

Green Lake Water Quality Sampling

October 11, 2010

Clouds breaking up and a steady breeze on the lake this morning. Quiet for birds, only coots, mallards, cormorants, a great blue heron and a couple of kingfishers. No geese this morning though 21 yesterday.

Water Quality observations:

Surface Temperature: 16.0 deg C 60.8 deg F

Bottom Temperature: 16.0 deg C. 60.8 deg F

Temperatures suggest that the lake has been mixed since the second week in August.

Secchi Disk: 2.9 m 9.6 ft.

Poor light may have reduced the Secchi measurement somewhat.

The lake level has been over the Densmore Drain grate since the heavy rainfall on September 17th & 18th (event total 1.7 inches of rainfall).

The event was sufficient to cause an overflow from the Densmore Drain into Green Lake. Saturday night (October 9th - 10th) we had 0.98 inches of rain. It was not clear this morning whether there had been another overflow into the lake. Today, the Densmore Drain grate was entirely under water. This morning, we looked at the Meridian Outlet as we kayaked over to our sample station off of the Hearthstone. The drum screen seems to be covered with debris on its lakeside face. A lot of debris near the water surface, less debris toward the top, and little if any debris that I could see on the backside. This leads me to wonder if the drum is rotating. It should be checked to see if it is rotating and it should be cleaned if the lake is to be returned to its "normal" elevation for the winter season.

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