



Authorization of Increased Total Project Cost - Minor Capital Improvements 2024

Commission Meeting
March 14, 2024

Madison Metropolitan Sewerage District



Minor Capital Improvement Project

- Reserved for minor capital improvement needs often arise.
- Larger than routine maintenance, but smaller than most projects.
- Improvements where prompt attention is important.
- For 2024, \$125,000 has been included in the Capital Budget

Minor Capital Improvement Project-2024

- West Loop hot water piping replacement project
 - Leaks and inability to repair them are driving the project.
 - Scope is larger than routine maintenance.
 - Deemed an emergency and immediate replacement is required.
 - Project cost is over \$125,000. Increase in total project cost is needed.

Location Map



West Hot Water Loop Piping Issues

- Piping constructed of pre-insulated fiberglass
- Sections of pipe are 40+ years old
- History of leaks
- Requires specialized fittings and tools for installation and repair.
- Recent major break deemed unrepairable with normal methods.



Pipe break and leak locations



Hot Water Line Break



Project Importance and Urgency

- Major pipeline break unrepairable
- Heating and cooling source for Operations Building
- Heat source for other process buildings
- Heat sink for the blower engine



Project Scope

- Remove existing fiberglass piping
- Install new carbon steel piping with thrust blocking
- Excavation and backfilling
- Removal and replacement of curb, sidewalk and floor.
- Removal and replacement of pavement
- Site restoration



Project Cost

- Construction Cost: \$144,250
- Change Order Allowance (15% of const.): \$21,750
- Revised construction cost: \$166,000
- Engineering (20% of total const.): \$33,200
- Total project cost: \$199,200



Requested Action

- The Commission is requested to approve Resolution 2024-03-14-RX, which increases the total project cost for the Minor Capital Improvements 2024 project from \$125,000 to \$200,000 and authorizes the use of emergency procedures to procure materials and execute the work.



Thank you

Madison Metropolitan Sewerage District



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- ***If you have questions, reach out to Lynn or Amanda.***

West Loop Piping Facts and Issues

- Piping constructed of pre-insulated fiberglass
- SCB 1 to Operations Building-Installed in 1970's
- Small leg to the West Aeration Gallery installed in 1980's
- Pipe becomes brittle over time
- Pipe not typically used for hot water
- Requires specialized fittings and tools for installation



Photo caption
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Madison Metropolitan Sewerage District





Northern project limits

Veteran's Park

Lincoln Street

Slide for maps

Fireman's Park

Southern project limits

Pasoli Street

S. Main Street

Locust Drive

Whale Road

Badger Mill Creek

Badger Mill Creek

Old PB

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Google

Verona Athletic Center

Prairie Crest Apartments

Verona Area Community Theatre

Rocket Bicycle Studio (Bike Shop)

Coaling Place

Cleary Building Corp

Four Winds Manor

Miller & Sons Supermarket

Holiday Inn Express & Suites Madison-Verona

Hometown Auto Clinic

Stridge Apartments

Subway

U.S. Highway 151

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image

Slide for vertical tables

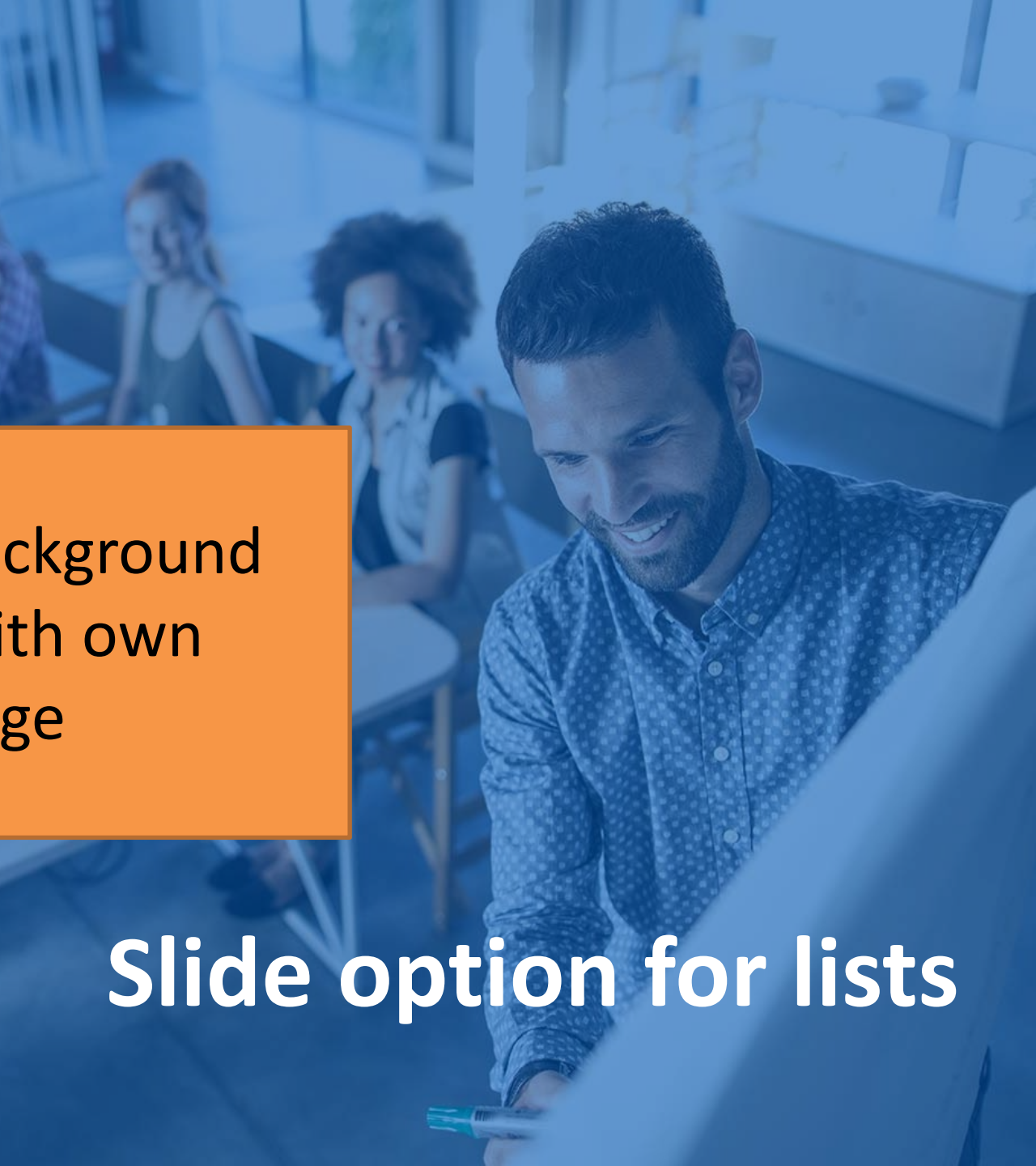
Expenditure	Amount Increase, \$	Amount Increase, %
Debt Service	\$712,000	1.61%
Contribution to Capital Projects Fund	\$571,000	1.29%
Personnel	\$261,632	0.59%
Energy	\$100,000	0.23%
Chemicals	\$100,000	0.23%
PFAS Testing	\$100,000	0.23%
Bacterial Disinfection Risk Assessment Study	\$100,000	0.23%
All other increases	\$58,368	0.13%
Total increase over 2020	\$2,003,000	4.53%

Slide for lists

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- Reduced spending on critical operational needs to minimize impacts on communities.
- Increases investments in capital at 3% per year
- Cash financing capital continues to increase; 15% in 2021, 30% in 2025.
- Uncontrollable expenditures (personnel, energy, supplies) continue to increase by 1% per year.
- With innovation and efficiencies, critical operational needs can be controlled to 3% per year.



Background
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Slide option for lists

September 24

Public hearing and Commission discussion

October 25

Commission final direction

October 29

Commission adopts operating capital and debt service budgets and new rates

November 1

Customers notified of new rates



Plain list option

- Open lines of communication
- Seek opportunities for collaboration and coordination
- Think beyond capital improvements
- Don't assume no
- Mutual benefits for both
- Use local gov. knowledge

