



TriCo Regional Sewer Utility

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JOINT CAPITAL & CONSTRUCTION COMMITTEE AND BOARD OF TRUSTEES MEETING

Tuesday, September 6, 2022 @ 4:30 P.M.
7236 Mayflower Park Drive, Zionsville, IN 46077

AGENDA

1. Public Comment
2. Capital Project Updates
3. Draft Permit Modification from IDEM
4. Buried Manhole Summary
5. Other Business

Next Scheduled Meeting: October 3, 2022 @ 4:30 pm



MEMORANDUM

To: C&C Committee
From: Wes Merkle
Date: August 31, 2022
Subject: Capital Project Updates

The following updates are provided for ongoing capital projects. Please refer to the Capital Project Fact Sheets for background information on individual projects.

- #1902 – TriCo WRRF Expansion

Crews continue making progress on punch list work. Installation of new plating systems on grit and influent splitter structures is nearly complete. Modifications need to be made to the new grit washers.

TriCo and Thieneman staff are reviewing change requests and closeout paperwork. We expect to negotiate a final change order in the coming weeks.

- #2201 Lift Station 1 (Keystone/99th Street) Wet Weather Pump Replacement & Lift Station 2 (106th/Spring Mill) Pump #3 Replacement

Delivery of replacement pumps is expected this fall. Staff will install the new pump at Lift Station 2. Pump installation at Lift Station 1 includes wet well piping and lining; staff will soon request quotes for installation.

- #2202 Lift Station 8 (Laurelwood) Reconstruction, #2207 Lift Station 26 (Jackson's Grant) Parallel Force Main, and #2208 Lift Station 16 (Michigan/Sycamore Street) Reconstruction

Design is wrapping up on all three projects. IDEM permits are anticipated in the coming weeks. Staff plans to proceed with public bidding in October and November. Construction is anticipated to run through mid-2023.

- #2204, 2205 and 2206 Lift Stations 11, 14 and 26 Backup Generators

Installation of new generators, automatic transfer switches, controls and equipment will be quoted in the coming weeks. Delivery of new generators and automatic transfer switches is expected early 2023. Staff expects to receive quotes

for a new control panel and variable frequency drives for Lift Station 14 shortly; delivery is anticipated in the same timeframe. This fall staff will receive quotes for installation of new equipment.

- Lift Stations 18, 20 and 21 Pump Replacements and Lift Station 17 pump impeller upgrades

Some equipment has been delivered; the rest is anticipated this fall. Staff will install new pumps at Lift Stations 18 and 20, and new pump impellers at Lift Station 17. Pump installation at Lift Station 21 includes wet well piping and valve replacement, which will be quoted soon with aforementioned work at Lift Station 1.

- Biosolids Building Addition

CMID will soon finish engineering and design for the addition project. The new space includes two bays – one for climate-controlled storage of the vector truck and the other for a workshop. This project incorporates lighting and HVAC improvements to the existing building. Bids will be received in September. Construction costs are now anticipated to be at least \$300,000, which is substantially over budget, despite early efforts to reduce costs.

Staff anticipates proceeding with design of the following projects late this year:

- #2301 Lift Station 10 (Ashbrook) Upgrades
- #2302 Lift Station 23 (126th Street/West Clay Elementary) Upgrades



MEMORANDUM

To: C&C Committee

From: Scot Watkins, Superintendent

Date: August 29, 2022

Subject: NPDES Permit Update

TriCo received the draft NPDES permit issued by IDEM on July 15, 2022. The draft permit includes the requirement for toxicity testing on a quarterly basis for the duration of the permit. At present, TriCo has no industrial sources tributary to the facility and maintains an excellent compliance record. As a result, the inclusion of this testing without consideration of a lessening of frequency over the life of the permit places a monitoring and financial burden on TriCo that does not appear to be warranted. Staff requested that the language be included in the permit limiting the frequency to bi-annually after a year period of quarterly testing with a demonstration of no toxicity. IDEM agreed to reduce the toxicity testing to bi-annual testing.

The draft permit also includes an effluent limit for free cyanide based on a Reasonable Potential to Exceed (RPE) analysis conducted by IDEM on May 2, 2022. After discussion with IDEM, it appears this RPE analysis was based on a very limited water quality data set of free cyanide in Eagle Creek. Again, noting that TriCo has no industrial contributors, the inclusion of a free cyanide effluent limit does not seem to be warranted and poses a significant financial burden in monitoring costs. While we recognize this limit was the result of the RPE analysis, staff requested that this draft permit include a provision to reassess the RPE analysis and elimination of the resultant effluent limit, and that TriCo would assist in the augmentation of the available data of free cyanide in Eagle Creek. Staff requested a 36-month schedule of compliance which was granted and allow time to collect more data and only report cyanide levels with no limits to meet for the first 36-months. Due to federal rules governing effluent data, IDEM must insert a limit if there is reasonable potential to exceed the water quality criterion for that parameter. The receiving stream has a Q7,10 flow of zero cfs. Therefore, IDEM assumes that the background concentration of that parameter is zero. In our case, it is not worthwhile to conduct additional sampling for free cyanide in the receiving stream for this reasonable potential model. However, IDEM can re-evaluate additional weekly free cyanide data after 6 months beyond the effective date of the renewal permit, to see if a reasonable potential is to exceed or not. If there is not a reasonable potential to exceed, IDEM may take the permit limit out with a permit modification at that time. Staff requested this to be added to the schedule of compliance and it was accepted by IDEM.



MEMORANDUM

To: C&C Committee

From: Aaron Strong

Date: August 29, 2022

Subject: Buried Manholes

TriCo owns and maintains 6,017 manholes located in streets, front yards, backyards, side yards, remote easements, and ROWs throughout the service area. To manage this critical infrastructure, staff has broken the Utility into three-year cleaning and inspection cycles. Staff performs roughly 2,000 manhole inspections annually and logs these into the data asset management system. Manholes are found utilizing GIS mapping embedded in CarteGraph. Due to the large scope, manholes that cannot be located in a reasonable amount of time are placed in a queue labeled Buried Manhole/Engineering Assist. In 2022, 53 structures (or 2.45%) of manholes inspected fell into this category. Engineering Staff armed with as-builts, GPS units and historical manhole photos performs a more in-depth search for these missing structures. Of the 53 manholes in this queue:

- 26 were located with no further corrective action needed.
- 8 manholes were under warranty and sent to builders and developers to be raised to grade.
- 19 structures were raised to grade in-house with 2-3 inch drop in adjusting rings.

A majority of the buried manholes in a given year are in newer construction and adolescent neighborhoods. Homeowners and builders introduce softscape with mulch beds and grasses attempt to hide the utility boxes and manholes from sight resulting in buried manholes. Staff reviewed data over the last 5 years and found that an average of 15 manholes are raised to grade yearly with minimal repeat offenders. In conclusion, TriCo has a robust manhole inspection program which includes new project punch list inspections, project warranty inspections, our 3-year manhole inspection program, as well staff in the field reporting manhole issues while performing other duties.