Project Name: **Outfall Rehabilitation**

Standing Policy Committee: Water, Waste and Environment

Department: Water and Waste
Project: 2078000123

Service: Land Drainage and Flood Control
OurWinnipeg: Environmental Resilience

AUTHORIZATION	Previous Budgets	2023 Adopted	FORECAST 2024	2025	2026	2027	2028	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	1,000	1,000	2,000	2,000	3,200	2,000	10,200	11,200
Financed by:									
Transfer from Sewage Disposal System Fund		1,000	1,000	2,000	2,000	3,200	2,000	10,200	11,200

CASH FLOW	2023	2024	2025	2026	2027	2028	Beyond 2028	Total
Project Costs ($000's)	1,000	1,000	2,000	2,000	3,200	2,000	-	11,200
Financed by:								
Transfer from Sewage Disposal System Fund	1,000	1,000	2,000	2,000	3,200	2,000		11,200

NET OPERATING IMPACT ($000's)	2023	2024	2025	2026	2027	2028
Operating costs						
Debt and finance charges						
Transfer to General Capital Fund						
Total Direct Costs	-	-	-	-	-	-
Less: Incremental Revenue/Recovery						
Net Cost/(Benefit)	-	-	-	-	-	-
Incremental Full Time Equivalent Positions	-	-	-	-	-	-

Class Estimate: Not applicable, as this is a program

An Outfall Condition Assessment was completed in 2019. This assessment prioritizes Winnipeg's outfall sites that require renewal/rehabilitation, identifies potential renewal/rehabilitation techniques for each outfall, and provides high level cost estimates for this work. The City will program and undertake risk-based work on a yearly basis to maximize use of funding for the rehabilitation of sewer outfalls, repairs to piping and related appurtenances, and to improve riverbank stability issues. Funds are also included for condition assessments and re-inspections, as required.

The expected life of the assets is 50 years.

* N/A - No amounts have been included in the "Previous Budgets" due to this program's on-going nature.

Project Name: **Sewer Renewals**

Standing Policy Committee: Water, Waste and Environment

Department: Water and Waste
Project: 2039100123

Service: Wastewater
OurWinnipeg: Environmental Resilience

AUTHORIZATION	Previous Budgets	2023 Adopted	FORECAST 2024	2025	2026	2027	2028	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	18,500	21,000	21,000	21,000	21,000	21,000	105,000	123,500
Financed by:									
Sewer System Rehabilitation Reserve		18,500	21,000	21,000	21,000	21,000	21,000	105,000	123,500

CASH FLOW	2023	2024	2025	2026	2027	2028	Beyond 2028	Total
Project Costs ($000's)	18,500	21,000	21,000	21,000	21,000	21,000	-	123,500
Financed by:								
Sewer System Rehabilitation Reserve	18,500	21,000	21,000	21,000	21,000	21,000		123,500

NET OPERATING IMPACT ($000's)	2023	2024	2025	2026	2027	2028
Operating costs						
Debt and finance charges						
Transfer to General Capital Fund						
Total Direct Costs	-	-	-	-	-	-
Less: Incremental Revenue/Recovery						
Net Cost/(Benefit)	-	-	-	-	-	-
Incremental Full Time Equivalent Positions	-	-	-	-	-	-

Class Estimate: Not applicable, as this is a program

This is a program to replace and/or rehabilitate combined, wastewater, and land drainage sewer infrastructure that are no longer meeting level of service objectives. A portion of the funding will be used for condition assessment of sewer assets; sewers will be replaced or rehabilitated using appropriate technologies on a risk-based level of service basis. Funds will also be utilized to update the sewer asset register, and ongoing operating costs associated with software licensing and maintenance have been included in the operating budget.

Funding will also be utilized for the assessment, repair and/or replacement, under certain conditions, of private wastewater sewer services within the public right-of-way under the Sewer By-Law, and for the development of wastewater and land drainage design standards.

The expected remaining life of each rehabilitated sewer ranges from 20 to 100 years, depending on the rehabilitation technology and the asset condition. The expected life of the asset register is 10 years.

* N/A - No amounts have been included in the "Previous Budgets" due to this program's on-going nature.

Project Name: **Sludge Drying Beds Decommissioning**

Standing Policy Committee: Water, Waste and Environment

Department: Water and Waste
Project: 2034001124

Service: Wastewater
OurWinnipeg: Environmental Resilience

AUTHORIZATION	Previous Budgets	2023 Adopted	FORECAST 2024	2025	2026	2027	2028	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	-	-	375	-	-	-	-	375	375
Financed by:									
Retained Earnings			375					375	375

CASH FLOW	2023	2024	2025	2026	2027	2028	Beyond 2028	Total
Project Costs ($000's)	-	375	-	-	-	-	-	375
Financed by:								
Retained Earnings		375						375

NET OPERATING IMPACT ($000's)	2023	2024	2025	2026	2027	2028
Operating costs						
Debt and finance charges						
Transfer to General Capital Fund						
Total Direct Costs	-	-	-	-	-	-
Less: Incremental Revenue/Recovery						
Net Cost/(Benefit)	-	-	-	-	-	-
Incremental Full Time Equivalent Positions	-	-	-	-	-	-

Class Estimate: 3

The former sludge drying beds in West St. Paul are no longer being used for storage. Decommissioning the sludge drying beds is a condition of closing the Environment Act Licence 1089 E RR. This work will develop a class 3 estimate for a decommissioning plan and identify options for future use.

Additional funds may be required in future years to implement the recommendations of this plan.

Project Name: **Water Main Renewals**

Standing Policy Committee: Water, Waste and Environment

Department: Water and Waste
Project: 2013100123

Service: Water
OurWinnipeg: Environmental Resilience

AUTHORIZATION	Previous Budgets	2023 Adopted	FORECAST 2024	2025	2026	2027	2028	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	18,000	19,000	19,500	20,250	21,250	22,750	102,750	120,750
Financed by:									
Water Main Renewal Reserve		18,000	19,000	19,500	20,250	21,250	22,750	102,750	120,750

CASH FLOW	2023	2024	2025	2026	2027	2028	Beyond 2028	Total
Project Costs ($000's)	18,000	19,000	19,500	20,250	21,250	22,750	-	120,750
Financed by:								
Water Main Renewal Reserve	18,000	19,000	19,500	20,250	21,250	22,750		120,750

NET OPERATING IMPACT ($000's)	2023	2024	2025	2026	2027	2028
Operating costs						
Debt and finance charges						
Transfer to General Capital Fund						
Total Direct Costs	-	-	-	-	-	-
Less: Incremental Revenue/Recovery						
Net Cost/(Benefit)	-	-	-	-	-	-
Incremental Full Time Equivalent Positions	-	-	-	-	-	-

Class Estimate: Not applicable, as this is a program

This is a continuing program to replace and/or rehabilitate deteriorating water main infrastructure. Funding is used for water main replacement, cathodic protection, valve and hydrant replacement/rehabilitation, correction of dead end mains, upgrading of substandard mains, water system studies, assessments, development of design standards and replacement of problem water services within the City right-of-way, and hydraulic improvements for fire protection purposes. Funding is also used for integrated right-of-way renewal programs coordinated with the Public Works Department.

The expected remaining life of each rehabilitated water main ranges from 20 to 80 years, depending on the rehabilitation technology and the asset condition.

Funds will also be utilized to manage the water infrastructure asset register, and ongoing operating costs associated with software licensing and maintenance have been included in the operating budget.

* N/A - No amounts have been included in the "Previous Budgets" due to this program's on-going nature.

Project Name: **Feeder Main Condition Assessment and Rehabilitation**

Standing Policy Committee: Water, Waste and Environment

Department: Water and Waste
Project: 2004000723

Service: Water
OurWinnipeg: Environmental Resilience

AUTHORIZATION	Previous Budgets	2023 Adopted	FORECAST 2024	2025	2026	2027	2028	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	300	3,700	2,700	350	-	250	7,000	7,300
Financed by:									
Retained Earnings		300	3,700	2,700	350		250	7,000	7,300

CASH FLOW	2023	2024	2025	2026	2027	2028	Beyond 2028	Total
Project Costs ($000's)	300	3,700	2,700	350	-	250	-	7,300
Financed by:								
Retained Earnings	300	3,700	2,700	350		250		7,300

NET OPERATING IMPACT ($000's)	2023	2024	2025	2026	2027	2028
Operating costs						
Debt and finance charges						
Transfer to General Capital Fund						
Total Direct Costs	-	-	-	-	-	-
Less: Incremental Revenue/Recovery						
Net Cost/(Benefit)	-	-	-	-	-	-
Incremental Full Time Equivalent Positions	-	-	-	-	-	-

Class Estimate: Not applicable, as this is a program

Feeder mains are specialized large diameter pipes used to convey drinking water throughout the City. The majority of feeder mains were installed in the 1960s and require inspection, testing, and maintenance to preserve the asset. Funds are for condition assessment and rehabilitation work, including structural assessments, inspections, purchase of testing equipment, replacement of valves and related components, structural repairs, valve chamber rehabilitation, and restoration works.

Condition assessments of the feeder mains are ongoing and the feeder main condition assessment and rehabilitation program will address items as they are identified and prioritized.

The estimated life of a rehabilitated asset ranges from 20 to 80 years, depending on asset type, condition, and the rehabilitation method used.

Individual projects within this program will be revised to class 3 estimates through preliminary engineering prior to construction.

* N/A - No amounts have been included in the "Previous Budgets" due to this program's on-going nature.

Project Name: **Water Treatment Plant Asset Refurbishment and Replacement Program**

Standing Policy Committee: Water, Waste and Environment

Department: Water and Waste
Project: 2002500823

Service: Water
OurWinnipeg: Environmental Resilience

AUTHORIZATION	Previous Budgets	2023 Adopted	FORECAST 2024	2025	2026	2027	2028	Five-Year Forecast Total	Six-Year Total
Project Costs ($000's)	N/A *	2,200	9,800	-	-	1,300	11,350	22,450	24,650
Financed by:									
Retained Earnings		2,200	9,800			1,300	11,350	22,450	24,650

CASH FLOW	2023	2024	2025	2026	2027	2028	Beyond 2028	Total
Project Costs ($000's)	2,200	9,800	-	-	1,300	11,350	-	24,650
Financed by:								
Retained Earnings	2,200	9,800			1,300	11,350		24,650

NET OPERATING IMPACT ($000's)	2023	2024	2025	2026	2027	2028
Operating costs						
Debt and finance charges						
Transfer to General Capital Fund						
Total Direct Costs	-	-	-	-	-	-
Less: Incremental Revenue/Recovery						
Net Cost/(Benefit)	-	-	-	-	-	-
Incremental Full Time Equivalent Positions	-	-	-	-	-	-

Class Estimate: Not applicable, as this is a program

The Winnipeg Drinking Water Treatment Plant provides treated drinking water to the City of Winnipeg. The continued upkeep and maintenance of the Winnipeg Drinking Water Treatment Plant's assets is required to ensure a continuous supply of water. An asset refurbishment and replacement plan has been developed to address asset lifecycle issues at the water treatment plant as they arise.

Condition assessment of the water treatment plant assets is ongoing and the asset refurbishment and replacement program will address items as they are identified and prioritized.

Individual projects within this program will be revised to class 3 estimates through preliminary engineering prior to construction.

The estimated life of a rehabilitated asset ranges from 20 to 80 years, depending on asset type, condition, and the rehabilitation method used.

* N/A - No amounts have been included in the "Previous Budgets" due to this program's on-going nature.