ALLEGHENY COUNTY HEALTH DEPARTMENT Air Quality Program

September 11, 2009

Montessori School House Bridgeville, PA

Metals Results / TSP 24 hour samples

Samples collected outside of the school (Outdoor Samples)

| | Cr | Mn | Ni | Pb |
|-----------|---------|---------|---------|---------|
| Date | (ng/m3) | (ng/m3) | (ng/m3) | (ng/m3) |
| 2/12/2009 | 5.77 | 28.60 | 3.11 | 2.71 |
| 2/18/2009 | 17.74 | 34.83 | 14.89 | 9.32 |
| 2/24/2009 | 53.87 | 58.04 | 32.83 | 24.39 |
| 3/2/2009 | 8.53 | 34.73 | 5.40 | 8.89 |
| 3/8/2009 | 7.86 | 21.75 | 4.21 | 22.22 |
| 3/14/2009 | 34.31 | 57.39 | 43.08 | 22.31 |
| 3/20/2009 | 12.07 | 27.49 | 10.01 | 7.83 |
| 3/26/2009 | 1.87 | 6.44 | 1.29 | 3.71 |
| Average | 17.75 | 33.66 | 14.35 | 12.67 |
| Max | 53.87 | 58.04 | 43.08 | 24.39 |

| I.R.I.S Rfc (Chronic Inhalation) | 50 | |
|----------------------------------|--------|-----|
| 3 month NAAQS | | 150 |
| Occupational (8 hour LOAEL) | 50,000 | |

Sampling was performed every six days. The sampler is a high volume TSP sampler as required by the EPA federal reference method for ambient lead sampling. High purity quartz filters are used at a flow rate of 50 cfm over a 24 hour period. Exposed filters are analyzed by atomic absorbance spectrometry by the Allegheny County Environmental Laboratory. All samples are corrected for metals concentrations in blank filters from each filter batch.

Montessori School House Bridgeville, PA

Metals Samples Results

Indoor Air

| Date | Location | Cr (ng/m3) | Mn (ng/m3) | Ni (ng/m3) | Pb (ng/m3) |
|----------|--------------------|---------------|---------------|---------------|---------------|
| 2/7/2009 | Upstairs classroom | 59.38 | 20.26 | 5.07 | 5.26 |
| 2/8/2009 | Upstairs classroom | 0.00 | 0.00 | 19.69 | 0.00 |
| 2/9/2009 | Upstairs classroom | 67.19 | 30.99 | 20.16 | 0.00 |
| Average | | 42.19 | 17.08 | 14.97 | 1.75 |
| Maximum | | 59.38 | 30.99 | 20.16 | 5.26 |

| I.R.I.S Rfc (Chronic Inhalation) | 50.00 | |
|----------------------------------|--------|-----|
| 3 month NAAQS | | 150 |
| Occupational (8 hour LOAEL) | 50,000 | |

Indoor metals samples were gathered using small personal pumps. Flows were maintained at 4 slpm for 8 hours during normal operating school days. Samples were gathered around 4 to 5 feet from the floor. Filters were 37mm membrane type and were installed in clean cassettes. Exposed filters are analyzed by atomic absorbance spectrometry by the Allegheny County Environmental Laboratory. All samples are corrected for metals concentrations in blank filters from each filter batch.

Montessori School House Bridgeville, PA

1 in 1,000,000

Chromium VI Ambient Air Monitoring Results (Outdoor Air)

| DATE | Cr+6 ng/m³ |
|------------|---------------|
| 7/18/2009 | 0.025 |
| 7/24/2009 | 0.067 |
| 7/30/2009 | 0.124 |
| 8/5/2009 | 0.015 |
| 8/11/2009 | 0.008 |
| 8/17/2009 | 0.077 |
| 08/23/2009 | 0.000 |
| 08/29/2009 | 0.028 |
| 09/04/2009 | 0.835 |
| 09/10/2009 | 0.010 |
| | |
| Avg | 0.119 (ng/m3) |
| Max | 0.835 (ng/m3) |
| Min | 0.000 (ng/m3) |

| IVIIII | 0.000 (lig/ilia) |
|-----------------------------------|------------------|
| | |
| I.R.I.S Rfc (Chronic Inhalation) | 100 (ng/m3) |
| I.R.I.S. Cancer Risk (Inhalation) | |
| 1 in 10,000 | 8 (ng/m3) |
| 1 in 100,000 | 0.8 (ng/m3) |

Chromium VI was sampled in the ambient air using a modified PM2.5 federal reference method sampler operating at a flow rate of 15 lpm. Each sample was collected over a 24 hour period. Samples were collected according to the EPA's every six day particulate sampling schedule.

0.08 (ng/m3)

Eastern Research Group was contracted by the Department to supply sample media and analysis. This laboratory is currently the EPA contract laboratory for the National School Air Toxics Initiative. The analytical method follows the EPA-modified CARB 039.