



April 25, 2012

Kevin Shafer, Executive Director
Milwaukee Metropolitan Sewerage District
260 Seeboth Street
Milwaukee WI 53204

Dan Duchniak, General Manager
Waukesha Water Utility
115 Delafield Street
Waukesha, WI 53188

Subject: Review of Waukesha Wastewater Return Flow Options

Dear Mr. Shafer and Mr. Duchniak:

Thank you for participating in the April 19th meeting with the DNR to discuss issues related to the City of Waukesha's interest in securing a Lake Michigan water supply. As the DNR's review of the City of Waukesha's diversion application has progressed, additional questions and suggestions have come up regarding the assessment of wastewater return flow options.

One of the wastewater return flow options needing further refinement is the analysis of the potential abandonment of Waukesha's wastewater treatment plant and connection to the MMSD. Under Wisconsin law, a wastewater return flow option should be selected and implemented based on a comparison of alternatives using a total present worth analysis. The selected alternative should be the cost-effective approach for treatment and discharge over the 20-year service life.

For this specific total present worth analysis, the key issues for estimating costs are:

- Identifying possible connection points in the MMSD system;
- Identifying capacities or limitations in capacities at those points;
- Identifying the average flow volumes and peak volumes (described as both instantaneous rates and daily amounts) for Waukesha's wastewater flows;
- Identification of a MMSD treatment plant and any limitations on capacity that exists;
- Identification of any storage or other flow equalization needs to accommodate wet weather flows from Waukesha;
- Identification of any additional MMSD treatment needs to accommodate the Waukesha wastewater;
- Construction costs associated with transmitting Waukesha wastewater to MMSD's treatment plant;
- Operational costs of transmission and treatment for the Waukesha wastewater;
- Demolition and site restoration costs for the Waukesha treatment plant site;

- Decreases in Waukesha's operational and future construction costs associated with abandoning the current treatment plant.

I hope that sufficient detail for a credible systems level analysis can be readily aggregated through discussions among staff and consultants, and that those discussions could take place soon. Ideally, we'd like to have the analysis within three weeks. Mr. Gerry Novotny, DNR Wastewater Engineer, is available to participate in these discussions with this timeframe in mind. You may contact Gerry at (608) 267-7625 or Gerry.Novotny@wi.gov.

We are not advocating for any specific outcome but rather trying to assure that common understandings and assumptions are the underpinnings for the analyses and conclusions related to the City's diversion proposal. I am hopeful and optimistic that by working together we can meet this relatively short deadline, but am open to a different schedule to meet the needs of your staffs.

Thank you both for the commitment to work together to provide the analysis that is needed.

Sincerely,

A handwritten signature in purple ink that reads "Kenneth G. Johnson". The signature is fluid and cursive, with the first name being the most prominent.

Kenneth G. Johnson
DNR Water Division Administrator

Cc: Secretary Cathy Stepp
Jill Jonas, DG/5
Eric Ebersberger, DG/5