NYC 9/11 Public Portal Document

Acid Gases Air Sampling Analysis Results

Collection Date: Night of 9/21/01

Compound	Queens Broadway Ave & 31st St	Bronx 138th St & 3rd Ave	Manhattan Central Park N. & Lenox	Brooklyn Berry St & North 11th St	Brooklyn Atlantic Ave & Smith St	Staten Island Bay St & Victory Blvd
Acetic Acid	<5.0 PPM	<5.0 PPM	<5.0 PPM	<5.0 PPM	<5.0 PPM	<5.0 PPM
Nitric Acid	<1.0 PPM	<1.0 PPM	<1.0 PPM	<1.0 PPM	<1.0 PPM	<1.0 PPM
Sulphuric Acid	<5.0 PPM	<5.0 PPM	<5.0 PPM	<5.0 PPM	<5.0 PPM	<5.0 PPM
Hydrochloric Acid	<10.0 PPM	<10.0 PPM	<10.0 PPM	<10.0 PPM	<10.0 PPM	<10.0 PPM
Formic Acid	<1.0 PPM	<1.0 PPM	<1.0 PPM	<1.0 PPM	<1.0 PPM	<1.0 PPM
Chromic Acid	<0.10 PPM	<0.10 PPM	<0.10 PPM	<0.10 PPM	<0.10 PPM	<0.10 PPM
Acid Test	<10.0 PPM	<10.0 PPM	<10.0 PPM	<10.0 PPM	<10.0 PPM	<10.0 PPM

Metal Air Sampling Analysis Results

Collection Date: 9/21/01 • Units: mg/m^3

Metal	Queens Broadway Ave & 31st St	Bronx 138th St & 3rd Ave	Manhattan Central Park N. & Lenox	Brooklyn Berry St & North 11th St	Brooklyn Atlantic Ave & Smith St	Staten Island Bay St & Victory Blvd
Aluminum (Al)	0.07	0.12	0.15	0.17	0.05	0.07
Antimony (Sb)	0.22	<0.01	<0.01	<0.01	<0.01	<0.01
Arsenic (As)	0.06	0.06	<0.01	<0.01	0.06	<0.01
Barium (Ba)	0.02	0.01	0.02	0.01	0.01	0.01
Beryllium (Be)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cadmium (Cd)	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Calcium (Ca)	3.74	3.20	3.44	3.06	3.45	3.00
Chromium (Cr)	0.03	0.04	0.03	0.03	0.03	0.03
Copper (Cu)	0.11	0.04	0.02	0.02	0.01	0.01
Iron (Fe)	0.07	0.04	<0.01	0.11	<0.01	<0.01
Lead (Pb)	0.14	0.02	0.01	<0.01	<0.01	<0.01
Magnesium (Mg)	0.66	0.61	0.67	0.59	0.70	0.56
Manganese (Mn)	<0.01	0.01	0.01	0.01	<0.01	<0.01
Mercury (Hg)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Nickel (Ni)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Potassium (K)	0.40	0.40	0.36	0.28	0.34	0.35
Selenium (Se)	<0.01	0.11	0.06	0.01	0.02	<0.01
Silver (Ag)	0.21	0.08	0.03	0.01	<0.01	<0.01
Sodium (Na)	14.9	13.1	12.1	10.8	11.8	10.5
Thallium (Ti)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc (Zn)	<0.01	0.02	0.02	0.03	0.02	0.02

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Volatile Organic Compounds (VOC) Air Sampling Analysis Results

Collection Date: 9/21/01 • Units: ppb v/v

Contaminant	Queens Broadway Ave & 31st St	Bronx 138th St & 3rd Ave	Manhattan Central Park N. & Lenox	Brooklyn Berry St & North 11th St	Brooklyn Atlantic Ave & Smith St	Staten Island Bay St & Victory Blvd
Dichlorodifluoromethane	0.62	0.61	0.65	0.62	0.60	0.44
Chloromethane	0.30	0.32	1.19	ND	0.44	1.00
1,2-Dichlorotetrafluoroethane	ND	ND	ND	ND	ND	ND
Vinyl Chloride	ND	ND	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	0.56	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND
Methylene chloride	ND	ND	ND	ND	ND	ND
Freon 113	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND
Methyl-tert-butyl ether	1.16	8.00	3.44	2.05	1.01	0.55
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND
Chloroform	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND
Benzene	0.59	0.99	1.42	0.72	1.19	0.24
Carbon Tetrachloride	0.12	0.13	0.11	0.12	0.10	0.11
1,2-Dichloropropane	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	ND
1,1,2 Trichloroethane	ND	ND	ND	ND	ND	ND
Toluene	2.09	2.91	3.66	3.67	2.51	0.57
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND
Tetrachloroethene	ND	0.11	0.53	ND	0.17	0.15
Chlorobenzene	ND	ND	ND	ND	ND	ND

Volatile Organic Compounds (VOC) Air Sampling Analysis Results

Collection Date: 9/21/01 • Units: ppb v/v

Contaminant	Queens Broadway Ave & 31st St	Bronx 138th St & 3rd Ave	Manhattan Central Park N. & Lenox	Brooklyn Berry St & North 11th St	Brooklyn Atlantic Ave & Smith St	Staten Island Bay St & Victory Blvd
Ethylbenzene	0.31	0.36	0.74	0.46	0.25	0.08
m,p-Xylene	1.04	1.17	1.80	1.34	0.88	0.24
Styrene	0.11	0.10	0.10	0.09	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	ND
o-Xylene	0.40	0.42	0.62	0.46	0.31	0.09
1,3,5-Trimethylbenzene	0.19	0.15	0.22	0.16	0.12	ND
1,2,4-Trimethylbenzene	0.55	0.52	0.87	0.58	0.43	ND
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	0.28	0.18	ND	ND
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	0.27	ND	ND	ND	ND	ND
Hexachloro-1,3-Butadiene	ND	ND	ND	ND	ND	ND
Tentatively Identified Compounds						
2-Methyl butane	–	5.38	1.92	1.09	–	–
2-Methyl Pentane	–	1.23	–	–	–	–

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