

Fish Lake

The mean phosphorus concentration for Fish Lake was 47.3 µg/L in 2001. Total phosphorus is the limiting nutrient that results in algal blooms and excessive plant growth when found in higher concentrations. Fish Lake has been sampled since 1980. The long-term phosphorus mean is 49.0 µg/L with a 5-year mean of 50.8 µg/L. Since the watershed is almost completely developed, the pollutant loading has probably not changed substantially. The Commission has a goal of 35 µg/L for Category I lakes. Fish Lake has not met its phosphorus goal 16 of 19 years. Some efforts have been made to reduce pollutant loading to the lake through retrofitting of detention basins and lakeshore restoration. Chlorophyll a is a measure of the pigment in algae and, therefore, indicates algal amounts. The mean chlorophyll a concentration for 2001 in Fish Lake was 57.9 µg/L. The average Secchi Disk Transparency for Fish Lake was 2.2 meters (7.2 feet) in 2001. The total nitrogen average for 2001 was 1.11 mg t. Sampling data for Fish Lake can be found in Appendix 5.

Sample ID	Sample Date	Secchi m	Temp °C	DO mg/L	Cond mS/cm	pH	TP µg/L	TN mg/L	Chl a µg/L	Alkalinity mg/L
FISH	4/27/01	1.80	10.20	11.2	.310		102.64	1.68	8.99	
FISH	5/15/01	1.25	18.62	14.0	.418	8.29	60.82	1.05	16.02	129.0
FISH	5/29/01	6.25					40.65	1.10	7.22	
FISH	6/11/01	2.70	22.73	14.1	.413	8.18	40.92	1.00	20.98	110.0
FISH	6/26/01	1.90	24.82	12.1	.361	8.45	49.38	1.10	24.13	
FISH	7/10/01	1.88	26.64	8.8	.392	8.21	32.11	1.10	6.75	
FISH	7/23/01	1.85	29.48	8.8	.371	8.47	43.33	1.01	10.59	
FISH	8/7/01	1.18	31.11	9.2	.407	8.37	28.26	1.20	27.23	
FISH	8/21/01	1.10					29.92	1.05		
FISH	9/11/01	1.35	21.48	8.6	.404		29.00	1.11	17.12	202.0
FISH	10/2/01	3.23	17.72	10.9	.415	8.29	53.00	1.16	14.13	80.8
FISH	10/22/01	2.12	11.18	11.6	.413	8.42	57.30	.76	24.84	101.0
	Mean	2.22		10.92	.39	8.34	47.28	1.11	16.18	124.56
	Std. Dev.	1.42		2.08	0.03	0.11	20.70	0.21	7.35	46.63
	Summer Mean(June- Sept)	1.71		10.25	.39	8.34	36.13	1.08	17.80	156.00

