

### Silver Lake (Barnard) Station 1

Cond=Conductivity(uS/cm) DO=Dissolved Oxygen(mg/L) Chl-a=Chlorophyll-a(ug/L) TP=Total Phosphorus(ug P/L) TN=Total Nitrogen(mg/L)

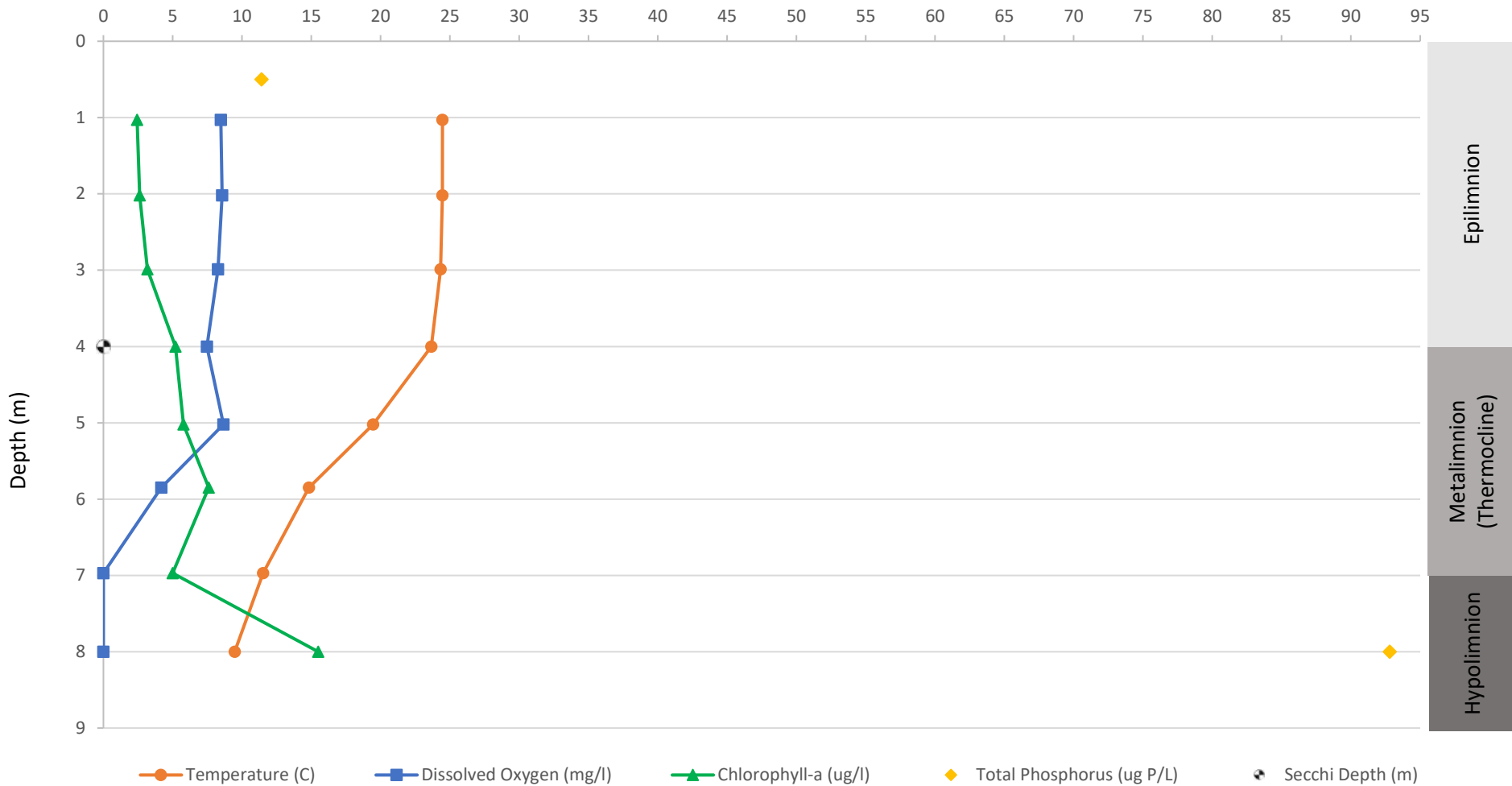
Al=Aluminum(ug/L) Ca=Calcium(mg/L) Cl=Chloride(mg/L) DIC=Dissolved Inorganic Carbon(mg/L) DOC=Dissolved Organic Carbon(mg/L)

Fe=Iron(ug/L) Mg=Magnesium(mg/L) Mn=Manganese(ug/L) K=Potassium(mg/L) Na=Sodium(mg/L) TCH=Total Calculated Hardness(mg CaCO3/L)

Date	Depth(m)	Temp(C)	pH	Cond	DO%	DO	Chl-a	TP*	TN*	Al	Ca	Cl	DIC	DOC	Fe*	Mg	Mn*	K	Na	TCH
8/3/18	0.5							11.4	0.2	<20	27.3	19.5	15.9	2.9	<50	2.2	49.7	0.6	12.2	77.2
8/3/18	1.0	24.5	8.3	226.5	102.5	8.5	2.4													
8/3/18	2.0	24.5	8.4	226.4	103.6	8.6	2.6													
8/3/18	3.0	24.3	8.3	226.9	99.8	8.3	3.2													
8/3/18	4.0	23.7	8.2	228.5	88.9	7.5	5.2													
8/3/18	5.0	19.5	8.0	227.3	95.2	8.7	5.8													
8/3/18	5.9	14.8	7.6	232.9	41.6	4.2	7.6													
8/3/18	7.0	11.5	7.5	235.7	0.0	0.0	5.0													
8/3/18	8.0	9.5	7.5	264.9	0.0	0.0	15.5	92.8	0.6	<20	31.7	20.2	20.8	3.7	245.2	2.4	5352.9	0.8	12.6	88.9

\*Large increase in concentration from surface (0.5 m) to bottom (1 m above sediment) water indicates internal loading from sediments under anoxic conditions.

### Silver Lake (Barnard) Station 1 Temperature, Dissolved Oxygen, Chlorophyll-a and Total Phosphorus Vertical Profiles on 8/3/2018



Anoxia in the hypolimnion and large increase in phosphorus concentration from surface (0.5 m) to bottom (1 m above sediment) water indicates internal loading from sediments. Note the chlorophyll-a (algae/cyanobacteria) maximum in the metalimnion.