

Tonetta Lake Advisory Committee Meeting February 12, 2007

7:30 PM – 8:30 PM

Attendees:

Don Hazen

Robert Zubrycki

Ralph Woodgate

Karl Lebitsch

Karen Ratajack

Paul Johnson – Town Board Representative

Articles for Spring Newsletter might include:

BSA – Stenciling project – Mike and Christine Fila BSA leader

Article on Storm water improvements and pictures form Tom Fenton

Article on Water Quality from Dr. Fred Lubnow

Article on ISCO from Karl Lebitsch

Article on Lawncare from Bob Zubrycki

Hey Paul:

Hope all is well. I have a few things for you with regard to Lake Tonetta.

First, I have one set of stormwater sampling data from 2006. It is stormwater samples collected from 2565 Shore Drive from runoff drainage; the samples were collected on 26 June 2006. The

fecal coliform and total petroleum hydrocarbon values were low. Total suspended solids (TSS) were moderate at 14 mg/L but not deemed as high enough to produce nuisance conditions (typically from a layperson perspective TSS concentrations greater than 25 mg/L are perceived as being "dirty"). Nitrate-N concentration was also moderate at 1.3 mg/L; this value is high enough to produce algal and aquatic plant growth but it does not exceed the US and State drinking water limit of 10 mg/L.

While the total phosphorus (TP) concentration (0.2 mg/L) was not particularly high for stormwater, it is high for a lake ecosystem. TP concentrations greater than 0.03 mg/L are sufficient to stimulate high rates of algal / plant growth, while concentrations greater than 0.06 mg/L are typically high enough to produce nuisance blooms. Thus, the pollutant of primary concern for Lake Tonetta is phosphorus.

Sources of phosphorus include fertilizers, adsorbed onto soil particles, septic leachate, and wastes from pets / waterfowl. For future monitoring efforts you may want to analyze the stormwater for soluble reactive phosphorus and total dissolved phosphorus to obtain a better understanding on the sources of this phosphorus. If budget is tight, you could run these additional phosphorus analyses instead some of the other parameters (i.e. nitrate-N, petroleum hydrocarbons).

If you have any other stormwater data from 2006, please forward it to me.

On other matters, we are tentatively planning to conduct a spring in-lake sampling event at Lake Tonetta and would like to forward a contract to you for your review. The price would be fixed at \$2,400.00, assuming Princeton Hydro can use a local row boat to collect the samples. If you approve of this, please let me know and a contract will be forwarded to you.

Finally, how much did your group and/or the town pay for the sterile grass carp barrier that was installed on the outlet? I have some other lakes in the area who are interested in using the same type of technology.

Thank you for your time.

Fred