



Water-Data Report 2009

05129287 DALEY BROOK at County Road 129 near KABETOGAMA, MN

Rainy Basin
Rainy Lake Subbasin

LOCATION.--Lat 48°23'27", long 92°57'54" referenced to North American Datum of 1927, St. Louis County, MN, Hydrologic Unit 09030003.

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 2008 TO SEPTEMBER 2009**

Part 1 of 2

Date	Time	Medium name	Dis-solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif-ic conduc-tance, wat unf 25 degC μS/cm @ (00095)	Temper-ature, water, deg C (00010)	Sam-pling depth, feet (00003)	Alka-linity, wat flt inf tit mg/L as CaCO3 (39086)	Bicar-bonate, wat flt infl pt titr., mg/L (00453)	Amm-onia water, unfltrd mg/L (71845)
May										
12...	1120	Surface water	6.2	7.5	221	10.2	--	--	--	--
12...	1122	Surface water	6.2	7.5	222	10.3	--	--	--	--
12...	1613	Surface water	6.2	7.5	222	10.3	--	--	--	.02
Aug										
04...	1500	Surface water	5.4	7.0	356	16.4	.50	168	204	.02

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Part 2 of 2

Date	Nitrate + nitrite water, fltrd, mg/L as N (00631)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, fltrd, mg/L as P (00666)	Phos-phorus, water, unfltrd mg/L as P (00665)	Total nitro-gen, wat unf by anal ysis, mg/L (62855)	Chloro-phyll a phyto-plank-ton, acid m, μg/L (32211)
May						
12...	--	--	--	--	--	--
12...	--	--	--	--	--	--
12...	.019	.004	.010	.020	.44	--
Aug						
04...	.001	.013	.006	.022	.77	1.10