

Sharing Pollutant Controls Tayco Pond, Menasha, WI







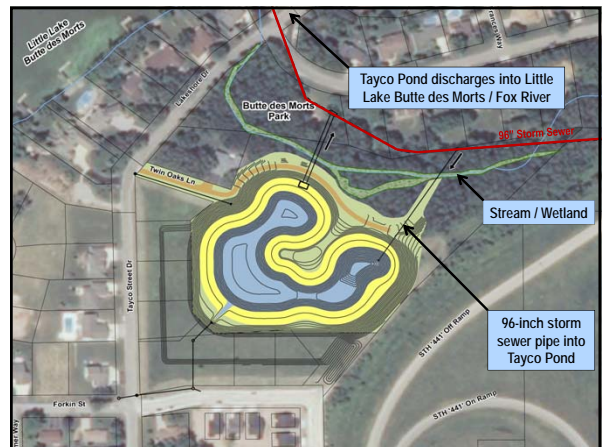
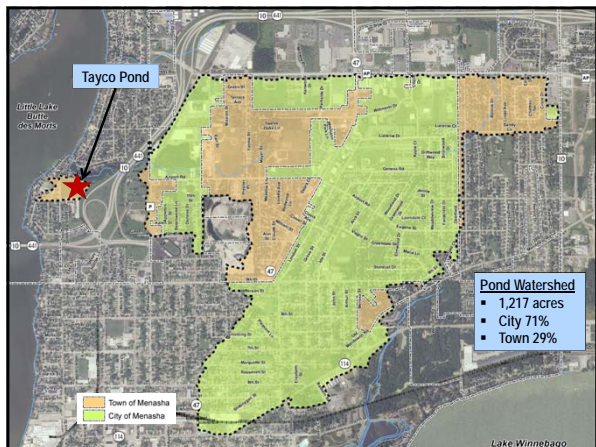
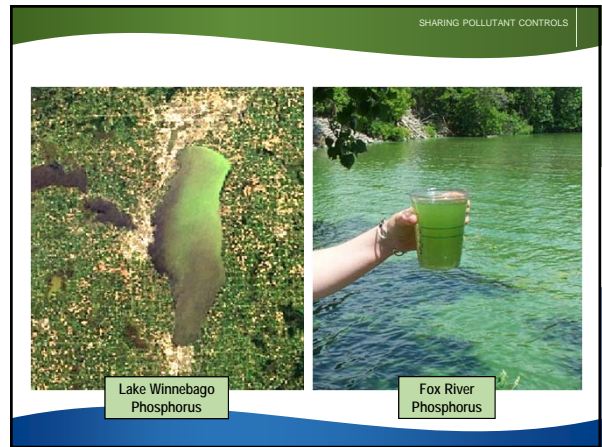

NICK VANDE HEY, P.E.
May 10, 2011

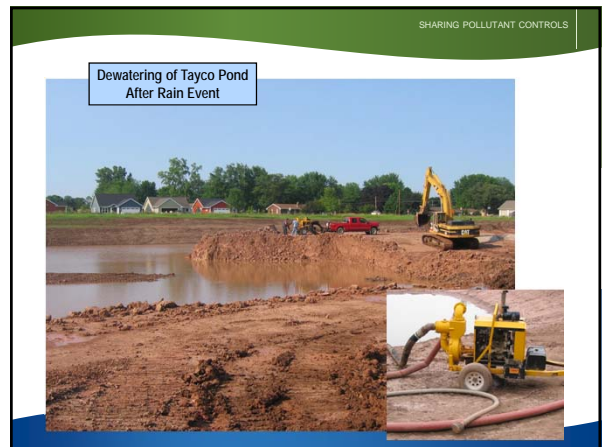
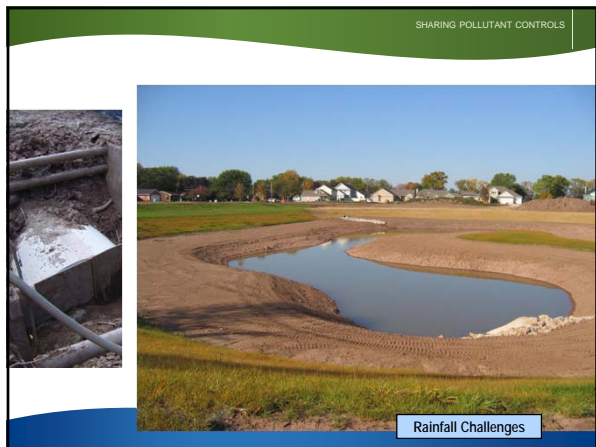
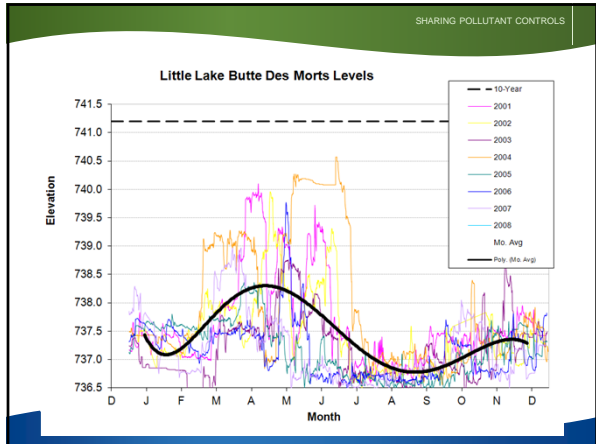
SHARING POLLUTANT CONTROLS

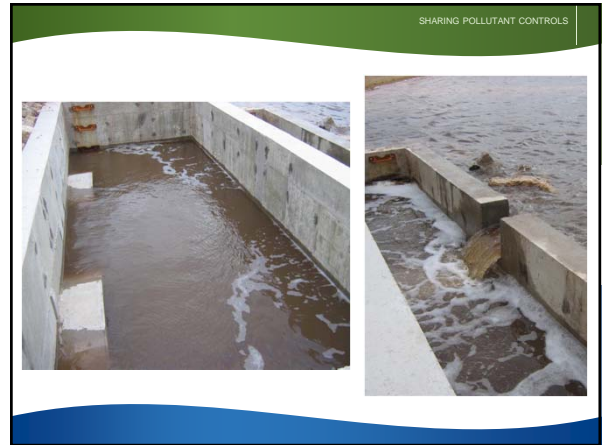
Working Together:

- ❖ During 2008, the Town of Menasha applied for grant funds and loans for the Tayco Pond project.
- ❖ During 2009, the City of Menasha and Town of Menasha decided to work together on the mutually beneficial Tayco Pond project.
- ❖ The Tayco Pond project helps each municipality work toward compliance with their respective MS4 Permits.
- ❖ The Tayco Pond project reduces stormwater pollutant loads for portions of each municipality.



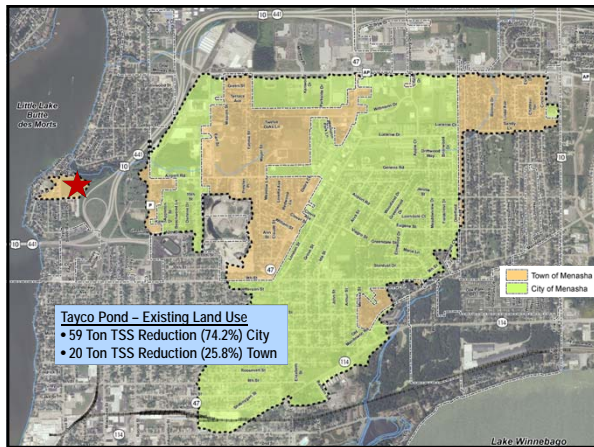
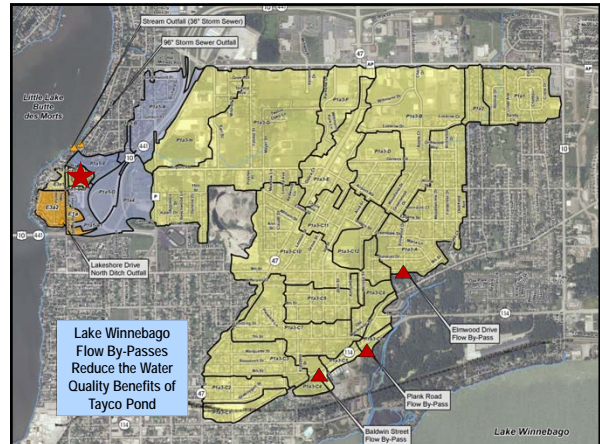




SHARING POLLUTANT CONTROLS

Lake Winnebago

- USACE Target Navigation = 747.6
- FEMA 10-Year Flood = 748.9



SHARING POLLUTANT CONTROLS

Tayco Pond Costs

- ❖ Total Capital Cost = \$1.86 million
- ❖ ARRA Grant Funds = \$930,000
- ❖ DNR Clean Water Fund Loan = \$930,000
 - City's Portion = \$690,060 (74.2%)
 - Town's Portion = \$239,940 (25.8%)

Sample Photograph of a Completed Pond Project

SHARING POLLUTANT CONTROLS

Operation & Maintenance Activities

- ❖ Tayco Pond is located in the Town of Menasha. Town is lead agency for operation and maintenance.
- ❖ Future Maintenance Activities:
 - Debris & Litter Clean Up
 - Vegetation Management
 - Nuisance Algae & Wildlife
 - Structure Maintenance
 - Sediment Removal / Dredging
- ❖ Cost Sharing:
 - City Portion = 74.2%
 - Town Portion = 25.8%

Tayco Pond Debris

SHARING POLLUTANT CONTROLS

Intermunicipal Agreement

**INTERMUNICIPAL AGREEMENT
TAYCO POND OPERATION & MAINTENANCE**
Town of Menasha and City of Menasha

This Agreement is being entered into between the City of Menasha, a Wisconsin Municipal Corporation located in Winnebago County and Calumet County, State of Wisconsin, and the Town of Menasha, a Wisconsin Municipal Corporation located in Winnebago County, State of Wisconsin:

1. The City of Menasha and Town of Menasha desire to jointly operate and maintain the Tayco Pond which is depicted in Figure A.
2. The City and Town agree that Tayco Pond will directly benefit the City and Town. Pursuant to HR 18.07(6), the City and Town recognize that they are each mandated to achieve a 40% reduction in total suspended solids (TSS) by March 10, 2013.
3. The Tayco Pond watershed is estimated to be 1,217 acres in size. Of the 1,217 acres, 805 acres of land are currently located in the City of Menasha and 358 acres of land are located in the Town of Menasha.
4. Based on current DNR guidance, Tayco Pond is designed to achieve a 52.1% TSS reduction for the 1,217 acre watershed. Tayco Pond's TSS reduction was evaluated using the Source Loading and Management Model (SLAMM).
5. The City and Town recognize that Tayco Pond requires routine operation and maintenance in order to function properly and achieve the 52.1% TSS reduction.
6. Based on the existing land use condition contained within the Tayco Pond Stormwater Management Plan, the 1,217 acre watershed contains 1,142 acres of developed urban area and 75 acres of undeveloped area. Of the 1,142 acres of developed urban area, 805 acres are currently located in the City of Menasha and 337 acres are located in the Town of Menasha. On an average annual basis, Tayco Pond provides an 117,337 pound (14.2%) TSS reduction for the 305 acres of City developed urban area and a 40,860 pound (25.8%) TSS reduction for the 337 acres of Town developed urban area.

Questions

