

**CITY OF MERRILL**

**UTILITY CAPITAL**

**2023 BUDGET REQUESTS**

**Without Potential Infrastructure  
Capital Investment Projects**

Revised: 8/16/2022

City of Merrill, Wisconsin

Capital Plan

2023 thru 2027

PROJECTS BY FUNDING SOURCE

Source	Project #	Priority	2023	2024	2025	2026	2027	Total
<b>Sale of Vehicles/Equipment</b>								
Sewer Jet/Vac Truck	UT-SEW-24-02	2		150,000				150,000
<b>Sale of Vehicles/Equipment Total</b>				<b>150,000</b>				<b>150,000</b>
<b>Sewer - Replacement Fund</b>								
Phosporus Analyzer	UT-SEW-23-04	1	30,000					30,000
Boiler Replacement-Main Building	UT-SEW-23-05	1	90,000					90,000
Sewer Jet/Vac Truck	UT-SEW-24-02	2		250,000				250,000
<b>Sewer - Replacement Fund Total</b>			<b>120,000</b>	<b>250,000</b>				<b>370,000</b>
<b>U - Sewer Fund</b>								
Sewer Main - Lining	UT-SEW-19-01	2	50,000	50,000	50,000	50,000	50,000	250,000
Wastewater Facility Plan	UT-SEW-23-02	1	90,000					90,000
<b>U - Sewer Fund Total</b>			<b>140,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>340,000</b>
<b>U - Water Fund</b>								
Water Tower Coating	UT-WAT-23-02	1	60,000					60,000
<b>U - Water Fund Total</b>			<b>60,000</b>					<b>60,000</b>
<b>GRAND TOTAL</b>			<b>320,000</b>	<b>450,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>920,000</b>

U-CAP-1

**Capital Plan**  
**City of Merrill, Wisconsin**

2023 thru 2027

Department Utility - Water & Sewer  
 Contact Utility Operations Manager  
 Type Planning  
 Useful Life 20 years  
 Category Wastewater  
 Priority 1 Critical

Project # **UT-SEW-23-04**  
 Project Name **Phosphorus Analyzer**

**Description** **Total Project Cost: \$30,000**  
 It monitors the amount of phosphorus coming into the plant and regulates how much Alum to add to settle out the phosphorus before discharging to the river.

**Justification**  
 The current analyzer needs to be recalibrated yearly and still is inaccurate keeping up with the flow coming into the plant. The price to recalibrate and maintain the current machine is very expensive and time consuming.

<b>Expenditures</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>Total</b>
Equipment - Utility	30,000					30,000
<b>Total</b>	<b>30,000</b>					<b>30,000</b>

<b>Funding Sources</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>Total</b>
Sewer - Replacement Fund	30,000					30,000
<b>Total</b>	<b>30,000</b>					<b>30,000</b>

**Budget Impact/Other**



U-CAP-3

**Capital Plan**  
**City of Merrill, Wisconsin**

2023 thru 2027

Department Utility - Water & Sewer  
 Contact Utility Operations Manager  
 Type Equipment  
 Useful Life 25+ years  
 Category Wastewater  
 Priority 1 Critical

Project # **UT-SEW-23-05**  
 Project Name **Boiler Replacement-Main Building**

**Description** **Total Project Cost: \$90,000**  
 Replace boiler in the main building. it was installed in 1974.

**Justification**  
 Parts for repairs are getting harder to find for the boiler. The boiler has been breaking down more often the last couple years.

<b>Expenditures</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>Total</b>
HVAC Equipment	90,000					90,000
<b>Total</b>	<b>90,000</b>					<b>90,000</b>

<b>Funding Sources</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>Total</b>
Sewer - Replacement Fund	90,000					90,000
<b>Total</b>	<b>90,000</b>					<b>90,000</b>

**Budget Impact/Other**



U-CAP-5

**Capital Plan**  
**City of Merrill, Wisconsin**

2023 thru 2027

Department Utility - Water & Sewer  
 Contact Utility Operations Manager  
 Type Maintenance  
 Useful Life 25+ years  
 Category Wastewater  
 Priority 2 Important

Project # **UT-SEW-19-01**  
 Project Name **Sewer Main - Lining**

**Description** **Total Project Cost: \$500,000**  
 Line sewers to extend useful life of the sewer mains.  
 By setting up a maintenance fund for sewer lining (equivalent to the Equipment Replacement Fund) we can repair problem areas when they occur. Also, there will be funding for lining the Interceptor which is the main sewer line running through the city to the treatment plant.

**Justification**  
 If street pavement replacement is not required, potential to line existing sanitary sewer mains. It is less expensive to line failing sewers than to dig up the road to replace it. When problem sewers are identified we will be able to repair them.  
 With the Interceptor being so close to the river it is a major source of I/I (inflow and infiltration) when the river is high the amount of Influent entering the plant can more than double.

Prior	Expenditures	2023	2024	2025	2026	2027	Total	Future
150,000	Construction - Sewer Main Lining	50,000	50,000	50,000	50,000	50,000	250,000	100,000
<b>Total</b>	<b>Total</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>250,000</b>	<b>Total</b>

Prior	Funding Sources	2023	2024	2025	2026	2027	Total	Future
150,000	U - Sewer Fund	50,000	50,000	50,000	50,000	50,000	250,000	100,000
<b>Total</b>	<b>Total</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>50,000</b>	<b>250,000</b>	<b>Total</b>

**Budget Impact/Other**

**Capital Plan**  
**City of Merrill, Wisconsin**

2023 thru 2027

Department Utility - Water & Sewer  
 Contact Utility Operations Manager  
 Type Planning  
 Useful Life 20+ years  
 Category Wastewater  
 Priority 1 Critical

Project # **UT-SEW-23-02**  
 Project Name **Wastewater Facility Plan**

**Description** **Total Project Cost: \$90,000**  
 Assess the condition of the treatment plant and establish a need for improvements and evaluate options to address system needs and to identify cost-effective solutions.

**Justification**  
 The City of Merrill's discharge permit will expire in March of 2024. We will start reviewing our permit in 2023 along with planning for our effluent limits.  
 There are area's of the plant that don't meet WDNR code and other process's that are past their useful service life. The last review was done in the late 1980's and this one will be for the next 30 years.

Expenditures	2023	2024	2025	2026	2027	Total
Planning/Design	90,000					90,000
<b>Total</b>	<b>90,000</b>					<b>90,000</b>

Funding Sources	2023	2024	2025	2026	2027	Total
U - Sewer Fund	90,000					90,000
<b>Total</b>	<b>90,000</b>					<b>90,000</b>

**Budget Impact/Other**



**Capital Plan**  
**City of Merrill, Wisconsin**

2023 thru 2027

Department Utility - Water & Sewer  
 Contact Utility Operations Manager  
 Type Maintenance  
 Useful Life 15 years  
 Category Water  
 Priority 1 Critical

Project # **UT-WAT-23-02**  
 Project Name **Water Tower Coating**

**Description** **Total Project Cost: \$60,000**  
 The water tower was built in 1979. The interior and exterior coatings are in overall good condition, with the exception of the interior coating above the high-water level.

**Justification**  
 There is visible coating failures along unwelded seams, rigging couplings and other located corrosion areas.  
 It will be a lot less expensive to repair now then let it deteriorate, a full coating replacement will cost around \$500,000.

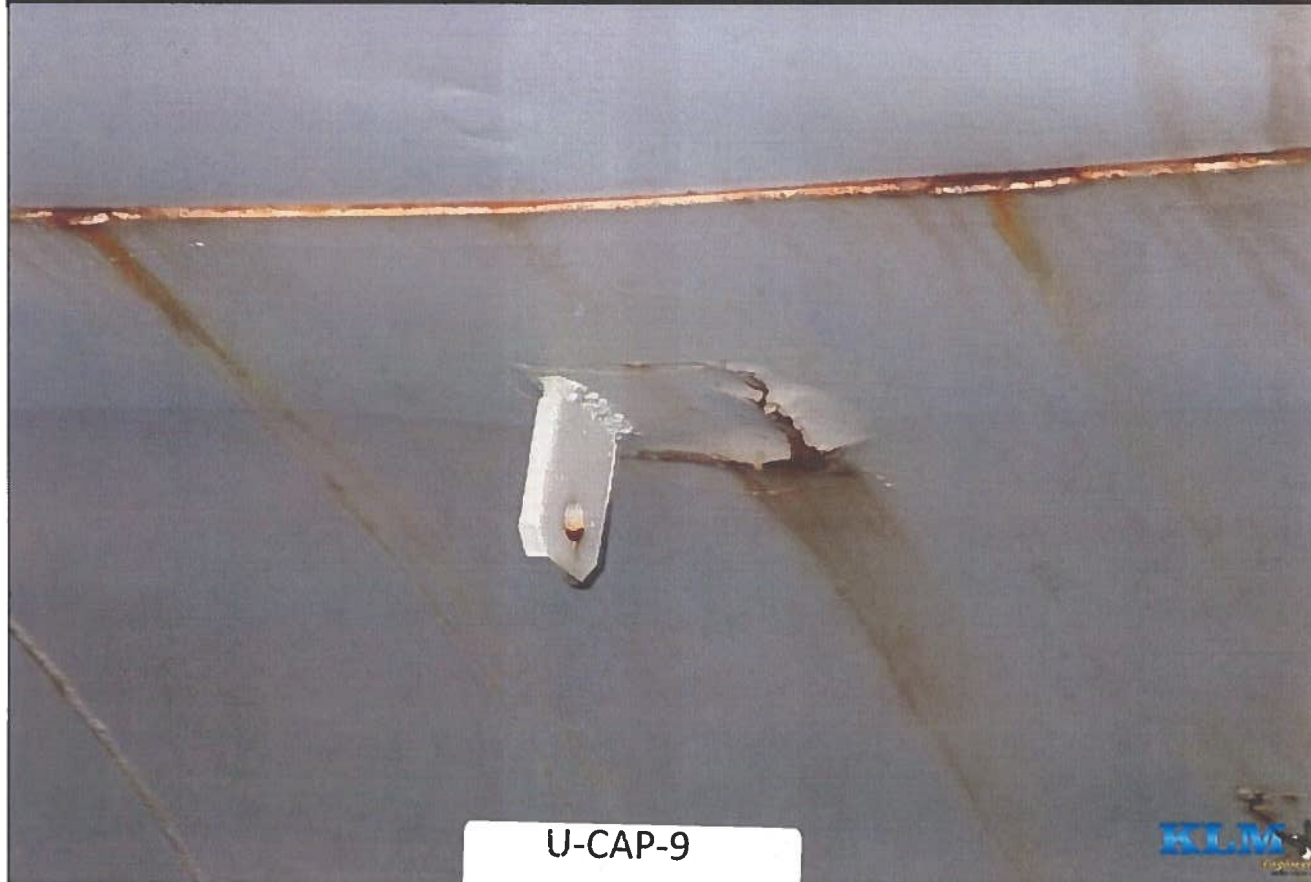
Expenditures	2023	2024	2025	2026	2027	Total
Water Tower	60,000					60,000
<b>Total</b>	<b>60,000</b>					<b>60,000</b>

Funding Sources	2023	2024	2025	2026	2027	Total
U - Water Fund	60,000					60,000
<b>Total</b>	<b>60,000</b>					<b>60,000</b>

**Budget Impact/Other**



KLM  
Engineering



KLM  
Engineering

U-CAP-9