

# New York State Department of Environmental Conservation

## Bureau of Air Quality Surveillance

### 2007 Acid Deposition Annual Report

Station: Niagara Falls CAM - Current  
 County: Niagara  
 Town: Niagara Falls  
 Location: Frontier Ave & 55th Street

Site #: 310225  
 AIRS #: 360632008  
 Locality: Urban, City Center  
 Zoning: Residential, Comm

Total Precipitation (Inches of Rain): 21.93  
 Valid Sample Precipitation: 19.89  
 Number of Visits: 51  
 Number of Valid Visits: 51  
 Number of Samples: 29  
 Number of Valid Samples: 29  
 Number of Visits With Precipitation Events: 43  
 Number of Valid Visits With Precipitation Events: 43  
 Number of Anion Analyses: 28  
 Number of Cation Analyses: 29

#### Official Sampler

Elevation: 176 meters

	Precipitation (Inches of Rain)	Lab pH	SO4 IPPM	NO3 IPPM	CL IPPM	F IPPM	NO2 IPPM	Br IPPM	HPO4 IPPM	Na IPPM	NH4 IPPM	K IPPM	Ca IPPM	Mg IPPM	Lab Conductivity Micro s/cm
<b>Maximum</b>	6.550	4.760	5.702	4.811	2.549	0.031	0.060	0.000	0.000	1.364	4.366	0.090	1.743	0.341	39.00
<b>Minimum</b>	4.260	4.830	0.782	0.634	0.161	0.000	0.000	0.000	0.000	0.014	0.080	0.000	0.061	0.008	7.01

#### Precipitation Weighted Mean

<b>1st Quarter</b>	5.72	4.76	1.826	1.654	0.736	0.000	0.000	0.000	0.000	0.416	0.361	0.013	0.545	0.078	16.47
<b>2nd Quarter</b>	3.92	4.69	3.099	1.833	0.436	0.000	0.008	0.000	0.000	0.224	1.061	0.028	0.651	0.125	23.20
<b>3rd Quarter</b>	3.78	5.25	2.407	1.955	0.295	0.007	0.020	0.000	0.000	0.046	1.097	0.020	0.456	0.089	13.23
<b>4th Quarter</b>	8.51	4.83	1.795	1.605	0.295	0.001	0.009	0.000	0.000	0.123	0.543	0.013	0.309	0.050	14.08
<b>Annual</b>	21.93	4.83	2.086	1.697	0.447	0.001	0.008	0.000	0.000	0.206	0.665	0.017	0.451	0.076	15.99

#### Total Deposition

	H+	SO4	NO3	CL	F	NO2	Br	HPO4	Na	NH4	K	Ca	Mg
	mg/m2	mg/m2	mg/m2	mg/m2	mg/m2	mg/m2	mg/m2	mg/m2	mg/m2	mg/m2	mg/m2	mg/m2	mg/m2
<b>1st Quarter</b>	2.563	265.228	240.297	106.926	0.000	0.000	0.000	0.000	60.459	52.495	1.948	79.235	11.261
<b>2nd Quarter</b>	2.068	308.572	182.537	43.434	0.000	0.829	0.000	0.000	22.333	105.608	2.770	64.822	12.491
<b>3rd Quarter</b>	0.540								4.385	105.346	1.961	43.794	8.505
<b>4th Quarter</b>	3.220	387.979	346.984	63.777	0.310	2.015	0.000	0.000	26.574	117.395	2.868	66.856	10.849
<b>Annual</b>	8.391	1192.898	957.523	242.434	0.966	4.775	0.000	0.000	113.751	380.843	9.547	254.708	43.106