

Pine City Area

Wastewater Treatment Ponds

Needed Upgrades

Communities/ Homes Served

4/1,825

Treating Wastewater for Southern Pine County

BACKGROUND:

The City of Pine City treats wastewater for nearly 30% of the homes in southern Pine County, including:

- City of Henriette
- Pokegama Lake Sewer District
- Cross Lake Sewer District
- City of Pine City

The Pine City Pond system includes:

- 3 Aerated Ponds (3.4 acres each)
- 2 Primary Stabilization Pond (30 acres each)
- 1 Final Clarifier Pond (38 acres)

PROJECT SCOPE:

- Add riprap to stabilize and protect pond banks
- Replace Aeration system with more efficient, possibly solar system
- Replace existing bar screen to reduce labor and increase efficiency
- Project Benefits

PROJECT BENEFITS:

- Improved water treatment within the pond system
- Reduced O&M costs with more efficient processes
- Improved water quality in receiving water – Snake River

FUNDING:

- Project is on PPL list
- City has undertaken a cost-of-service study to review rates
- City is working with served districts on updated agreements
- City has requested Federal funding in addition to State Funding
- Replicate a bar chart like the Big Lake example

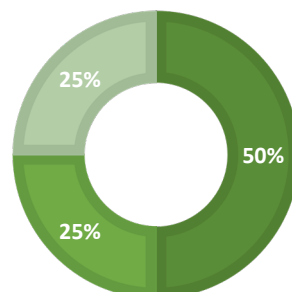
PROBLEM:

- 106-acre pond system built in 1960's
- Aeration and screening added in 1970's
- No significant improvements in over 50 years



Aging bar screen with corrosion issues

PROJECT FUNDING



■ State of Minnesota Bond Request - \$7,000,000

■ PFA Low Interest Loan - \$3,500,000

■ Federal Funds - \$3,500,000

Thank you,

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Thank you for your consideration of Pine City's Bonding Request