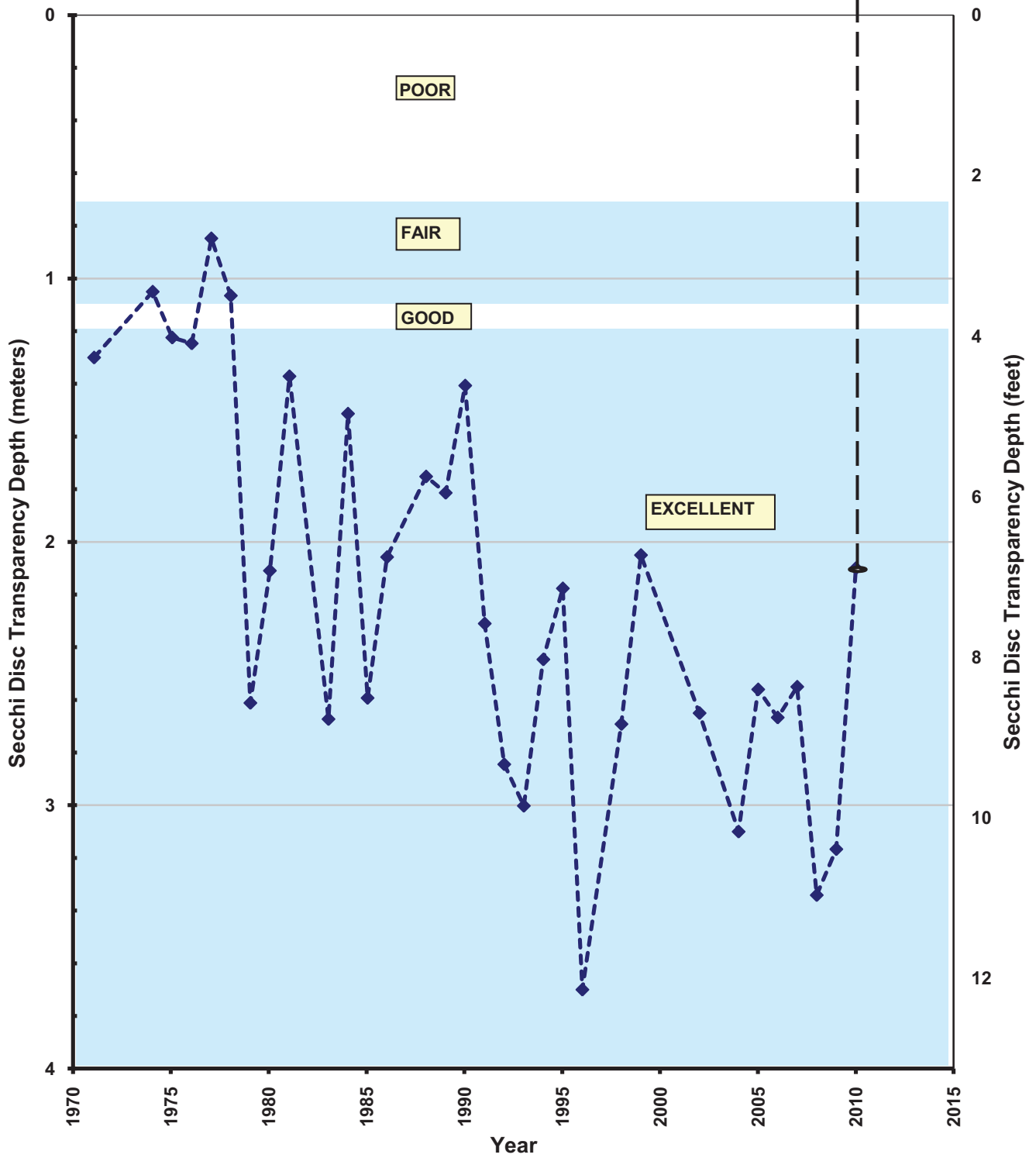
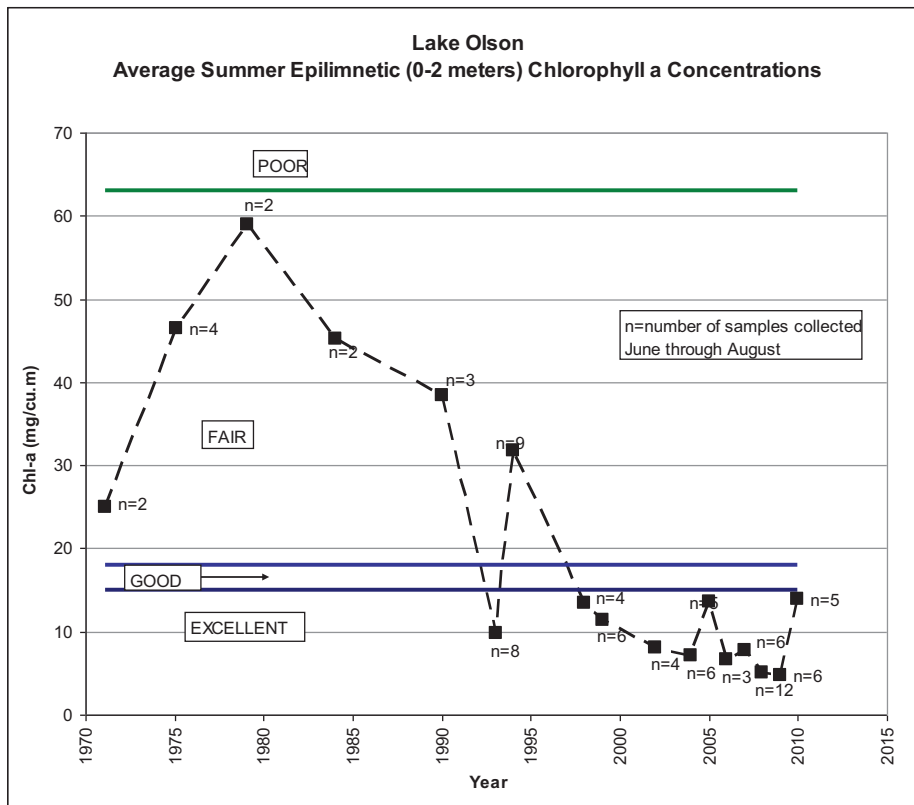
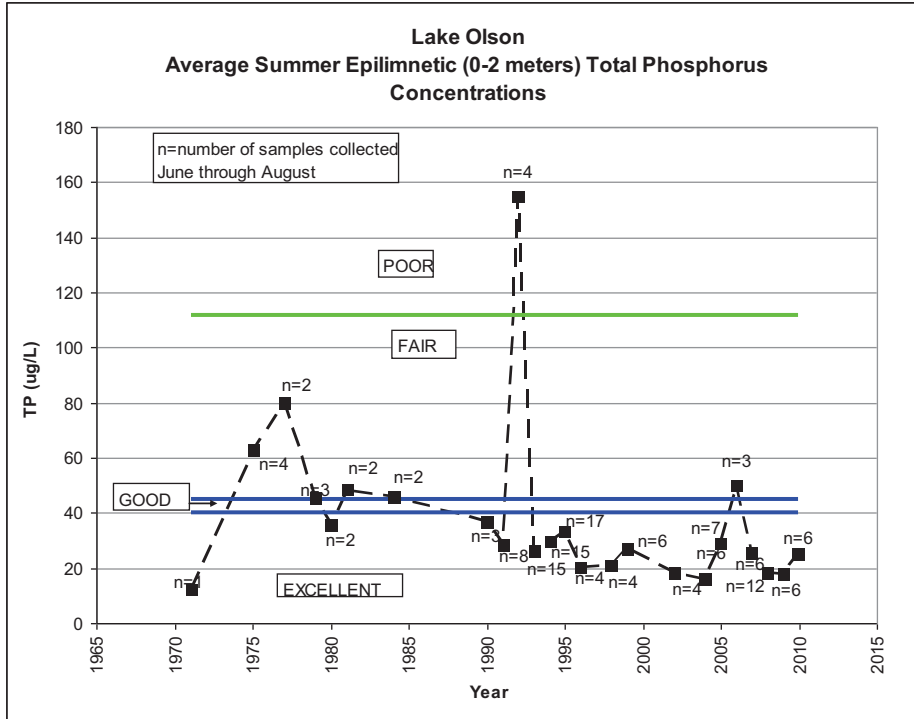


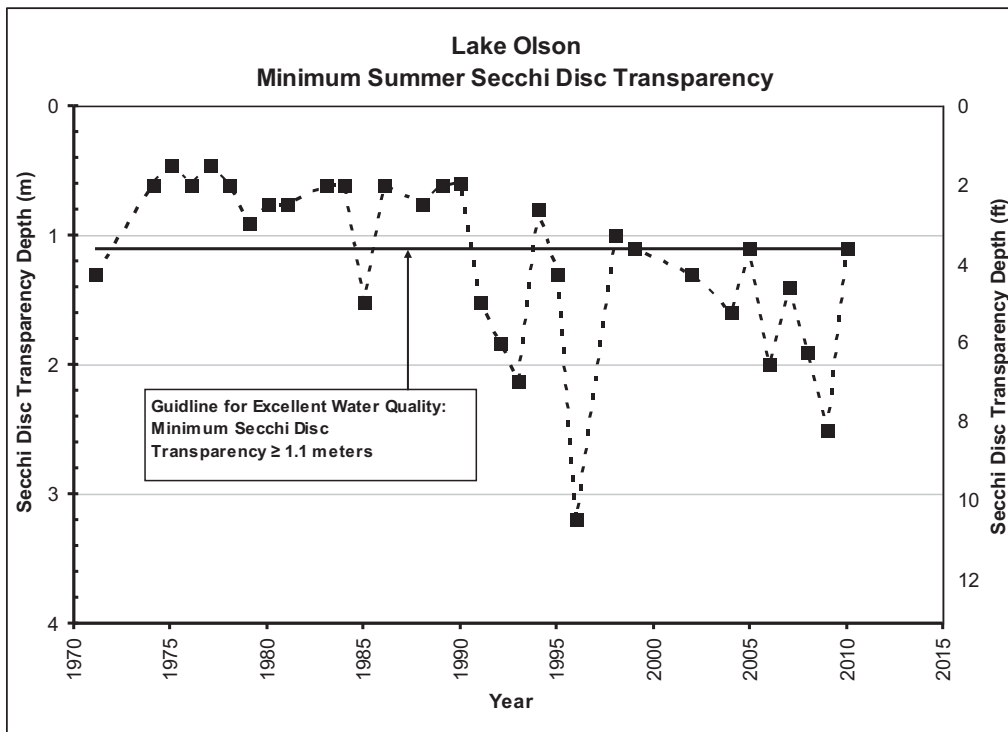
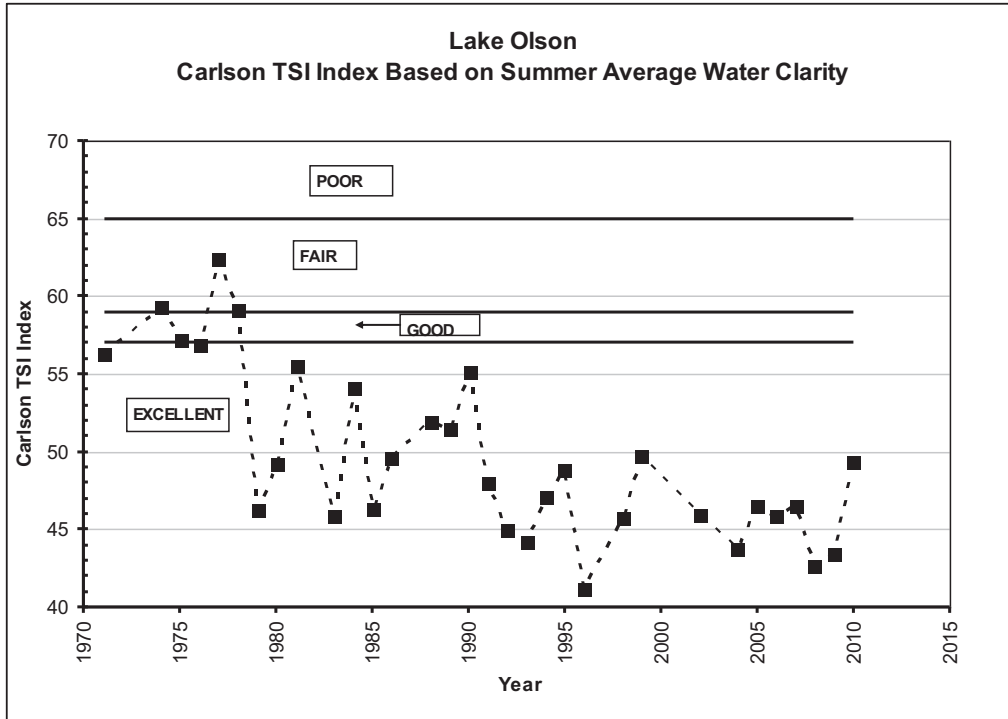
**Lake Olson**



**LAKE OLSON**  
**SUMMER AVERAGE WATER CLARITY**  
**Valley Branch Watershed District**

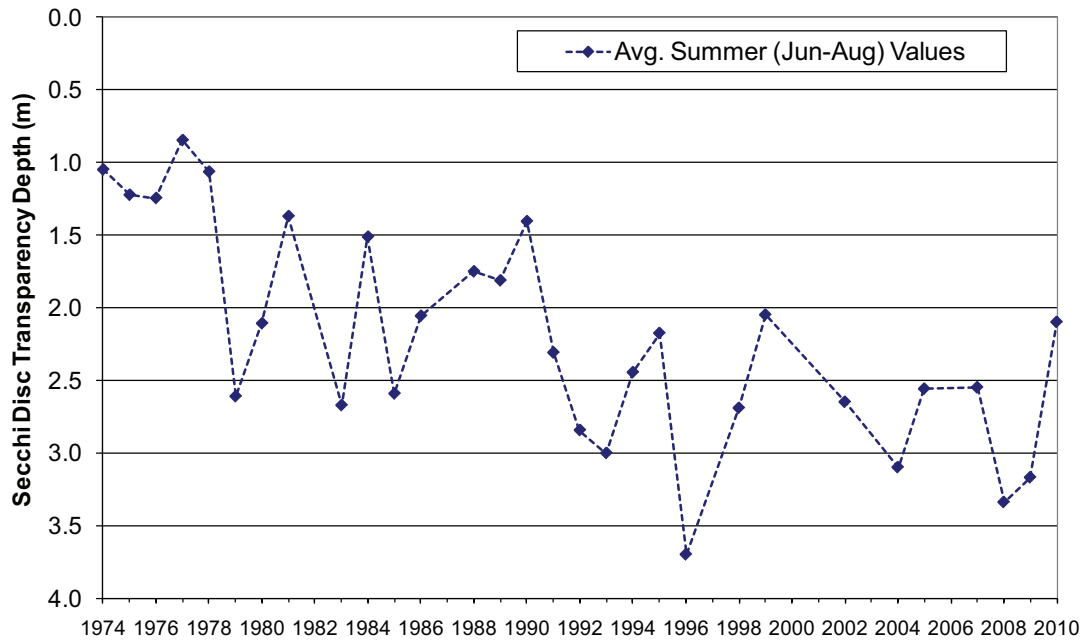


**LAKE OLSON  
HISTORIC WATER QUALITY DATA  
Valley Branch Watershed District**



**LAKE OLSON  
HISTORIC WATER QUALITY DATA  
Valley Branch Watershed District**

**Lake Olson  
Secchi Disc Transparency Depths**



**Mann-Kendall/Sen's Slope Trend Test  
(Test Period = 2002 to 2010)**

Confidence Level	Test Statistic = -2	
	Test	Significance
99%	-2 > -18	Not Significant
95%	-2 > -15	Not Significant
90%	-2 > -13	Not Significant
80%	-2 > -10	Not Significant
Sen's Slope		-0.020 meters/year

Notes:

1. Points shown in the graph are the summer average (June-August) Secchi disc transparency depths. Only years with a calculated summer average based on at least 4 measured values are plotted. At least 5 data points were required to complete the trend test.

- Elodea canadensis* - 1
- Ranunculus longirostris* - 1
- Myriophyllum sibiricum* - 1-2
- Potamogeton crispus* - 1**
- Chara sp.* - 1-2
- Potamogeton amplifolius* - 1-2
- Zosterella dubia* - 2-3+
- Potamogeton robbinsii* - 1
- Potamogeton illinoensis* - 1

*Typha sp.*

- Potamogeton crispus* - 1-2**
- Potamogeton amplifolius* - 1-2
- Eriocaulon sp.* - 1-2
- Zosterella dubia* - 3+
- Chara sp.* - 2-3
- Myriophyllum sibiricum* - 2-3

*Typha sp.*

*Potamogeton amplifolius* - 2-3

*Polygonum amphibium*

*Myriophyllum sibiricum* - 3+

*Nymphaea tuberosa*

*Ranunculus sp.* - 1-2 (white)

*Potamogeton zosteriformis* - 1

*Potamogeton amplifolius* - 1-2

***Potamogeton crispus* - 1-2**

*Ceratophyllum demersum* - 1

*Myriophyllum sibiricum* - 2-3

*Zosterella dubia* - 2-3+

*Myriophyllum sibiricum* - 2-3

- Potamogeton crispus* - 1-2**
- Zosterella dubia* - 1
- Potamogeton zosteriformis* - 1

- Potamogeton crispus* - 1-2**
- Chara sp.* - 2-3+
- Potamogeton amplifolius* - 1-3
- Myriophyllum sibiricum* - 1-3+
- Zosterella dubia* - 2-3
- Ceratophyllum demersum* - 1
- Potamogeton robbinsii* - 1
- Potamogeton illinoensis* - 1-2

- Ceratophyllum demersum* - 1
- Myriophyllum sibiricum* - 2-3
- Potamogeton amplifolius* - 1-2
- Potamogeton crispus* - 1**
- Chara sp.* - 2-3
- Zosterella dubia* - 1-2

- Potamogeton amplifolius* - 1
- Potamogeton illinoensis* - 1

- Chara sp.* - 2-3
- Myriophyllum sibiricum* - 2-3+
- Zosterella dubia* - 2-3
- Potamogeton crispus* - 1**
- Potamogeton illinoensis* - 1-2

- Potamogeton illinoensis* - 1-2
- Chara sp.* - 1-2

- Zosterella dubia* - 2-3+
- Ceratophyllum demersum* - 1
- Potamogeton illinoensis* - 1
- Potamogeton zosteriformis* - 1

- Potamogeton amplifolius* - 1
- Potamogeton illinoensis* - 1-2

- Potamogeton amplifolius* - 1-2
- Potamogeton crispus* - 1**
- Chara sp.* - 2-3+
- Zosterella dubia* - 1-2
- Potamogeton illinoensis* - 1-2

