

# Trail Lake 2014 Data Summary

## Trail Lake Snapshot

Years Monitored: 1  
 Total # of Events: 4  
 2014 Events: 4  
 Total Hours Monitored : 7.6

## Observations

### Wildlife Observed:

- Bears
- Bees
- Ducks
- Jumping pikes
- Loon
- Scoters

### Water Level:

Medium

### Water Color:

Brownish  
 Blackish

### Algae:

None to moderate

### Aquatic Plants:

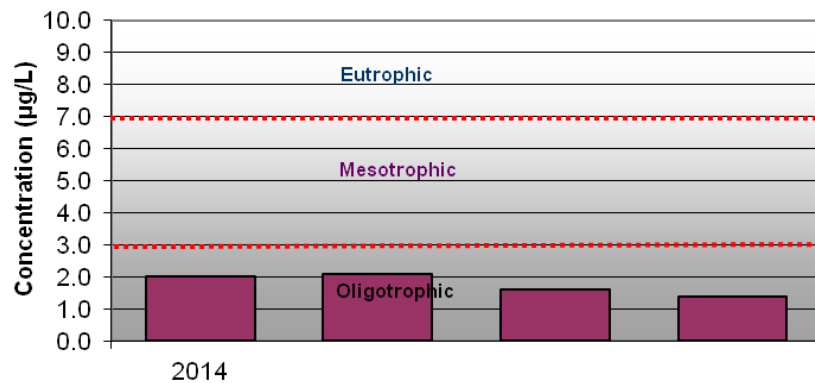
Sparse to moderate; ribbon weed, pond lilies and mare's tail; along all shores.

### Additional Comments:

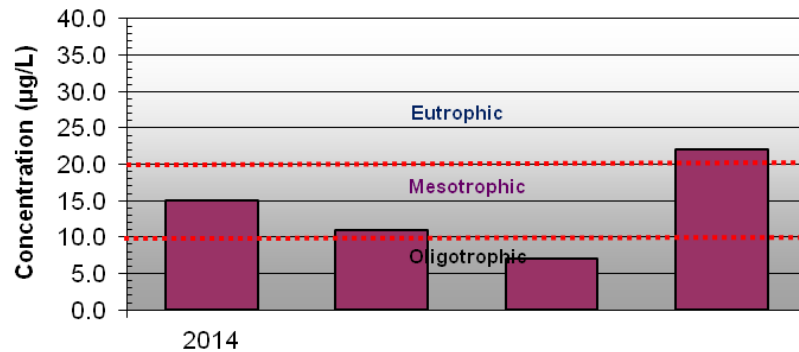
Observed fewer loons and jumping pikes this whole summer.



Trail Lake • Chlorophyll a 2014



Trail Lake • Phosphorus 2014

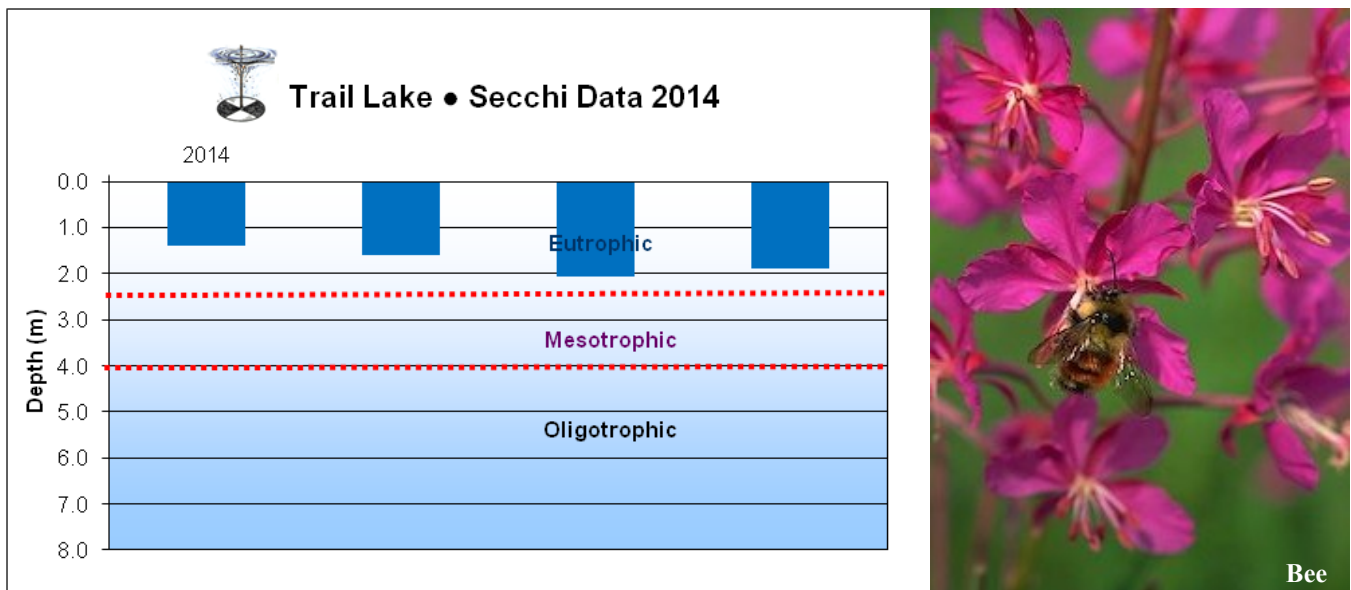


# Trail Lake Profile Measurements

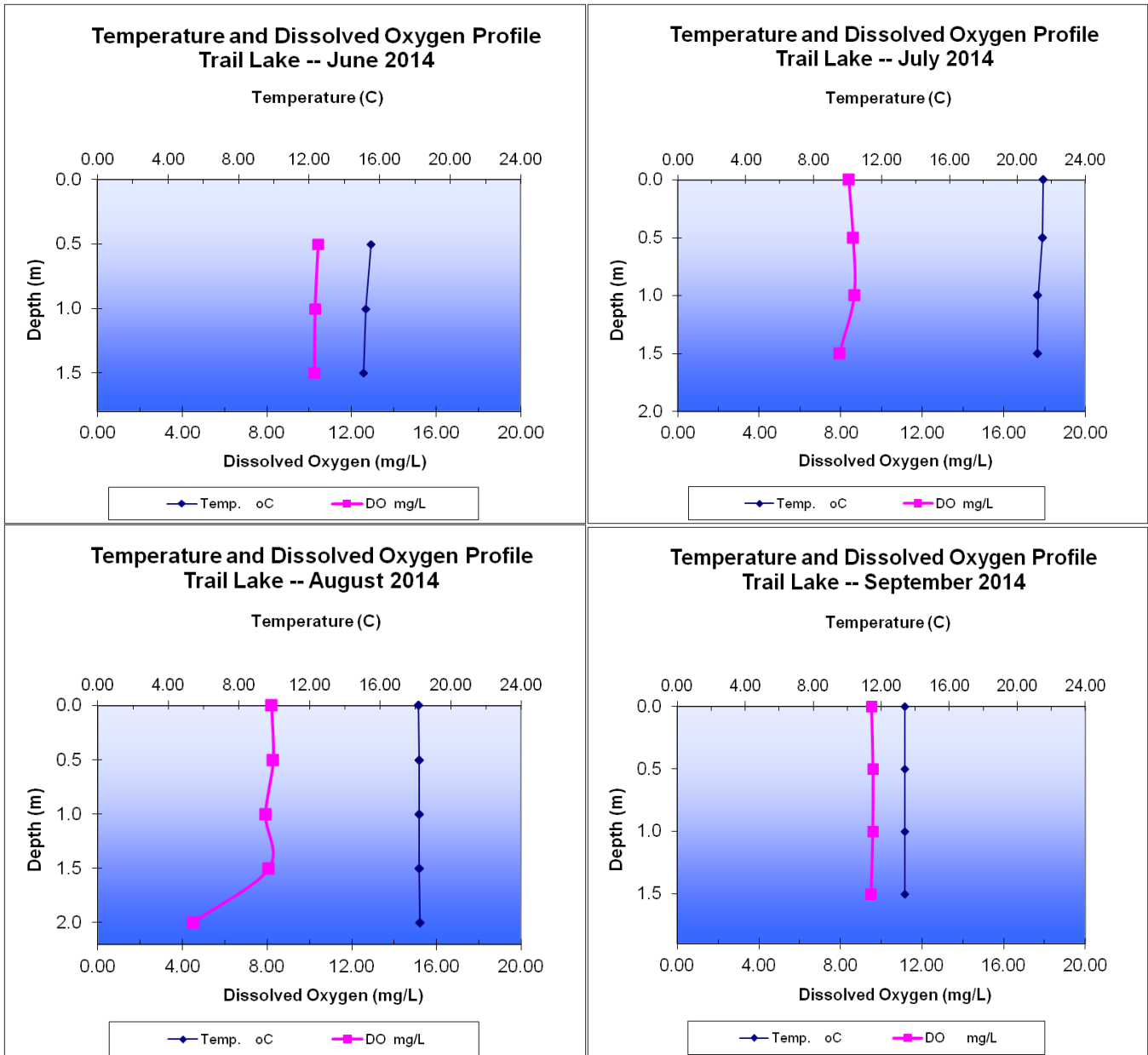
Trail		Depth (m)	Temperature (oC)	Conductivity (mS/cm)	Dissolved Oxygen (mg/L)	pH (SU)	Secchi Depth mean (m)	
Date	9/1/2014	0.0	13.37	0.013	9.52	8.11	1.90	
Site Depth (m)	1.90	0.5	13.38	0.012	9.60	7.89		
		1.0	13.38	0.013	9.59	7.60		
Phosphorus (µg/L)	22.0	1.5	13.38	0.013	9.49	7.50		
Chlorophyll a (µg/L)	1.4							
Date	8/8/2014	0.0	18.18	0.013	8.20	8.09	2.05	
Site Depth (m)	2.20	0.5	18.22	0.013	8.28	7.44		
		1.0	18.20	0.013	7.92	7.52		
Phosphorus (µg/L)	7.0	1.5	18.20	0.013	8.07	7.26		
Chlorophyll a (µg/L)	1.6	2.0	18.25	0.016	4.51	7.07		
Date	7/5/2014	0.0	21.52	0.013	8.40	7.83	1.60	
Site Depth (m)	2.00	0.5	21.49	0.013	8.61	7.51		
		1.0	21.21	0.013	8.66	7.39		
Phosphorus (µg/L)	11.0	1.5	21.17	0.013	7.95	7.26		
Chlorophyll a (µg/L)	2.1							
Date	6/11/2014	0.0					1.40	
Site Depth (m)	1.80	0.5	15.51	0.014	10.42	7.87		
		1.0	15.19	0.014	10.28	7.47		
Phosphorus (µg/L)	15.0	1.5	15.08	0.014	10.25	7.32		
Chlorophyll a (µg/L)	2.0							
CHIA	TP	Depth	T°	Cond	DO	pH	Secchi	
2.1	22.0	2.20	21.52	0.016	10.42	8.11	2.05	Max
1.4	7.0		13.37	0.012	4.51	7.07	1.40	Min
1.8	13.0		18.19	0.013	8.64	7.51	1.75	Med
1.8	13.8		17.23	0.013	8.73	7.57	1.74	Ave
0.3	6.4		3.10	0.001	1.42	0.31	0.29	StDev

Highlighted data does not meet Alaska Water Quality Standards (WQS)

The Alaska Water Quality Standards do not apply absolutely to lakes without taking multiple factors into account. For more information on WQS, please see <http://www.dec.state.ak.us/water/wqsar/wqs/>.



# Matanuska-Susitna Borough Volunteer Lake Monitoring Program



Bears