

TECHNICAL STANDARDS COMMITTEE
Minutes - Monthly Meeting
WTRRF Conference Room - 700 Doty Street
Tuesday 1:30 PM, February 18, 2020

Call to Order – The meeting was called to order at 1:30 p.m.

Roll Call – Present were Jordan Skiff, Paul DeVries, Cody Schoepke, Ben Propson, Nick Leonard, Mitch Vis and Eric Otte.

Approval of January Minutes– A motion was made by Paul DeVries and seconded by Eric Otte to approve the January 2020 meeting minutes. The motion carried.

Communication Session

Reports on:

- **Correspondence Relating to the Regional Wastewater System**

- **LaClare Family Creamery**

- ◇Cody reported that LaClare hired Badger Labs to conduct a flow study. An in-pipe flow meter was installed for approximately seven to eight days, downstream from the existing manhole where the laser flow meter is located. On all but two days, flows from the in-pipe meter were twice as low compared to the flows from the laser meter. Badger Labs said they are confident in the accuracy of their equipment and monitoring, and suggested a reason for the flow difference could be attributed to the pitch of the pipe leading to the meter. Eric suggested shooting the elevation of the manholes. Cody said he has already asked for this to be done. Because of this discrepancy and not wanting to issue revised bills, WTRRF will delay the issuance of the January bill to the Calumet Sanitary District.

- ◇Gary Watry is the new President of the Calumet Sanitary District, effective January 2020. Eric will forward Gary's contact information to Nick Leonard & Mary Kunde.

- ◇LaClare has not contacted the Calumet Sanitary District regarding the possible combination of land parcels.

- **Records Exchange – Update of Contact List**

- ◇None

- **Sewer or System Improvements Anticipated, in Progress or Completed (Extensions or Rehabilitations)**

- ◇Paul reported that bid opening for City street utility construction projects is today. The cleaning and televising work will begin on March 2. The lining contractor will begin in April and that work should be completed by the end of May.

- ◇Paul said that work in North Main Street, from Johnson Street to Merrill Avenue, including Merrill Avenue, will begin March 16 and conclude near the end of summer.

- ◇Eric reported that the Calumet Sanitary District will be moving forward with their force main upgrade at Lift Station #1. That project will be bid within the next month. Calumet will also be performing manhole pressure grouting and manhole lining, specifically in County Trunk Highway W, where they know they have inflow through the manhole. They have one lift station (by Jim & Linda's Supper Club) where they have already installed a two foot extension on it, in an effort to keep the lift station above water. Even after the extension being installed the lift station was inundated with water at least three times during rain events. They will try to seal all outside joints and install a water tight lid. This is the lift

station that is being upgraded. The piping is being increased from four inch to six inch and a new mag meter will be installed. The Calumet Sanitary District will contact the City before installing the new meter.

◇Taycheedah Sanitary District #1 (Gladstone Beach) will be replacing pumps in the lift station. Nothing has been bid for this project to this date.

◇Nick said that Bechaud Avenue will be reconstructed. That project will be bid out in March. All laterals will be televised. Mitch reported that ten laterals were already televised and he found that one was cast iron to clay, one lateral was all lead, and one lateral was all clay. So far there were no sump pumps found to be illegally connected.

- **FP or RSAP Amendments Anticipated, in Progress or Completed**

◇None

- **Metering and Sampling**

◇An electrical power pedestal located on Rolling Meadows Drive was hit by a vehicle and power was knocked out to the metering station for Town of Fond du Lac Sanitary District #3.

◇Eric said four sanitary districts will be televising and cleaning their sanitary mains

◇Cody had no update on the Town of Empire #3 metering station.

- **Clearwater Reduction Fund Status and Party Activity**

◇None

- **Receive Sewer Project Closeout Records and Shared Sewer Cost Calculations**

◇None

- **Distribute Updates to Regional Sewer Design and Constructions Standards and TGM Revisions**

◇Paul reported that approval has been given by the state, but Eric and Nick would like more time to review before voting on the changes.

- **Review Prior Activity**

◇None

Technical Session – Consent Agenda

Review as needed:

- **Review and evaluate new products and technology for incorporation into the standard specifications.**
- **Monitor the assessment, accumulation and use of the Clearwater Reduction Funds**
- **Maintain procedures and protocol for compliance with the Agreement**
- **Review and recommend proposed changes, revisions, clarifications, and amendments to the Parties regarding the Agreement and the TGM**
- **Consider and decide requests for specification waivers**
- **Prepare appropriate specification amendments**
- **Review shared sewer cost calculations for compliance with TGM procedures Conduct review of proposed revisions to the 2000 RSAP to identify potential regional impacts**

Additional Items

- **WTRRF Operations Update**

◇Ben reported that the OSCAR control system is now in operation for ammonia removal.

◇The automation of the centrifuge controls is complete. This now allows the centrifuge to run unmanned during periods when the plant is not normally staffed. There is also a benefit to anammox due to the increase in consistent flow to it.

◇Re-inspection of previously identified sump pump violations will begin shortly. Cody will forward the letter that the City sends to the homeowners to Nick.

◇Ben reported that an Operations seasonal intern has been hired. The intern will work with WTRRF Operators from May to August. This intern is from UW Oshkosh and is majoring in Environmental Studies Policy and Law.

◇Ben, Cody, an Operator and Lab Analyst will be attending the Government Affairs Seminar on February 20. The meeting will be held at the Radisson Hotel in Fond du Lac. PFAS and phosphorus will be two of the agenda topics.

- **Facility Master Plan Update**

WTRRF staff met February 13, 2020 with Donohue, Jacobs Engineering & Black & Veach. Phosphorus & TSS Options were evaluated based on an economics, reliability, operability, flexibility and how these would function over time.

Modeling of Flow Coming into the Plant

◇Some type of equalization tank (EQ) that allows for flow to be equalized over a specific period of time was explored. Above ground storage is cost prohibitive for the volume necessary to be held. Below ground storage is an option dependent on soil quality. Off-site storage is an option to be explored.

◇Headwork's may need to be upgraded to address capacity limitations. During high flow events all influent pumps are running wide open. If there would be a pump failure then sewer back-ups would occur. Influent pumping, screening, and grit removal would all be addressed.

Current On-Site Tankage for Excess Flow

◇Current excess flow tanks at a minimum, need to undergo rehabilitation, or be torn down and re-built. Currently, because of their dilapidated condition, they can only be used for storage, and not as a clarifier.

Bio-P/Solids Removal

◇Modeling shows that an additional carbon source is necessary for phosphorus removal. WTRRF currently uses Pepsi soda crush to fill this need.

◇Secondary Clarification and RAS pumping should be improved to reduce solids and therefore reduce phosphorus. Currently, a larger fraction of the phosphorus that needs to be removed is in the solids.

Filtration

◇Costs have come down somewhat since this was first explored. Cloth filter choices can be based off full design capacity, average flows, or one that can accommodate total flow. This would address TSS only, not phosphorus, however, phosphorus would be removed through filtration of the solids.

Watershed Approach

◇Adaptive Management is not as likely because of an addition that the WDNR added to the TMDL report, Appendix K. This makes it less feasible as an option because of the way it's set up for our watershed. Adaptive Management would require the addition of two to three full-time positions for both Fond du Lac County and for WTRRF.

◇Water Quality Trading would require the addition of one full-time employee for both Fond du Lac County and for WTRRF.

◇Water Quality Trading has interim credits for a five year period and long term credits, with interim credits being the most likely scenario. These credits would be used in instances when WTRRF is unable to meet phosphorus discharge limits.

Donohue & Associates will be giving their presentation to the OSG at a later date. Cody will bring a handout with more information to the March TSC meeting.

- **Clearwater Reduction Fund – Continued Discussion from December Meeting**

This item will remain on the agenda for the March meeting.

◇Paul will forward the Jeff Mazanec presentation to all TSC members.

◇Paul has spoken with Jeff about his thoughts on doing the allocation work, scope and cost. Jeff said it's a possibility once the details are worked out and agreed upon by the parties.

◇Jordan will be speaking with John St. Peter this week. Cody, Ben and Paul will meet with Jordan prior to that phone call. John St. Peter will draft a response to the City sometime after this meeting.

◇OSG budgets will be ready for the April TSC meeting.

Adjournment

◇A motion to adjourn was made by Nick Leonard and seconded by Paul DeVries. The motion passed. The meeting adjourned at 2:20 p.m. The next meeting is scheduled for March 17, 2020.