



TriCo Regional Sewer Utility

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JOINT CAPITAL & CONSTRUCTION COMMITTEE AND BOARD OF TRUSTEES MEETING

Monday, March 10, 2025 at 4:00 pm
7236 Mayflower Park Drive, Zionsville, IN 46077

AGENDA

1. Public Comment
2. Dedications
3. Lift Station 3 Replacement Pumps
4. Lift Station 28 Pumps and Controls
5. #2503 WRRF Pump and Controls Replacements
6. Capital Project Updates
7. Other Business

Next Scheduled C&C Committee Meeting: Monday, April 7 at 4:30 pm



MEMORANDUM

To: Capital and Construction Committee

From: Wes Merkle

Date: March 5, 2025

Subject: Dedications

Flora on Spring Mill Section 2 and The Edge sanitary sewers are complete and ready for dedication. Staff recommends acceptance of these sewers.

Recommended Action: Approve the dedication of Flora on Spring Mill Section 2 and The Edge sanitary sewers.



MEMORANDUM

To: Capital and Construction Committee
From: Wes Merkle
Date: March 5, 2025
Subject: Lift Station 3 Replacement Pumps

One of two pumps at Lift Station 3 (Northern Heights) failed; it is not repairable and must be replaced. The other pump is performing poorly. Existing pumps are 14 years old. Pump replacement was previously planned for 2031 when existing pumps would be 20 years old. Staff reviewed EDU and flow data to confirm adequate pump sizing and determined that the pumps need to be upsized to accommodate current and buildout flows.

The following quotes were received for new pumps at Lift Station 3:

Flygt (Xylem Water Solutions USA, Inc.)	\$28,042.50
Grundfos (American Pump Repair & Service, Inc.)	\$24,733.00
KSB (Straeffler Pump & Supply, Inc.)	\$17,985.00

Existing pumps are Flygt. All three manufacturers have good reputations in our industry. While TriCo has long preferred Flygt pumps for consistency in stocking spare parts and staff familiarity with maintenance and repair, staff has had positive experiences with KSB and Grundfos as well. Unfortunately the best hydraulic fit by KSB has larger motors that necessitate substantial control panel modifications, and staff does not believe the savings offered by Grundfos are worth making a change in this case. Staff recommends proceeding with Flygt.

Delivery is anticipated late May. Once received, staff will install the new pumps. When the capital budget was approved last fall this replacement was not an anticipated need this year, so it will instead be charged to #2355 Future Repairs, Replacements, Main Relocations & Extensions in the approved capital budget, and the 2031 project will be removed.

Recommended Action: Approve the purchase of Lift Station 3 replacement pumps from Xylem Water Solutions for \$28,042.50.



MEMORANDUM

To: Capital and Construction Committee

From: Wes Merkle

Date: March 5, 2025

Subject: Lift Station 28 Pumps and Controls

Staff received quotes for pumps and peripheral materials for Lift Station 28 (Union Woodlands). In this case staff prefers Flygt pumps for consistency in stocking spare parts and familiarity with maintenance and repair needs of smaller lift station pumps. The developer approved proceeding with Flygt. Pump delivery is anticipated late May.

Our instrumentation and controls engineer is wrapping up design of the control panel for this lift station. Once design is complete, staff will request quotes from multiple reputable local panel shops to build the new control panel. This item is expected to have the longest lead time and could delay completion of the project, so in lieu of waiting until the April Board meeting to review quotes, we request the Board allow staff to proceed with purchasing from the lowest responsive and responsible quoter up to a maximum amount comparable to recent lift station control panel builds.

Equipment will be installed by the developer's construction contractor. All major lift station equipment will be procured by TriCo and reimbursed by the developer in accordance with our sewer service agreement.

Recommended Action: Approve the purchase of Lift Station 28 pumps and peripherals from Xylem Water Solutions for \$40,635.50, and approve purchasing a new control panel from the lowest responsive and responsible quoter, as determined by staff and subject to developer approval, in an amount not to exceed \$75,000.



MEMORANDUM

To: Capital and Construction Committee
From: Wes Merkle
Date: March 5, 2025
Subject: #2503 WRRF Pump and Controls Replacement

This project includes replacing dry-pit submersible pumps WASP5501 & RASP5501 which both withdraw sludge from Clarifier 4 and have been in service for 20 years. Aging VFDs and controls will be updated for reliability and consistency with other clarifiers.

The following quotes were received for new pumps:

Flygt (Xylem Water Solutions USA, Inc.)	\$53,539.75
Grundfos (American Pump Repair & Service, Inc.)	\$57,646.00
KSB (Straeffler Pump & Supply, Inc.)	\$73,500.00

Existing pumps are Flygt. All three manufacturers have good reputations in our industry. While TriCo has long preferred Flygt pumps for consistency in stocking spare parts and staff familiarity with maintenance and repair, staff has had positive experiences with KSB and Grundfos as well. Changing to KSB or Grundfos would separately require modifications to suction and discharge piping, as well as the pump stands, which have different dimensions among pump manufacturers, adding substantial cost to the project.

Delivery is anticipated late May. Staff will solicit quotes for installation of new equipment in the coming weeks.

Recommended Action: Approve the purchase of WASP5501 & RASP5501 replacement pumps from Xylem Water Solutions for \$53,539.75.



MEMORANDUM

To: Capital and Construction Committee
From: Wes Merkle
Date: March 5, 2025
Subject: Capital Project Updates

Various Small Sewer Extension Projects

Crews completed installation of low pressure sewer mains at Lacomia Estates (near 96th Street and Spring Mill Road) and Six Points Road, as well as the short gravity main extension at Lift Station 22 (North Augusta). Punch list work is ongoing.

Union Woodlands

Deep interceptor sewer installation is underway. Section 1 sewers, including the temporary lift station, should be complete this summer. Section 2 is expected to follow.

Staff requested and received quotes for lift station pumps and peripherals. Control panel design is wrapping up and will be quoted out shortly. Many items have a long lead time. Once equipment is received, it will be installed by the developer's construction contractor and TriCo will be reimbursed by the developer for equipment costs. Sewer installation should be complete by summer.

Lift Station 3 Pump Replacements

Staff requested and received quotes for new pumps. New pumps are sized for buildout conditions in this basin. Once received, staff will install the new pumps. Minor modifications are needed to the control panel to accommodate the new pumps.

#2601 Little Eagle Creek Interceptor Extension

Updated appraisals for easements needed to construct this project are complete. The next step is to contact property owners and make offers based on appraisals.

#2604 WRRF Clarifier 4 Scum Collection Upgrade

Part of the drive assembly for Clarifier 4 recently failed. Staff continues to investigate repair options and costs, including full replacement of the clarifier equipment which is scheduled for next year in the capital budget. Preliminary quotes for full replacement are substantially more than budgeted. That budget was based on actual costs for similar equipment packages included in the recent expansion project.

WRRF Sludge Holding Tank 3 Pump Replacement

Staff requested and received quotes for a replacement pump. Once received, staff will install the new pump.

#2503 RAS and WAS Pump Replacements

This project includes replacing RAS and WAS pumps, variable frequency drives, and controls serving Clarifier 4. This equipment is 20 years old and based on recent service history staff believes these pumps need to be replaced. VFDs and controls will be updated for reliability and consistency with other clarifiers.

Staff received quotes for new pumps, VFDs and controls. Once new equipment is ordered, staff will request quotes for installation.