

US EPA ARCHIVE DOCUMENT

**Mabel Holmes Middle School
Elizabeth, NJ**

Other Monitored Toxic Air Pollutants

Monitoring Results

| Key Pollutant | Sample Screening Level | 8/23/2009 | 8/29/2009 | 9/4/2009 | 9/10/2009 | 9/16/2009 | 9/22/2009 | 9/28/2009 | 10/4/2009 | 10/10/2009 | 10/16/2009 | 10/22/2009 | 10/28/2009 | 11/3/2009 | 11/9/2009 | 11/15/2009 | 11/21/2009 | 11/27/2009 | 12/3/2009 | 12/9/2009 | 12/15/2009 | 12/21/2009 | 12/22/2009 | 1/13/2010 | 1/19/2010 | 1/21/2010 | |
|--|------------------------|-----------|-----------|----------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|-----------|-----------|------------|------------|------------|-----------|-----------|------------|------------|------------|-----------|-----------|-----------|----|
| 1,1,2,2-Tetrachloroethane (Micrograms/cubic meter) | 120 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ND | ND | ND | ND | -- | -- | ND | ND | ND | | ND | ND | ND | ND | ND |
| 1,1,2-Trichloroethane (Micrograms/cubic meter) | 440 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ND | ND | ND | ND | -- | -- | ND | ND | ND | | ND | ND | ND | ND | ND |
| 1,1-Dichloroethane (Micrograms/cubic meter) | 4400 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ND | ND | ND | ND | -- | -- | ND | ND | ND | | ND | ND | ND | ND | ND |
| 1,1-Dichloroethylene (Micrograms/cubic meter) | 80 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ND | ND | ND | ND | -- | -- | ND | ND | ND | | ND | ND | ND | ND | ND |
| 1,2,4-Trichlorobenzene (Micrograms/cubic meter) | 2000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ND | ND | ND | ND | -- | -- | ND | ND | ND | | ND | ND | ND | ND | ND |
| 1,2-Dichloropropane (Micrograms/cubic meter) | 200 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ND | ND | ND | ND | -- | -- | ND | ND | ND | | ND | ND | ND | ND | ND |
| 1,4-Dichlorobenzene (Micrograms/cubic meter) | 10000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.23 | 0.18 | 0.28 | 0.31 | -- | -- | 0.13 | 0.09 | 0.05 | | ND | 0.36 | 0.18 | 0.722 | |
| Acetonitrile (Micrograms/cubic meter) | 600 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.215 | 0.173 | 0.356 | 0.2 | -- | -- | 0.12 | 0.13 | 0.11 | | 0.11 | 0.235 | 0.252 | 0.218 | |
| Acrylonitrile (Micrograms/cubic meter) | 200 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ND | ND | ND | ND | -- | -- | ND | ND | ND | | ND | ND | ND | ND | ND |
| Antimony (Nanograms/cubic meter) | 2000 | 2.23 | -- | 4.08 | 1.74 | 2.02 | 2.81 | 1.38 | 2.12 | 2.31 | 1.71 | 4.46 | 1.15 | 3.98 | 8.67 | 1.94 | 1.61 | 0.72 | 0.7 | 6.93 | 1.51 | 0.62 | | | | | |
| Arsenic (Nanograms/cubic meter) | 150 | 1.38 | -- | 0.71 | 0.39 | 0.41 | 0.51 | 0.66 | 1.72 | 0.99 | 0.4 | 1.23 | 0.13 | 0.6 | 2.26 | 0.94 | 0.48 | 0.25 | 0.08 | 0.39 | 0.43 | 0.06 | | | | | |
| Benzyl chloride (Micrograms/cubic meter) | 140 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ND | ND | ND | ND | -- | -- | ND | ND | ND | | ND | ND | ND | ND | ND |
| Beryllium (Nanograms/cubic meter) | 20 | 0.003 | -- | 0.06 | 0.008 | ND | ND | ND | ND | ND | 0.01 | 0.03 | ND | 0.009 | ND | ND | ND | ND | ND | ND | ND | ND | ND | | | | |
| Bromoform (Micrograms/cubic meter) | 6400 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ND | ND | ND | ND | -- | -- | ND | ND | ND | | ND | ND | ND | ND | ND |
| Bromomethane (Micrograms/cubic meter) | 200 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.043 | 0.039 | 0.051 | 0.047 | -- | -- | 0.051 | 0.14 | 0.039 | | 0.03 | ND | ND | 0.078 | |
| Cadmium (Nanograms/cubic meter) | 30 | 0.08 | -- | 0.15 | 0.1 | 0.11 | 0.1 | 0.25 | 0.15 | 0.11 | 0.09 | 0.3 | 0.05 | 0.31 | 0.69 | 0.16 | 0.09 | 0.06 | 0.05 | 0.12 | 0.08 | 0.07 | | | | | |
| Carbon disulfide (Micrograms/cubic meter)** | 7000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.037 | 0.02 | 0.12 | 0.11 | -- | -- | 0.14 | 0.02 | 0.03 | | 0.03 | 0.16 | 0.19 | 0.062 | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-------|-------|------|-------|------|-------|------|------|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|------|-------|-------|-------|-------|
| Carbon tetrachloride (Micrograms/cubic meter) | 200 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.52 | 0.674 | 0.55 | 0.6 | -- | -- | 0.642 | 0.57 | 0.655 | | 0.68 | 0.755 | 0.755 | 0.755 |
| Chlorobenzene (Micrograms/cubic meter) | 10000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ND | ND | ND | ND | -- | -- | ND | ND | ND | | ND | ND | ND | ND |
| Chloroethane (Micrograms/cubic meter) | 40000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.02 | 0.02 | 0.084 | 0.058 | -- | -- | 0.045 | 0.02 | ND | | 0.042 | ND | 0.079 | ND |
| Chloroform (Micrograms/cubic meter) | 500 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.12 | 0.13 | 0.21 | ND | -- | -- | 0.12 | 0.1 | 0.088 | | 0.078 | ND | 0.15 | 0.2 |
| Chloromethane (Micrograms/cubic meter) | 1000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.34 | 0.971 | 1.03 | 1.05 | -- | -- | 0.909 | 0.829 | 1.23 | | 0.969 | 1.14 | 1.1 | 1.14 |
| Chloroprene (Micrograms/cubic meter) | 200 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ND | ND | ND | ND | -- | -- | ND | ND | ND | | ND | ND | ND | ND |
| Cobalt (Nanograms/cubic meter) | 100 | 0.1 | -- | 0.27 | 0.38 | 0.38 | 0.28 | 0.09 | 0.07 | 0.05 | 0.19 | 0.23 | 0.15 | 0.18 | 0.44 | 0.04 | 0.05 | 0.009 | 0.08 | 0.19 | 0.08 | 0.06 | | | | |
| Dichloromethane (Micrograms/cubic meter)** | 2000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.459 | 0.521 | 2.09 | 0.41 | -- | -- | 1.1 | 0.702 | 0.56 | | 0.26 | 1.63 | 1.77 | 1.08 |
| Ethyl acrylate (Micrograms/cubic meter) | 7000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ND | ND | ND | ND | -- | -- | ND | ND | ND | | ND | ND | ND | ND |
| Ethylbenzene (Micrograms/cubic meter) | 40000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.21 | 0.2 | 0.578 | 0.32 | -- | -- | 0.17 | 0.23 | 0.087 | | 0.096 | 0.478 | 0.652 | 0.652 |
| Ethylene dibromide (Micrograms/cubic meter) | 12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ND | ND | ND | ND | -- | -- | ND | ND | ND | | ND | ND | ND | ND |
| Ethylene dichloride (Micrograms/cubic meter) | 270 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ND | ND | ND | ND | -- | -- | ND | ND | ND | | ND | ND | ND | ND |
| Formaldehyde (Micrograms/cubic meter) | 50 | 3.23 | 2.96 | 5.05 | 2.37 | 2.42 | 2.84 | 2.09 | 3.16 | 1.39 | 1.55 | 4.39 | 1.3 | 2.88 | 6.51 | 1.88 | 1.68 | 1.71 | 1.27 | 1.81 | 1.28 | 1.86 | | | | |
| Hexachlorobutadiene (Micrograms/cubic meter) | 320 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ND | ND | ND | ND | -- | -- | ND | ND | ND | | ND | ND | ND | ND |
| Manganese (Nanograms/cubic meter) | 500 | 2.87 | -- | 8.51 | 10.6 | 7.44 | 8.58 | 6.29 | 5.04 | 3.09 | 2.64 | 11.6 | 2.22 | 6.41 | 19 | 3.13 | 2.8 | 1 | 1.31 | 3.6 | 1.84 | 1.41 | | | | |
| Mercury (Nanograms/cubic meter) | 3000 | 0.003 | -- | 0.02 | ND | 0.05 | ND | 0.04 | 0.03 | 0.05 | 0.02 | 0.03 | 0.005 | ND | 0.06 | ND | 0.009 | 0.005 | 0.04 | 0.0007 | 0.05 | 0.03 | | | | |
| Methyl chloroform (Micrograms/cubic meter) | 10000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.06 | 0.066 | 0.11 | 0.066 | -- | -- | 0.082 | 0.066 | 0.06 | | 0.071 | ND | 0.22 | 0.11 |
| Methyl isobutyl ketone (Micrograms/cubic meter)** | 30000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.37 | 0.12 | 0.17 | 0.13 | -- | -- | 0.18 | 0.16 | 0.11 | | ND | 0.37 | 0.41 | ND |
| Methyl methacrylate (Micrograms/cubic meter) | 7000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ND | ND | ND | ND | -- | -- | ND | ND | ND | | ND | ND | ND | ND |
| Methyl tert-butyl ether (Micrograms/cubic meter) | 7000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ND | ND | ND | ND | -- | -- | ND | ND | ND | | ND | ND | ND | ND |
| Propionaldehyde (Micrograms/cubic meter) | 80 | 0.387 | 0.44 | 0.651 | 0.23 | 0.238 | 0.38 | 0.23 | 0.376 | 0.18 | 0.14 | 0.632 | 0.14 | 0.288 | 0.799 | 0.2 | 0.22 | 0.15 | 0.11 | 0.22 | 0.17 | 0.11 | | | | |

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|--|-------|------|----|-----|-----|------|------|------|------|------|------|------|-------|------|-------|-------|------|------|------|-------|-------|------|-------|-------|-------|-------|
| Selenium (Nanograms/cubic meter) | 20000 | 0.29 | -- | 0.4 | 0.4 | 0.22 | 0.32 | 0.69 | 0.57 | 0.63 | 0.12 | 1.66 | 0.05 | 0.57 | 2 | 0.45 | 0.45 | 0.26 | 0.09 | 0.31 | 0.74 | 0.08 | | | | |
| Styrene (Micrograms/cubic meter) | 9000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.064 | 0.04 | 0.068 | 0.085 | -- | -- | ND | 0.055 | 0.03 | | ND | ND | 0.17 | 0.17 |
| Tetrachloroethylene (Micrograms/cubic meter) | 1400 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.2 | 0.24 | 0.46 | 0.39 | -- | -- | 0.14 | 0.29 | 0.095 | | ND | ND | 0.54 | 0.679 |
| Toluene (Micrograms/cubic meter)** | 4000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.38 | 1.24 | 4.34 | 2.11 | -- | -- | 1.06 | 1.95 | 0.415 | | 0.535 | 2.15 | 3.92 | 4.11 |
| Trichloroethylene (Micrograms/cubic meter) | 10000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ND | ND | 0.14 | ND | -- | -- | ND | 0.086 | ND | | ND | ND | ND | ND |
| Vinyl chloride (Micrograms/cubic meter) | 1000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | ND | ND | 0.02 | ND | -- | -- | 0.02 | ND | ND | | ND | ND | ND | ND |
| o-Xylene (Micrograms/cubic meter) | 9000 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.21 | 0.16 | 0.474 | 0.3 | -- | -- | 0.14 | 0.2 | 0.065 | | 0.061 | 0.521 | 0.782 | 0.608 |

ND = Pollutant Not Detected
 -- = Sample not taken or invalid

The sample screening level is a level of pollution in the air that is below what we expect to cause health problems from short-term exposure

(Results are for metals in air samples of particulate matter 10 micrometers in diameter and smaller (PM10) collected over a 24-hour period to obtain an average concentration during that day.)

[** EPA has replaced some data that previously were incorrectly reported. See the changes here](#)

[NOTE: Additional volatile organic compound samples are being collected at this site. Previous samples have been invalidated due to a sampler contamination issue. Please click here for more informatior](#)