

# Cameron City Reservoir #3

Cameron City Reservoir #3 provides drinking water for the City of Cameron. There are two other reservoirs in close proximity (reservoirs #1 and #2). Lake construction was completed in 1961, making this the newest of the three reservoirs. This 93-acre lake has a very large watershed of 3300 acres.



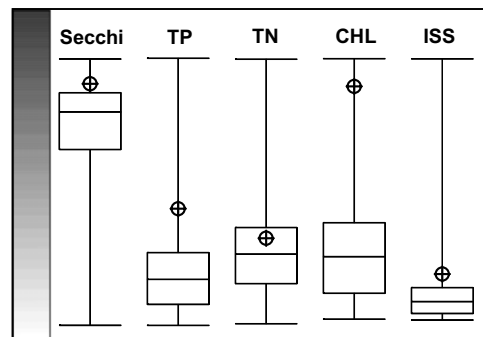
Location of Cameron City Reservoir #3

## Descriptive statistics for Cameron City Reservoir #3 – 2005

	Secchi (inches)	TP (ug/L)	TN (ug/L)	CHL (ug/L)	ISS (mg/L)
<b>Geometric Mean</b>	21	91	846	50.2	6.8
<b>Minimum</b>	20	71	520	29.9	3.8
<b>Maximum</b>	23	121	1320	104.6	13.7
<b>Number of Samples</b>	4	4	4	4	3

Mean 2005 phosphorus, chlorophyll, and ISS concentrations are higher in Cameron #3 than observed in 75% of Missouri lakes. Likewise, clarity in Cameron #3 is lower than found in 75% of Missouri lakes.

### Relative Rank for Cameron City Reservoir #3

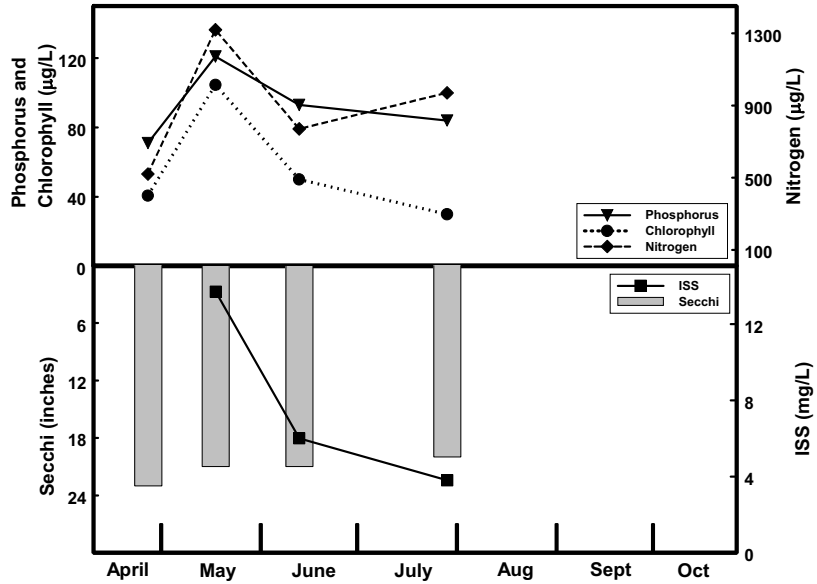


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## Seasonal fluctuations of parameters for Cameron City Reservoir #3 – 2005

Only four samples were collected in 2005, all from the first half of the sampling season. This limits our ability to describe seasonal patterns.

Secchi transparency varied by only three inches, due to the high levels of algal biomass during the abbreviated sample season.



## CHL and ISS trends in Cameron City Reservoir #3

Chlorophyll concentrations were higher in 2005 than observed in 2004. The lower concentrations of suspended sediments observed in 2005 would have allowed more light to penetrate the water column, stimulating algae growth.

