

Danversport Explosion Site USEPA Air Quality Assessment Results for the Water St. Summa Air Sample Location																	
Station Name				Water St.													
Sample Type				8 Hour Summa													
Date Collected				12/03/07	12/5/2006	12/9/2006	12/12/2006	12/15/2006	12/19/2006	12/21/2006	12/28/2006	12/30/2006	01/11/07	01/19/07	01/23/07		
			Avg. Conc. detected for all samples collected (ppb/V)	Conc. (ppb/V)													
Analyte		Comparison Value (ppb/V)*	Source***														
1,1,1-Trichloroethane	700	Int. MRL	0.014		ND	ND	ND	ND	0.14	ND					ND	ND	
1,2,4-Trimethylbenzene	25	ATSDR	0.062		ND	0.048	0.078	0.20	0.039	0.048	0.054	0.11		0.039	ND		
1,2-Dibromoethane	1.2	RfC	0.000		ND		ND	ND									
1,2-Dichloroethane	600	Chr MRL	0.000		ND		ND	ND									
1,3,5-Trimethylbenzene	25	ATSDR	0.011		ND	ND	ND	0.068	ND	ND	ND	0.040		ND	ND		
4-Ethyltoluene	97	ATSDR	0.070		ND	ND	0.098	0.21	0.046	0.062	0.069	0.13		0.047	0.034		
Acetone	13,000	Int. MRL	1.609		ND	ND	0.86	6.6	1.7	2.7	1.7	1.4		0.67	0.46		
Benzene	6	Int. MRL	0.325		0.31	0.31	0.22	0.49	0.20	0.35	0.35	0.47		0.31	0.24		
Carbon Tetrachloride	30	Int. MRL	0.071		0.059	0.079	0.079	0.083	0.076	0.058	0.073	0.069		0.074	0.06		
Chlorobenzene	75	ATSDR	0.000		ND		ND	ND									
Chloroform	50	Int MRL	0.000		ND		ND	ND									
Cyclohexane	1744	RfC	0.013		ND	0.13		ND	ND								
Dichlorodifluoromethane	10,100	RfC	0.485		0.45	0.49	0.47	0.47	0.50	0.53	0.50	0.58		0.45	0.41		
Ethylbenzene	1,000	Int. MRL	0.140		0.094	0.12	0.29	0.24	0.077	0.11	0.14	0.19		0.085	0.056		
Heptane	1,000	ATSDR	0.120		ND	ND	ND	ND	ND	ND	1.2	ND		ND	ND		
Hexane	600	Chr MRL	0.504		0.45	0.68	0.53	0.72	0.40	0.41	0.38	0.54		0.73	0.2		
Isopropyl Alcohol	200	ATSDR	0.502		ND	1.9		2.6	0.52	ND							
Methyl Chloride	200	Int. MRL	0.000		ND		ND	ND									
Methyl Ethyl Ketone	1,700	RfC	0.449		ND	ND	2.2	0.51	0.20	0.47	0.53	0.30		0.28	ND		
Methyl Isobutyl Ketone	731**	RfC	0.010		ND	ND	0.10	ND	ND	ND	ND	ND		ND	ND		
Methylene Chloride	300	Int. MRL	0.168		ND	0.064	ND	0.12	0.051	1.2	0.072	0.085		0.083	ND		
Methyl Bromide	50	Int. MRL	0.000		ND		ND	ND									
Methyl-t-Butyl Ether	700	Int. MRL	0.000		ND		ND	ND									
Styrene	60	Chr MRL	0.014		ND	ND	ND	0.097	0.041	ND	ND	ND		ND	ND		
Tetrachloroethylene	40	Chr MRL	0.022		ND	ND	ND	0.12	ND	0.040	ND	0.064		ND	ND		
Tetrahydrofuran	100	ATSDR	0.048		ND	ND	0.48	ND	ND	ND	ND	ND		ND	ND		
Toluene	80	Chr MRL	1.780		1.1	0.85	4.9	2.3	0.52	1.4	4.6	1.2		0.65	0.28		
Trichloroethylene	100	Int. MRL	0.000		ND		ND	ND									
Trichlorofluoromethane	8,897	RfC	0.221		0.21	0.21	0.22	0.24	0.21	0.23	0.25			0.22	0.19		
Trichlorotrifluoroethane	6,510	RfC	0.013		ND		0.068	0.06									
Vinyl Chloride	30	Int. MRL	0.054		0.059	0.065	0.064	0.065	0.066	0.067	0.072	0.077		ND	ND		
m/p-Xylene	600	Int. MRL	0.311		0.24	0.24	0.42	0.60	0.16	0.26	0.33	0.53		0.19	0.14		
o-Xylene	600	Int. MRL	0.109		0.086	0.087	0.13	0.23	0.056	0.091	0.11	0.18		0.066	0.049		

* All Results are reported in parts per billion/volume.

**Some individuals may detect an odor at 100 ppb. Its odor has been described as "pleasant, camphor-like". However, not all compounds are detectable by odor.

The health-based comparison values used in this table have been selected to ensure that individuals (whether they detect an odor or not) will not experience adverse health effects.

*** See ATSDR Record of Activity (AROA) document.

ND - Not Detected (Not detected above its reporting limit).

Each sampling event includes the analysis of a wide range of volatile organic compounds (VOCs). Only compounds detected above their respective reporting limits are shown in this table. The compounds included on this table are those which were detected by laboratory analysis.

Shaded columns indicate dates on which analytical data was not collected.