

CHARTER TOWNSHIP OF WHITE LAKE



PUBLIC HEARING NOTICE RELATIVE TO WATER SYSTEM IMPROVEMENTS 2023 DRINKING WATER STATE REVOLVING FUND (DWSRF) PROJECT PLAN

Notice is hereby given that the Township Board of the Charter Township of White Lake will hold a Public Hearing on proposed improvements to the existing water system in White Lake Township, Michigan for the purpose of receiving comments from interested persons.

THE HEARING WILL BE HELD ON:

DATE: June 21, 2022

TIME: 7:00 PM Local Time

PLACE: White Lake Township
Township Annex
7527 Highland Road
White Lake, Michigan 48383

The purpose of the proposed capital improvements is to update and improve the water system for Township water customers. Construction will include:

- Installation of approximately 17,350 feet of 12-inch water main from Bogie Lake Road to Union Lake Road.
- Installation of an Iron Filtration Plant and upgrades at the Twin Lakes I Wellhouse site.
- Secondary emergency connection to the Waterford Township system.

The proposed projects will provide redundancy and reliability within the system while also supplying high quality, treated water throughout the system.

The total estimated Project Cost for the work is approximately \$9,500,000 to be paid over a 20-year period using a State of Michigan Low Interest Loan. The interest rate on the loan will be approximately 2 percent.

Copies of the proposed Project Plan will be available for public review on May 20, 2022, at the following location:

White Lake Township
Township Annex
7527 Highland Road
White Lake, Michigan 48383

If you have questions, or would like to submit a written statement for the Public Hearing Record, call or write:

Aaron Potter, Water Director
White Lake Township
7525 Highland Road
White Lake, Michigan 48383
Phone: (248) 698-3300

Written comments will be entered into the public hearing records of the Project Plan if received prior to **12:00 pm on Monday, June 20, 2022**. All envelopes must be clearly labeled as "Public Hearing for 2023 Water System Improvements Drinking State Water Revolving Fund Project Plan". Physically challenged persons needing assistance or aid to attend the meeting should contact the White Lake Clerk's Office by writing or calling 248-698-3300 at least 5 days prior to the hearing.

Charter Township of White Lake
Anthony L. Noble, Clerk



CHARTER TOWNSHIP OF WHITE LAKE
DEPARTMENT OF PUBLIC SERVICES
2023 DRINKING WATER STATE REVOLVING FUND PROJECT PLAN
PUBLIC HEARING



June 21, 2022

7:00 PM



What is the DWSRF Program?

- Michigan's Drinking Water State Revolving Fund (DWSRF) program is a low-interest loan financing program that assists communities with the construction of needed drinking water infrastructure improvements.
 - In 1996 the Drinking Water State Revolving Fund was established by amendments to the Safe Drinking Water Act (SDWA).
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What is the DWSRF Program?

- Each fiscal year, Congress authorizes an amount to be appropriated that is allocated among the States.
 - 256 Million available for FY2023 projects:
 - Improving drinking water treatment
 - Fixing leaking or old water mains
 - Improving sources of water supply
 - Replacing or constructing finished water storage tanks
 - Other infrastructure projects needed to protect public health
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Public Hearing Requirements

- Description of Drinking Water Infrastructure & Alternatives
 - Description of Recommended Alternatives w/ Costs
 - Discussion of Project Financing
 - Description of Social & Environmental Impacts/ Mitigation of Impacts
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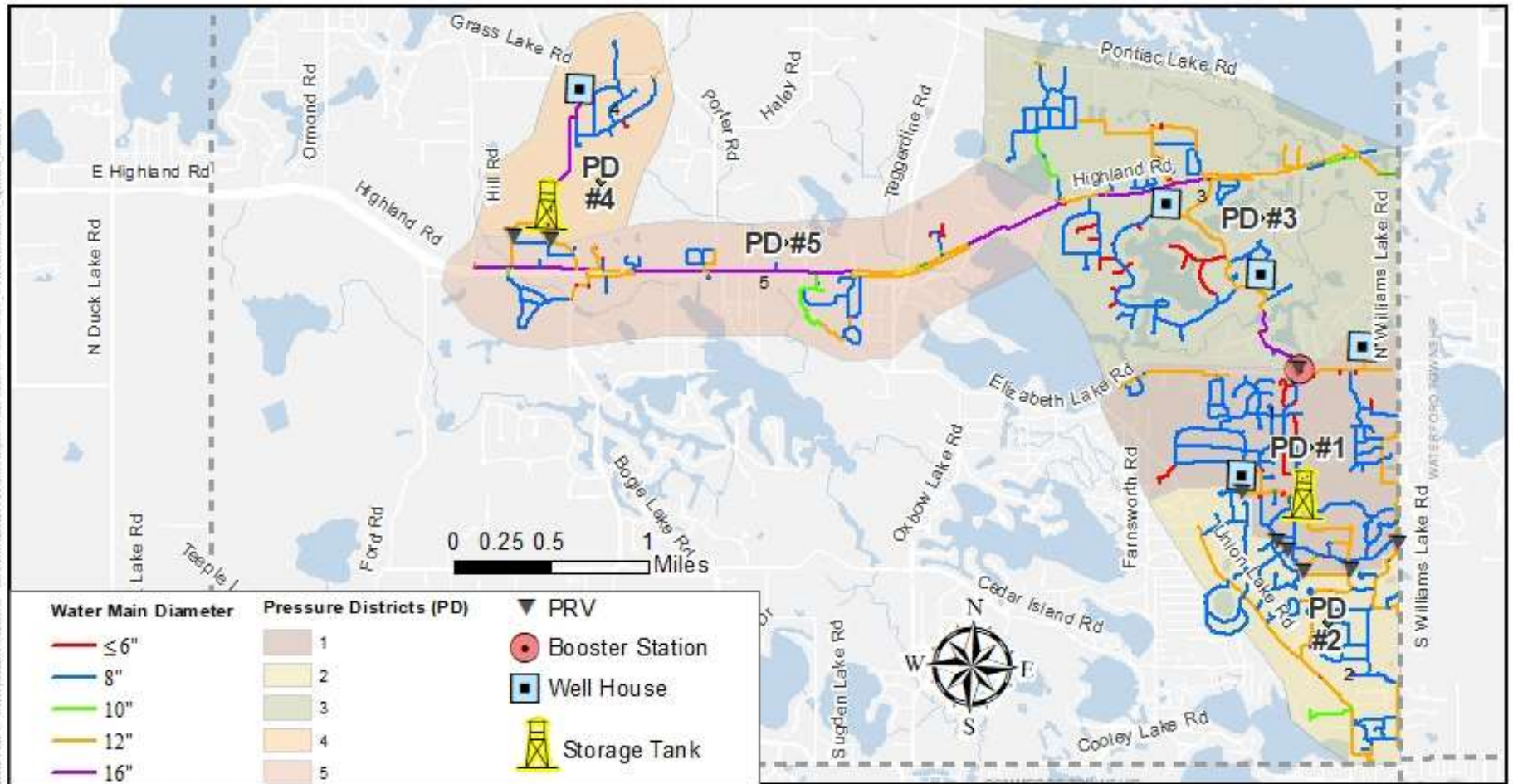


Township Water System Needs

- Iron Removal/Upgrades to Twin Lakes I Wellhouse
 - Increase in water quality
 - Completion of 2nd emergency connection to Waterford Township water system
 - Added redundancy/reliability in emergency situations
 - Water Main extension from Bogie Lake Road to Union Lake Road
 - Added redundancy/reliability throughout the system
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PRESSURE DISTRICTS OF WHITE LAKE TOWNSHIP

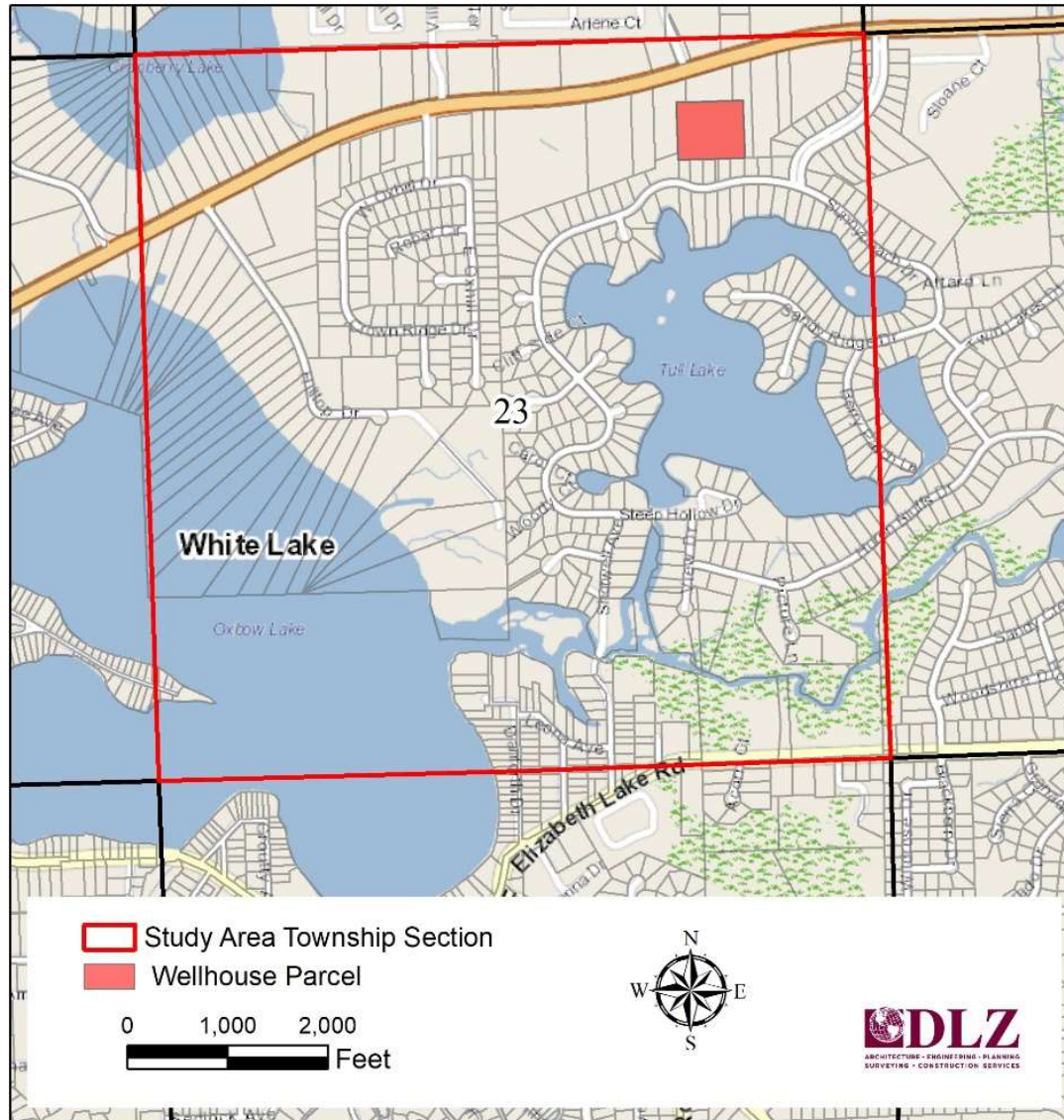


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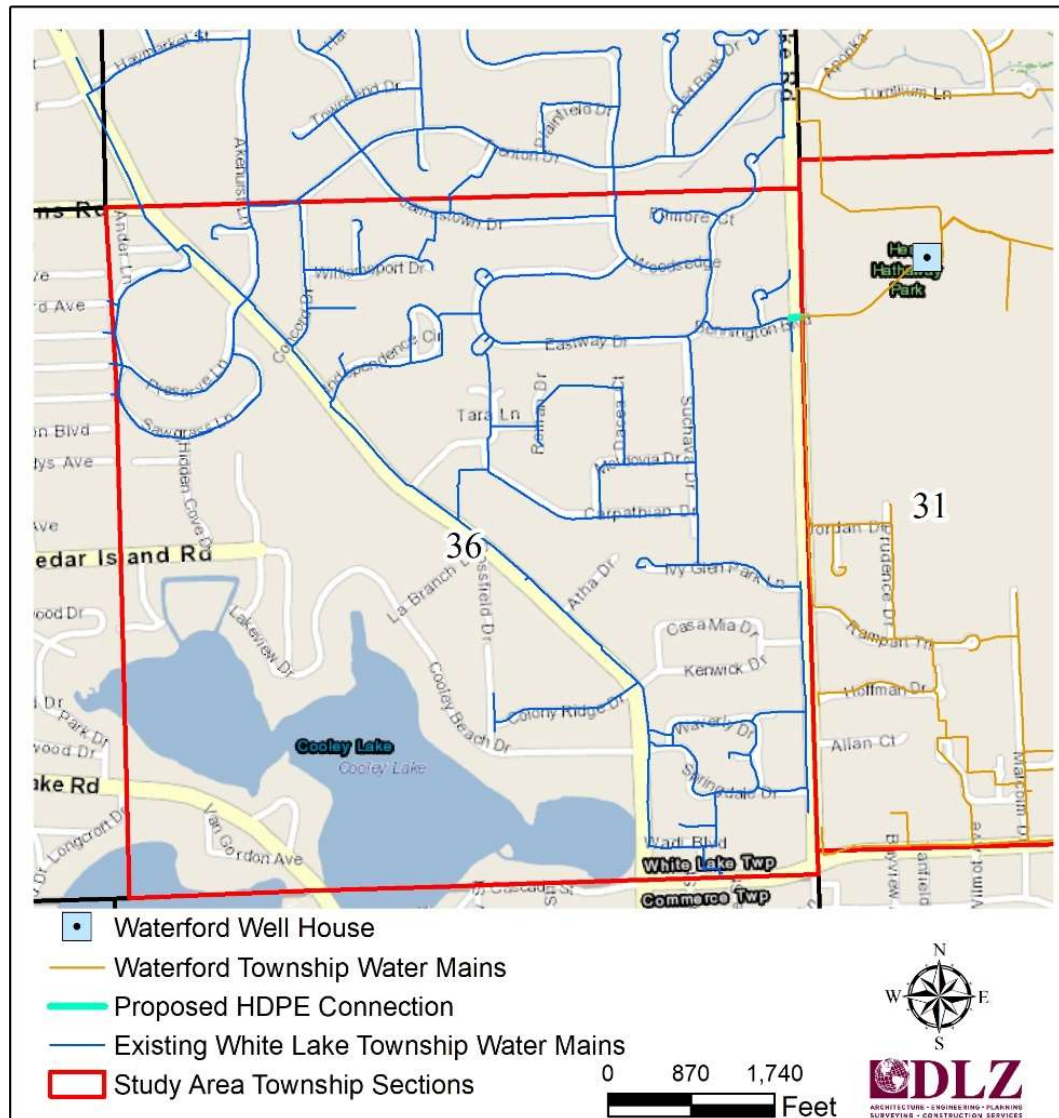


TWIN LAKES 1 WELLHOUSE



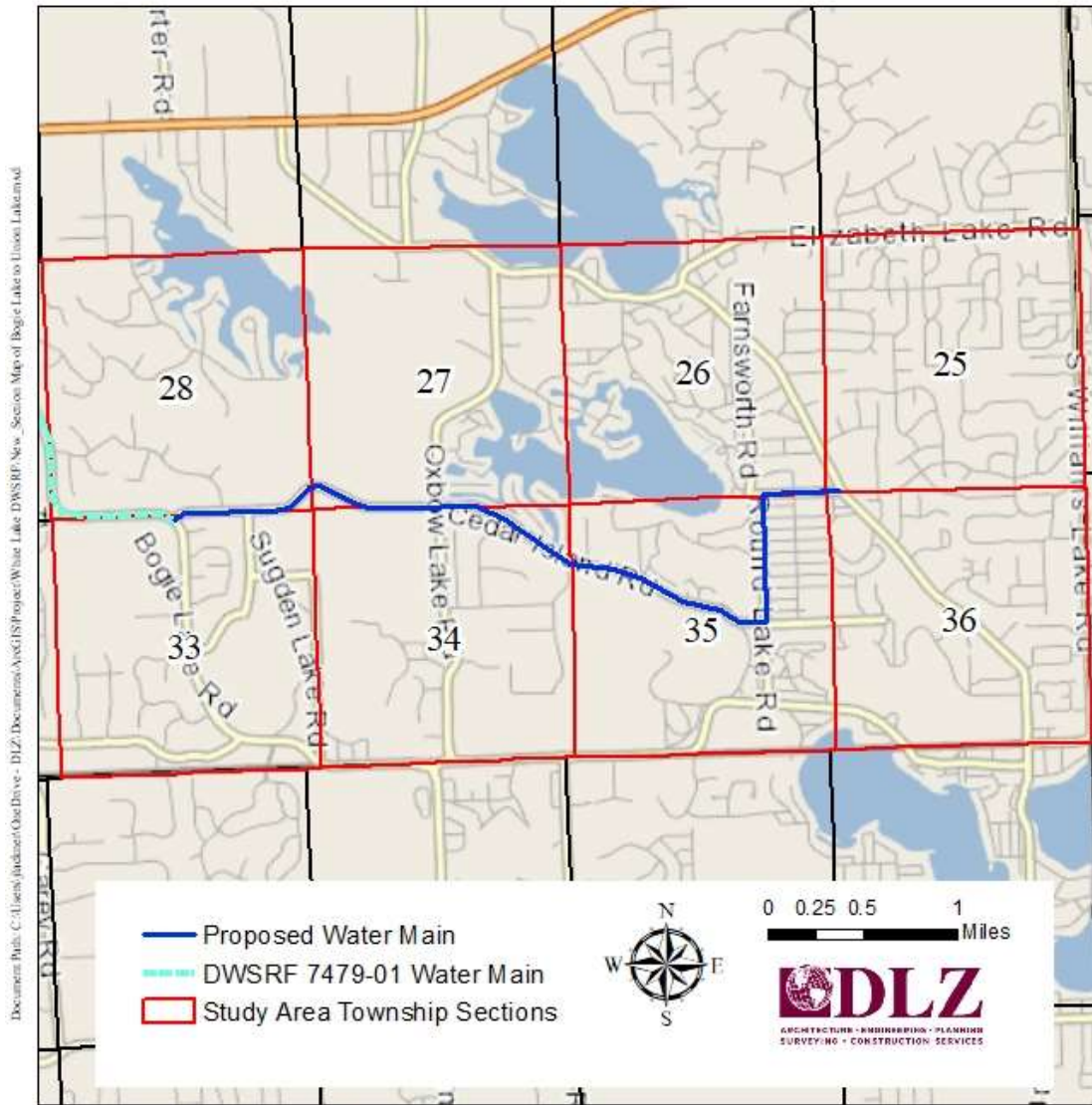


SECOND EMERGENCY CONNECTION TO WATERFORD TOWNSHIP





EXTENSION OF WATER MAIN



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Alternatives

1 - No Action

2 – Optimum Performance of Existing Facilities

3 – Regional Alternatives

- Connecting to GLWA system
- Connecting to Genesee County system
- Create water authority w/ Independence Twp, Waterford Twp
- Install WM on Elizabeth Lake Rd to Union Lake Rd

4 – IMPROVEMENT OF SYSTEM



Project Overview- Alternative 4

- Provides upgrades to supply high-quality water to new/existing customers at adequate flows and pressures
 - Second emergency connection provides reliability and redundancy in case of system failure
 - Additional water main from Union Lake to Bogie Lake adds reliability and redundancy, as well as eliminates the long dead end that runs to the Huron Valley School (HVS) campus
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ESTIMATED CONSTRUCTION BUDGET

Alternative	Description	Total Cost
1	No-Action	See Note 1
2	Optimum Performance	See Note 1
3	Regional Alternatives	See Note 2
4	Improvement of System	\$7,972,137.56

Note 1 – The Township would not incur any additional costs if they were to leave the system as-is; and as stated before, the Township is currently running the system to as optimum of a performance that the Township is able to, so there would not be any additional costs compared to what the Township is currently achieving.

Note 2 – As stated in the analysis of alternatives, according to a study completed in 2006, it would cost over \$70M to provide the Township with GWLA water and over \$161M to provide the Township with Genesee County water. The regional alternative of creating a water authority with Waterford Township and Independence Township is not feasible, at this time, and completion of all necessary items is beyond the scope of this Project Plan. Another regional alternative would be to change the route of the proposed Cedar Island Road water main, but this would not achieve water quality, reliability, and redundancy for the HVS campus, and does not protect the pressure districts from an issue with the water main on Highland Road.



Estimated SRF Loan Budget

Description	Cost
Design	\$ 637,771
Total Construction Cost	\$ 7,972,138
Construction Administration, Construction Engineering, Inspection	\$ 797,214
Project Plan	\$ 30,000
Legal/Financial service	\$ 32,000
Bond Counsel	\$ 35,000
Total	\$ 9,504,123



Interest Rate Savings

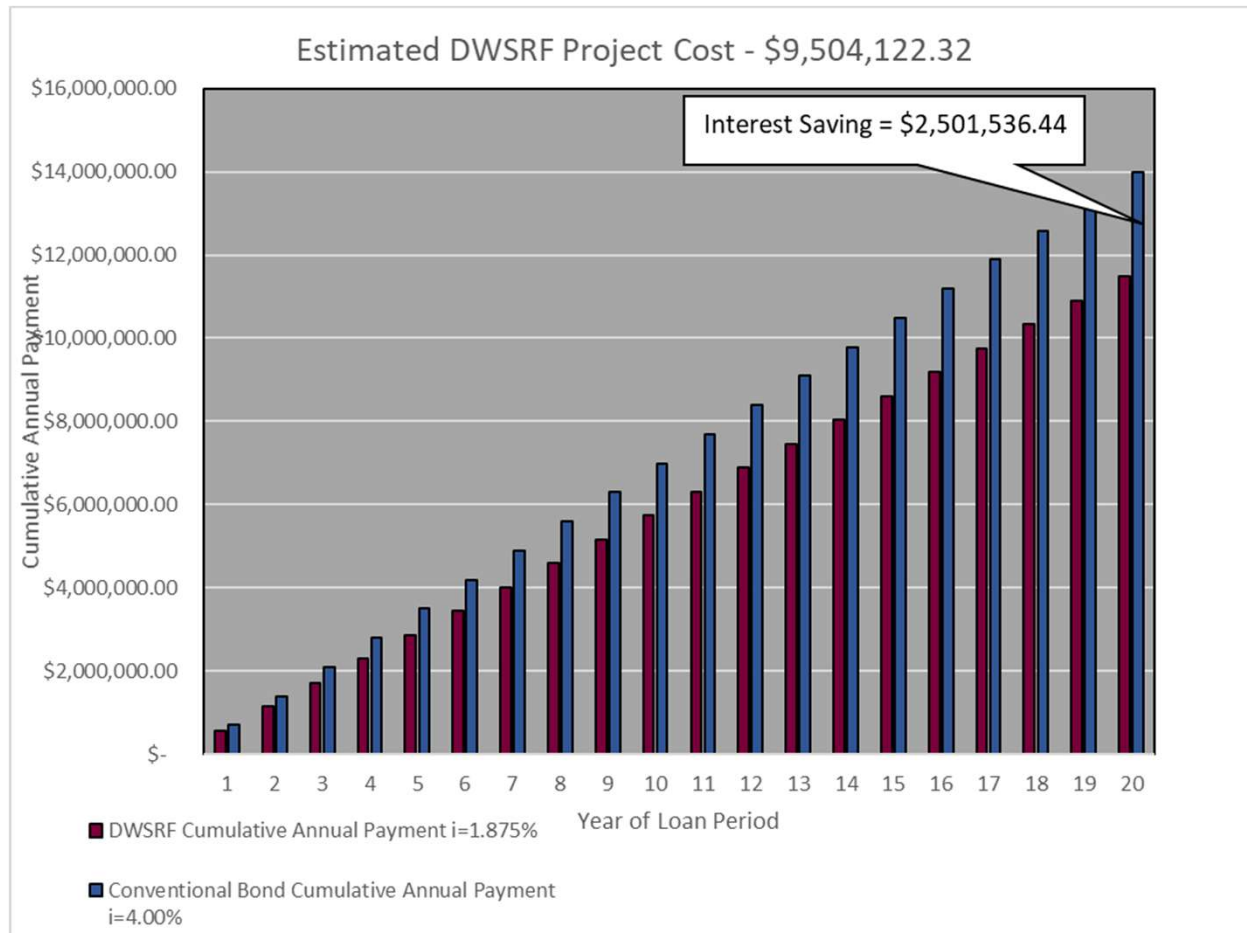
- White Lake Township will be requesting Michigan Department of Environment, Great Lakes, and Energy (EGLE) Low Interest Loan funding at an estimated 1.875% interest rate
 - Annual principal & interest (P&I) payment: \$574,253
 - P&I will be funded by O&M Budget, Unrestricted Sewer Fund Balance, and capital charges
 - Bond market option interest rate estimated at 4.00%
 - Annual SRF loan to bond market savings: \$125,077
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SRF Loan Savings vs Conventional Bond

SRF Loan 1.875%
Conventional Market Bond 4.00%

Estimated Loan Amount - \$9,504,122.32





Social & Environmental Impacts

- Slight traffic impacts at specific project sites
 - No Adverse Environmental Affect:
 - Eastern Massasauga Rattlesnake
 - Indiana Bat
 - Northern Long-Eared Bat
 - Rayed Bean
 - Snuffbox Mussel
 - Powershiek Skipperling
 - No proposed rate increases at this time
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Schedule - Q3 Funding

Due Date	Task
January 2023	<ul style="list-style-type: none">• Submittal of Draft Plans & Specifications
March 2023	<ul style="list-style-type: none">• Environmental Assessment• Submittal of Permit Applications• Final Submittal of Plans & Specifications
April 2023	<ul style="list-style-type: none">• EGLE Approval of Project Plan• EGLE Approval of Plans & Specifications• Submittal of Contractor Bids
August 2023	<ul style="list-style-type: none">• Start Construction
October 2024	<ul style="list-style-type: none">• Complete Construction



QUESTIONS?

THANK YOU!

Aaron Potter, DPS Director
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Mike Leuffgen, PE
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mleuffgen@dlz.com

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