

0208717595 FALLS LAKE AT MILE MARKER 1 NEAR FALLS, NC

LOCATION.--Lat 35°57'19", long 78°35'02", Wake County, Hydrologic Unit 03020201, at mile marker 1, 1.3 mi north of Falls.

PERIOD OF RECORD.--Water years 2005.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. Samples for nutrient and chlorophyll *a* and *b* analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Color, water, fltrd, Pt-Co units (00080)	Sam-pling depth, meters (00098)	Trans-parency Secchi disc, meters (00078)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unfltrd 25 degC (00095)	Temper-ature, water, deg C (00010)	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
AUG													
02...	1045	9	10	1.0	1.55	758	6.1	81	7.3	105	29.6	25	5.36
02...	1046	R	--	1.0	1.55	758	6.1	81	7.3	105	29.6	--	--
02...	1047	R	--	1.0	1.55	758	6.1	81	7.3	105	29.6	--	--
02...	1048	R	--	1.0	1.55	758	6.1	81	7.3	105	29.6	--	--
02...	1049	R	--	1.0	1.55	758	6.1	81	7.3	105	29.6	--	--
02...	1050	9	--	4.0	--	758	5.8	76	7.2	106	29.3	--	--
02...	1055	9	--	9.0	--	758	.1	1	6.5	144	20.5	--	--

Date	Magnesium, water, fltrd, mg/L (00925)	Potas-sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unfltrd, titr., mg/L as CaCO3 (00419)	Bicar-bonate, wat unfltrd, titr., mg/L (00450)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water, fltrd, mg/L as N (00631)
AUG													
02...	2.84	2.21	7.55	20	24	8.01	E.1	4.94	7.3	68	.39	<.010	<.016
02...	--	--	--	20	--	--	--	--	--	--	--	--	--
02...	--	--	--	20	--	--	--	--	--	--	--	--	--
02...	--	--	--	20	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	.43	E.008	<.016
02...	--	--	--	--	--	--	--	--	--	--	.54	.037	<.016

Date	Nitrite water, fltrd, mg/L as N (00613)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, unfltrd mg/L (00665)	Organic carbon, water, unfltrd mg/L (00680)	Chloro-phyll a phyto-plank- ton, fluoro, ug/L (70953)	Chloro-phyll b phyto-plank- ton, fluoro, ug/L (70954)	Iron, water, unfltrd recover-able, ug/L (01045)	Mangan-ese, water, unfltrd recover-able, ug/L (01055)
AUG								
02...	E.001	<.006	.016	6.4	5.5	<.1	40	43.9
02...	--	--	--	--	7.8	<.1	--	--
02...	--	--	--	--	5.3	<.1	--	--
02...	--	--	--	--	2.6	<.1	--	--
02...	--	--	--	--	6.0	<.1	--	--
02...	<.002	<.006	.020	--	--	--	90	49.7
02...	.002	<.006	.027	--	--	--	2,400	1,740

Remark codes used in this table:  
 < -- Less than.  
 E -- Estimated.

Medium codes used in this table:  
 9 -- Surface water sample.  
 R -- Quality-control sample, surface water.

