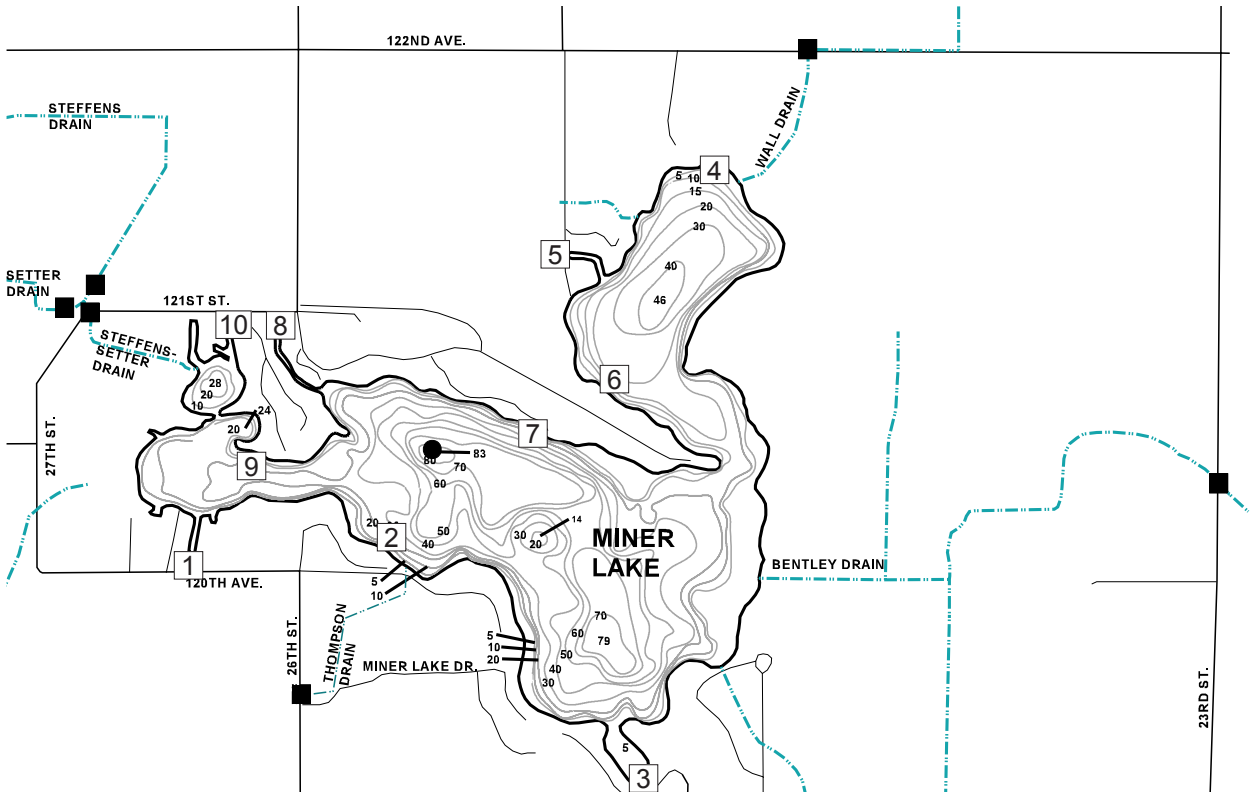


**TABLE 1  
LAKE CLASSIFICATION CRITERIA**

Lake Classification	Total Phosphorus ( $\mu\text{g/L}$ ) <sup>1</sup>	Chlorophyll-a ( $\mu\text{g/L}$ ) <sup>1</sup>	Secchi Transparency (feet)
Oligotrophic	Less than 10	Less than 2.2	Greater than 15.0
Mesotrophic	10 to 20	2.2 to 6.0	7.5 to 15.0
Eutrophic	Greater than 20	Greater than 6.0	Less than 7.5



- = Deep-basin Sampling Locations
- = Tributary Sampling Locations
- 1 = Bacteriological Sampling Locations

**Figure 1. Miner Lake sampling location map.**

<sup>1</sup>  $\mu\text{g/L}$  = micrograms per liter = parts per billion.

**TABLE 2**  
**MINER LAKE 2013 DEEP BASIN WATER QUALITY DATA**

Date	Sample Depth (feet)	Temperature (°F)	Dissolved Oxygen (mg/L) <sup>1</sup>	Total Phosphorus (µg/L) <sup>2</sup>	pH (S.U.) <sup>3</sup>	Total Alkalinity (mg/L as CaCO <sub>3</sub> ) <sup>4</sup>
26-Apr-13	1	45	7.9	14	8.4	172
26-Apr-13	10	45	9.8	17	8.4	171
26-Apr-13	20	45	11.2	10	8.4	169
26-Apr-13	30	45	10.6	19	8.4	167
26-Apr-13	40	45	9.9	13	8.4	169
26-Apr-13	50	44	8.8	15	8.3	171
26-Apr-13	60	44	10.3	13	8.4	175
26-Apr-13	70	44	10.7	15	8.4	174
26-Apr-13	80	44	9.7	86	8.3	175
22-Aug-13	1	77	10.2	<5	9.3	150
22-Aug-13	10	74	10.8	<5	9.2	153
22-Aug-13	20	56	1.2	7	7.9	177
22-Aug-13	30	48	2.0	<5	8.1	175
22-Aug-13	40	46	2.2	<5	7.9	174
22-Aug-13	50	45	0.8	6	7.9	176
22-Aug-13	60	45	0.5	41	7.9	181
22-Aug-13	70	44	0.4	139	8.0	186
22-Aug-13	80	44	0.9	151	8.1	184

**TABLE 3**  
**MINER LAKE 2013 SURFACE WATER QUALITY DATA**

Date	Secchi Transparency (feet)	Chlorophyll-a (µg/L) <sup>2</sup>
26-Apr-13	6.0	2
22-Aug-13	6.0	0

<sup>1</sup> mg/L = milligrams per liter = parts per million.

<sup>2</sup> µg/L = micrograms per liter

<sup>3</sup> S.U. = standard units

<sup>4</sup> mg/L as CaCO<sub>3</sub> = milligrams per liter as calcium carbonate.

**TABLE 4  
MINER LAKE 2013 SHORELINE WATER QUALITY DATA**

Date	Sampling Site Number	<i>E. coli</i> Count/100mL <sup>1</sup>
22-Aug-13	1	2
22-Aug-13	2	5
22-Aug-13	3	<1
22-Aug-13	4	2
22-Aug-13	5	14
22-Aug-13	6	8
22-Aug-13	7	43
22-Aug-13	8	8
22-Aug-13	9	345
22-Aug-13	10	1,300

**TABLE 5  
MINER LAKE SUMMARY STATISTICS, 1996-2013**

	Total Phosphorus (µg/L) <sup>2</sup>	Secchi Transparency (feet)	Chlorophyll-a (µg/L) <sup>2</sup>
Average	50	8.9	2.2
Standard Deviation	83	1.9	2.4
Median	26	8.5	1.3
Minimum	5	6.0	0.0
Maximum	869	13.0	8.2
Number of Samples	188	20	22

**TABLE 6  
MINER LAKE 2013 TRIBUTARY WATER QUALITY DATA**

Date	Stream	Discharge (cfs) <sup>3</sup>	Total Phosphorus (µg/L) <sup>2</sup>
26-Apr-13	Steffens-Setter Drain	2.5	20
26-Apr-13	Wall Drain	0.5	7
26-Apr-13	Bentley Drain	1.8	21
26-Apr-13	Thompson Drain	0.1	153
22-Aug-13	Steffens-Setter Drain	0.4	<5
22-Aug-13	Wall Drain	0.3	24
22-Aug-13	Bentley Drain	0.3	9
22-Aug-13	Thompson Drain	0.0	258

<sup>1</sup> mL = milliliters

<sup>2</sup> µg/L = micrograms per liter

<sup>3</sup> cfs = cubic feet per second

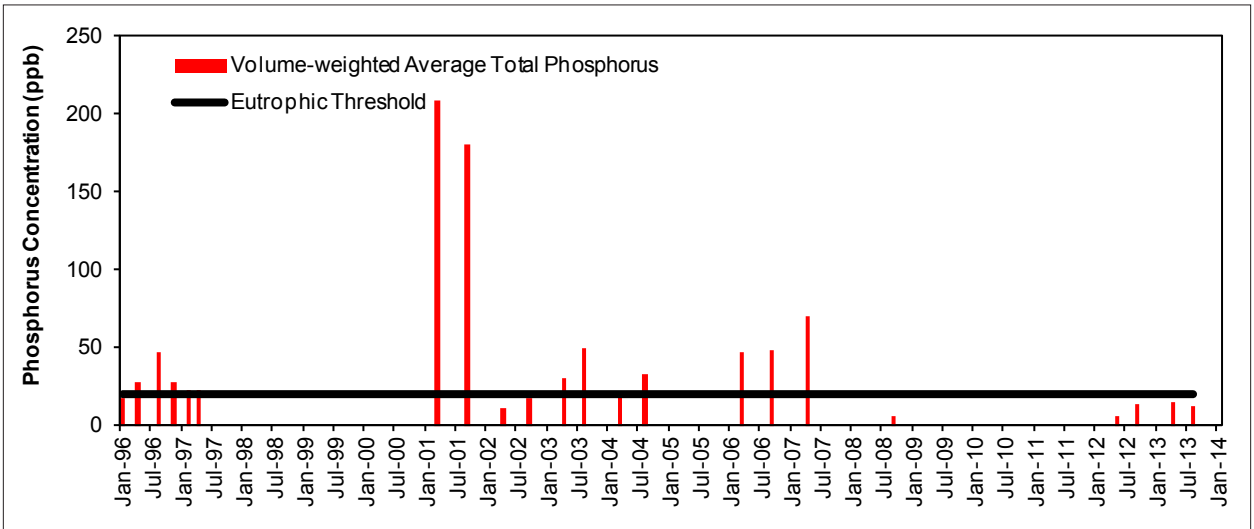


Figure 2. Volume-weighted average total phosphorus concentrations, 1996 - 2013.

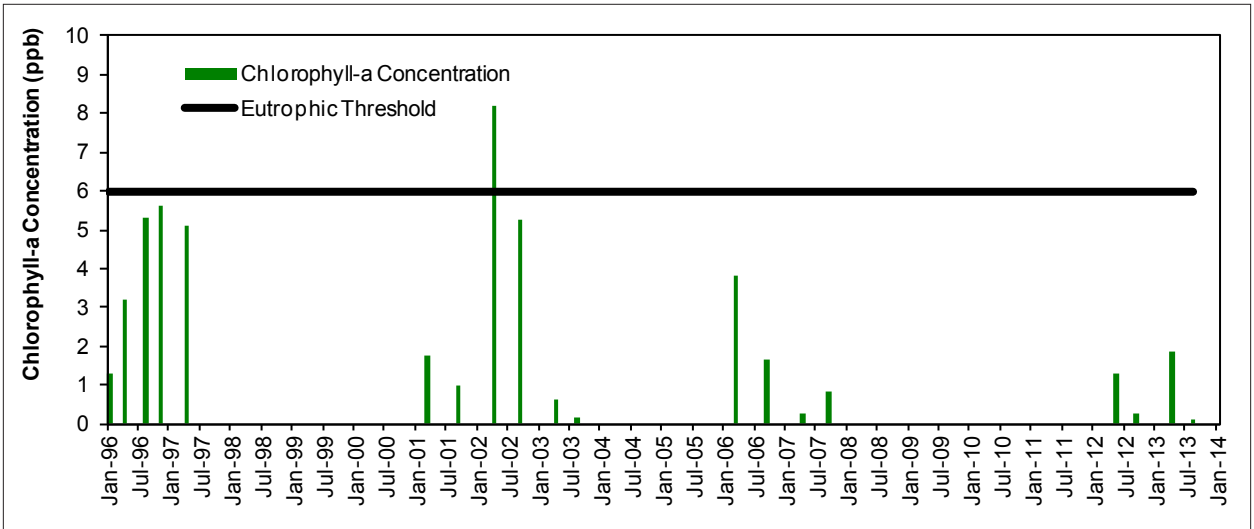


Figure 3. Chlorophyll-a concentrations, 1996 - 2013.

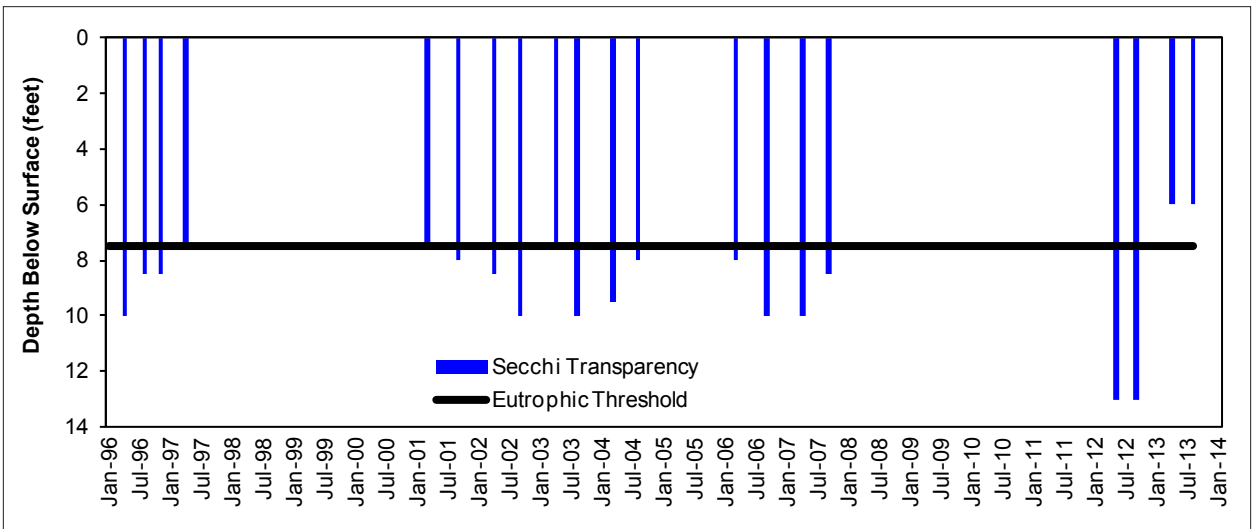


Figure 4. Secchi transparency measurements, 1996 - 2013.

**TABLE 7**  
**MINER LAKE 2012 AND 2013 AQUATIC PLANT SURVEY RESULTS**

Common Name	Scientific Name	Plant Type	Number of Survey Sites Where Plants Were Found	
			9/5/2012	8/22/2013
Wild celery	<i>Vallisneria americana</i>	Submersed	75	65
Eurasian milfoil	<i>Myriophyllum spicatum</i>	Submersed	78	60
Muskgrass	<i>Chara sp.</i>	Submersed	77	42
Illinois pondweed	<i>Potamogeton illinoensis</i>	Submersed	31	37
Thinleaf pondweed	<i>Potamogeton sp.</i>	Submersed	37	29
Coontail	<i>Ceratophyllum demersum</i>	Submersed	15	36
Water stargrass	<i>Heteranthera dubia</i>	Submersed	21	13
Starry stonewort	<i>Nitellopsis obtusa</i>	Submersed	7	19
Large leaf pondweed	<i>Potamogeton amplifolius</i>	Submersed	12	11
Naiad	<i>Najas sp.</i>	Submersed	3	11
Curly leaf pondweed	<i>Potamogeton crispus</i>	Submersed	6	0
Flatstem pondweed	<i>Potamogeton zosteriformis</i>	Submersed	2	4
Bladderwort-mini	<i>Utricularia sp.</i>	Submersed	2	2
American pondweed	<i>Potamogeton nodosus</i>	Submersed	0	3
Floating leaf pondweed	<i>Potamogeton natans</i>	Submersed	1	0
Northern milfoil	<i>Myriophyllum sibiricum</i>	Submersed	1	0
Waterweed	<i>Elodea canadensis</i>	Submersed	1	0
Duckweed	<i>Lemna minor</i>	Free-floating	0	1
White water lily	<i>Nymphaea odorata</i>	Floating-leaved	27	42
Yellow pond lily	<i>Nuphar sp.</i>	Floating-leaved	36	29
Bulrushes	<i>Scirpus sp.</i>	Emergent	59	58
Cattails	<i>Typha sp.</i>	Emergent	34	39
Swamp loosestrife	<i>Decodon verticillatus</i>	Emergent	18	16
Jewel weed	<i>Impatiens capensis</i>	Emergent	18	1