

# Summary of work at pond

Gordon, June 4

After the rain the night of June 1, WIFI to pond was dead.

DC power supply was sitting in 1/4 inch of water in bottom of the battery box. It's a small gray Lambda, marked LUS-10A-12, maxDC4.2A, and is dead.

Power levels on this station have been low for quite a while I believe. 11.6 V on May 28. Perhaps the power supply has been dead, or insufficient for a while.

Replaced the power supply with a "Power One", HB15-1.5-A. It showed 15V when not loaded.

The red 'Load disconnect' LED on the charger was on, and it wasn't providing any load output, but I hoped that it would go off after a period of time charging the batteries. Not so. Station was still down on June 3. Battery voltage hadn't changed overnight, still 12.0 V.

Replaced the batteries on June 3, then realized that the power supply was not able to drive the station directly.

Replaced the power supply (model?) and the power now looks OK. There is room on the box for only one battery.

The power strip, charge controller and DC supply are on pieces of 2x4 to keep them off the floor of the cooler in case water leaks in again. Removed plug on spout and tilted cooler. Taped around holes.

The TRH was not coming in. Switched it from port 5 to 7 and it is now working.

The pyranometer here was bad (Epply 16107), reading a constant -5 W/m<sup>2</sup>. Replaced with 16714.

The cable to the tipping bucket was stretched tight. I moved a cable= support post to slacken it. This sensor has been in and out. Switched it to port 8 in case that would help. It is not currently reporting.