45	0.73	1.06	1.91
3,6-Dimethylphenanthrene	---	---	---	---	---	---	---	---	---	---
Benzo-a-fluorene	0.08	0.03	0.06	0.07	0.12	0.07	0.02	0.04	0.07	0.09
Retene	0.07	0.02	0.05	0.07	0.09	0.06	0.02	0.04	0.05	0.08
Benzo-b-fluorene	0.09	0.03	0.07	0.07	0.12	0.08	0.02	0.05	0.08	0.11
Cyclopenta-c,d-pyrene	0.04	0.01	0.03	0.03	0.05	0.21	0.10	0.11	0.17	0.43
Benz-a-anthracene	0.09	0.02	0.07	0.09	0.10	0.18	0.05	0.13	0.17	0.29
Chrysene+Triphenylene	0.19	0.08	0.13	0.17	0.28	0.25	0.04	0.19	0.24	0.33
Naphacene	0.003	0.01	---	---	0.01	0.01	0.01	---	0.00	0.05
4-Methylchrysene	0.003	0.01	---	---	0.01	0.01	0.004	0.01	0.01	0.02
Benzo-b-fluoranthene	0.16	0.04	0.12	0.17	0.20	0.09	0.02	0.05	0.09	0.12
Benzo-k-fluoranthene	0.04	0.05	---	0.04	0.09	0.03	0.01	0.01	0.03	0.03
Dimethylbenz-a-anthracene	0.003	0.01	---	---	0.01	0.001	0.001	0.001	0.001	0.003

Table 19. Descriptive Statistics 12-Hour Weekday PAH Samples (7:00A.M.-7:00P.M.) by Wind Type and Sampling Session (ng/m³)^a

	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
Benzo-e-pyrene	0.11	0.01	0.10	0.12	0.12	0.04	0.03	0.01	0.02	0.10
Benzo-a-pyrene	0.11	0.03	0.09	0.11	0.14	0.05	0.02	0.02	0.05	0.09
Perylene	---	---	---	---	---	0.01	0.003	0.003	0.01	0.01
3-Methylchloanthrene	---	---	---	---	---	---	---	---	---	---
Indeno-1,2,3-c,d-pyrene	0.11	0.05	0.06	0.11	0.16	0.33	0.08	0.19	0.32	0.50
Dibenz-a,h+ac-anthracene	---	---	---	---	---	0.02	0.01	0.01	0.02	0.03
Benzo-g,h,i-perylene	0.21	0.07	0.17	0.18	0.29	0.30	0.08	0.18	0.28	0.47
Anthranthrene	---	---	---	---	---	0.04	0.02	0.02	0.04	0.09
Coronene	0.03	0.03	---	0.02	0.06	0.16	0.06	0.10	0.14	0.25
	Summer					Winter				
	Lake	2005	N=26			Lake	2006	N=17		
Naphthalene	66.51	55.01	---	52.13	246.87	29.99	14.20	13.01	29.88	59.14
2-Methylnaphthalene	40.96	19.72	12.20	42.08	74.13	47.02	26.46	13.30	42.88	110.59
Azulene	0.39	0.52	---	0.12	2.07	0.16	0.10	0.05	0.15	0.42
1-Methylnaphthalene	16.27	7.97	4.68	16.86	29.82	19.02	10.07	6.05	16.62	41.38
Biphenyl	3.92	2.14	0.70	4.11	8.01	5.95	4.73	2.19	4.79	21.97
2,7-Dimethylnaphthalene	8.00	4.98	1.14	7.40	17.98	6.84	4.36	2.50	5.67	20.19
1,3-Dimethylnaphthalene	6.36	4.26	1.13	5.47	15.49	15.20	9.84	5.88	12.64	44.45
1,6-Dimethylnaphthalene	5.32	3.56	0.18	4.30	11.20	8.85	5.73	3.72	7.71	26.52
1,4-Dimethylnaphthalene	1.97	1.15	0.41	1.90	4.34	4.43	2.92	1.74	3.71	13.38
1,5-Dimethylnaphthalene	1.00	0.81	0.04	0.86	3.15	1.57	1.09	0.51	1.16	4.99
Acenaphylene	1.70	0.97	0.18	1.85	4.24	6.90	9.02	0.75	4.71	39.51
1,2-Dimethylnaphthalene	0.91	0.66	---	0.71	2.15	2.63	1.75	1.00	2.07	7.92
1,8-Dimethylnaphthalene	0.16	0.41	---	---	1.60	0.04	0.11	---	0.001	0.47
Acenaphthene	9.93	8.89	0.87	8.45	37.38	2.70	1.99	0.92	1.92	8.15
2,3,5-Trimethylnaphthalene	2.49	1.58	0.28	2.19	5.77	1.80	0.89	0.69	1.54	3.79
Fluorene	22.45	15.29	1.70	20.60	73.81	3.44	1.09	1.92	3.28	5.32
1-Methylfluorene	1.52	0.81	0.10	1.73	2.88	0.48	0.34	0.04	0.41	1.40
Dibenzothiophene	4.64	3.93	0.43	3.50	13.39	0.10	0.14	---	0.08	0.44
Phenanthrene	91.76	86.04	7.26	54.20	316.55	8.33	3.60	2.88	7.64	14.79
Anthracene	6.35	6.76	0.38	3.89	27.59	0.60	0.28	0.17	0.63	1.08
2-Methyldibenzothiophene	0.95	0.55	0.17	0.81	2.49	0.28	0.11	0.14	0.25	0.58
4-Methyldibenzothiophene	0.65	0.43	0.14	0.56	1.72	0.16	0.06	0.08	0.15	0.29
2-Methylphenanthrene	4.09	3.07	0.80	3.12	13.78	0.73	0.31	0.28	0.69	1.50
2-Methylanthracene	5.75	4.27	1.17	4.69	17.15	1.17	0.50	0.44	1.09	2.41
4,5-Methylenphenanthrene	0.40	0.20	0.21	0.32	1.01	0.02	0.03	---	0.01	0.08
1-Methylanthracene	2.05	1.28	0.53	1.80	5.90	0.43	0.19	0.18	0.41	0.91
1-Methylphenanthrene	1.84	1.34	0.44	1.53	5.79	0.35	0.15	0.14	0.32	0.71
9-Methylanthracene	0.02	0.03	---	0.01	0.09	0.002	0.004	---	---	0.01
9,10-Dimethylanthracene	0.31	0.14	0.10	0.31	0.64	0.08	0.04	0.03	0.07	0.17
Fluoranthene	25.37	27.41	3.02	15.95	108.21	1.19	0.79	0.44	0.89	3.59
Pyrene	10.57	10.65	1.79	6.94	43.35	0.74	0.39	0.34	0.69	1.83
3,6-Dimethylphenanthrene	0.02	0.02	---	0.02	0.06	0.04	0.10	---	---	0.28
Benzo-a-fluorene	0.14	0.09	0.05	0.12	0.42	0.03	0.02	0.01	0.03	0.08
Retene	0.10	0.06	0.03	0.09	0.27	0.03	0.02	0.005	0.02	0.08
Benzo-b-fluorene	0.09	0.05	0.04	0.08	0.24	0.03	0.02	0.01	0.03	0.08

Table 19. Descriptive Statistics 12-Hour Weekday PAH Samples (7:00A.M.-7:00P.M.) by Wind Type and Sampling Session (ng/m³)^a

	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
Cyclopenta-c,d-pyrene	0.05	0.11	---	0.02	0.59	0.06	0.04	0.01	0.05	0.16
Benz-a-anthracene	0.05	0.04	---	0.05	0.15	0.07	0.05	0.01	0.06	0.19
Chrysene+Triphenylene	0.20	0.22	0.04	0.11	0.89	0.10	0.05	0.03	0.08	0.25
Naphacene	0.01	0.01	---	0.01	0.04	0.003	0.004	---	0.001	0.01
4-Methylchrysene	0.003	0.01	---	---	0.04	0.004	0.003	---	0.003	0.01
Benzo-b-fluoranthene	0.05	0.05	---	0.03	0.25	0.04	0.02	0.01	0.03	0.10
Benzo-k-fluoranthene	0.02	0.03	---	0.01	0.11	0.01	0.01	0.002	0.01	0.03
Dimethylbenz-a-anthracene	0.01	0.02	---	---	0.12	0.001	0.001	---	0.001	0.002
Benzo-e-pyrene	0.03	0.03	---	0.02	0.11	0.02	0.03	---	0.01	0.10
Benzo-a-pyrene	0.02	0.03	---	---	0.11	0.02	0.01	0.002	0.02	0.05
Perylene	0.004	0.01	---	---	0.03	0.002	0.002	0.0001	0.002	0.01
3-Methylchloanthrene	0.02	0.04	---	---	0.14	0.0001	0.0002	---	---	0.001
Indeno-1,2,3-c,d-pyrene	0.04	0.04	---	0.03	0.14	0.13	0.06	0.04	0.12	0.29
Dibenz-a,h+ac-anthracene	0.01	0.01	---	---	0.06	0.01	0.01	0.002	0.01	0.02
Benzo-g,h,i-perylene	0.05	0.03	---	0.05	0.10	0.11	0.05	0.04	0.10	0.22
Anthranthrene	0.003	0.01	---	---	0.04	0.02	0.01	0.003	0.02	0.03
Coronene	0.01	0.02	---	---	0.07	0.06	0.03	0.02	0.07	0.11
Wind Type/Session/N	City	Winter 2005	N=15							
Naphthalene	193.51	130.46	54.70	160.80	501.60					
2-Methylnaphthalene	100.68	72.90	18.20	81.90	239.40					
Azulene	0.20	0.28	---	---	0.90					
1-Methylnaphthalene	38.31	27.20	7.50	29.20	90.50					
Biphenyl	6.95	4.93	1.10	6.00	16.40					
2,7-Dimethylnaphthalene	18.66	16.02	1.50	14.00	50.90					
1,3-Dimethylnaphthalene	17.40	15.39	1.50	12.40	48.20					
1,6-Dimethylnaphthalene	10.14	8.97	0.70	7.20	28.60					
1,4-Dimethylnaphthalene	4.74	4.20	0.40	3.40	12.90					
1,5-Dimethylnaphthalene	2.04	1.88	0.10	1.30	5.70					
Acenaphylene	6.47	7.64	0.60	2.40	22.90					
1,2-Dimethylnaphthalene	2.82	2.52	0.20	2.10	7.70					
1,8-Dimethylnaphthalene	0.09	0.16	---	---	0.60					
Acenaphthene	4.63	3.32	0.60	3.70	10.60					
2,3,5-Trimethylnaphthalene	3.29	3.04	0.30	1.90	9.10					
Fluorene	11.61	9.79	1.20	7.20	27.80					
1-Methylfluorene	3.40	3.35	0.30	2.27	11.50					
Dibenzothiophene	2.67	2.84	0.20	1.50	10.00					
Phenanthrene	33.75	37.81	2.10	21.80	130.00					
Anthracene	3.40	4.51	0.10	1.83	15.10					
2-Methyldibenzothiophene	0.76	0.91	0.10	0.50	3.50					
4-Methyldibenzothiophene	0.47	0.56	0.00	0.30	2.10					
2-Methylphenanthrene	9.67	7.79	0.40	7.10	26.90					
2-Methylanthracene	2.14	2.25	0.20	1.50	7.40					
4,5-Methylenphenanthrene	0.81	0.88	0.10	0.60	3.00					
1-Methylanthracene	0.95	1.06	0.10	0.60	3.40					
1-Methylphenanthrene	0.70	0.74	0.10	0.50	2.40					

Table 19. Descriptive Statistics 12-Hour Weekday PAH Samples (7:00A.M.-7:00P.M.) by Wind Type and Sampling Session (ng/m³)^a

	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
9-Methylanthracene	0.04	0.15	0.00	0.00	0.60					
9,10-Dimethylanthracene	0.17	0.15	0.00	0.10	0.50					
Fluoranthene	1.78	1.38	0.50	1.30	4.70					
Pyrene	1.26	0.92	0.30	0.90	3.20					
3,6-Dimethylphenanthrene	0.01	0.03	---	---	0.10					
Benzo-a-fluorene	0.08	0.08	---	0.10	0.20					
Retene	0.13	0.06	---	0.10	0.20					
Benzo-b-fluorene	0.06	0.05	---	0.10	0.10					
Cyclopenta-c,d-pyrene	0.12	0.08	---	0.10	0.30					
Benz-a-anthracene	0.19	0.11	0.10	0.10	0.40					
Chrysene+Triphenylene	0.25	0.14	0.10	0.20	0.50					
Naphthacene	---	---	---	---	---					
4-Methylchrysene	---	---	---	---	---					
Benzo-b-fluoranthene	0.22	0.11	0.10	0.20	0.40					
Benzo-k-fluoranthene	0.18	0.10	0.10	0.10	0.40					
Dimethylbenz-a-anthracene	---	---	---	---	---					
Benzo-c-pyrene	0.19	0.11	0.10	0.10	0.40					
Benzo-a-pyrene	0.20	0.13	0.10	0.10	0.50					
Perylene	0.01	0.03	---	---	0.10					
3-Methylchloanthrene	---	---	---	---	---					
Indeno-1,2,3-c,d-pyrene	0.18	0.11	0.10	0.10	0.40					
Dibenz-a,h+ac-anthracene	---	---	---	---	---					
Benzo-g,h,i-perylene	0.23	0.17	0.10	0.10	0.50					
Anthranthrene	0.01	0.03	---	---	0.10					
Coronene	0.03	0.05	---	---	0.10					

^aA dash (---) denotes a value that was equal to zero or negative number after blank correction.

Table 20. Descriptive Statistics 12-Hour Weekday PAH Samples (7:00A.M.-7:00P.M.) by Site and Wind Type (ng/m³)^a

Site\Wind Type\N	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
	Chapel	City	N=10			Chapel	Lake	N=15		
Naphthalene	153.05	141.84	38.48	104.35	501.60	81.27	59.89	17.24	59.14	246.87
2-Methylnaphthalene	100.27	61.71	37.28	87.02	239.40	55.48	15.73	30.97	53.49	84.79
Azulene	0.33	0.32	---	0.26	0.90	0.62	0.54	0.12	0.42	2.07
1-Methylnaphthalene	38.88	23.58	14.83	32.32	90.50	22.67	6.27	13.78	22.20	35.86
Biphenyl	8.70	4.75	2.80	9.01	16.40	6.35	4.45	4.04	5.38	21.97
2,7-Dimethylnaphthalene	17.72	12.93	5.41	14.75	49.20	11.52	4.52	3.38	11.38	20.19
1,3-Dimethylnaphthalene	23.16	14.72	5.00	22.45	48.20	14.30	9.43	6.45	10.79	44.45
1,6-Dimethylnaphthalene	13.49	7.89	2.80	13.55	27.20	10.25	4.91	4.91	9.61	26.52
1,4-Dimethylnaphthalene	6.19	3.87	1.20	6.00	12.90	4.14	2.78	2.19	3.24	13.38
1,5-Dimethylnaphthalene	2.50	1.59	0.50	2.65	5.70	1.94	1.05	0.92	1.81	4.99
Acenaphylene	9.80	7.27	0.70	10.51	22.90	5.67	9.47	1.66	2.64	39.51
1,2-Dimethylnaphthalene	3.71	2.33	0.70	3.55	7.70	2.29	1.76	---	2.03	7.92
1,8-Dimethylnaphthalene	0.06	0.10	---	0.01	0.30	0.09	0.26	---	---	0.92
Acenaphthene	5.07	2.98	1.10	4.35	10.19	5.16	3.38	1.66	4.57	11.34
2,3,5-Trimethylnaphthalene	3.24	2.48	0.50	3.26	8.60	3.49	1.30	0.70	3.79	5.77
Fluorene	8.75	8.38	1.20	6.31	27.80	12.02	8.96	2.23	10.04	26.84
1-Methylfluorene	2.09	2.47	0.08	1.05	8.00	1.58	0.84	0.38	1.63	2.88
Dibenzothiophene	1.38	1.90	0.00	0.46	5.60	1.61	1.66	---	1.32	4.36
Phenanthrene	22.93	25.52	2.10	13.32	85.80	30.58	24.41	6.59	27.38	78.30
Anthracene	1.98	2.85	0.10	1.00	9.50	2.34	1.92	0.48	1.64	5.63
2-Methyldibenzothiophene	0.52	0.45	0.10	0.45	1.70	0.71	0.39	0.24	0.67	1.54
4-Methyldibenzothiophene	0.30	0.30	---	0.23	1.10	0.41	0.25	0.12	0.35	0.97
2-Methylphenanthrene	5.18	7.62	---	1.87	25.80	2.44	1.54	0.59	2.72	5.71
2-Methylanthracene	2.13	1.76	0.30	1.75	6.40	3.48	2.16	0.97	3.44	8.57
4,5-Methylenephenanthrene	0.45	0.67	0.00	0.15	2.20	0.24	0.20	0.01	0.28	0.58
1-Methylanthracene	0.87	0.80	0.10	0.70	2.90	1.44	0.88	0.33	1.61	3.19
1-Methylphenanthrene	0.68	0.58	0.10	0.55	2.10	1.11	0.71	0.28	1.11	2.74
9-Methylanthracene	0.02	0.06	---	0.00	0.18	0.01	0.02	---	---	0.08
9,10-Dimethylanthracene	0.16	0.14	---	0.13	0.50	0.26	0.14	0.05	0.29	0.49
Fluoranthene	2.29	1.98	0.50	1.65	7.04	7.48	10.25	0.74	4.35	39.95
Pyrene	1.67	1.13	0.40	1.43	3.95	3.58	4.28	0.47	2.48	17.00
3,6-Dimethylphenanthrene	0.01	0.03	---	---	0.10	0.02	0.04	---	0.01	0.15
Benzo-a-fluorene	0.09	0.05	---	0.09	0.20	0.07	0.04	0.02	0.05	0.15
Retene	0.08	0.05	---	0.08	0.20	0.06	0.04	0.01	0.06	0.12
Benzo-b-fluorene	0.07	0.04	---	0.10	0.11	0.06	0.03	0.02	0.05	0.13
Cyclopenta-c,d-pyrene	0.18	0.12	0.03	0.13	0.43	0.05	0.04	0.01	0.03	0.14
Benz-a-anthracene	0.18	0.10	0.09	0.16	0.40	0.07	0.03	0.03	0.06	0.12
Chrysene+Triphenylene	0.26	0.11	0.10	0.25	0.50	0.11	0.04	0.04	0.10	0.18
Naphthacene	0.001	0.001	---	---	0.004	0.01	0.01	---	0.01	0.03
4-Methylchrysene	0.005	0.01	---	---	0.01	0.00	0.01	---	---	0.04
Benzo-b-fluoranthene	0.19	0.10	0.07	0.19	0.40	0.04	0.03	---	0.04	0.10
Benzo-k-fluoranthene	0.11	0.12	0.02	0.10	0.40	0.02	0.02	---	0.02	0.07
Dimethylbenz-a-anthracene	0.001	0.001	---	---	0.002	0.01	0.03	---	---	0.12
Benzo-e-pyrene	0.14	0.13	0.02	0.10	0.40	0.03	0.03	---	0.02	0.11

Table 20. Descriptive Statistics 12-Hour Weekday PAH Samples (7:00A.M.-7:00P.M.) by Site and Wind Type (ng/m³)^a

	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
Benzo-a-pyrene	0.15	0.15	0.03	0.10	0.50	0.03	0.03	---	0.02	0.11
Perylene	0.01	0.03	---	0.002	0.10	0.004	0.01	---	0.001	0.03
3-Methylchloanthrene	0.00	0.00	---	---	0.00	0.03	0.05	---	---	0.14
Indeno-1,2,3-c,d-pyrene	0.25	0.14	0.10	0.29	0.50	0.08	0.07	---	0.06	0.23
Dibenz-a,h+ac-anthracene	0.01	0.01	---	---	0.03	0.01	0.02	---	0.003	0.06
Benzo-g,h,i-perylene	0.30	0.16	0.10	0.28	0.50	0.09	0.05	0.04	0.08	0.17
Anthranthrene	0.03	0.04	---	0.01	0.10	0.01	0.01	---	---	0.04
Coronene	0.10	0.09	---	0.10	0.25	0.04	0.03	---	0.03	0.09
Site\Wind Type\N	GLC	City	N=10			GLC	Lake	N=14		
Naphthalene	110.46	99.79	27.98	71.74	327.20	30.11	28.29	---	22.66	119.90
2-Methylnaphthalene	71.18	57.57	19.30	52.95	204.80	21.29	10.00	12.20	17.99	46.16
Azulene	0.27	0.26	---	0.24	0.67	0.06	0.07	---	0.04	0.20
1-Methylnaphthalene	27.79	21.21	8.60	20.94	75.00	8.53	3.71	4.68	7.53	17.16
Biphenyl	5.73	3.85	2.40	4.56	15.70	2.57	1.44	0.74	2.60	6.40
2,7-Dimethylnaphthalene	14.95	13.65	4.45	10.30	50.90	3.51	1.77	1.17	2.92	6.63
1,3-Dimethylnaphthalene	18.92	12.84	3.90	18.44	47.20	4.62	3.49	1.22	3.84	12.64
1,6-Dimethylnaphthalene	11.10	7.64	2.50	10.46	28.60	3.17	2.10	0.18	3.58	7.81
1,4-Dimethylnaphthalene	5.21	3.51	1.05	4.77	12.80	1.50	0.97	0.41	1.32	3.80
1,5-Dimethylnaphthalene	1.99	1.52	0.50	1.77	5.70	0.52	0.36	0.04	0.53	1.16
Acenaphthylene	5.40	5.42	0.60	4.06	18.60	1.14	0.90	0.18	0.82	3.46
1,2-Dimethylnaphthalene	2.99	2.16	0.60	2.87	7.60	0.75	0.59	0.08	0.52	2.05
1,8-Dimethylnaphthalene	0.18	0.32	---	0.05	0.92	0.08	0.29	---	---	1.08
Acenaphthene	3.92	2.51	1.80	3.17	10.60	7.82	11.66	0.87	1.97	37.38
2,3,5-Trimethylnaphthalene	3.58	2.73	0.65	3.34	9.10	1.24	0.73	0.28	1.18	2.89
Fluorene	7.78	5.91	2.30	5.93	19.30	15.72	19.98	1.70	7.52	73.81
1-Methylfluorene	1.85	2.15	0.13	1.00	7.40	0.61	0.63	0.04	0.52	2.32
Dibenzothiophene	1.31	1.93	---	0.55	6.20	2.06	2.84	---	1.02	10.10
Phenanthrene	19.36	24.13	3.46	9.80	82.30	36.37	46.38	2.88	19.60	163.69
Anthracene	1.72	2.92	0.15	0.63	9.70	2.07	2.60	0.17	1.15	9.23
2-Methyldibenzothiophene	0.46	0.45	0.12	0.37	1.70	0.47	0.45	0.14	0.31	1.56
4-Methyldibenzothiophene	0.29	0.30	0.08	0.21	1.10	0.33	0.36	0.08	0.20	1.30
2-Methylphenanthrene	5.00	4.85	0.41	2.72	12.20	1.54	1.51	0.28	1.01	4.98
2-Methylantracene	1.61	1.32	0.60	1.45	5.00	2.21	2.10	0.44	1.49	6.99
4,5-Methylenephenanthrene	0.41	0.61	0.00	0.13	2.00	0.22	0.19	---	0.23	0.65
1-Methylantracene	0.68	0.65	0.20	0.59	2.40	0.85	0.79	0.18	0.55	2.55
1-Methylphenanthrene	0.53	0.45	0.15	0.45	1.70	0.74	0.68	0.14	0.51	2.31
9-Methylantracene	---	---	---	---	---	0.01	0.02	---	---	0.09
9,10-Dimethylantracene	0.14	0.10	0.06	0.11	0.40	0.14	0.11	0.03	0.11	0.40
Fluoranthene	2.14	2.55	0.50	1.15	8.88	8.61	9.23	0.44	5.04	27.34
Pyrene	1.33	1.15	0.30	0.83	4.02	3.93	3.90	0.34	2.67	11.93
3,6-Dimethylphenanthrene	---	---	---	---	---	0.03	0.07	---	0.01	0.27
Benzo-a-fluorene	0.06	0.06	---	0.06	0.20	0.07	0.06	0.01	0.05	0.17
Retene	0.08	0.05	0.04	0.06	0.20	0.08	0.08	0.00	0.05	0.27
Benzo-b-fluorene	0.06	0.04	---	0.07	0.10	0.05	0.04	0.01	0.04	0.13
Cyclopenta-c,d-pyrene	0.13	0.09	---	0.12	0.30	0.03	0.04	---	0.01	0.14
Benz-a-anthracene	0.17	0.11	0.07	0.13	0.40	0.03	0.02	---	0.02	0.08

Table 20. Descriptive Statistics 12-Hour Weekday PAH Samples (7:00A.M.-7:00P.M.) by Site and Wind Type (ng/m³)^a

	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
Chrysene+Triphenylene	0.22	0.12	0.10	0.21	0.40	0.08	0.04	0.03	0.08	0.17
Naphthacene	0.001	0.002	---	---	0.01	0.01	0.01	---	0.003	0.04
4-Methylchrysene	0.004	0.006	---	---	0.02	0.00	0.01	---	---	0.03
Benzo-b-fluoranthene	0.14	0.11	0.05	0.10	0.40	0.03	0.03	---	0.02	0.12
Benzo-k-fluoranthene	0.10	0.11	---	0.07	0.30	0.01	0.01	---	0.00	0.04
Dimethylbenz-a-anthracene	0.00	0.00	---	---	0.00	0.01	0.01	---	---	0.05
Benzo-e-pyrene	0.10	0.09	0.01	0.10	0.30	0.02	0.03	---	0.01	0.08
Benzo-a-pyrene	0.13	0.12	0.02	0.10	0.40	0.02	0.03	---	0.004	0.10
Perylene	0.002	0.003	---	---	0.01	0.00	0.01	---	---	0.03
3-Methylchloanthrene	---	---	---	---	---	---	---	---	---	---
Indeno-1,2,3-c,d-pyrene	0.21	0.12	0.06	0.20	0.40	0.06	0.05	---	0.06	0.14
Dibenz-a,h+ac-anthracene	0.01	0.01	---	---	0.03	0.01	0.01	---	0.001	0.03
Benzo-g,h,i-perylene	0.23	0.13	0.10	0.21	0.50	0.04	0.04	---	0.03	0.10
Anthranthrene	0.01	0.02	---	---	0.06	0.01	0.01	---	---	0.03
Coronene	0.06	0.06	---	0.05	0.13	0.02	0.02	---	0.01	0.07
Site\Wind Type\N	School	City	N=10			School	Lake	N=14		
Naphthalene	138.59	109.68	32.19	87.95	335.30	42.76	29.38	---	36.37	98.42
2-Methylnaphthalene	86.01	51.44	18.20	77.45	194.60	52.43	22.13	23.74	45.52	110.59
2-Methylnaphthalene1	86.01	51.44	18.20	77.45	194.60	52.43	22.13	23.74	45.52	110.59
Azulene	0.23	0.31	---	0.12	0.97	0.20	0.23	---	0.10	0.79
1-Methylnaphthalene	31.91	18.88	7.50	27.40	70.40	20.50	8.35	9.32	17.47	41.38
Biphenyl	5.66	4.20	1.10	3.64	13.20	5.14	2.81	0.70	4.24	12.16
2,7-Dimethylnaphthalene	11.61	10.47	1.50	6.70	36.70	7.30	3.34	1.14	7.40	13.36
1,3-Dimethylnaphthalene	14.24	11.71	1.50	10.61	35.50	10.33	7.45	1.13	8.58	29.66
1,6-Dimethylnaphthalene	8.06	6.34	0.70	5.76	19.60	6.49	4.03	0.31	5.66	16.69
1,4-Dimethylnaphthalene	3.94	3.27	0.40	2.96	10.20	3.12	2.14	0.49	2.51	8.65
1,5-Dimethylnaphthalene	1.53	1.34	0.10	1.00	4.40	1.18	0.74	0.13	0.98	3.10
Acenaphylene	7.08	7.04	0.80	4.08	21.41	4.31	3.74	0.52	3.22	13.71
1,2-Dimethylnaphthalene	2.39	1.99	0.20	1.86	6.20	1.67	1.39	0.20	1.26	5.29
fl,8-Dimethylnaphthalene	0.04	0.10	---	---	0.30	0.17	0.44	---	---	1.60
Acenaphthene	4.30	3.13	0.60	3.44	9.80	8.37	6.59	1.40	7.62	21.89
2,3,5-Trimethylnaphthalene	2.45	2.20	0.30	1.75	7.60	1.82	0.86	0.59	1.60	3.14
Fluorene	9.06	9.04	1.90	5.83	26.80	17.27	15.33	2.34	11.86	43.10
1-Methylfluorene	2.21	3.60	0.08	0.68	11.50	1.10	0.76	0.25	0.74	2.40
Dibenzothiophene	1.99	3.16	---	0.35	10.00	4.96	5.27	0.05	3.91	13.39
Phenanthrene	30.66	40.75	3.61	12.46	130.00	111.38	111.91	8.63	91.86	316.55
Anthracene	3.32	4.58	0.10	1.43	15.10	7.94	8.91	0.63	4.80	27.59
2-Methyldibenzothiophene	0.66	1.02	0.08	0.29	3.50	0.86	0.70	0.23	0.67	2.49
4-Methyldibenzothiophene	0.42	0.62	---	0.17	2.10	0.64	0.55	0.14	0.53	1.72
2-Methylphenanthrene	5.98	8.61	0.27	1.95	26.90	4.34	4.25	0.60	3.79	13.78
2-Methylantracene	2.00	2.23	0.20	1.29	7.40	6.15	5.82	1.00	5.19	17.15
4,5-Methylenephenanthrene	0.50	0.92	0.01	0.19	3.00	0.29	0.32	0.01	0.24	1.01
1-Methylantracene	0.83	1.00	0.10	0.50	3.40	1.95	1.77	0.34	1.73	5.90
1-Methylphenanthrene	0.65	0.73	0.10	0.41	2.40	1.91	1.86	0.30	1.62	5.79
9-Methylantracene	0.09	0.20	---	---	0.60	0.01	0.01	---	0.001	0.05
9,10-Dimethylantracene	0.14	0.12	---	0.10	0.40	0.25	0.19	0.04	0.20	0.64

Table 20. Descriptive Statistics 12-Hour Weekday PAH Samples (7:00A.M.-7:00P.M.) by Site and Wind Type (ng/m³)^a

	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
Fluoranthene	4.07	7.17	0.70	1.70	24.23	31.94	35.96	0.85	28.30	108.21
Pyrene	2.12	2.83	0.60	1.15	9.95	12.76	14.16	0.60	11.13	43.35
3,6-Dimethylphenanthrene	---	---	---	---	---	0.03	0.07	0.00	0.00	0.28
Benzo-a-fluorene	0.07	0.06	---	0.06	0.20	0.14	0.13	0.02	0.12	0.42
Retene	0.11	0.06	0.04	0.10	0.20	0.07	0.06	0.01	0.05	0.23
Benzo-b-fluorene	0.07	0.04	---	0.08	0.12	0.09	0.07	0.02	0.08	0.24
Cyclopenta-c,d-pyrene	0.14	0.10	---	0.13	0.36	0.08	0.15	0.00	0.04	0.59
Benzo-a-anthracene	0.16	0.06	0.10	0.16	0.30	0.07	0.05	0.02	0.06	0.19
Chrysene+Triphenylene	0.25	0.08	0.10	0.25	0.40	0.30	0.27	0.06	0.21	0.89
Naphacene	0.01	0.02	---	---	0.05	0.005	0.006	---	0.001	0.020
4-Methylchrysene	0.01	0.01	---	0.004	0.02	0.002	0.003	---	---	0.010
Benzo-b-fluoranthene	0.15	0.10	0.07	0.10	0.40	0.06	0.06	---	0.04	0.25
Benzo-k-fluoranthene	0.10	0.10	0.02	0.07	0.30	0.02	0.03	---	0.01	0.11
Dimethylbenz-a-anthracene	0.002	0.003	---	---	0.01	0.0004	0.001	---	---	0.002
Benzo-e-pyrene	0.11	0.10	0.02	0.10	0.30	0.03	0.04	---	0.02	0.11
Benzo-a-pyrene	0.12	0.09	0.03	0.10	0.30	0.01	0.01	---	0.00	0.05
Perylene	0.00	0.00	---	---	0.01	0.003	0.004	---	0.001	0.01
3-Methylchloanthrene	---	---	---	---	---	---	---	---	---	---
Indeno-1,2,3-c,d-pyrene	0.23	0.12	0.10	0.23	0.40	0.09	0.08	---	0.09	0.29
Dibenz-a,h+ac-anthracene	0.01	0.01	---	---	0.02	0.004	0.01	---	---	0.02
Benzo-g,h,i-perylene	0.25	0.11	0.10	0.27	0.40	0.08	0.06	0.01	0.08	0.22
Anthranthrene	0.02	0.02	---	---	0.07	0.01	0.01	---	---	0.03
Coronene	0.09	0.09	---	0.10	0.24	0.03	0.04	---	---	0.11

^aA dash (---) denotes a value that was equal to zero or negative number after blank correction.

Table 21. Descriptive Statistics 12-Hour Weekday NPAH Samples (7:00A.M.-7:00P.M.) by Wind Type and Sampling Session, (pg/m³)^a

Wind Type/Session/N	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
	City	Winter 2005	N=3			Lake	Summer 2005	N=25			City	Winter 2006	N=12		
1N-Naphthalene	65.18	11.01	---	60.88	77.69	50.70	12.98	---	44.91	93.92	413.00	447.86	---	192.78	1327.74
2N-Naphthalene	66.88	12.99	56.97	72.35	76.23	49.13	16.72	18.71	49.04	99.29	231.05	331.91	36.03	83.35	879.94
2N-Biphenyl	96.45	61.21	52.05	116.57	145.07	110.53	70.81	16.30	84.87	303.71	815.78	1231.96	---	137.57	3821.51
3N-Biphenyl	19.10	3.08	27.71	19.91	21.69	19.22	10.49	10.05	18.05	53.57	616.79	1125.07	5.10	87.90	3562.28
4N-Biphenyl	3.46	5.99	15.69	---	10.37	13.04	---	7.38	---	154.93	---	---	5.32	---	---
1,3-DiN-Naphthalene	0.25	0.18	---	0.30	0.40	0.53	0.36	---	0.58	1.29	---	---	---	---	---
1,5-DiN-Naphthalene	0.09	0.16	0.05	---	0.27	0.03	---	---	---	0.35	---	---	---	---	---
5N-Acenaphthalene	37.08	21.18	---	27.90	61.30	34.40	18.54	---	32.32	101.15	---	---	---	---	---
2N-Fluorene	---	---	22.05	---	---	0.18	0.10	7.78	0.11	1.20	---	---	---	---	---
9N-Anthracene	62.74	9.06	---	67.61	68.33	46.54	6.77	---	37.83	133.58	---	---	---	---	---
2N-Anthracene	0.85	0.07	52.29	0.87	0.91	0.46	---	10.00	0.48	1.34	53.08	45.01	---	36.86	140.00
9N-Phenanthrene	0.97	0.33	0.77	1.12	1.20	0.92	1.29	---	0.41	3.46	1.29	1.74	---	---	4.40
3N-Phenanthrene	4.67	0.64	0.59	4.32	5.41	3.87	0.87	---	3.52	8.58	0.58	1.36	---	---	3.65
4N-Phenanthrene	1.53	2.66	4.28	---	4.60	0.98	---	0.94	---	15.47	1.82	3.08	---	---	9.36
2N-Fluoranthene	8.68	1.26	---	8.41	10.05	8.60	0.96	---	6.79	24.34	---	---	---	---	---
3N-Fluoranthene	---	---	7.57	---	---	---	---	2.08	---	---	6.43	4.95	---	5.78	14.95
1N-Pyrene	2.14	0.92	---	1.95	3.14	2.97	3.13	---	2.13	9.14	0.25	0.64	---	---	2.14
2N-Pyrene	0.21	0.09	1.32	0.19	0.31	0.22	0.08	---	0.10	1.45	3.42	5.81	---	---	17.66
7N-Benz-a-anthracene	0.44	0.01	0.13	0.44	0.45	0.12	0.09	---	0.09	0.49	0.96	1.35	---	---	3.49
6N-Chrysene	---	---	0.43	---	---	0.04	---	---	---	0.89	1.83	2.00	---	1.12	4.62
1,3-DiN-Pyrene	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
1,6-DiN-Pyrene	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
6N-Benzo-a-pyrene	1.18	2.04	---	---	3.54	0.31	---	---	---	1.28	16.86	58.40	---	---	202.31
1N-Benzo-e-pyrene	0.36	0.25	---	0.22	0.65	0.12	0.14	---	---	0.81	0.15	0.52	---	---	1.79
3N-Benzo-e-pyrene	---	---	0.20	---	---	0.35	2.27	---	---	4.43	0.12	0.43	---	---	1.49

^aA dash (---) denotes a value that was equal to zero or negative number after blank correction.

Table 22. Descriptive Statistics 12-Hour Weekday NPAH Samples (7:00A.M.-7:00P.M.) by Site and Wind Type, (pg/m³)^a

Site\Wind Type\N	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
	Chapel	City	N=5			Chapel	Lake	N=9		
1N-Naphthalene	350.09	444.63	---	181.84	1140.86	61.31	14.42	---	61.06	90.63
2N-Naphthalene	206.58	303.47	77.69	91.20	743.46	54.74	16.67	58.05	58.37	82.49
2N-Biphenyl	640.47	925.20	---	666.68	2235.53	65.43	52.96	58.37	55.56	174.74
3N-Biphenyl	488.66	915.96	56.68	184.34	2123.07	22.18	12.83	30.93	18.12	53.57
4N-Biphenyl	2.07	4.64	21.69	---	10.37	17.63	51.50	11.61	---	154.93
1,3-DiN-Naphthalene	0.06	0.13	---	---	0.30	0.61	0.43	---	0.67	1.09
1,5-DiN-Naphthalene	---	---	---	---	---	0.03	0.09	0.28	---	0.27
5N-Acenaphthalene	5.58	12.48	---	---	27.90	26.29	18.39	---	21.78	65.79
2N-Fluorene	---	---	---	---	---	0.28	0.36	17.66	0.18	1.20
9N-Anthracene	13.52	30.24	---	---	67.61	48.09	38.03	0.08	37.83	133.58
2N-Anthracene	36.41	37.46	---	0.87	80.43	0.40	0.49	26.68	0.21	1.32
9N-Phenanthrene	1.69	1.87	---	3.31	4.01	2.07	0.67	---	2.02	3.46
3N-Phenanthrene	0.86	1.91	---	---	4.28	3.73	1.45	1.19	3.59	6.57
4N-Phenanthrene	1.67	2.82	---	1.84	6.52	0.28	0.56	3.52	---	1.50
2N-Fluoranthene	2.01	4.49	---	---	10.05	7.68	3.12	---	6.84	13.38
3N-Fluoranthene	6.03	6.07	---	1.91	14.56	---	---	5.18	---	---
1N-Pyrene	1.06	1.49	---	---	3.14	5.98	1.69	---	5.91	9.14
2N-Pyrene	4.69	7.64	---	0.19	17.66	0.09	0.08	4.45	0.09	0.23
7N-Benz-a-anthracene	1.05	1.45	---	1.35	3.44	0.13	0.11	0.09	0.11	0.33
6N-Chrysene	1.06	1.48	---	---	3.07	0.10	0.30	0.01	---	0.89
1,3-DiN-Pyrene	---	---	---	---	---	---	---	---	---	---
1,6-DiN-Pyrene	---	---	---	---	---	---	---	---	---	---
6N-Benzo-a-pyrene	---	---	---	---	---	0.30	0.48	---	---	1.09
1N-Benzo-e-pyrene	0.40	0.78	---	---	1.79	0.17	0.29	---	---	0.81
3N-Benzo-e-pyrene	---	---	---	---	---	0.33	0.99	---	---	2.98
Site\Wind Type\N	GLC	City	N=5			GLC	Lake	N=9		
1N-Naphthalene	318.18	363.18	---	204.44	921.44	31.52	8.89	---	33.19	44.91
2N-Naphthalene	185.38	287.76	36.03	75.50	695.61	30.88	12.06	18.71	29.40	49.73
2N-Biphenyl	519.06	899.40	---	148.26	2114.25	78.20	45.04	16.30	79.41	139.46
3N-Biphenyl	267.47	471.03	5.10	91.14	1105.56	15.07	6.18	10.05	14.32	27.46
4N-Biphenyl	---	---	5.32	---	---	5.05	15.16	7.38	---	45.48
1,3-DiN-Naphthalene	0.01	0.02	---	---	0.05	0.35	0.31	---	0.22	0.88
1,5-DiN-Naphthalene	0.05	0.12	---	---	0.27	0.01	0.02	---	---	0.07
5N-Acenaphthalene	4.41	9.86	---	---	22.05	27.92	17.10	---	20.89	57.77
2N-Fluorene	---	---	---	---	---	0.13	0.19	10.53	0.06	0.55
9N-Anthracene	10.46	23.38	---	---	52.29	41.46	36.27	---	24.68	128.15
2N-Anthracene	45.71	49.28	---	35.01	129.84	0.22	0.31	17.80	---	0.83
9N-Phenanthrene	1.39	1.86	0.91	0.59	4.40	0.18	0.23	---	0.13	0.67
3N-Phenanthrene	1.59	2.20	---	---	4.32	2.10	0.77	---	1.91	3.27
4N-Phenanthrene	3.01	4.02	---	1.09	9.36	---	---	0.94	---	---
2N-Fluoranthene	1.51	3.39	---	---	7.57	4.71	1.30	---	5.24	5.83

Table 22. Descriptive Statistics 12-Hour Weekday NPAH Samples (7:00A.M.-7:00P.M.) by Site and Wind Type, (pg/m³)^a

	Mean	SD	Min	Median	Max	Mean	SD	Min	Median	Max
3N-Fluoranthene	6.43	6.17	---	7.50	14.95	---	---	2.08	---	---
1N-Pyrene	0.39	0.87	---	---	1.95	0.56	0.37	---	0.66	1.18
2N-Pyrene	3.62	5.07	---	0.31	11.12	0.14	0.17	---	0.10	0.57
7N-Benz-a-anthracene	0.44	0.77	---	---	1.77	0.07	0.06	---	0.04	0.20
6N-Chrysene	1.75	2.40	---	---	4.62	---	---	0.02	---	---
1,3-DiN-Pyrene	---	---	---	---	---	---	---	---	---	---
1,6-DiN-Pyrene	---	---	---	---	---	---	---	---	---	---
6N-Benzo-a-pyrene	41.17	90.09	---	---	202.31	0.31	0.50	---	---	1.28
1N-Benzo-e-pyrene	0.13	0.29	---	---	0.65	0.12	0.13	---	0.10	0.34
3N-Benzo-e-pyrene	0.30	0.67	---	---	1.49	0.64	1.49	---	---	4.43
Site\Wind Type\N	School	City	N=5			School	Lake	N=7		
1N-Naphthalene	362.05	541.63	---	162.13	1327.74	61.72	19.58	---	60.75	93.92
2N-Naphthalene	202.70	379.46	60.88	31.94	879.94	65.39	23.11	38.31	61.45	99.29
2N-Biphenyl	856.22	1657.79	---	126.06	3821.51	210.08	76.51	39.23	218.59	303.71
3N-Biphenyl	735.63	1580.27	91.20	20.94	3562.28	20.76	9.04	103.59	18.05	39.22
4N-Biphenyl	---	---	12.33	---	---	17.42	22.80	11.67	6.65	57.36
1,3-DiN-Naphthalene	0.08	0.18	---	---	0.40	0.68	0.39	---	0.70	1.29
1,5-DiN-Naphthalene	---	---	---	---	---	0.05	0.13	---	---	0.35
5N-Acenaphthalene	12.26	27.41	---	---	61.30	53.18	26.69	---	44.44	101.15
2N-Fluorene	---	---	---	---	---	0.10	0.09	31.29	0.06	0.25
9N-Anthracene	13.67	30.56	---	---	68.33	51.08	14.45	---	46.58	81.83
2N-Anthracene	45.77	57.46	---	34.00	140.00	0.84	0.43	36.87	0.93	1.34
9N-Phenanthrene	0.59	0.84	---	---	1.77	0.39	0.36	---	0.31	0.97
3N-Phenanthrene	1.75	2.51	---	---	5.41	6.32	1.73	---	5.52	8.58
4N-Phenanthrene	0.60	1.33	---	---	2.98	3.14	5.57	4.18	1.47	15.47
2N-Fluoranthene	1.68	3.76	---	---	8.41	14.79	5.55	---	14.62	24.34
3N-Fluoranthene	2.98	2.90	---	3.35	5.96	---	---	7.83	---	---
1N-Pyrene	0.44	0.62	---	---	1.32	2.21	0.44	---	2.13	2.89
2N-Pyrene	0.03	0.06	---	---	0.13	0.48	0.54	1.65	0.26	1.45
7N-Benz-a-anthracene	1.07	1.47	---	0.43	3.49	0.17	0.19	0.04	0.11	0.49
6N-Chrysene	1.58	2.17	---	---	4.22	0.02	0.06	---	---	0.17
1,3-DiN-Pyrene	---	---	---	---	---	---	---	---	---	---
1,6-DiN-Pyrene	---	---	---	---	---	---	---	---	---	---
6N-Benzo-a-pyrene	---	---	---	---	---	0.31	0.53	---	---	1.17
1N-Benzo-e-pyrene	0.04	0.09	---	---	0.20	0.05	0.14	---	---	0.36
3N-Benzo-e-pyrene	---	---	---	---	---	---	---	---	---	---

^aA dash (---) denotes a value that was equal to zero or negative number after blank correction.