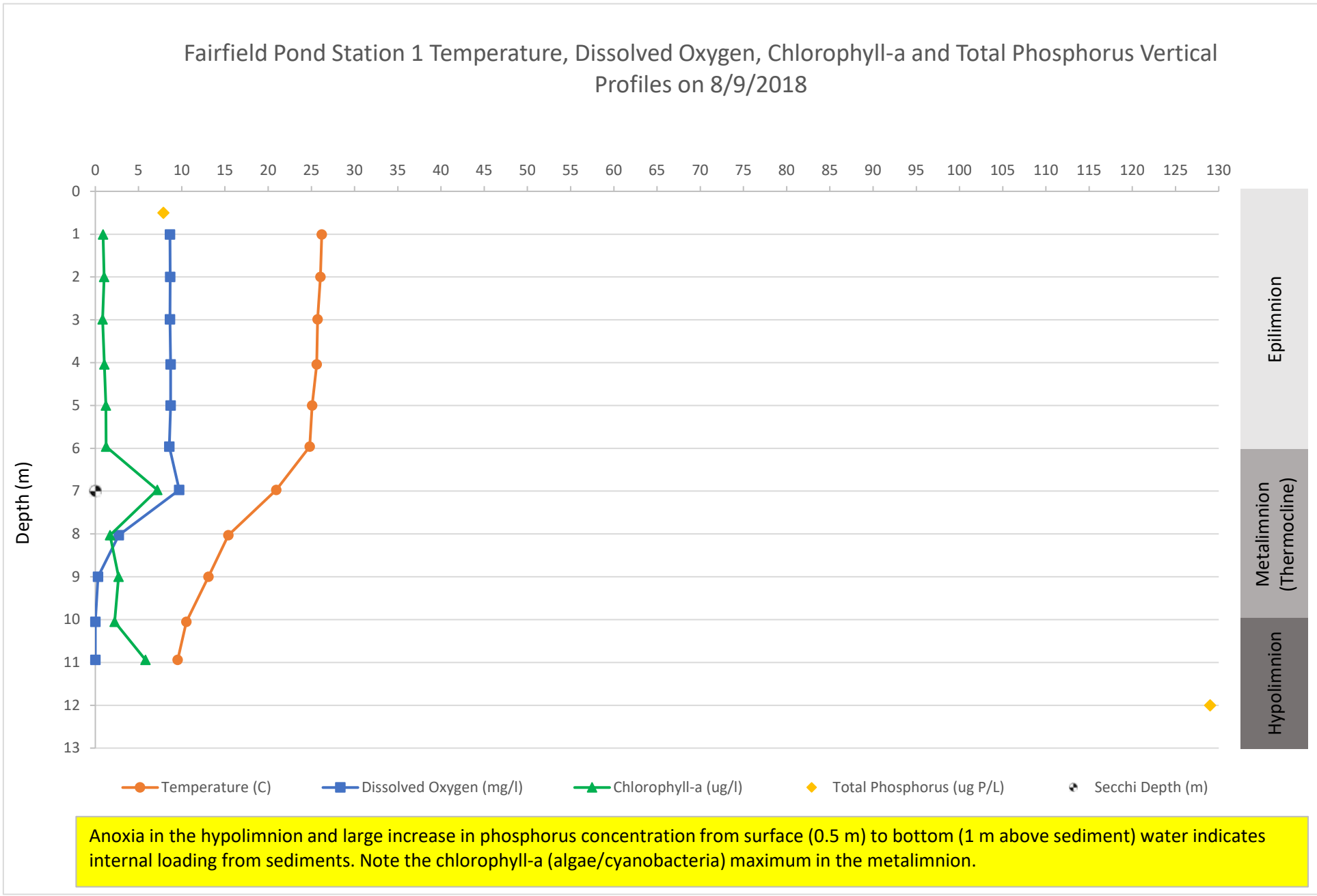
Fairfield Pond Station 1

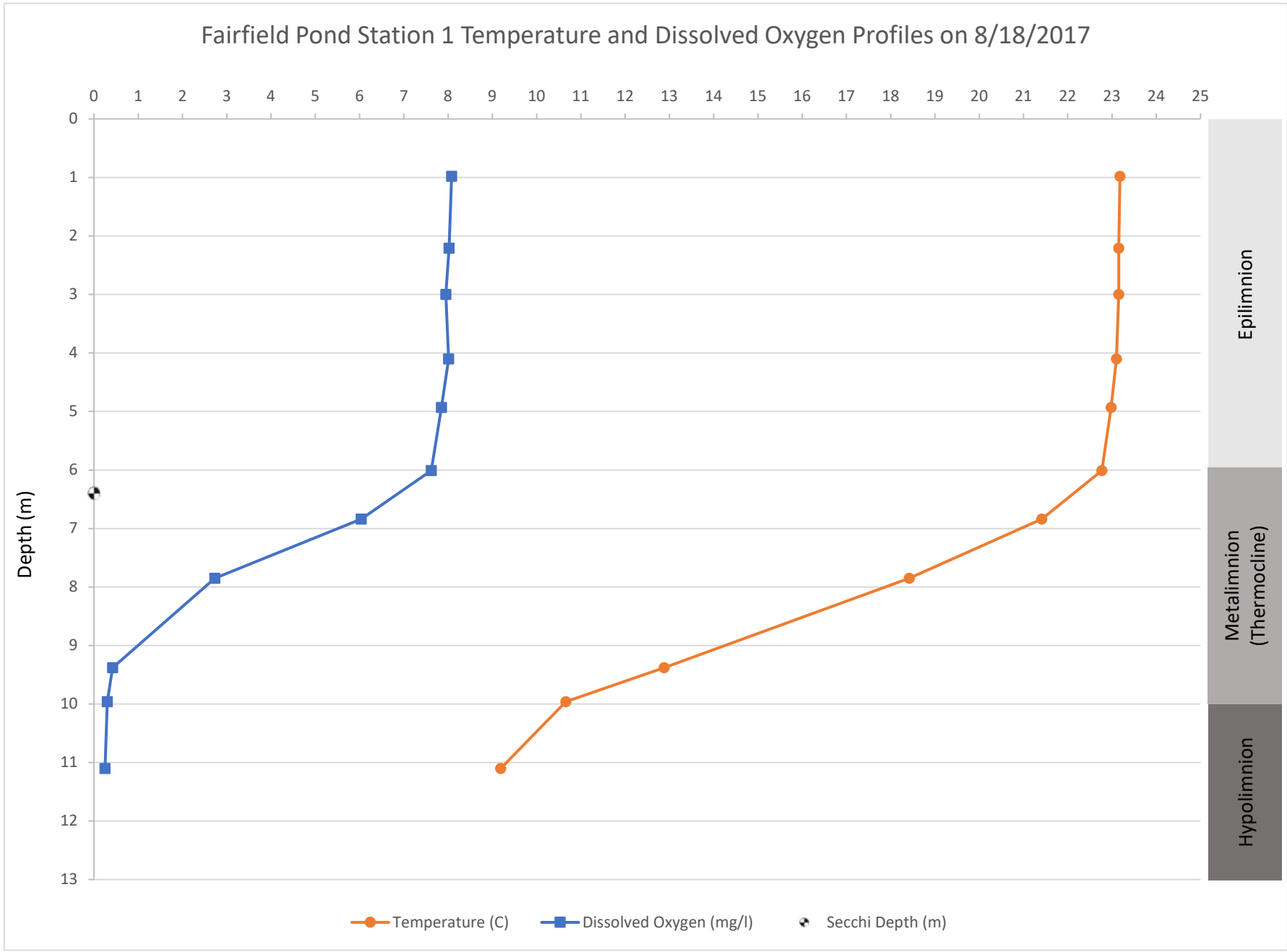
Cond=Conductivity(uS/cm) DO=Dissolved Oxygen(mg/L) Chl-a=Chlorophyll-a(ug/L) TP=Total Phosphorus(ug P/L) TN=Total Nitrogen(mg/L)
Al=Aluminum(ug/L) Ca=Calcium(mg/L) Cl=Chloride(mg/L) DIC=Dissolved Inorganic Carbon(mg/L) DOC=Dissolved Organic Carbon(mg/L)
Fe=Iron(ug/L) Mg=Magnesium(mg/L) Mn=Manganese(ug/L) 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
8/9/18	0.5							7.9	0.6	<20	10.8	7.2	6.8	3.5	<50	1.7	15.5	0.8	4.2	33.8
8/9/18	1.0	26.2	7.6	96.6	106.4	8.6	0.9													
8/9/18	2.0	26.0	7.7	96.3	106.5	8.7	1.0													
8/9/18	3.0	25.7	7.7	96.6	105.7	8.6	0.8													
8/9/18	4.0	25.6	7.8	96.3	106.2	8.7	1.0													
8/9/18	5.0	25.1	7.8	96.3	105.2	8.7	1.2													
8/9/18	6.0	24.8	7.7	96.0	103.0	8.6	1.2													
8/9/18	7.0	20.9	7.6	93.2	108.6	9.7	7.2													
8/9/18	8.0	15.4	7.1	94.0	27.0	2.7	1.7													
8/9/18	9.0	13.1	7.0	95.6	3.1	0.3	2.7													
8/9/18	10.1	10.5	6.9	97.7	0.0	0.0	2.2													
8/9/18	10.9	9.5	6.9	98.5	0.0	0.0	5.8													
8/9/18	12.0	8.7	6.8	125.7	3.1	0.4	3.0	129.0	0.7	<20	12.4	7.0	10.1	4.0	2702.1	1.7	1686.7	1.0	4.2	38.1
8/18/17	1.0	23.2	7.7	91.8	98.5	8.1														
8/18/17	2.2	23.2	7.7	91.6	97.7	8.0														
8/18/17	3.0	23.2	7.7	91.8	96.8	8.0														
8/18/17	4.1	23.1	7.7	91.8	97.5	8.0														
8/18/17	4.9	23.0	7.6	91.7	95.4	7.9														
8/18/17	6.0	22.8	7.4	91.8	92.2	7.6														
8/18/17	6.8	21.4	7.0	91.3	71.2	6.0														
8/18/17	7.9	18.4	6.7	91.7	30.3	2.7														
8/18/17	9.4	12.9	6.5	95.2	4.1	0.4														
8/18/17	10.0	10.7	6.5	104.7	2.8	0.3														
8/18/17	11.1	9.2	6.6	135.6	2.3	0.3														

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



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.


Fairfield Pond Station 1 Temperature and Dissolved Oxygen Profiles on 8/18/2017
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25
0 1 2 3 4 5 6 7 8 9 10 11 12 13
Depth (m)
Epilimnion
Metalimnion (Thermocline)
Hypolimnion
Temperature (C)
Dissolved Oxygen (mg/l)
Secchi Depth (m)