

# New York State Department of Environmental Conservation

## Bureau of Air Quality Surveillance

### 2006 Acid Deposition Annual Report

Station: Grafton Lakes Primary  
 County: Rensselaer  
 Town: Grafton  
 Location: Grafton Lakes State Park  
 Long Pond Road  
 telem#518-279-9591  
 Elevation: 477 meters

Site #: 415304  
 AIRS #: 360830004  
 Locality: Rural, Recreational  
 Zoning:

#### Primary Sampler

Total Precipitation (Inches of Rain): 49.54  
 Valid Sample Precipitation: 47.21  
 Number of Visits: 52  
 Number of Valid Visits: 52  
 Number of Samples: 45  
 Number of Valid Samples: 45  
 Number of Visits With Precipitation Events: 47  
 Number of Valid Visits With Precipitation Events: 47  
 Number of Anion Analyses: 40  
 Number of Cation Analyses: 37  
 Number of Conductivity Analyses: 42  
 Number of pH Analyses: 43

	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>		5.71	5.202	5.783	1.035	0.000	0.000	0.000	0.000	0.385	1.028	0.084	0.841	0.075	40.50
<b>Minimum</b>		4.10	0.134	0.106	0.000	0.000	0.000	0.000	0.000	0.000	0.023	0.000	0.000	0.000	2.39

#### Precipitation Weighted Mean

<b>1st Quarter</b>	11.00	4.92	1.046	0.907	0.200	0.000	0.000	0.000	0.000	0.134	0.206	0.014	0.081	0.017	11.69
<b>2nd Quarter</b>	16.34	4.81	1.135	0.670	0.043	0.000	0.000	0.000	0.000	0.041	0.246	0.011	0.030	0.010	8.42
<b>3rd Quarter</b>	11.70	4.55	1.358	1.067	0.047	0.000	0.000	0.000	0.000	0.012	0.302	0.005	0.063	0.005	14.08
<b>4th Quarter</b>	10.50	4.86	0.538	0.472	0.052	0.000	0.000	0.000	0.000	0.025	0.090	0.005	0.030	0.006	6.53
<b>Annual</b>	49.54	4.75	1.029	0.758	0.077	0.000	0.000	0.000	0.000	0.047	0.213	0.008	0.051	0.009	10.09

#### 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>	3.414	292.139	253.340	55.916	0.000	0.000	0.000	0.000					
<b>2nd Quarter</b>	6.482	471.022	277.880	17.877	0.000	0.000	0.000	0.000					
<b>3rd Quarter</b>	8.417	403.644	317.237	13.872	0.000	0.000	0.000	0.000	3.584	89.847	1.475	18.826	1.460
<b>4th Quarter</b>	3.718	143.518	126.002	13.909	0.000	0.000	0.000	0.000	6.786	23.944	1.357	8.117	1.552
<b>Annual</b>	22.031	1,310.323	974.458	101.573	0.000	0.000	0.000	0.000	64.755	273.677	11.244	61.926	11.795

NOTE: DEPOSITION SHOWN MEETS 1) FOR QUARTERS, A MINIMUM OF 75% DATA CAPTURE AND  
 2) FOR ANNUAL, A MINIMUM OF 75% DATA CAPTURE WITH EACH QUARTER >50% DATA CAPTURE  
 DATA CAPTURE = VALID SAMPLES WITH VALID PRECIPITATION FOR THE PERIOD / TOTAL PRECIPITATION FOR PERIOD