

TECHNICAL STANDARDS COMMITTEE
MINUTES
MONTHLY MEETING
WCTS Conference Room
700 Doty Street
Tuesday 1:30 PM, May 16, 2017

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

Roll Call – Present were Jordan Skiff, Paul DeVries, Autumn Fisher, Nick Leonard and Eric Otte.

Approval of April Minutes– A motion was made by Jordan Skiff and seconded by Paul De Vries to approve the April 2017 meeting minutes. The motion carried.

Communication Session

Reports on:

- **Correspondence Relating to the Regional Wastewater System**
 - ◊None
- **Records Exchange – Update of Contact List**
 - ◊None
- **Sewer or System Improvements Anticipated, in Progress or Completed (Extensions or Rehabilitations)**
 - ◊Paul reported that Parker Excavating began utility and street reconstruction this week. Visu Sewer found that the pipe is degrading on West Johnson Street. Paul will be meeting with Visu Sewer on May 18, 2017 to discuss if the approach that the City is taking is appropriate.
 - ◊Eric reported that the sanitary district boundary has been amended to include the sewer extension for Rogersville Rd. in Fond du Lac SD#3. Public hearings will be held next on special assessments.
 - ◊Nick said the sewer will be relayed on the south end of Indiana Avenue in late 2017.
- **FP or RSAP Amendments Anticipated, in Progress or Completed**
 - ◊None
- **Metering and Sampling**
 - ◊Paul is still working on getting the software installed for the permanent flow meters.
 - ◊Autumn reported that quarterly OSG meter calibrations are being conducted this week by B & M Technical Services. She also reported that there is weak signal transmission at Deadwood Point. She thinks that the telemetry may need adjustment or the antennae needs to be raised. SCADA trends indicate that the signal is intermittent. Eric suggested it may be due to the height of the trees surrounding the antennae. Autumn will have it checked out by B & M Technical Services while they are here performing the meter calibrations. She will let Eric know what the outcome is.
 - ◊Autumn reported that condensate was found on the bottom of the transducer at Empire #3, causing inaccurate readings. The water is getting into the conduit and following it down and around the transducer. The transducer has been readjusted and remounted to eliminate the water from coming down the conduit. The usage for the first quarter of 2017 was estimated due to the inaccuracy of the readings.

◇Eric reported that La Clare Farms has still not complied with the request to implement a metering and sampling program. Badger Labs spoke with Eric on May 15, 2017 and said as of that date there had been no signed agreement with Badger Labs and no implementation plan. Eric emailed the district, their attorney, and copied the owner of the goat farm, stating that the district will hire Badger Labs and then bill La Clare if La Clare doesn't act.

- **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 Construction Standards and TGM Revisions**
◇None
- **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

- **WCTS Operations Update**
◇Biological Phosphorus Removal (BPR) continues to perform well. The hauler bringing in the beet juice will discontinue bringing their product here now that they have land to discharge to. To date, only 16% of the phosphorus removal chemical budget has been used. Struvite build-up has been experienced in the piping, heat exchangers, and pumps. WRRF has been able to achieve .2 mg/L total phosphorus when doing BPR.
◇Watershed Sampling begins this week for the season. The results will eventually be integrated into our website. There are 17 different county sampling locations.
◇The Biorem and Unison systems were taken down for maintenance and cleaning. The Sulphur that is removed during this process has to be disposed of. WRRF has a farmer interested in adding this Sulphur to his fields. WRRF staff met with the DNR and after some preliminary testing approved the Sulphur to be mixed with our biosolids and then could be land applied. This will produce savings to the plant by not paying an additional landfill disposal fee.
◇The Ovivo Pilot has had a few problems. This ceramic membrane pilot is being conducted at no charge to the WRRF. Ovivo representatives were here last week to troubleshoot issues with rates and pressures across the membranes. WRRF is the first installation of this pilot.

◇Autumn met with DNR representatives to find out what it would mean to WRRF to obtain Class A biosolids status. WRRF biosolids are currently categorized as Class B but our biosolids are meeting the testing perimeters for Class A. Obtaining Class A status gives the plant more options for disposal of biosolids than we currently have, such as the biosolids being applied to crops that are used for human consumption. The plant biosolids meet Class A biosolid requirements for quality but not for time and temperature. WRRF would not be able to feed the digesters as a batch, hold it for 24 hours, and then release it as a batch. WRRF was trying to meet Class A requirements operationally without any infrastructure changes or upgrades. These discussions will continue if WRRF installs a dryer in the future.

- **Deammonification Status**

◇Autumn met with Strand Associates on site last week to talk about design considerations. One unknown is where the reactor would be placed and where the centrate will be held before it goes into the reactor.

- **Multi-Discharger Variance**

◇Presently working on the application which will be submitted in June/July. Sometime mid-summer there will be a stakeholder meeting. Waste load allocations will be discussed at a later date. The MHI is .995%. The TMDL is not complete yet and our permit application is due before the TMDL is complete. For a short period we will be operating under an expired permit. Part of the MDV takes into consideration industrial impact and factors in the affect the rate will have on industry. What will happen if industry leaves?

- **NFDL Tank**

◇WRRF personnel conducted a trial test of the 3-million gallon NFDL storage tank. The gate was opened and closed and flows monitored. The tank was tested for about four hours during a small rain event. Flows at the plant were reduced during that period from 1,900 gpm to 900 gpm. Protocols for operation of the tank during a significant rain event will be handled on a case-by-case basis. Autumn speculated that if the tank was in operation during the last significant rain event that the collection system would see some relief, as the NFDL tank capacity would help divert flow, providing relief to the plant. It would also allow for more plant capacity and allow more time before blending would have to occur. Nick wasn't sure how much could be pulled off without having a meter on that line. Autumn reiterated that the City would never hinder the use of that tank if North Fond du Lac should need to use it. Nick reminded the group that NFDL cannot take on any expense for the tank and that at this time he will not ask for reimbursement for the cost of electricity to run the pumps unless the use of the tank by the City becomes more consistent.

- **2016 True Up**

◇There were no specific concerns with the True-Up as presented. Nick acknowledged John Mayer's summary of the 2016 True-Up increase. Nick said that not using flow-weighted averages causes NFDL to pay for more pounds of solids than they are actually sending to the plant. Nick has maintained that fact to be true for some time. Nick suggested that this calculation should be changed in the next renegotiation of the Sewer Agreement.

- **2018 Budget and CIP**

◇Autumn distributed the updated proposed CIP and explained changes that were made to it. She explained the addition of a Facility Master Plan and the addition of a HSW tank, which will allow the direct feeding of HSW waste to the aeration basins to help drive BPR. Nutrient Harvesting needs to be moved up in the proposed CIP because of the negative impact on dewatering, struvite, equipment, and how this will impact the phosphorus loadings. Because of the technical nature of these projects, and to give a clear explanation

to the OSG members, Eric requested Autumn prepare a summary of the proposed CIP and email it to him. Autumn has been invited to, and accepted, attendance at a meeting of the OSG, at which time this information will be presented to them. Nick suggested this meeting take place in July or August. Autumn agreed with Nick that the OSG members should be able to review and comment on this proposed CIP before it is approved later this fall. Paul asked that this information not be shared with the OSG until after June 7, 2017 at which time the City Council will be given the information.

- **Miscellaneous**

◇Autumn will be conducting a tour of the plant for the City Council on June 7, 2017. At that time the Council will hear about the phosphorus compliance options, the costs involved to meet the new limit and what the WRRF is doing to prepare for that new limit. The goal is to educate City Council members on the options. They will also be informed about the MDV application and the timeline of the TMDL, MDV and the WPDES Permit renewal.

Adjournment

◇A motion to adjourn was made by Paul De Vries and seconded by Autumn Fisher. The motion passed. The meeting adjourned at 2:47 p.m. The next meeting is scheduled for June 20, 2017.