



Water-Data Report 2008

482709092264601 NAMAKAN LAKE AT MOUTH OF NAMAKAN RIVER, ONTARIO

Rainy Basin
Rainy Lake Subbasin

LOCATION.--Lat 48°27'09", long 92°26'46" referenced to North American Datum of 1927, Hydrologic Unit is unknown.

WATER-QUALITY RECORDS

REMARKS.--This site is part of a nutrient cycling study in Kabetogama Lake, Voyageurs National Park. Objectives of this study are to determine if the changes in Kabetogama Lake water levels since a change in rules governing dam operation (2000 rule curves) are affecting algal production (chlorophyll-a) and nutrient enrichment (total phosphorus) in the lake. Another objective is to assess nutrient loading to the lake from inflow sources and the potential contribution of nutrients from lake bottom sediment.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 2

[Remark codes: <, less than; E, estimated.]

Date	Time	Sample medium and type	Sampling depth, feet (00003)	Transparency water in situ Secchi disc feet (49701)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd std units (00400)	Specific conductance, wat unfltrd 25 degC μS/cm (00095)	Temperature, air, deg C (00020)
May 15...	0959	Surface water, regular	--	--	735	13.6	7.2	43	18.0
Aug 04...	1042	Surface water, regular	--	--	--	8.6	8.0	44	--
Sep 09...	1011	Surface water, regular	.10	9.2	--	8.9	7.2	43	--

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 2 of 2

[Remark codes: <, less than; E, estimated.]

Date	Temperature, water, deg C (00010)	Alkalinity, wat flt inf tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt infl pt titr., field, mg/L (00453)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia water, unfltrd, mg/L (71845)	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Total nitrogen, wat unfltrd by analysis, mg/L (62855)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, unfltrd, mg/L as P (00665)	Chlorophyll a phytoplankton, acid m, μg/L (32211)
May 15...	5.3	13	15	<.020	--	.11	<.002	.50	E.003	.014	--
Aug 04...	21.9	11.6	14.2	--	.02	.029	--	.37	.002	.010	.900
Sep 09...	18.5	15	--	--	.01	.021	--	.36	.003	.010	2.18