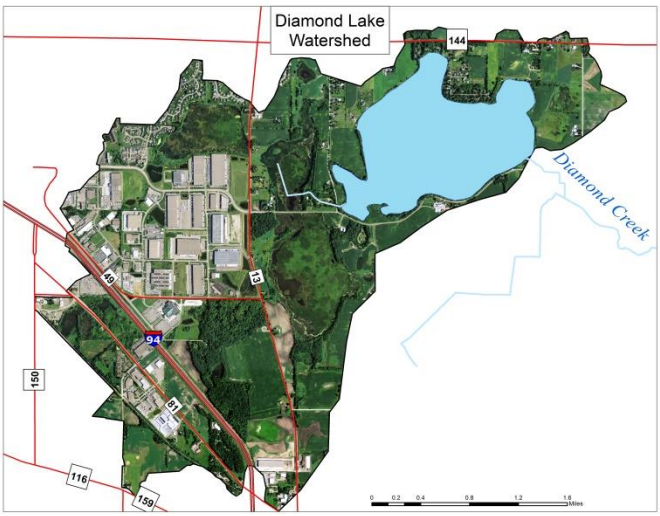
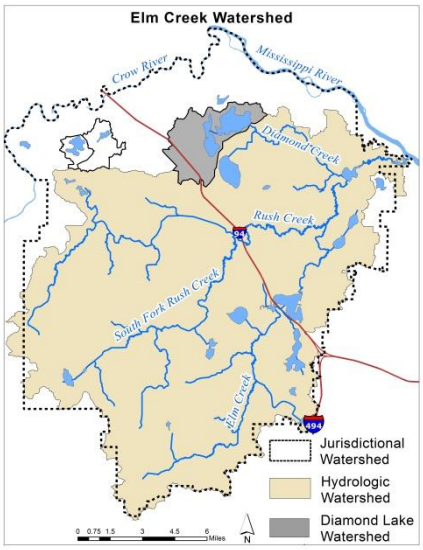
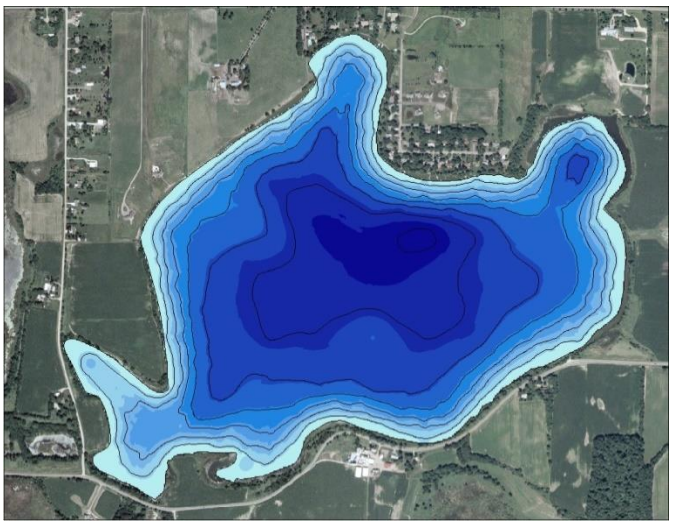
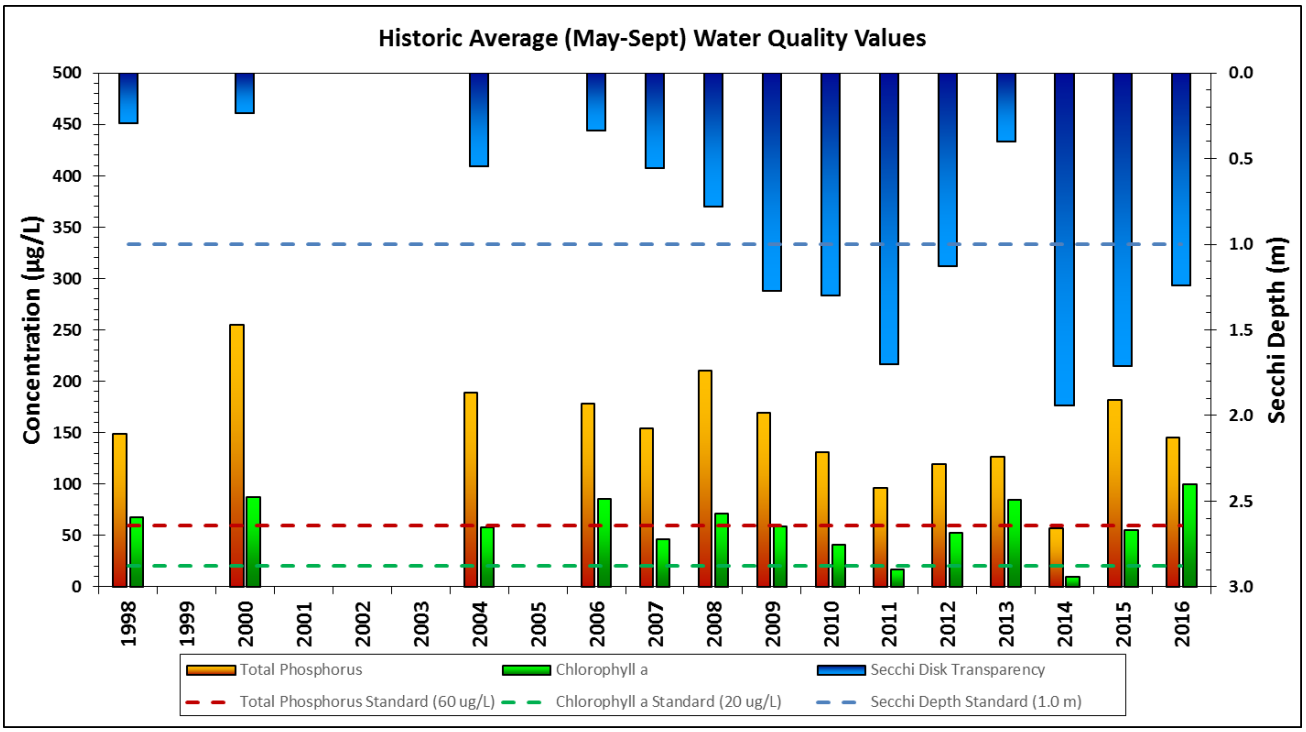
Diamond Lake





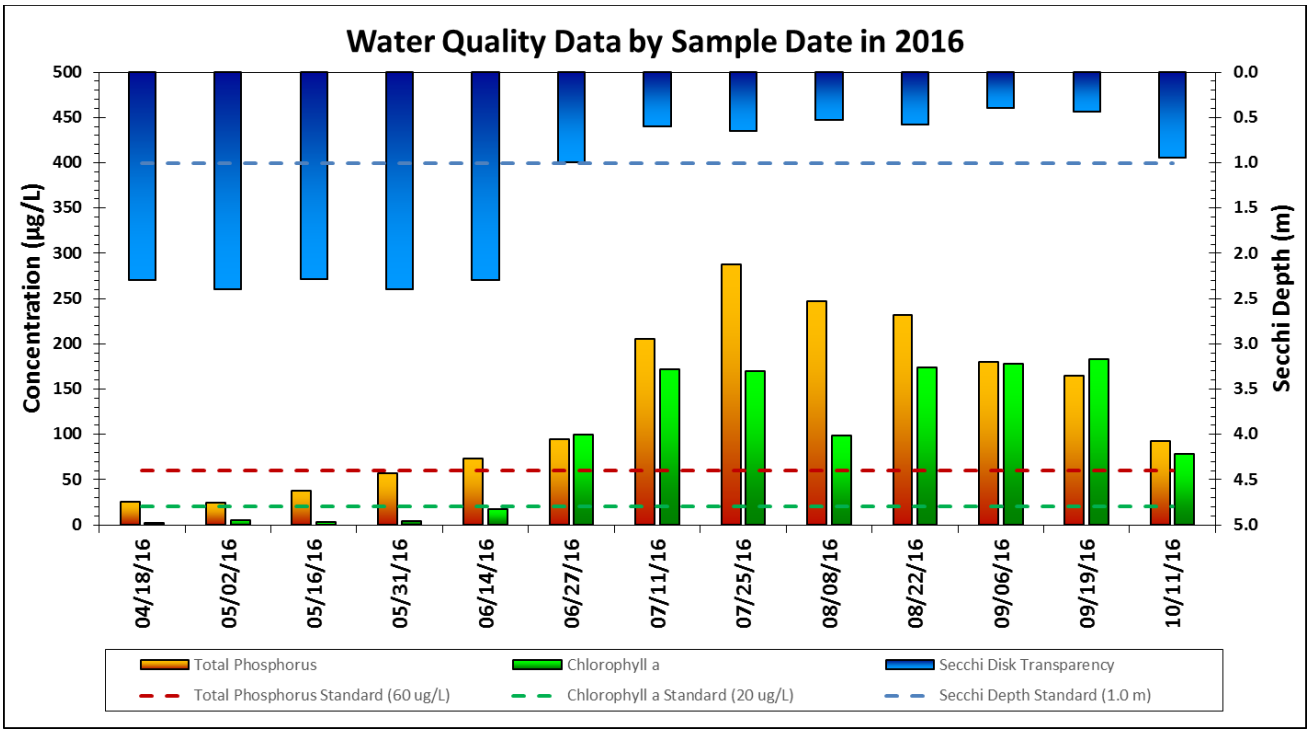


Lake and Watershed Characteristics	
DNR #	27012500
Watershed Area	2366.6 Acres
Lake Area	381.8 Acres
% Littoral Area	100%
Average Depth	3.97 ft
Maximum Depth	7.37 ft
Watershed/Lake Area Ratio	6.2 to 1
Hydraulic Residence Time	0.72 Years
Impairment	Excessive Nutrients 2006
Classification	Shallow Lake

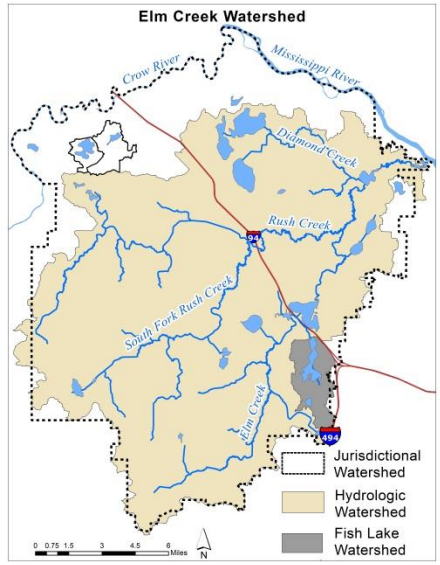


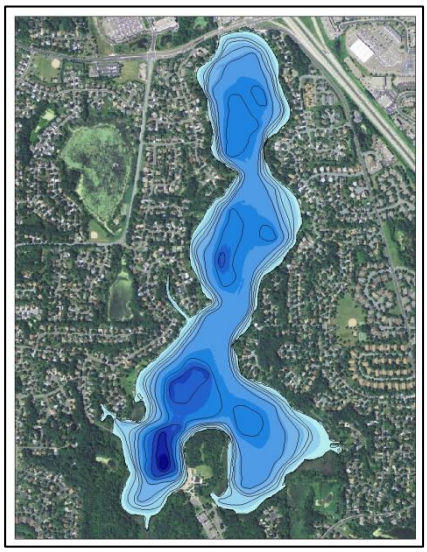
Diamond Lake Water Quality Report Card				
Year	**TP**	**Chl-a**	**Secchi**	**Avg Grade**
1998	D	D	F	D-
1999				
2000	F	F	F	F
2001				
2002				
2003				
2004	F	D	F	F
2005				
2006	F	F	F	F
2007	F	C	F	D-
2008	F	D	D	D-
2009	F	D	C	D
2010	D	C	C	C-
2011	D	B	C	C
2012	D	D	D	D
2013	D	F	F	F
2014	C	B	C	C+
2015	F	D	C	D
2016	D	F	C	D
MPCA Standard	C	C	D	C

Metropolitan Council Grading System (Osgood 1989)

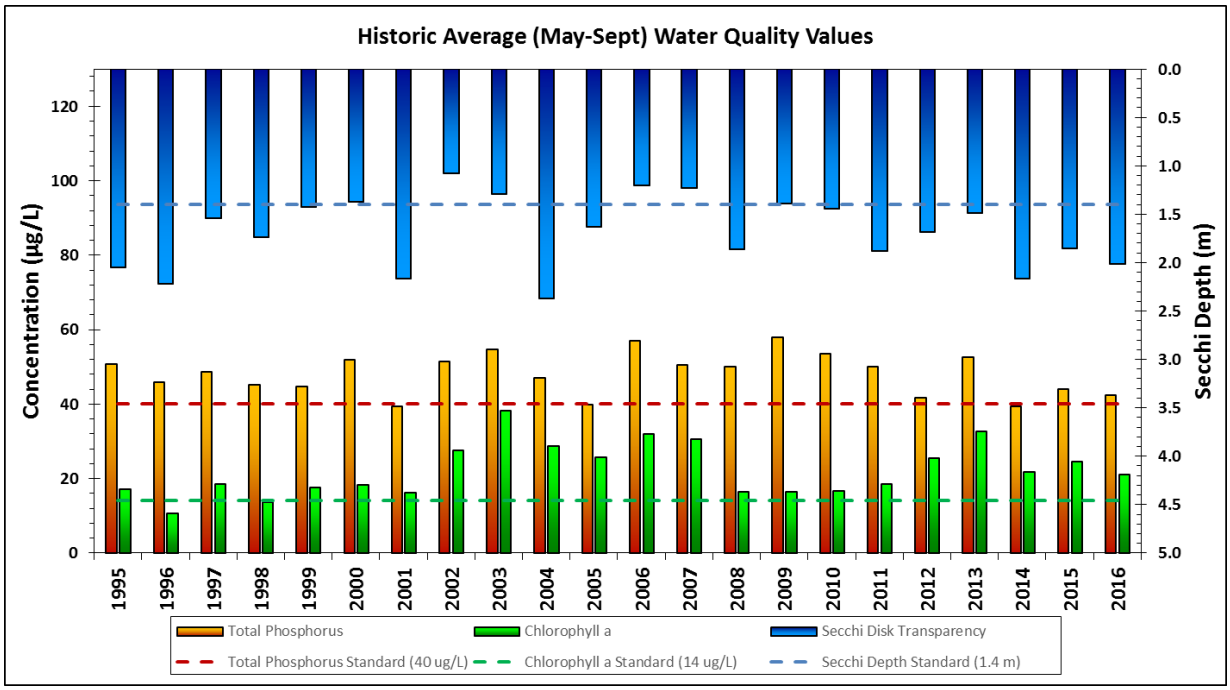


Fish Lake



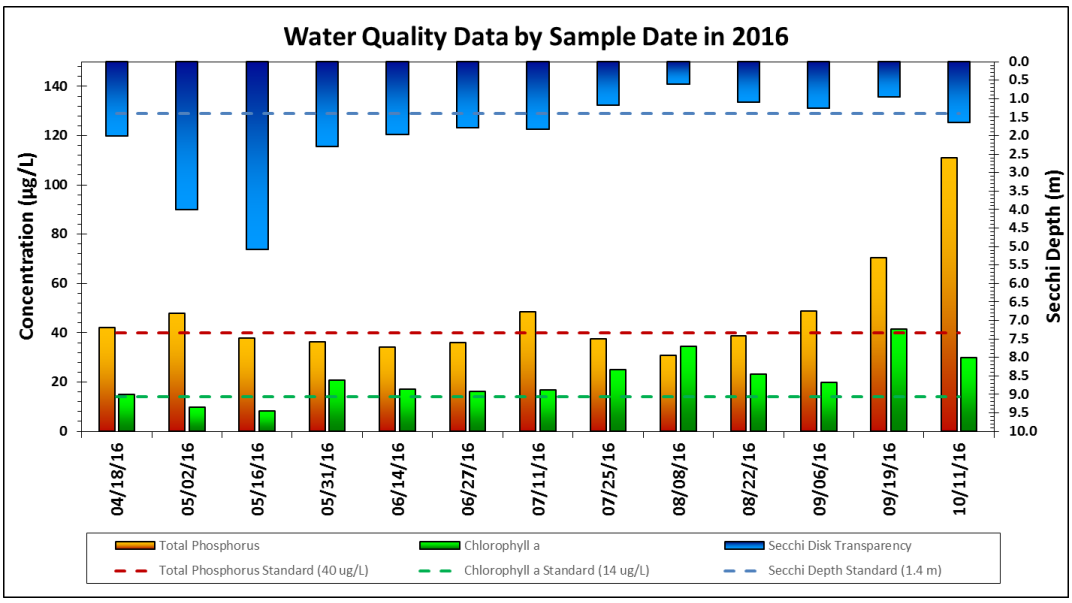


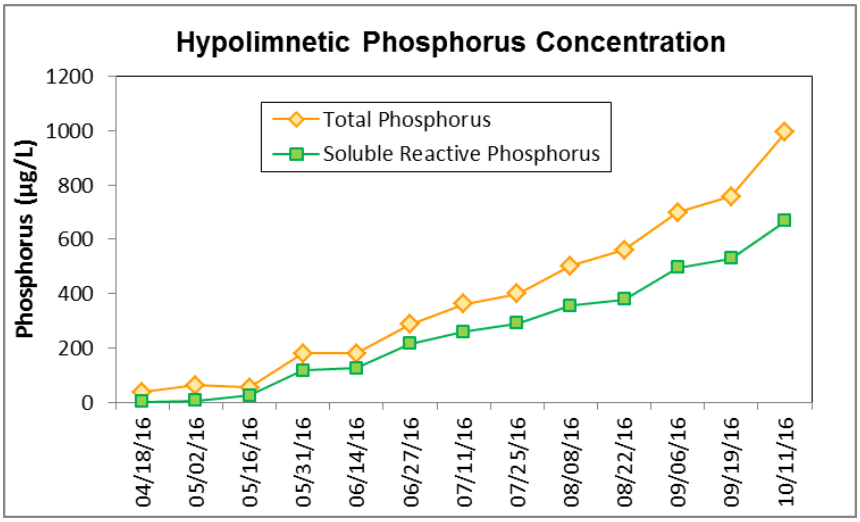
Lake and Watershed Characteristics	
DNR #	27011800
Watershed Area	1611 Acres
Lake Area	232.1 Acres
% Littoral Area	32%
Average Depth	20.5 ft
Maximum Depth	62.0 ft
Watershed/Lake Area Ratio	6.9 to 1
Hydraulic Residence Time	4.6 Years
Impairment	Excessive Nutrients 2008
Classification	Deep Lake



Fish Lake Water Quality Report Card				
Year	TP	Chl-a	Secchi	Avg Grade
1995	C	B	C	C+
1996	C	B	B	B-
1997	C	B	C	C+
1998	C	B	C	C+
1999	C	B	C	C+
2000	C	B	C	C+
2001	C	B	C	C+
2002	C	C	D	C-
2003	C	C	C	C
2004	C	C	B	C+
2005	C	C	C	C
2006	C	C	C	C
2007	C	C	C	C
2008	C	B	C	C+
2009	C	B	C	C+
2010	C	B	C	C+
2011	C	B	C	C+
2012	C	C	C	C
2013	C	C	C	C
2014	C	C	C	C
2015	C	C	C	C
2016	C	C	C	C
MPCA Standard	C	B	C	C+

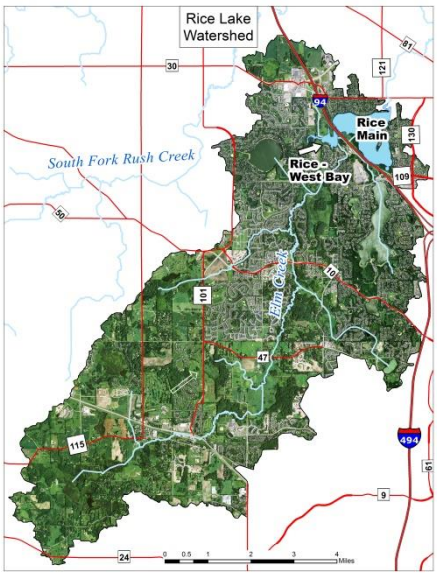
Metropolitan Council Grading System (Osgood 1989)

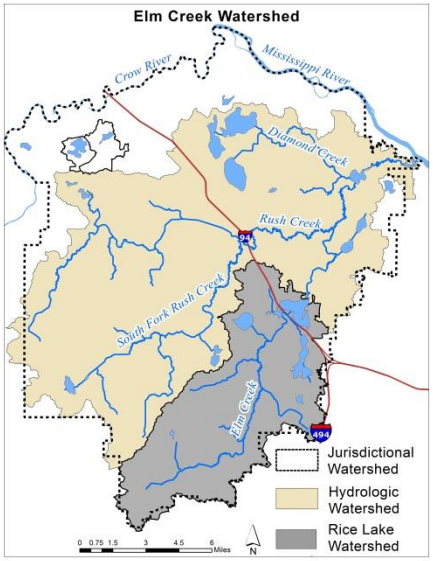


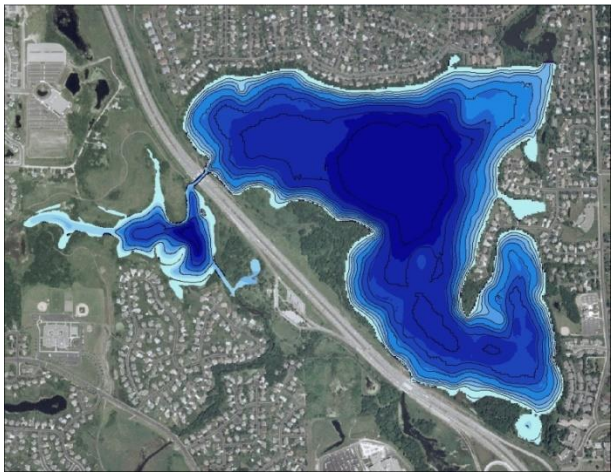


Appendix 6

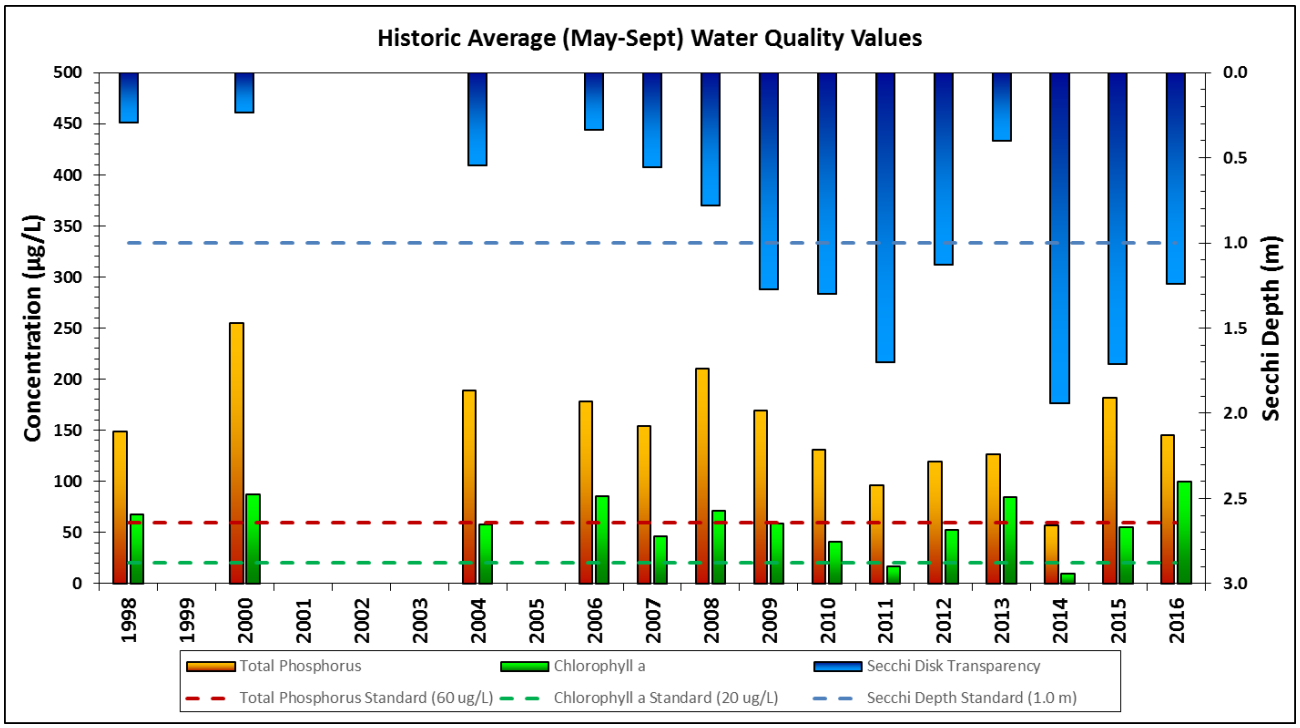
Rice Lake-Main Basin





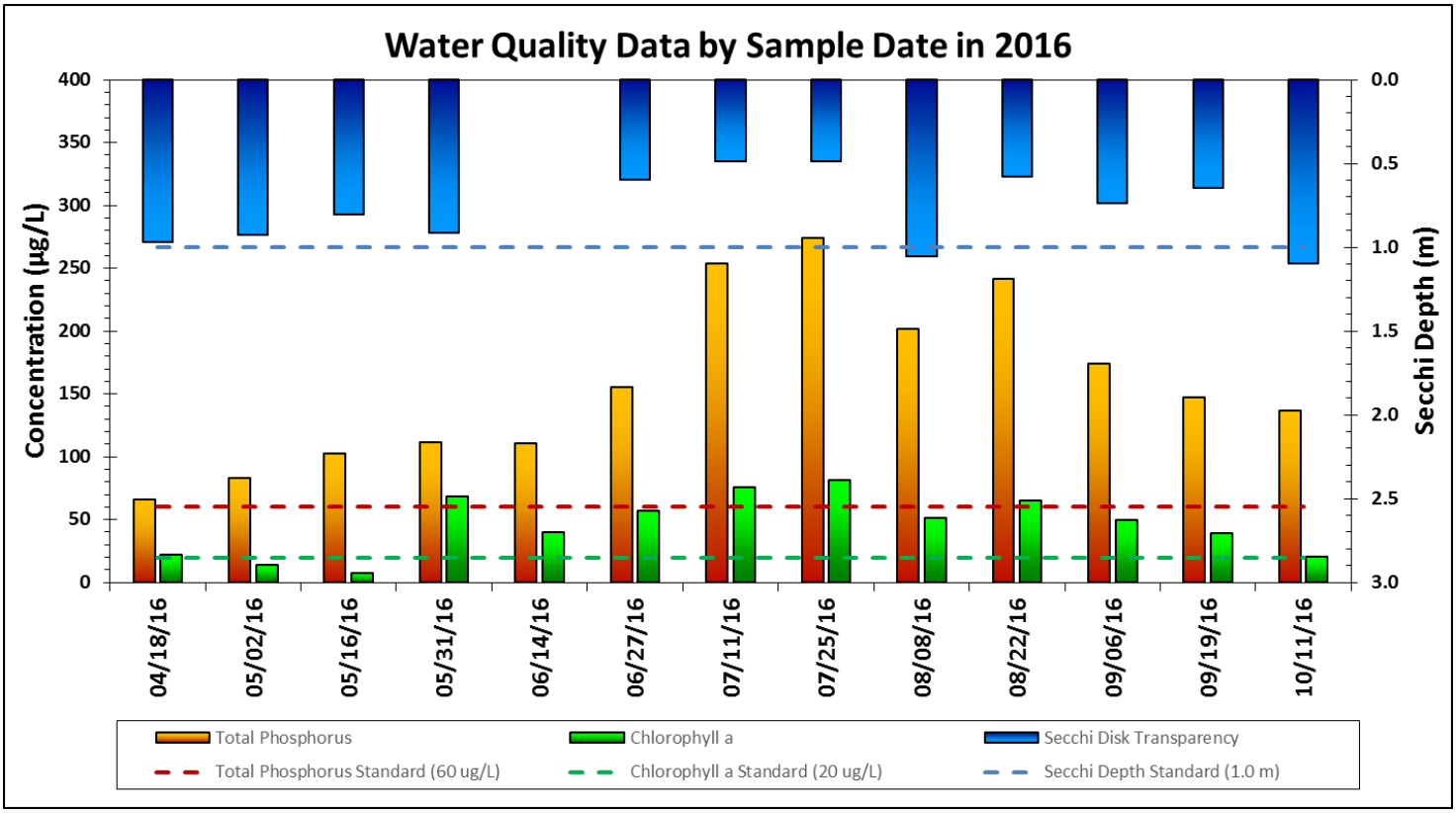


Lake and Watershed Characteristics	
DNR #	27011601
Watershed Area	16092 Acres
Lake Area	307.2 Acres
% Littoral Area	100%
Average Depth	7.02 ft
Maximum Depth	10.14 ft
Watershed/Lake Area Ratio	52.4 to 1
Hydraulic Residence Time	0.16 Years
Impairment	Excessive Nutrients 2010
Classification	Shallow Lake

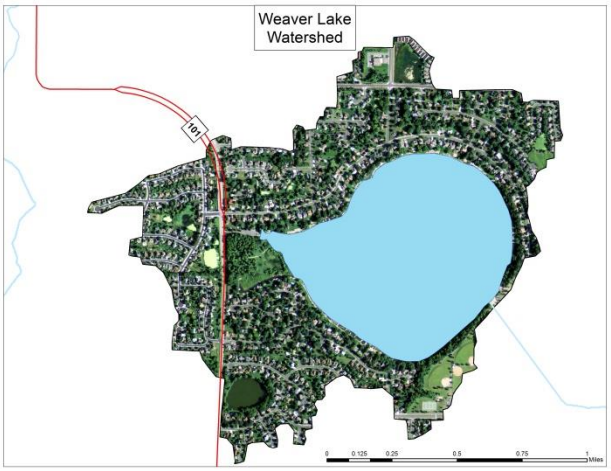


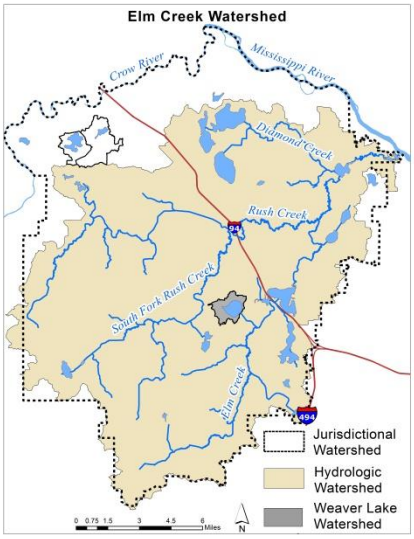
Rice Lake - Main Basin Lake Water Quality Report Card				
Year	**TP**	**Chl-a**	**Secchi**	**Avg Grade**
1997	F	C	F	D-
1998	F	A	D	C-
1999	F	C	D	D
2000	F	C	C	D+
2001	F	B	C	C-
2002	D	B	D	C-
2003	F	C	D	D
2004	F	C	D	D
2005	F	C	C	D+
2006	F	D	D	D-
2007	F	D	F	F
2008	F	C	D	D
2009	F	F	D	F
2010	F	D	D	D-
2011			D	F
2012				
2013	F	F	D	F
2014	F	D	C	D
2015	F	F	F	F
2016	F	D	D	D-
MPCA Standard	C	C	D	C

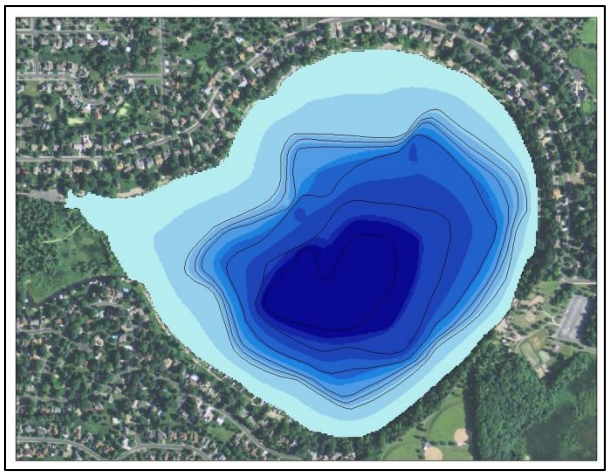
Metropolitan Council Grading System (Osgood 1989)



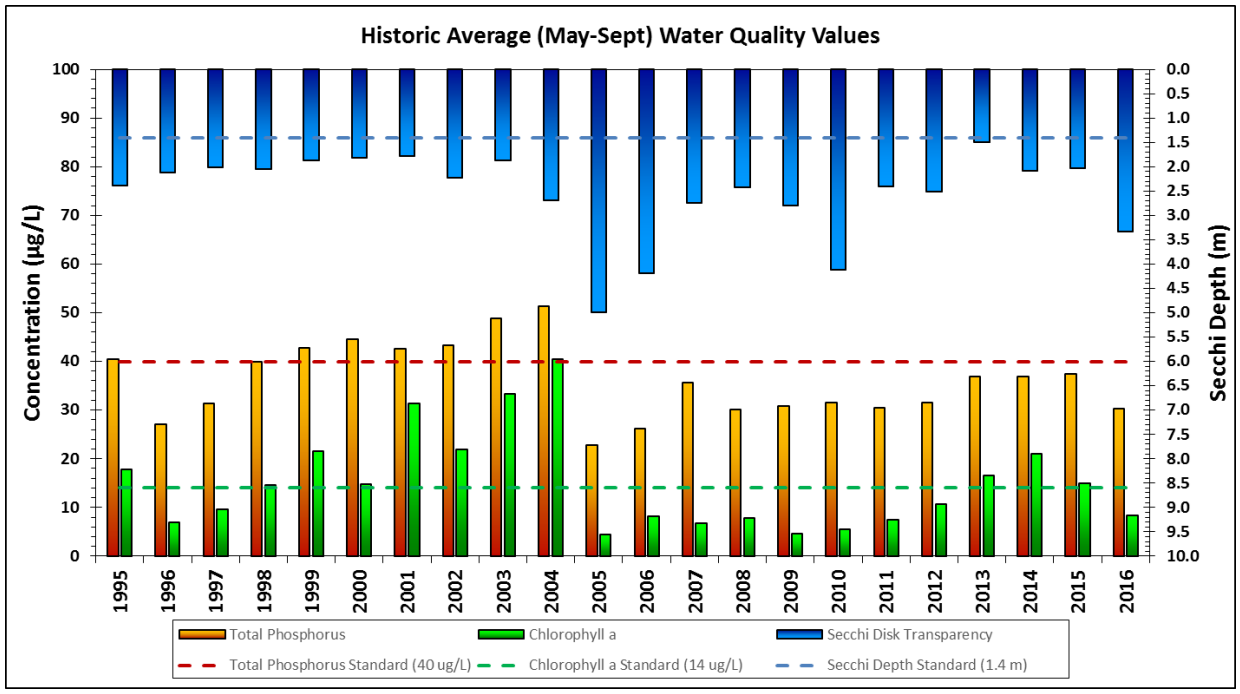
Weaver Lake





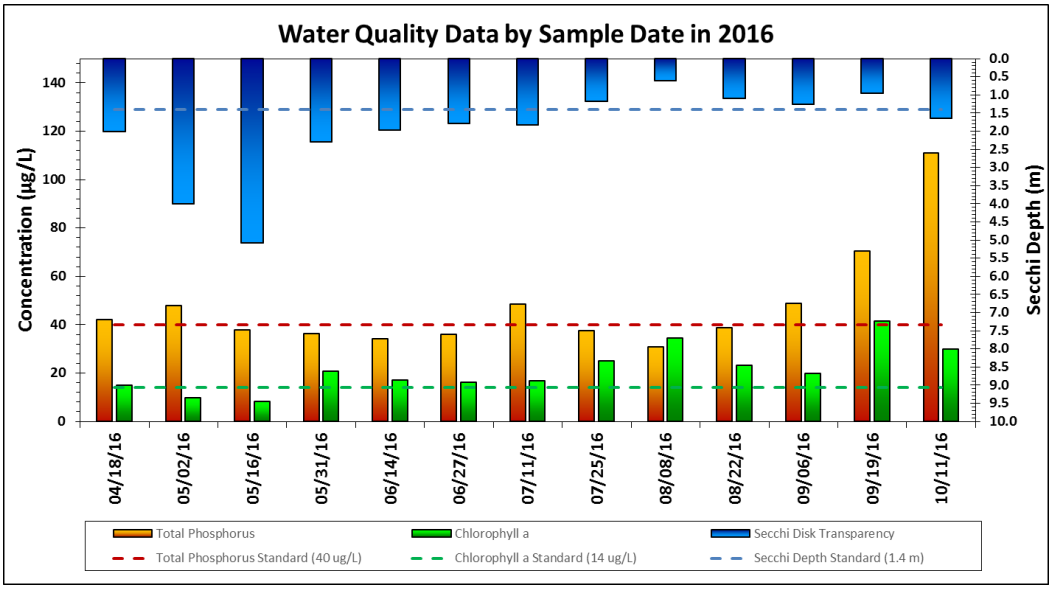


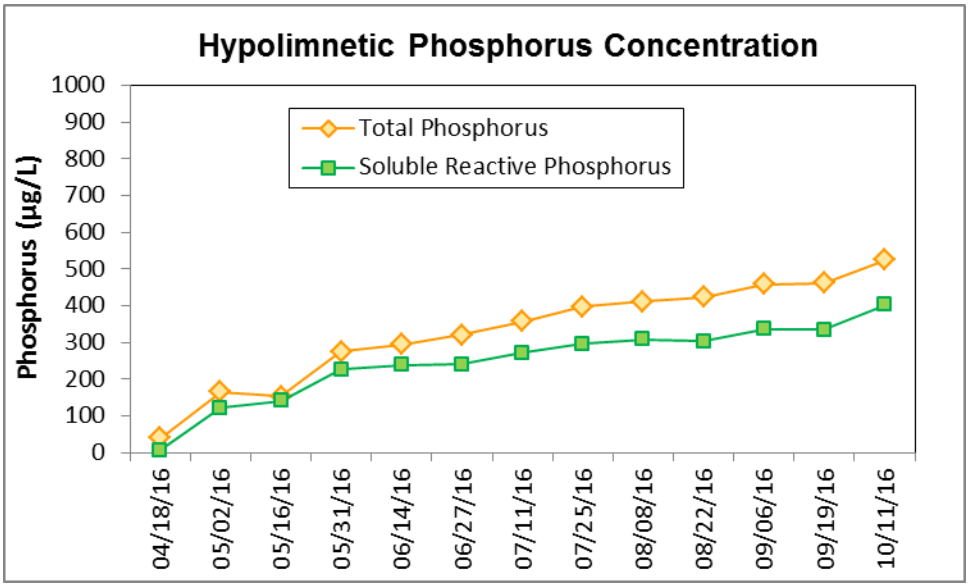
Lake and Watershed Characteristics	
DNR #	27011700
Watershed Area	187 Acres
Lake Area	149.5 Acres
% Littoral Area	47%
Average Depth	21.1 ft
Maximum Depth	52.0 ft
Watershed/Lake Area Ratio	1.3 to 1
Hydraulic Residence Time	13 Years
Impairment	None
Classification	Deep Lake



Weaver Lake Water Quality Report Card				
Year	TP	Chl-a	Secchi	Avg Grade
1995	C	B	B	B-
1996	B	A	C	B
1997	B	A	C	B
1998	C	B	C	C+
1999	C	C	C	C
2000	C	B	C	C+
2001	C	C	C	C
2002	C	C	B	C+
2003	C	C	C	C
2004	C	C	B	C+
2005	A	A	A	A
2006	B	A	A	A-
2007	C	A	B	B
2008	B	A	B	B+
2009	B	A	B	B+
2010	B	A	A	A-
2011	B	A	B	B+
2012	B	B	B	B
2013	C	B	C	C+
2014	C	C	C	C
2015	C	B	C	C+
2016	B	A	A	A-
MPCA Standard	C	B	C	C+

Metropolitan Council Grading System (Osgood 1989)





Appendix 6

Preliminary 2016 CAMP Data - Project No. 7108

Description	City	Water Planning Authority	Watershed	DNR ID	Lake Site	Site Desc	Date / Time	Field Replicate	Sample Depth, m	Air Temp °F	Aquatic Plants
Cowley Lake	Rogers	Elm Creek WMC	No.Fork Crow River	27016900	451	Center of Lake	05/18/2016 15:00	A	0	61-80	Moderate
Cowley Lake	Rogers	Elm Creek WMC	No.Fork Crow River	27016900	451	Center of Lake	06/01/2016 14:20	A	0	61-80	Moderate
Cowley Lake	Rogers	Elm Creek WMC	No.Fork Crow River	27016900	451	Center of Lake	06/13/2016 14:10	A	0	61-80	Moderate
Cowley Lake	Rogers	Elm Creek WMC	No.Fork Crow River	27016900	451	Center of Lake	06/30/2016 14:00	A	0	61-80	Slight
Cowley Lake	Rogers	Elm Creek WMC	No.Fork Crow River	27016900	451	Center of Lake	07/15/2016 08:00	A	0	61-80	Moderate
Cowley Lake	Rogers	Elm Creek WMC	No.Fork Crow River	27016900	451	Center of Lake	07/27/2016 11:00	A	0	61-80	Slight
Jubert Lake	Corcoran	Elm Creek WMC	Miss River - Twin Cities	27016500	451	Deepest point of Lake	05/26/2016 19:10	A	0	61-80	Minimal

Data are preliminary
and subject to revision.

Report Date: 3/31/2017

NOTICE: The data to which this notice is attached are made available pursuant to the Minnesota Government Data Practices Act (Minnesota Statutes Chapter 13). THE DATA ARE PROVIDED TO YOU AS IS AND WITHOUT ANY WARRANTY AS TO THEIR PERFORMANCE, MERCHANTABILITY, OR FITNESS FOR ANY PARTICULAR PURPOSE. These data were developed by the Metropolitan Council for its own business purposes. The Metropolitan Council makes every effort to assure that the data and the associated documentation are error-free, complete, current, and accurate; however, the Metropolitan Council does not guarantee this. The Metropolitan Council is NOT responsible for any consequences resulting from your use of the data. You should consult the available online documentation or contact the staff contact listed in the EIMS data catalog to determine the limitations of the data. If you transmit or provide the data (or any portion of it) to another user, the data must include a copy of this disclaimer.

Preliminary 2016 CAMP Data - Project No. 7108

Description	Cloud Cover, %	Physical Condition	Recreation Suitable	Precipi-tation	Water Color	Water Odor	Water Surface	Wind	Water Temperature, C	L Secchi Disk Sign	L Secchi Disk, cm	Lake Level
Cowley Lake	75	3	4		Yellow	None	Calm	Light	21.9		280	Normal
Cowley Lake	50	3	4		Yellow	None	Small Waves	Breezy West	25		250	Normal
Cowley Lake	50	3	4		Yellow	None	Calm	Calm	26.1		250	Normal
Cowley Lake	25	3	4		Yellow	None	Calm	Calm	27.3			Normal
Cowley Lake	25		4		Green	Fishy	Ripple	Light	28.2		100	Normal
Cowley Lake	100	3	4		Green	Musty	Calm	Calm	27.1		100	Normal
Jubert Lake	0				Blue-Green	None	Calm	Calm	19		180	Normal

Data are preliminary
and subject to revision.

Preliminary 2016 CAMP Data - Project No. 7108

			Chlorophyll-a, % Pheo-Corrected %			Chlorophyll-a, Pheo-Corrected ug/L			Chlorophyll-a/Pheophytin-a Abs. Ratio			Chlorophyll-a, Trichromatic Uncorrected ug/L		
Description	Lake Gauge	Field Comment 1	Result Sign	Result	Censored Flag	Result Sign	Result	Censored Flag	Result Sign	Result	Censored Flag	Result Sign	Result	Censored Flag
Cowley Lake			>	100.000			300.000			1.670			310.000	
Cowley Lake				98.000			220.000			1.560			240.000	
Cowley Lake			>	100.000			230.000			1.650			240.000	
Cowley Lake				98.000			250.000			1.660			260.000	
Cowley Lake			>	100.000			340.000			1.680			360.000	
Cowley Lake			>	100.000			300.000			1.690			310.000	
Jubert Lake			>	85.000			5.800			1.430			6.500	

Data are preliminary
and subject to revision.

Preliminary 2016 CAMP Data - Project No. 7108

	Chlorophyll-b ug/L			Chlorophyll-c ug/L			Nitrogen, Total Kjeldahl, Low Level mg/L			Pheophytin-a ug/L			Phosphorus, Total, Low Level Detection mg/L		
Description	Result Sign	Result	Censored Flag	Result Sign	Result	Censored Flag	Result Sign	Result	Censored Flag	Result Sign	Result	Censored Flag	Result Sign	Result	Censored Flag
Cowley Lake	<	1.000			26.000			5.300		<	1.000			0.423	
Cowley Lake		5.900			33.000			4.500			5.400			0.346	
Cowley Lake	<	1.000			19.000			4.800		<	1.000			0.359	
Cowley Lake	<	1.000			18.000			4.600			4.300			0.360	
Cowley Lake	<	1.000			23.000			5.800		<	1.000			0.427	
Cowley Lake	<	1.000			18.000			4.400		<	1.000			0.381	
Jubert Lake	<	1.000			1.600			1.500		<	1.000			0.064	

Data are preliminary
and subject to revision.