



# REPORT TO UC

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**ITEM NAME:**

Alternate Lift Station #5  
Pump Replacement

**MEETING DATE:****PRESENTING COMMITTEE:**

Utility Committee

**COMMITTEE CONTACT:****STAFF CONTACT:**

Mark Mackey  
Operator – Kronenwetter  
Water Utility

**PREPARED BY:**

Leonard Ludi  
Public Works Director

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**ISSUE:** One of Lift Station #5's pump was recently replaced due to seal failure. It is just a matter of time before the alternate pump will also begin to fail due to its age. The alternate pump is near or at the end of its design life, it was installed in 1999, as the pump impeller is very worn down.

**OBJECTIVES:** The mission of the Village of Kronenwetter Water and Sewer Utility is to provide clean, safe drinking water. With that, the Water & Sewer Utility maintains a wastewater facility infrastructure that minimizes mechanical failures and sewer back-ups.

**ISSUE BACKGROUND/PREVIOUS ACTIONS:**

As mentioned above, Lift Station #5 pumps were over 23 years old. Although they have been maintained in good running order of this period of time, pump wear out and needed to be replaced. This will be the case for all pumps in the future.

**PROPOSAL:** Replace this failing Lift /Station #5 pump as soon as possible. Although the availability of the recent pump that was replace was not an issue. That is certainly not the case when you least expect a pump failure in the future.

**ADVANTAGES:** Aging equipment require preventative planning base on estimated life of the equipment. Replacement of equipment before it fails will benefit the continued management of wastewater facility infrastructure that minimizes mechanical failures and sewer back ups.

**DISADVANTAGES:** Potential breakdown and interruption of services. Lift Station #5 also carries the load of Lift Stations 11, 8, & 4 on the West end of the Village

**ITEMIZE ALL ANTICIPATED COSTS (Direct or Indirect, Start-Up/One-Time, Capital, Ongoing & Annual, Debt Service, etc.)**

**Quantity 1** – ShinMaywa CNWX Submersible Wastewater Pump  
Specification: 10 HP, 230 Volt, Three Phase, 4” inch Discharge and  
3” inch Solid Size, with 50’ foot cord. **Total Cost \$6,373.00**

**RECOMMENDED ACTION:** Replace the failing Lift Station #5 for \$6,373.00 through B&M Technical Services Inc.

**OTHER OPTIONS CONSIDERED:** No other alternatives or options have been identified.

**TIMING REQUIREMENTS/CONSTRAINTS:** As soon as possible.

**FUNDING SOURCE(s) – Must include Account Number/Description/Budgeted Amt CFY/% Used CFY/\$**

Remaining CFY  
Account Number: #650-53650-826-000  
Description: Replacement LS #5 Pump (\$6,373)  
Budgeted Amount: \$360,000  
Spent to Date: \$30,600  
Percentage Used: 8.5%  
Remaining: 323,027

**ATTACHMENTS (describe briefly):** B&M Technical Services, INC. proposal dated 9/28/2023