

**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					
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				

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](#)