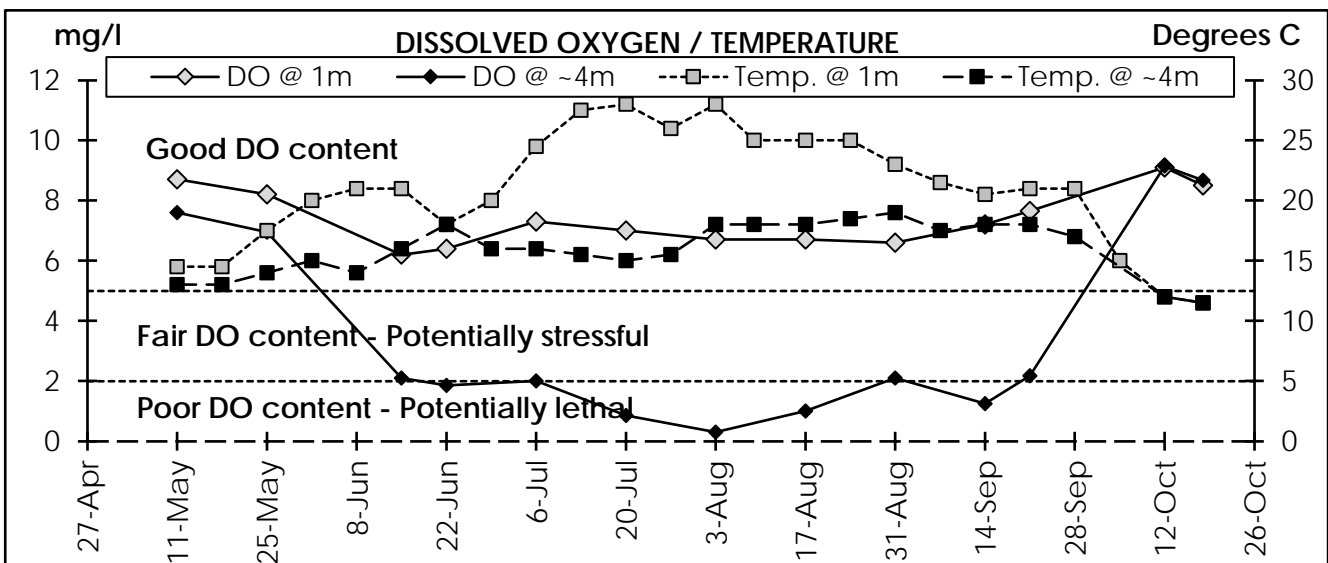
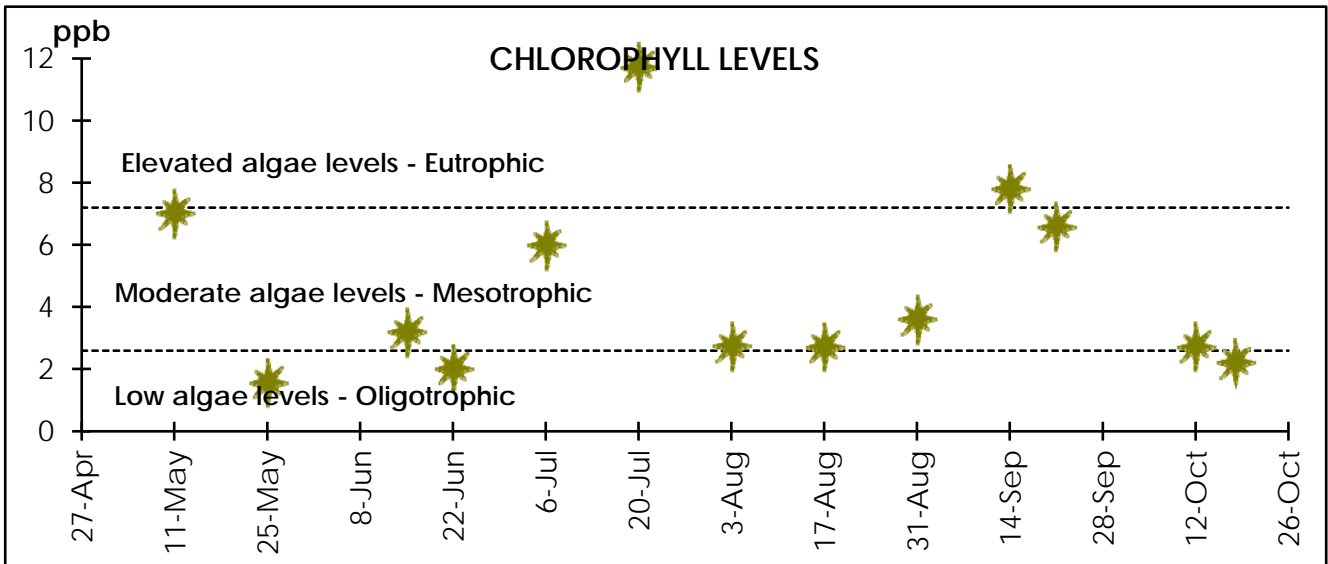
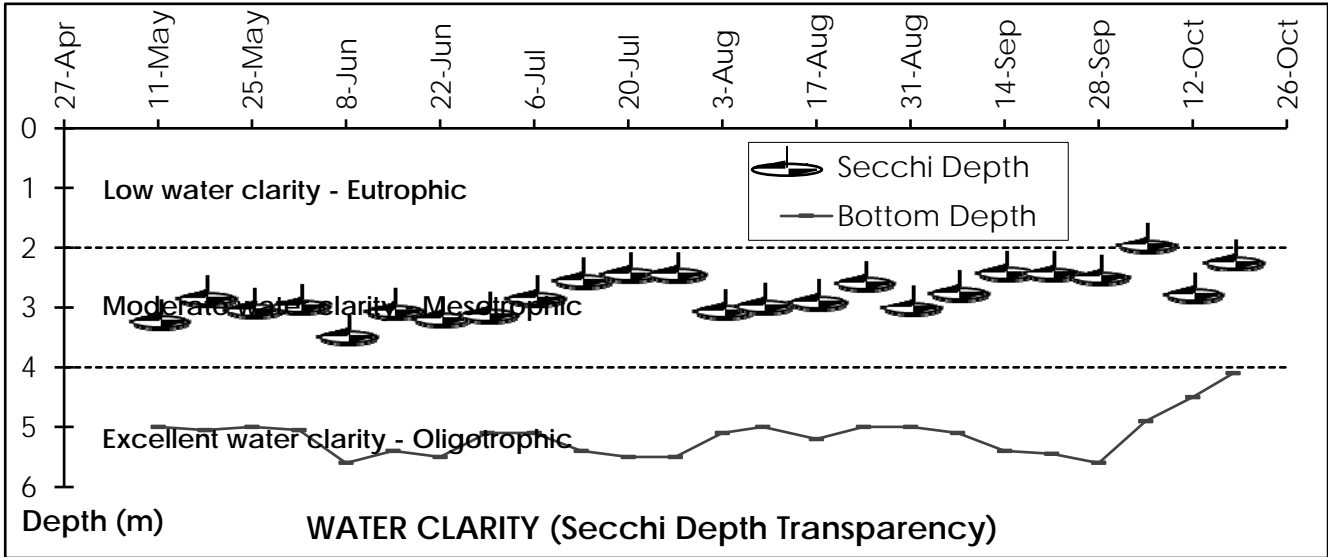


2019 BOONE LAKE DATA



2019 BOONE LAKE DATA

	MAY	JUNE	JULY	AUG	SEPT	OCT	
<i>Bottom waters with higher nutrient levels than 1 meter samples indicate internal cycling of nutrients, and potentially unstable water quality conditions.</i>							
-----Total Phosphorus (ppb) -----							Mean
Boone Lake @ 1m	10	-	14	-	14	20	15
Boone Lake @ ~4m	11	-	29	-	25	18	21
<i>Low <12 ppb; Moderate 12-24 ppb; Elevated 25-67 ppb; RIDEM lake max. 25 ppb TP</i>							
-----Dissolved Phosphorus (ppb) -----							Mean
Boone Lake @ 1m	5	-	5	-	7	5	6
Boone Lake @ ~4m	4	-	4	-	9	Lab error	6
----- Total Nitrogen (ppb) -----							Mean
Boone Lake @ 1m	515	-	430	-	345	395	421
Boone Lake @ ~4m	620	-	760	-	740	415	634
<i>Low TN < 350 ppb; Moderate TN 350 - 750 ppb; Elevated TN >750 ppb</i>							
----- Nitrate-Nitrogen (ppb) -----							Mean
Boone Lake @ 1m	265	-	45	-	35	70	104
Boone Lake @ ~4m	265	-	50	-	25	70	103
----- Ammonia-Nitrogen (ppb) -----							Mean
Boone Lake @ 1m	45	-	65	-	40	50	50
Boone Lake @ ~4m	35	-	200	-	175	75	121
----- Chlorides (ppm) -----							Mean
Boone Lake @ 1m	81	-	-	-	-	78	80
Boone Lake @ ~4m	72	-	-	-	-	80	76
<i>Chlorides measured in spring and fall to assess the impact from winter road salt use.</i>							
----- Enterococci (per 100 mLs) -----							Maximum
Boone Lake	4.1	-	2	-	4.2	73.8	73.8
<i>RIHealth Standard for Recreational Contact: Maximum 60 Enterococci per 100 mLs</i>							
----- pH -----							Minimum
Boone Lake @ 1m	6.6	-	6.1	-	6.1	6.9	6.1
Boone Lake @ ~4m	6.3	-	6.3	-	6.5	Lab error	6.4
<i>pH of 6 - 9 considered normal</i>							
----- Alkalinity (mg/l CaCO3) -----							Minimum
Boone Lake @ 1m	5.4	-	7.6	-	8.0	7.3	5.4
<i>USEPA Alkalinity Classification: Acidified <1 ppm with pH < 5.0; Critical <2 ppm; Endangered 2-5 ppm; Highly Sensitive 5-10 ppm; Sensitive 10-20 ppm; Not Sensitive >20 ppm</i>							