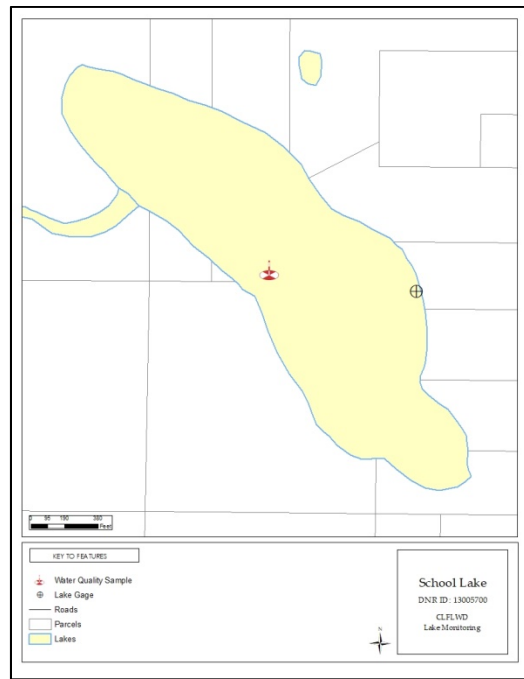


School Lake

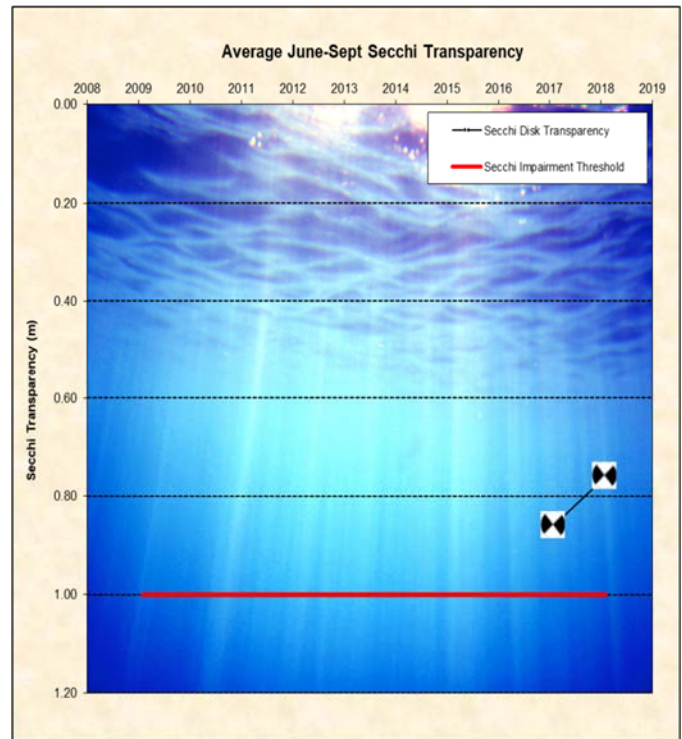
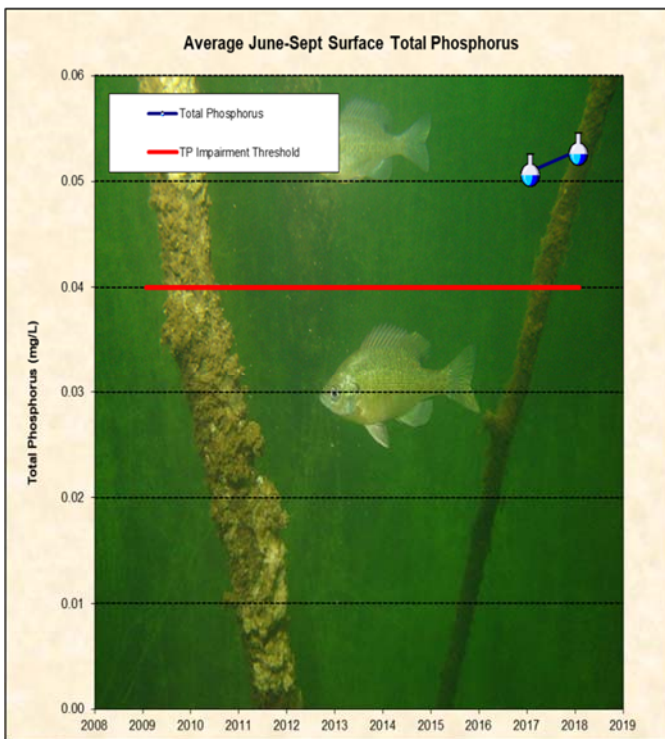
2018 Lake Grade: C-

- DNR ID #: 13005700
 - Municipality: City of Wyoming
 - Location: SE^{1/4} Section 35 T33N-R21W
 - Lake Size: 49 acres
 - Maximum Depth (2018): 24 ft.
 - Ordinary High Water Mark: 891.6 ft.
 - 66% Littoral
- Note: Littoral area is the portion of the lake <15 ft. and dominated by aquatic vegetation.



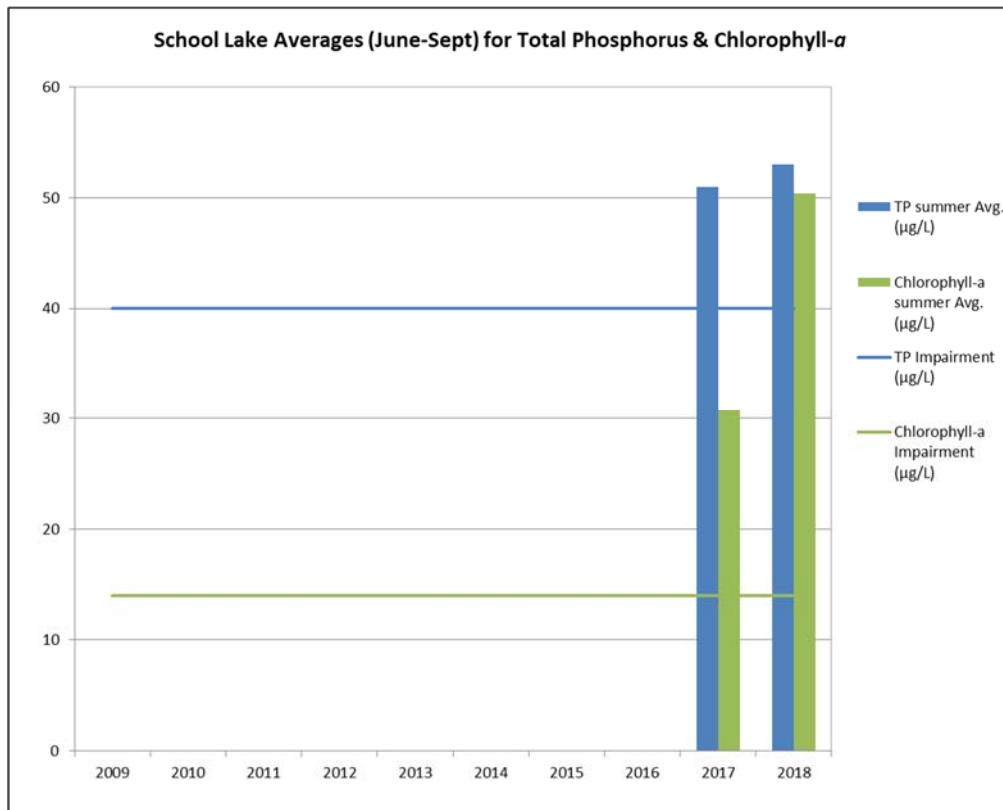
Summary Points

- Based on the chlorophyll-*a* results School Lake was considered eutrophic in 2018, according to the Carlson Trophic State Index.
- There are an insufficient number of years of data to determine long term water quality trends at this time.
- The major land use is rural/agricultural.
- The lake stratified in 2018 with the thermocline varying between 3 and 4 meters.
- School Lake is listed as impaired for nutrients on the Minnesota Pollution Control Agency's Impaired Waters List.
- Curly-leaf pondweed (an invasive aquatic plant) is present in this lake.



Date/Time	Total Phosphorus (mg/L)	Uncorrected Trichromatic Chlorophyll-a (µg/L)	Pheophytin-Corrected Chlorophyll-a (µg/L)	Total Kjeldahl Nitrogen (mg/L)	Secchi Disk Depth (m)	Surface Temperature (Celsius)	Surface Dissolved Oxygen (mg/L)
5/14/2018 11:30	0.040	11.0	9.1	0.80	0.91	17.6	10.91
5/30/2018 9:43	0.039	12.0	12.0	0.85	1.98	24.0	7.51
6/12/2018 14:24	0.038	17.0	46.0	0.88	1.22	22.4	8.45
6/25/2018 10:55	0.040	23.0	22.0	0.96	0.91	24.7	8.52
7/9/2018 10:54	0.049	46.0	44.0	1.30	0.61	27.1	8.70
7/23/2018 11:40	0.125	73.0	69.0	1.90	0.30	26.1	12.64
8/6/2018 13:33	0.062	75.0	75.0	1.80	0.46	24.3	10.33
8/20/2018 10:20	0.056	56.0	54.0	1.80	0.46	25.3	10.49
9/5/2018 12:07	0.004	50.0	47.0	1.20	1.22	22.0	8.27
9/17/2018 9:57	0.048	49.0	46.0	1.20	0.91	24.3	9.06
10/1/2018 11:24	0.050	40.0	40.0	1.20	0.91	12.9	4.12
10/16/2018 11:40	0.055	30.0	27.0	1.50	1.22	8.1	8.63
2018 Average	0.051	40.2	40.9	1.28	0.93	21.6	8.97
2018 Summer Average	0.053	48.6	50.4	1.38	0.76	24.5	9.56
Water quality thresholds are 0.04 mg/L TP, 14 µg/L CL-a, 1.4 m Secchi depth*							
Shallow lake water quality thresholds are 0.06 mg/L TP, 20 µg/L CL-a, 1.0 m Secchi depth*							
	High	High Date	Low	Low Date	Average		
2018 Elevation (ft)	891.90	5/30/2018	890.80	9/17/2018	891.22		

*Data requirements and determinations of use assessment according to the MPCA's Guidance Manual for Assessing the Quality of Minnesota Surface Waters: "Samples must be collected over a minimum of 2 years and data used for assessments must be collected from June to September. Typically, a minimum of 8 individual data points for TP, corrected chlorophyll-a (chl-a corrected for pheophytin), and Secchi are required. Data used for phosphorus and chlorophyll-a calculations are limited to those collected from the upper most 3 meters of the water column (surface). If more than one sample is collected in a lake per day, these values are averaged to yield a daily average value. Following this step, all June to September data for the 10-year assessment window are averaged to determine summer-mean values for TP, corrected chl-a, and Secchi depth. These values are then compared to the standards and the assessment is made."



Lake Water Quality Summary										
	Lake Grades (May-Sept)									
	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009
Total Phosphorus (mg/L)	C	C	NA	NA	NA	NA	NA	NA	NA	NA
Chlorophyll-a (µg/L)	C	C	NA	NA	NA	NA	NA	NA	NA	NA
Secchi depth (ft)	D	D	NA	NA	NA	NA	NA	NA	NA	NA
Overall	C-	C-	NA	NA	NA	NA	NA	NA	NA	NA

School Lake Water Surface Elevation Statistics

Ordinary High Water Level (OHW) Elevation: 891.6 ft.

100 Year Flood Elevation (CLFLWD): 891.1 ft.

Highest Recorded Elevation: 892.14 ft. (06/01/2017)

Lowest Recorded Elevation: 890.80 ft. (09/17/2018)

Datum: NGVD 29 (ft.)

