

2024 Adopted Capital Improvement Budget



The Metropolitan District
Hartford, CT

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Capital Budget

Summary

Overview

The MDC's capital expenditures budget is based upon a comprehensive asset management program for wastewater, water, combined, and hydroelectric infrastructure. The program's objective is to ensure the continued safety and efficiency of the District's assets, as well as maintain and improve the water mains, sewers, pumping stations, treatment facilities, buildings, and equipment that comprise the Districts Water Distribution and Wastewater Collection Systems. Asset management programs have been developed to maximize the effectiveness and useful life of our facilities.

Funding Sources

The District's 2024 capital expenditures budget is divided into 3 categories: Capital Improvement Program (CIP), Clean Water Program, and the Integrated Plan. The MDC will pursue funding for projects, as follows:

1. Capital Improvement Program (CIP)

Wastewater

Purpose: Major projects provide significant improvements and modernization to MDC's wastewater collection system infrastructure and water pollution control facilities.

Funding Sources: Wastewater projects are funded by General Obligation Bonds and DEEP grants and loans. Wastewater General Obligation Bonds and DEEP loans are paid by taxes levied upon the Member Municipalities (Ad Valorem).

Water

Purpose: Major projects are targeting 10 miles of new and replacement water main installations along with water treatment facilities upgrades and improvements.

Funding Sources: Water projects are funded by General Obligation Bonds and DPH grants and loans. Water General Obligation bonds and DPH loans are paid by water customers through the approved water rates.

2. Clean Water Program

Purpose: The projects fund programs to control combined sewer overflows, eliminate structural sanitary sewer overflows and reduce nitrogen discharges to the Connecticut River. These programs are being implemented pursuant to a Consent Order with the Connecticut Department of Energy and Environment Protection, a Consent Decree with the United States Environmental Protection Agency, and the District's discharge permit for nitrogen.

Funding Sources: Clean Water Program projects are funded by the Clean Water Project Charge (CWPC) funds held in the Rate Stabilization fund, DEEP, grants and loans. However, revenue bonds can be issued, and their debt service paid for with CWPC funds.

Capital Budget

Summary

3. Integrated Plan

Purpose: The projects will fund improvements to the MDC's wastewater collection system infrastructure and water pollution control facilities, as required to comply with the 2006 United States Environmental Protection Agency (USEPA) Consent Decree, and 2022 CT DEEP Consent Order. These projects are in accordance with the MDC's 2018 CSO Long Term Control Plan/Integrated Plan (LTCP/IP), and subsequent supplementary documents submitted to CT DEEP and approved through their Consent Order #COWRMU22002.

Funding Sources: Integrated Plan projects are funded by the Clean Water Project Charge (CWPC) funds held in the Rate Stabilization fund, DEEP, grants and loans; as well as grants authorized by the by the United States EPA. However, revenue bonds can be issued, and their debt service paid for with CWPC funds.

Capital Budget

Summary

Debt Administration Policy

Capital appropriations require approval by a two-thirds vote of the entire District Board and by a majority of the electors of the District at a referendum with the following exceptions:

1. Capital appropriations not exceeding \$25,829,971 indexed for inflation, excluding those portions of an appropriation payable from Federal or State grants for any single item within the capital section of the budget.
2. Appropriations for any reason involving not more than \$25,000,000 in any one year for the purpose of meeting a public emergency threatening the lives, health or property of citizens of the District.
3. Construction of or leasing headquarters facilities.
4. Any public improvement all or a portion of which is to be paid for by assessments of benefits or from funds established to pay for waste or water facilities.

With the exception of the two \$800,000,000 appropriations, and bond authorizations for the District's Clean Water Project approved at referenda in November, 2006 and November, 2012, and two supplemental grant appropriation's totaling \$158,800,000, which are expected to be supported by general obligation bonds, revenue bonds, and clean water fund obligations payable from the Clean Water Project Charge (previously the Special Sewer Service Surcharge), the District has followed a policy of financing capital expenditures by issuing general obligation bonds secured by unlimited taxes levied proportionately upon the Member Municipalities comprising the District.

In addition to taxes, certain water charges, sewer user fees, and assessments are available to repay the general obligation bonds. Sewer bonds are payable from the municipal tax levy on each Member Municipality and from sewer user charges levied on tax-exempt and high-flow users. General obligation water bonds are paid from water sale revenues. Assessable sewer construction bonds are secured by liens against assessments on benefited properties. The receipts from assessments are deposited in a separate fund, and payments for debt service on assessable sewer construction bonds are made from such fund. Hydroelectric bonds are funded from power sales revenue deposited in a separate fund, and payments of the debt service on the Hydroelectric bonds are made from said fund.

Capital Budget

Summary

2024 Budget Appropriations

The Metropolitan District's Capital Program budget for 2024 totals \$153,517,000, as reflected in the following summary. Wastewater programs total \$31,480,000; water programs total \$47,010,000; combined programs total \$20,377,000; hydro program total \$500,000; Integrated Plan total \$54,150,000.

<u>Wastewater</u>	
1. General Purpose Sewer	\$1,500,000
<i>Wastewater Collection</i>	
2. Various Small Pump Station Renewals and Rehabilitations	\$2,000,000
3. Various Wastewater Collection System Improvements in Hartford and East Hartford	\$1,600,000
4. Paving Program & Restoration	\$2,600,000
5. Sanitary Sewer Easement Improvement Program	\$2,350,000
<i>Wastewater Treatment</i>	
6. Hartford Water Pollution Control Facility (WPCF) Continuous Emission Monitoring System (CEMS) Room/Incinerator Upgrades	\$4,800,000
7. Poquonock WPCF - Trickling Filter, Electrical and Supervisory Control and Data Acquisition (SCADA) Upgrades (appropriation increase)	\$12,960,000
8. WPCF - Infrastructure Rehabilitation, Upgrades & Replacements	\$3,670,000
<i>Wastewater Total</i>	\$31,480,000

<u>Water</u>	
9. General Purpose Water	\$4,000,000
<i>Water Distribution</i>	
10. Paving Program & Restoration	\$5,800,000
11. Water Pump Station Renewals and Rehabilitations	\$400,000
12. Advanced Meter Reading Program	\$1,300,000
13. Water Storage Tank Rehabilitation & Improvements	\$1,600,000
14. Farmington 11/Sisson Area Water Main Replacements (appropriation increase)	\$3,000,000
15. Water Service Verification Contract	\$5,000,000
16. District-wide Water Main Replacement Program	\$11,000,000
17. Hartford Water Main Replacements	\$7,000,000
18. Bishops Corner Water Main Replacements (appropriation increase)	\$3,000,000
19. Connecticut River Crossing Transmission Main (possible EPA grant)	\$3,000,000
20. Water Supply Infrastructure Rehabilitation, Upgrades & Replacements	\$1,910,000
<i>Water Total</i>	\$47,010,000

Capital Budget

Summary

<u>Combined</u>	
21. 2024 IT SAP Upgrades Project	\$3,500,000
22. Central Equipment Maintenance (CEM) Vehicles	\$4,315,000
23. Central Equipment Maintenance (CEM) Generators	\$207,000
24. Facilities	\$683,000
25. Engineering Services Staffing	\$7,146,000
26. Construction Services Staffing	\$4,526,000
<i>Combined Total</i>	\$20,377,000

<u>Hydro Rehabilitation</u>	
27. Goodwin Hydro Controls Upgrade	\$500,000
<i>Hydro Total</i>	\$500,000

<u>Integrated Plan</u>	
28. Program Management Consultant/General Purpose IP	\$6,800,000
29. Sewer Backup Prevention Program – District-wide	\$1,500,000
30. Sewer House Connection/Separation Program – District-wide	\$2,000,000
31. Sewer House Connection/Separation Program - North Hartford	\$5,000,000
32. Granby 8 & 9 Sewer Separation (design)	\$3,600,000
33. Various Sewer Pipe Replacement/Rehabilitations - District-wide (lining)	\$15,750,000
34. Large Diameter Sewer Rehabilitation Program	\$14,000,000
35. Easement Sewer Lining Program – Phase 2	\$500,000
36. Increase to North Hartford Expedited Separation	\$5,000,000
<i>Integrated Plan Total</i>	\$54,150,000

<i>Total 2024 Capital Budget Appropriations</i>	\$153,517,000
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Capital Budget

Summary Staffing

Expenditure Classification	2022 Adopted	2023 Adopted	2024 Adopted	\$ Change
<i>Summary by Program</i>				
Inspection Services	2,500,000	-	-	-
Engineering Services	4,800,000	3,645,000	7,146,100	3,501,100
Construction Services	2,000,000	3,830,000	4,526,300	696,300
Technical Services	5,000,000	4,360,000	-	(4,360,000)
<i>Total</i>	14,300,000	11,835,000	11,672,400	(162,600)
<i>Summary by Major Object</i>				
Payroll				
Regular Pay	6,206,100	5,967,890	6,821,400	853,510
Overtime 100%	-	-	-	-
Overtime 150%	200,000	200,000	150,000	(50,000)
Overtime 200%	-	-	-	-
Temporary Help	-	-	-	-
Standby & Premium Pay	2,000	2,000	2,000	-
Longevity Pay	16,400	15,500	17,900	2,400
<i>Total Payroll</i>	6,424,500	6,185,390	6,991,300	805,910
Medical Services	2,287,000	1,143,400	732,000	(411,400)
Medicare Part B	93,400	89,688	101,800	12,112
OPEB Trust Contribution	1,452,000	1,435,000	913,600	(521,400)
Pension Contribution	1,239,000	1,224,000	970,600	(253,400)
Social Security	388,900	377,074	427,800	50,726
Clothing Allowance	7,000	11,000	7,800	(3,200)
Mileage Allowance	3,000	3,000	3,000	-
Employee Reimbursement	-	-	2,000	2,000
<i>Total Other</i>	5,470,300	4,283,162	3,158,600	(1,124,562)
Contingency	2,405,200	1,366,448	1,522,500	156,052
<i>Total Summary</i>	14,300,000	11,835,000	11,672,400	(162,600)

Authorized Positions

Inspection Services	8	-	-	-
Engineering Services	15	11	28	17
Construction Services	5	16	20	4
Technical Services	19	14	-	(14)
<i>Total Authorized Positions</i>	47	41	48	7

Capital Budget

Summary

Five-Year Capital Improvement Program

The District has undertaken a comprehensive asset management program which involves a systematic replacement of water and sewer infrastructure in a proactive manner whereby the District will continue to maintain and improve its assets to ensure the safe and efficient operation of service. In addition, it is anticipated that the District will continue to complete projects associated with the Clean Water Project and continue making progress on projects identified in our Integrated Plan.

The District submitted an Integrated Plan (IP) to CT DEEP as part of its Consent Order required Combined Sewer Overflow (CSO) Long Term Control Plan (LTCP) Update in December 2018. With Consent Order COWRMU22002, which supersedes the 2006 Consent Order, the District identified a number of pf projects to be completed as Phase I in our Integrated Plan and we initiated projects in 2023. A subsequent change in direction and modified Consent Order to address more projects in North Hartford occurred mid-2023. New mid-year 2023 appropriations and new 2024 IP appropriations address the new goals of the modified Consent Order. The Five-Year Integrated Plan has been modified to reflect this direction.

Capital Budget

Summary

<u>Wastewater</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>
General Purpose Sewer	\$1,500,000	\$1,500,000	\$2,000,000	\$2,000,000	\$2,000,000
Various Small Pump Station Renewals & Reha- bilitations	\$2,000,000	-----	\$2,000,000	\$2,000,000	-----
Various Wastewater Collection System Im- provements in Hartford and East Hartford	\$1,600,000	-----	-----	-----	-----
Paving Program & Restoration	\$2,600,000	\$2,730,000	\$2,866,500	\$2,430,000	\$2,550,000
Sanitary Sewer Easement Improvement Pro- gram	\$2,350,000	\$3,000,000	\$3,000,000	\$1,000,000	\$1,000,000
Hartford Water Pollution Control Facility CEMS Room/Incinerator Upgrades	\$4,800,000	-----	-----	-----	-----
Poquonock Water Pollution Control Facility Bio- logical Nitrogen Removal	\$12,960,000	-----	-----	-----	-----
Water Pollution Control Facilities Infrastructure Rehab., Upgrades & Replacements	\$3,670,000	\$5,000,000	\$5,000,000	\$5,000,000	\$5,000,000
Hartford Water Pollution Control Facility Site Wrap Up Contracts	-----	\$4,380,000	-----	\$3,610,000	-----
Rocky Hill Water Pollution Control Facility Stormwater Pump Station	-----	-----	-----	\$5,000,000	-----
Hog Brook Waste Water Pump Station	-----	\$6,000,000	-----	-----	-----
Island Road Waste Water Pump Station	-----	-----	\$7,000,000	-----	-----
<i>Wastewater Total</i>	\$31,480,000	\$22,610,000	\$21,866,500	\$21,040,000	\$10,550,000

Capital Budget

Summary

Water	2024	2025	2026	2027	2028
General Purpose Water	\$4,000,000	\$4,000,000	\$4,000,000	\$4,000,000	\$4,000,000
Paving Program & Restoration	\$5,800,000	\$6,100,000	\$6,405,000	\$6,725,250	\$7,000,500
Water Pump Station Renewals and Rehabilitations	\$400,000	-----	\$3,000,000	-----	-----
Advanced Meter Reading Program	\$1,300,000	\$1,600,000	\$1,600,000	\$2,000,000	\$2,000,000
Water Storage Tank Rehabilitation & Improvements	\$1,600,000	-----	-----	\$3,000,000	-----
Farmington 11/Sisson Area Water Main Replacements	\$3,000,000	-----	-----	-----	-----
Water Service Verification Contract	\$5,000,000	\$5,000,000	-----	-----	-----
District-wide Water Main Replacement Program	\$11,000,000	\$11,500,000	\$12,000,000	\$12,500,000	\$13,000,000
Hartford Water Main Replacements	\$7,000,000	-----	-----	-----	-----
Bishops Corner Water Main Replacements	\$3,000,000	-----	-----	-----	-----
Connecticut River Crossing Transmission Main	\$3,000,000	-----	\$20,000,000	-----	-----
Water Supply Infrastructure, Rehabilitation, Upgrades & Replacement	\$1,910,000	\$600,000	\$600,000	\$600,000	\$600,000
Wethersfield Water Pump Station Rehabilitation	-----	\$4,000,000	-----	-----	-----
Water Treatment/Transmission Improvements	-----	\$1,500,000	\$1,000,000	\$1,000,000	\$1,000,000
Silas Deane Water Main Replacements	-----	\$10,000,000	-----	-----	-----
Reservoir 6 Capital Improvements	-----	\$4,700,000	-----	-----	-----
Ellington Road WM Replacement	-----	-----	\$8,100,000	-----	-----
Water Master Plan- West Hartford Water Treatment Plant 5MG Tank	-----	\$14,000,000	-----	-----	-----
Water Master Plan- Lake McDonough Bypass	-----	-----	-----	\$6,500,000	-----
Water Master Plan- Elizabeth Park Transmission' Main	-----	-----	\$1,500,000	\$13,000,000	-----
Water Master Plan Ford River Crossing	-----	-----	\$6,000,000	-----	-----
Water Master Plan West Hartford Water Treatment Plant – Pilot Study	-----	-----	-----	\$1,000,000	-----
Water Master Plan – Saville Dam Gatehouse- Exterior Pipe Coating	-----	-----	-----	-----	\$1,100,000
Water Total	\$47,010,000	\$63,000,000	\$64,205,000	\$50,325,250	\$28,700,500

Capital Budget

Summary

Combined	2024	2025	2026	2027	2028
IT Infrastructure Project	\$3,500,000	\$ 1,000,000	\$ 1,000,000	\$ 3,500,000	\$ 1,000,000
CEM Fleet	\$4,315,000	\$3,000,000	\$3,000,000	\$3,000,000	\$3,000,000
CEM Generators	\$207,000	-----	-----	-----	-----
Facilities	\$683,000	\$1,050,000	-----	\$1,050,000	\$1,050,000
Engineering Services Staffing	\$7,146,000	-----	-----	-----	-----
Construction Services Staffing	\$4,526,000	-----	-----	-----	-----
Combined Total	\$20,377,000	\$5,050,000	\$4,000,000	\$7,550,000	\$5,050,000

Hydro Rehabilitation	2024	2025	2026	2027	2028
Goodwin Hydro Controls Upgrade	\$ 500,000	-----	-----	-----	-----
Hydro Total	\$500,000	-	-	-	-

Capital Budget

Summary

Integrated Plan	2024	2025	2026	2027	2028
Program Management Consultant/General Purpose IP	\$6,800,000	\$6,800,000	\$7,000,000	\$7,000,000	\$7,500,000
Sewer Backup Prevention Program – District-wide	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000
Sewer House Connection/Separation Program – District-wide	\$2,000,000	\$2,000,000	\$3,000,000	\$5,000,000	\$7,000,000
Sewer House Connection/Separation Program - North Hartford	\$5,000,000	-----	-----	-----	-----
Granby 8 & 9 Sewer Separation (design)	\$3,600,000	-----	-----	-----	-----
Various Sewer Pipe Replacement/Rehabilitations - District-wide (lining)	\$15,750,000	\$9,400,000	\$9,800,000	\$9,800,000	\$9,800,000
Large Diameter Sewer Rehabilitation Program	\$14,000,000	-----	-----	\$10,000,000	\$10,000,000
Easement Sewer Lining Program- Phase 2	\$500,000	\$7,500,000	\$500,000	\$7,500,000	\$500,000
Increase to North Hartford Expedited Separation	\$5,000,000	-----	-----	-----	-----
Granby 7 Sewer Separation	-----	\$21,000,000	-----	-----	-----
Granby 8 Sewer Separation	-----	-----	\$22,000,000	-----	-----
Granby 9 Sewer Separation	-----	-----	\$21,000,000	-----	-----
Integrated Plan Total	\$54,150,000	\$48,200,000	\$64,800,000	\$40,800,000	\$36,300,000

Capital Budget

Capital Improvement Program - Sewer

The following is a list of the recommended wastewater system programs and projects to be funded through the MDC's 2024 Capital Improvement Program budget. The projects that comprise the wastewater system programs are necessary to enhance, upgrade and rehabilitate the extensive sewer infrastructure throughout the District and to improve the efficiency and effectiveness of facility operations. Each is considered to be a separate undertaking in accordance with Section 3-11 of the Charter of the Metropolitan District.

<u>Wastewater</u>	
General Purpose Sewer	\$1,500,000
<i>Wastewater Collection</i>	
Various Small Pump Station Renewals and Rehabilitations	\$2,000,000
Various Wastewater Collection System Improvements in Hartford and East Hartford	\$1,600,000
Paving Program & Restoration	\$2,600,000
Sanitary Sewer Easement Improvement Program	\$2,350,000
<i>Wastewater Treatment</i>	
Hartford Water Pollution Control Facility (WPCF) Continuous Emission Monitoring System (CEMS) Room/Incinerator Upgrades	\$4,800,000
Poquonock WPCF -Trickling Filter, Electrical and Supervisory Control and Data Acquisition (SCADA) Upgrades (appropriation increase)	\$12,960,000
WPCF - Infrastructure Rehabilitation, Upgrades & Replacements	\$3,670,000
<i>Wastewater Total</i>	\$31,480,000

Capital Budget

Capital Improvement Program - Sewer

Program – General Purpose Sewer

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$1,500,000	C-24S01	2110

Description

Planning, design and construction of the replacement and/or rehabilitation of existing sewer mains, pump stations, and any related collection system appurtenances at various locations District- wide as a result of infrastructure exceeding useful life. Projects may also include electrical, mechanical, and renewable energy upgrades in addition to facility upgrades and site work at wastewater treatment facilities. Projects may include limited sewer work associated with related water main replacements in order to maximize efficiency. Consultant, contractor, or District resources may be utilized. The District costs may include salary, benefits and overhead.

Purpose

To rehabilitate, upgrade or replace aging sewer pipelines and structures.

Future Appropriations

Future appropriation requests for additional projects are anticipated over the next four years.

Bond Language

The sum of \$1,500,000 is hereby appropriated for the planning, design and construction of the replacement and/or rehabilitation of existing sewer mains, pump stations and any related collection system appurtenances at various locations within the District, including electrical, mechanical, and renewable energy upgrades in addition to facility upgrades and site work at wastewater treatment facilities. The appropriation may also be expended for sewer replacements, inspection costs, engineering and professional fees, materials, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the projects. Consultant, contractor or District resources may be utilized for the projects. The District costs may include salary, benefits and overhead.

Capital Budget

Capital Improvement Program - Sewer

Program – Various Small Pump Station Renewals & Rehabilitations

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$2,000,000	C-24S02	2110

Description

Design of improvements and/or construction of various equipment renewals, replacements, and rehabilitation at wastewater pump stations throughout District member towns to address various process, mechanical, structural, electrical, instrumentation and controls systems upgrades. Planned projects include installation of new pumps; replacement of process piping and valves; electrical/controls replacements and modifications; structural component replacement including aluminum grating and wet well covers. An inventory and evaluation of existing wastewater pump stations is also included. These projects are intended to extend and enhance the asset life. District and outside resources may be utilized for this program. The District costs may include salary, benefits and overhead.

Purpose

To repair, rehabilitate or replace wastewater pump stations.

Future Appropriations

Future appropriation requests for additional projects are anticipated over the next four years.

Bond Language

The sum of \$2,000,000 is hereby appropriated for the design of improvements and/or construction of various equipment renewals, replacements, and rehabilitation at wastewater pump stations throughout District member towns to address various process, mechanical, structural, electrical, instrumentation and controls systems upgrades. Planned projects include installation of new pumps, replacement of process piping and valves, electrical/controls replacements and modifications, structural component replacement including aluminum grating and wet well covers. The appropriation may also be expended for an inventory and evaluation of existing wastewater pump stations, design, construction and inspection costs, engineering and professional fees, materials, equipment, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the projects. District resources and outside resources may be utilized for the projects. The District costs may include salary, benefits and overhead.

Capital Budget

Capital Improvement Program - Sewer

Program – Various Wastewater Collection System Improvements in Hartford and East Hartford

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$1,600,000	C-24S03	2110

Description

Wastewater collection system improvements are necessary prior to replacing approximately 5,200 linear feet of aging water mains on Chadwick, Goodwin, Deerfield, Hanmer and Francis Streets in East Hartford and Hartford. District and outside resources may be utilized for this program. The District costs may include salary, benefits and overhead.

Purpose

To replace aging pipelines and structures.

Future Appropriations

No additional appropriation requests are anticipated over the next four years.

Bond Language

The sum of \$1,600,000 is hereby appropriated for wastewater collection system improvements which are necessary prior to replacing approximately 5,200 linear feet of aging water mains on streets including but not limited to Chadwick Avenue and Deerfield Avenue in Hartford and Francis Street, Hanmer Street and Goodwin Place in East Hartford. The appropriation may also be expended for including design, construction and inspection costs, engineering and professional fees, materials, equipment, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the projects. District resources and outside resources may be utilized for the projects. The District costs may include salary, benefits and overhead.

Capital Budget

Capital Improvement Program - Sewer

Program – Paving Program and Restoration

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$2,600,000	C-99P24	2110

Description

Final restoration of roads, sidewalks, driveways, parking lots and other areas disturbed by work on MDC sewer infrastructure, including costs for disposal of unsuitable materials and usage of material from stock. District and outside resources may be utilized for this program. The District costs may include salary, benefits and overhead.

Purpose

To restore sites associated with various sewer main installations, replacements and repairs.

Future Appropriations

Future appropriation requests for additional projects are anticipated over the next four years.

Bond Language

The sum of \$2,600,000 is hereby appropriated for final pavement restoration of roads, sidewalks, driveways, parking lots and other areas disturbed by work performed on District sewer infrastructure projects, including design, construction and inspection costs, engineering and professional fees, materials, costs related to the disposal of unsuitable materials and the usage of material from stock, equipment, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the projects. District resources and outside resources may be utilized for the projects. The District costs may include salary, benefits and overhead.

Capital Budget

Capital Improvement Program - Sewer

Program – Sanitary Sewer Easement Improvement Program

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$2,350,000	C-24S04	2110

Description

Planning, design and construction for the improvements to existing District Sanitary Sewer Easements. Improvements may include, but not limited to clearing, cutting, or other improvements as required to maintain or improve access to existing sanitary sewer infrastructure within easements. District and outside resources may be utilized for this program. The District costs may include salary, benefits and overhead.

Purpose

To rehabilitate aging pipelines and structures within recently cleared District sewer easement areas.

Future Appropriations

Future appropriation requests for additional projects are anticipated over the next two years.

Bond Language

The sum of \$2,350,000 is hereby appropriated for planning, design, and construction costs for improvements to the District's sanitary sewer easements, including costs for clearing, cutting and other improvements required to maintain or improve access to existing sanitary sewer infrastructure within easements. The appropriation may also be expended for inspection costs, engineering and professional fees, materials, equipment, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the projects. District resources and outside resources may be utilized for the projects. The District costs may include salary, benefits and overhead.

Capital Budget

Capital Improvement Program - Sewer

Program – Hartford Water Pollution Control Facility (WPCF) Continuous Emission Monitoring System (CEMS) Room/Incinerator Upgrades

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$4,800,000	C-24S05	2110

Description

Project consist of the construction of various improvements at the Hartford Water Pollution Control Facility (HWPCF) Sludge Processing Building. Improvements include a new and larger continuous emissions monitoring system (CEMS) room, upgrading the overall Incinerator Building HVAC system (louvers, fans, ductwork, controls, etc.), various improvements involving the three (3) incinerator stacks, and safety improvements. Project will include all mechanical, electrical, structural, architectural, instrumentation, and control. Consultant services shall include both engineering and inspection services. District resources may be utilized for a portion of this project. The District cost may include salary, benefits, and overhead.

Purpose

To rehabilitate aging infrastructure at the District's Hartford Water Pollution Control Facility.

Future Appropriations

No additional appropriation requests are anticipated over the next four years.

Bond Language

The sum of \$4,800,000 is hereby appropriated for upgrades to the Hartford Water Pollution Control facility, including the construction of various improvements at the Sludge Processing Building, improvements to the continuous emissions monitoring system (CEMS) room, upgrades to the overall Incinerator Building HVAC system, including, but not limited to, louvers, fans, ductwork and controls, various improvements to three incinerator stacks and safety improvements. The appropriation may also be expended for design and construction costs, mechanical and electrical costs, various safety improvements, structural repair costs, inspection costs, engineering, architectural and professional fees, materials, instrumentation, controls systems, equipment, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the projects. District resources may be utilized for the projects. The District costs may include salary, benefits and overhead.

Capital Budget

Capital Improvement Program - Sewer

Program – Poquonock WPCF - Trickling Filter, Electrical and Supervisory Control and Data Acquisition (SCADA) Upgrades (appropriation increase)

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$12,960,000	C-24S06	2110

Description

Additional funding for design and construction the District's Poquonock Water Pollution Control Facility (PWPCF) Trickling Filter Nitrogen Removal and Supervisory Control and Data Acquisition (SCADA) upgrades at the facility. District resources may be utilized for a portion of this project. The District cost may include salary, benefits, and overhead.

Purpose

Infrastructure rehabilitation, upgrades and replacement work at the PWPCF including mechanical, electrical, instrumentation, and controls systems. Safety and SCADA improvements are also planned.

Future Appropriations

No additional appropriation requests are anticipated over the next four years.

Bond Language

The sum of \$12,960,000 is hereby appropriated for the design and construction of upgrades to the Poquonock Water Pollution Control Facility including Trickling Filter Nitrogen Removal and Supervisory Control and Data Acquisition (SCADA) upgrades. The appropriation may also be expended for design, inspection and construction costs, engineering and professional fees, mechanical and electrical costs, instrumentation, materials, equipment, controls systems, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the projects. District resources may be utilized for the projects. The District costs may include salary, benefits and overhead.

Capital Budget

Capital Improvement Program - Sewer

Program – WPCF – Infrastructure Rehabilitation, Upgrades and Replacements

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$3,670,000	C-24S07	2110

Description

Design and construction of various infrastructure renewals and replacements at the District's four water pollution control facilities (WPCF). This project will rehabilitate multiple water pollution control assets to modernize existing systems; improve operational readiness/reliability and safety; and increase wastewater processing capabilities. District resources may be utilized for this program. The District costs may include salary, benefits and overhead.

Purpose

Infrastructure rehabilitation, upgrades and replacement work at all four water pollution control facilities including mechanical, electrical, instrumentation, and controls systems. Safety improvements are also planned.

Future Appropriations

Future appropriation requests for additional projects are anticipated over the next four years.

Bond Language

The sum of \$3,670,000 is hereby appropriated for design and construction costs related to various infrastructure renewals and replacements at the District's four water pollution control facilities. The appropriation may be expended for the rehabilitation of multiple water pollution control assets to modernize existing systems, including design, inspection and construction costs, engineering and professional fees, safety improvements, mechanical and electrical costs, instrumentation, materials, equipment, instrumentation, controls systems, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the projects. District resources may be utilized for the projects. The District costs may include salary, benefits and overhead.

Capital Budget

Capital Improvement Program - Water

The following is a list of the recommended water system programs and projects to be funded through the MDC's 2024 Capital Improvement Program budget. Each is considered to be a separate undertaking in accordance with Section 3-11 of the Charter of the Metropolitan District. The projects that comprise the water system programs are necessary to extend, upgrade and maintain the extensive water infrastructure throughout the District and to enhance the efficiency and effectiveness of facility operations.

Water	
General Purpose Water	\$4,000,000
Water Distribution	
Paving Program & Restoration	\$5,800,000
Water Pump Station Renewals and Rehabilitations	\$400,000
Advanced Meter Reading Program	\$1,300,000
Water Storage Tank Rehabilitation & Improvements	\$1,600,000
Farmington 11/Sisson Area Water Main Replacements (appropriation increase)	\$3,000,000
Water Service Verification Contract	\$5,000,000
District-wide Water Main Replacement Program	\$11,000,000
Hartford Water Main Replacements	\$7,000,000
Bishops Corner Water Main Replacements (appropriation increase)	\$3,000,000
Connecticut River Crossing Transmission Main (possible EPA grant)	\$3,000,000
Water Supply Infrastructure Rehabilitation, Upgrades & Replacements	\$1,910,000
Water Total	\$47,010,000

Capital Budget

Capital Improvement Program - Water

Program – General Purpose Water

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$4,000,000	C-24W01	2120

Description

Planning, design and construction of the replacement and/or rehabilitation of aging water mains and related system-wide equipment/infrastructure improvements to enhance the effectiveness, efficiency and safety of the District's water supply, treatment and distribution systems. Projects may include electrical, mechanical, or renewable energy upgrades at District facilities as well as water modeling, master planning and the integration of Supervisory Control and Data Acquisition (SCADA) and data collection/evaluation systems. District and outside resources may be utilized. The District costs may include salary, benefits and overhead.

Purpose

To enhance the effectiveness, efficiency and safety of the District's water supply, treatment and distribution systems.

Future Appropriations

Future appropriation requests for additional projects are anticipated over the next four years.

Bond Language

The sum of \$4,000,000 is hereby appropriated for the planning, design and construction of the replacement and/or rehabilitation of aging water mains and related system-wide equipment/infrastructure improvements, including electrical, mechanical or renewable energy upgrades at District facilities, water modeling, master planning and the integration of SCADA and data collection/evaluation systems, inspection costs, engineering and professional fees, materials, equipment, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the projects. District resources and outside resources may be utilized for the projects. The District costs may include salary, benefits and overhead.

Capital Budget

Capital Improvement Program - Water

Program – Paving Program & Restoration

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$5,800,000	C-99P24	2120

Description

Final restoration of roads, sidewalks, driveways, parking lots and other areas disturbed by work on MDC water infrastructure, including costs for disposal of unsuitable materials and usage of material from stock. District and outside resources may be utilized for this program. The District costs may include salary, benefits and overhead.

Purpose

To restore sites associated with various water main installations, replacements and repairs.

Future Appropriations

Future appropriation requests for additional projects are anticipated over the next four years.

Bond Language

The sum of \$5,800,000 is hereby appropriated for final pavement restoration of roads, sidewalks, driveways, parking lots and other areas disturbed by work performed on District water infrastructure projects, including design, construction and inspection costs, engineering and professional fees, materials, costs related to the disposal of unsuitable materials and the usage of material from stock, equipment, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the projects. District resources and outside resources may be utilized for the projects. The District costs may include salary, benefits and overhead.

Capital Budget

Capital Improvement Program - Water

Program – Water Pump Station Renewals and Rehabilitations

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$400,000	C-24W02	2120

Description

Design and/or construction of upgrades, rehabilitation, replacements and improvements to the District's water pump stations including motors and pumps and other equipment to address mechanical, piping, process, electrical, instrumentation, water quality, security and control systems. These improvements will enhance operational readiness and reliability, improve maintenance, safety and security, increase capacity, lower energy consumption, and enhance assets life. District and outside resources may be utilized for this program. The District costs may include salary, benefits and overhead.

Purpose

To improve the functionality of District water pump stations.

Future Appropriations

Future appropriation requests for additional projects are anticipated over the next four years.

Bond Language

The sum of \$400,000 is hereby appropriated for the design of improvements and/or construction of upgrades, rehabilitations, replacements and improvements to the District's water pump stations, including motors and pumps and other equipment. The appropriation may be expended for mechanical costs, electrical costs, water quality improvements, security improvements, instrumentation and controls systems. The appropriation may also be expended for design, construction and inspection costs, engineering and professional fees, materials, equipment, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the projects. District resources and outside resources may be utilized for the projects. The District costs may include salary, benefits and overhead.

Capital Budget

Capital Improvement Program - Water

Program – Advanced Meter Reading Program

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$1,300,000	C-99M24	2120

Description

The Advanced Meter Reading Program includes costs for all materials, equipment, technology and labor needed to replace water meters and install meter reading devices, including internal and contractor labor. This project will be used towards the long-term standardization and scheduled replacement program of meters, meter reading devices and appurtenances and may include the implementation of new meter reading technology and implementation of customer portal. District and outside resources may be utilized for this program. The District costs may include materials, equipment, salary, benefits and overhead.

Purpose

To reduce the number of estimated water bills, replace meters that have exceeded manufacturers suggested life expectancy, replace outdated meter reading systems and standardize meter inventory.

Future Appropriations

Future appropriation requests for additional projects are anticipated over the next four years.

Bond Language

The sum of \$1,300,000 is hereby appropriated for the Advanced Meter Reading Program to replace water meters and install meter reading devices and appurtenances. The appropriation may also be expended for technology upgrades, including design, construction and inspection costs, engineering and professional fees, materials, equipment, technology upgrades, the implementation of a customer portal, meters, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the projects. District resources and outside resources may be utilized for the projects. The District costs may include salary, benefits and overhead.

Capital Budget

Capital Improvement Program - Water

Program – Water Storage Tank Rehabilitation & Improvements

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$1,600,000	C-24W03	2120

Description

To extend the lifespan, improve the condition and enhance the water quality, security, efficiency and safety of the District's water storage tanks, standpipes, basins and various utility equipment. Scope of work includes but is not limited to the painting, rehabilitation and site safety, utility and site utility improvements to various water storage tanks, standpipes and utility equipment. Projects may also include electrical, mechanical, structural, or site safety upgrades. Consultant, Contractor, or District resources may be utilized. District costs may include planning, design, construction, inspection, materials, equipment, salary, benefits & overhead.

Purpose

To extend the lifespan, improve the condition and enhance the water quality, security, efficiency and safety of the District's water storage tanks and basins.

Future Appropriations

No additional appropriation requests are anticipated over the next four years.

Bond Language

The sum of \$1,600,000 is hereby appropriated for the rehabilitation of and improvements to the District's water storage tanks, including tanks, standpipes, basins and various utility equipment. The appropriation may also be expended for design, construction and inspection costs, painting, site utility improvements, site safety upgrades, engineering and professional fees, electrical and mechanical costs, structural improvements, materials, equipment, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the projects. Consultant, contractor or District resources may be utilized for the projects. The District costs may include planning, design, construction, inspection, materials, equipment, salary, benefits and overhead.

Capital Budget

Capital Improvement Program - Water

Program – Farmington 11/Sisson Area Water Main Replacements (appropriation increase)

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$3,000,000	C-24W04	2120

Description

This project is for the replacement of approximately 9,300 linear feet of 2 inch and 8 inch water mains in the vicinity of Marshall Street and Laurel Street. Including, but not limited to work on Niles Street, South Marshall Street, Case Street, Sherman Street, Lorraine Street, Denison St, Frederick St and Owen St. The old water main will be replaced with ductile iron pipe.

Purpose

To replace aging pipelines and structures.

Future Appropriations

No additional appropriation requests are anticipated over the next four year.

Bond Language

The sum of \$3,000,000 is hereby appropriated for the replacement of approximately 9,300 linear feet of 2-inch and 8-inch water mains in the vicinity of Marshall Street and Laurel Street in Hartford, including, but not limited to, work on Niles Street, South Marshall Street, Case Street, Sherman Street, Lorraine Street, Denison Street, Frederick Street and Owen Street in Hartford. The appropriation may also be expended for design, construction and inspection costs, engineering and professional fees, materials, equipment, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the projects. District resources may be utilized for the projects. The District costs may include salary, benefits and overhead.

Capital Budget

Capital Improvement Program - Water

Program – Water Service Verification Contract

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$5,000,000	C-24W05	2120

Description

This project is required in order to obtain the unknown material of service piping as part of the Lead & Copper Revised Rule (Inventory) project. Contracts may include test pits, renewals, meter pits, and/or restoration. Including inspection. District resources may be utilized for this program. The District costs may include salary, benefits and overhead.

Purpose

To investigate the unknown material of service piping as part of the Lead & Copper Revised Rule (Inventory) project.

Future Appropriations

Future appropriation requests for additional projects are anticipated over the next two years.

Bond Language

The sum of \$5,000,000 is hereby appropriated to investigate and obtain the unknown material of service piping as part of the Lead & Copper Revised Rule (Inventory) project mandated by the Environmental Protection Agency (EPA). Contracts may include test pits, renewals, meter pits, and restoration and inspection costs. The appropriation may also be expended for materials, equipment, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the project. District resources may be utilized for the project. The District costs may include salary, benefits and overhead.

Capital Budget

Capital Improvement Program - Water

Program – District-wide Water Main Replacement Program

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$11,000,000	C-24W06	2120

Description

Design and/or construction for the rehabilitation and/or replacement of various water mains and water services throughout the District that have exceeded their useful life and/or have experienced numerous breaks. District resources may be utilized for this program. The District costs may include salary, benefits and overhead.

Purpose

To improve the efficiency and safety of the District's water distribution system.

Future Appropriations

Future appropriation requests for additional projects are anticipated over the next four years.

Bond Language

The sum of \$11,000,000 is hereby appropriated for design and construction costs for the rehabilitation and/or replacement of various water mains and water services throughout the District, including inspection costs, engineering and professional fees, materials, equipment, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the projects. District resources may be utilized for the projects. The District costs may include salary, benefits and overhead.

Funding Sources

Project is eligible for a loan under the State of Connecticut DWSRF. However, funding is a condition of priority ranking and fund availability.

Capital Budget

Capital Improvement Program - Water

Program – Hartford Water Main Replacements

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$7,000,000	C-24W07	2120

Description

Construction, inspection and associated work for the replacement of existing water main and service reconnections in Hartford. The project will include, but not be limited to, the replacement of water mains in North Hartford in coordination with other sewer rehabilitation projects as well as water main replacements in South Hartford. District resources may be utilized for this program. The District costs may include salary, benefits and overhead.

Purpose

Replacement of existing water main and service reconnections in Hartford.

Future Appropriations

No additional appropriation requests are anticipated over the next four years.

Bond Language

The sum of \$7,000,000 is hereby appropriated for construction, inspection and associated work for the replacement of existing water mains and service reconnections in Hartford. The project will include, but not be limited to, the replacement of water mains in North Hartford in coordination with other sewer rehabilitation projects as well as water main replacements in South Hartford. The appropriation may also be expended for design costs, engineering and professional fees, materials, equipment, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the projects. District resources may be utilized for the projects. The District costs may include salary, benefits and overhead.

Funding Sources

Project is eligible for a loan under the State of Connecticut DWSRF. However, funding is a condition of priority ranking and fund availability.

Capital Budget

Capital Improvement Program - Water

Program – Bishops Corner Water Main Replacements (appropriation increase)

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$3,000,000	C-24W08	2120

Description

Additional funds requested for the construction, inspection and associated work for the replacement of two existing water mains and service connections in Bishops Corner, West Hartford. The project will replace the existing 8 inch and 12 inch mains with a new single 12 inch main. District resources may be utilized for this program. The District costs may include salary, benefits and overhead.

Purpose

To replace aging pipelines and structures.

Future Appropriations

No additional appropriation requests are anticipated over the next four years.

Bond Language

The sum of \$3,000,000 is hereby appropriated for construction, inspection and associated work for the replacement of two existing water mains and service connections in Bishops Corner, West Hartford. The project will include the replacement of the existing 8-inch and 12-inch mains with a new single 12-inch main. The appropriation may also be expended for design costs, engineering and professional fees, materials, equipment, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the project. District resources may be utilized for the project. The District costs may include salary, benefits and overhead.

Funding Sources

Project is eligible for a loan under the State of Connecticut DWSRF. However, funding is a condition of priority ranking and fund availability

Capital Budget

Capital Improvement Program - Water

Program – Connecticut River Crossing Transmission Main (possible EPA grant)

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$3,000,000	C-24W09	2120

Description

To enhance the effectiveness, efficiency, safety and reliability of the District's water transmission system with work including but not limited to design and construction of a water transmission main crossing the Connecticut River. Consultant, Contractor, or District resources may be utilized. District costs may include planning, design, construction, inspection, materials, equipment, salary, benefits & overhead.

Purpose

To enhance the effectiveness, efficiency, safety and reliability of the District's water transmission system.

Future Appropriations

Future appropriation requests for additional projects are anticipated over the next two years.

Bond Language

The sum of \$3,000,000 is hereby appropriated for enhancements to the District's water transmission system, including the design of a water transmission main crossing the Connecticut River. The appropriation may also be expended for engineering and professional fees, materials, equipment, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the project. Consultant, contractor or District resources may be utilized for the project. District costs may include planning, design, construction, inspection, materials, equipment, salary, benefits and overhead.

Funding Sources

Project is eligible for funding under EPA earmark program. However, funding is a condition of priority ranking and fund availability

Capital Budget

Capital Improvement Program - Water

Program – Water Supply Infrastructure Rehabilitation, Upgrades & Replacements

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$1,910,000	C-24W10	2120

Description

Design and construction of various infrastructure renewal and replacements at the District's water supply facilities and functions. Multiple water supply assets will be rehabilitated to improve raw water quality, operational reliability, security and safety. These projects are intended to extend and enhance the asset life. District resources may be utilized for this program. The District costs may include salary, benefits and overhead.

Purpose

To extend and enhance the asset life of water supply infrastructure.

Future Appropriations

Future appropriation requests for additional projects are anticipated over the next four years.

Bond Language

The sum of \$1,910,000 is hereby appropriated for the design and construction of various infrastructure renewal and replacements at the District's water supply facilities and functions. The appropriation may also be expended for engineering and professional fees, materials, equipment, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the projects. District resources may be utilized for the projects. The District costs may include salary, benefits and overhead.

Capital Budget

Capital Improvement Program - Combined

The following is a list of the recommended combined capital programs and projects to be funded through the MDC's 2024 Capital Improvement Program budget. These capital programs and projects provide for needed fleet and equipment replacement and upgrades, facility improvements and staffing. Each is considered to be a separate undertaking in accordance with Section 3-11 of the Charter of the Metropolitan District.

Combined	
2024 IT SAP Upgrades Project	\$3,500,000
CEM Vehicles	\$4,315,000
CEM Generators	\$207,000
Facilities	\$683,000
Engineering Services Staffing	\$7,146,000
Construction Services Staffing	\$4,526,000
Combined Total	\$20,377,000

The following positions are included in the combined capital program:

Authorized Positions

Title	Number
Assistant Manager of Engineering	1
Construction & Utilities Services Supervisors	5
Construction Managers	10
Durational Project Engineer	1
Engineering Technicians	2
Engineering Technicians 2	2
Engineering Technicians 3	2
Manager of Engineering	1
Manager of Construction & Inspection Services	1
Professional Level Trainee	1
Project Engineers 2	2
Project Control Manager	1
Project Managers	9
Senior Clerk	1
Senior Project Managers	7
Senior Engineering Technicians	<u>2</u>
Total	48

Capital Budget

Capital Improvement Program - Combined

Program – 2024 IT SAP Upgrades Project

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$3,500,000	C-24C01	2130

Description

Information Technology 2024 budget request for SAP Application upgrades in accordance with the SAP Master Project Plan for Calendar Years 2024 through 2025. Project work to include but may not be limited to supporting system upgrades to the following modules or application conversions: Novak Conversion, Sunsetting of Legacy SAP system, Scalable Reporting Solution, S/4 HANA Solution Evaluation for Customer Engagement (CRB/CRM/Call Center/Chatbot), Finance and Materials Management/Procurement (Vendor Engagement), Human Resources (HCM/Success Factors), Enterprise Asset Management (EAM), IT Technical infrastructure for S/4 HANA, Governance, Risk and Compliance (GRC), Disaster Recovery testing and Solution Manager, OpenText Upgrades and SAP Project downstream impacts to OpenText.

Purpose

District-wide Information Technology infrastructure upgrade.

Future Appropriations

Future appropriation requests for additional projects are anticipated over the next four years.

Bond Language

The sum of \$3,500,000 is hereby appropriated for the Information Technology 2024 budget request for SAP Application upgrades in accordance with the SAP Master Project Plan for Calendar Years 2024 through 2025. Project work may include, but is not be limited to, supporting system upgrades to the following modules or application conversions: Novak Conversion, Sunsetting of Legacy SAP system, Scalable Reporting Solution, S/4 HANA Solution Evaluation for Customer Engagement (CRB/CRM/Call Center/Chatbot), Finance and Materials Management/Procurement (Vendor Engagement), Human Resources (HCM/Success Factors), Enterprise Asset Management (EAM), IT Technical infrastructure for S/4 HANA, Governance, Risk and Compliance (GRC), Disaster Recovery testing and Solution Manager, OpenText Upgrades and SAP Project downstream impacts to OpenText. The appropriation may also be expended for materials, equipment, professional fees, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the projects.

Capital Budget

Capital Improvement Program - Combined

Program – Central Equipment Maintenance (CEM) Vehicles

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$4,315,000	C-99F24	2130

Description

This program consists of replacement and/or upgrades to the District's transportation and power operated equipment fleet and related/associated components. These vehicles, equipment and related/ associated components are intended to extend and enhance the capacity and capabilities of the District personnel provided by, but not limited to, District technicians, mechanics, operating and engineering staff. District and outside resources may be utilized for this program. The District costs may include salary, benefits and overhead.

Purpose

To maintain and upgrade the District's fleet and equipment.

Future Appropriations

Future appropriation requests for additional projects are anticipated over the next four years.

Bond Language

The sum of \$4,315,000 is hereby appropriated for the replacement of and/or upgrades to the District's transportation and power operated equipment fleet and related components, including vehicles, equipment, materials, professional fees, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the projects. District resources and outside resources may be utilized for the projects. The District costs may include salary, benefits and overhead.

Capital Budget

Capital Improvement Program - Combined

Program – Central Equipment Maintenance (CEM) Generators

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$207,000	C-99G24	2130

Description

To replace a variety of generators to support the District's pump stations. These generators and related associated components are intended to replace aging generators, that are considered no longer reliable or cost effective to maintain.

Purpose

To replace and upgrade the District's generators equipment.

Future Appropriations

No additional appropriation requests are anticipated over the next four years.

Bond Language

The sum of \$207,000 is hereby appropriated for the replacement of generators to support the District's pump stations, including inspection costs, professional fees, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the projects.

Capital Budget

Capital Improvement Program - Combined

Program – Facilities

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$683,000	C-24C02	2130

Description

Design and construction of a variety of improvements including renewal and replacements at District administrative, operational, and maintenance facilities which will address building development, structural, roofing, architectural, mechanical, electrical, plumbing, fire protection, HVAC, security, site improvements, environmental abatement, and other relevant work. The project also includes equipment upgrades. District resources may be utilized for this program. The District cost may include salary, benefits, and overhead.

Purpose

To ensure the continued efficient and effective operation of the District's facilities and related equipment.

Future Appropriations

Future appropriation requests for additional projects are anticipated over the next four years.

Bond Language

The sum of \$683,000 is hereby appropriated for design and construction costs related to improvements at various District facilities, including structural, architectural and inspection costs, roof repairs, engineering fees, mechanical, electrical and plumbing costs, fire protection costs, HVAC improvements and upgrades, security and site improvements, environmental abatement costs, professional fees, materials, equipment, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the projects. District resources may be utilized for the projects. The District costs may include salary, benefits and overhead.

Capital Budget

Capital Improvement Program - Combined

Program - Engineering Services Staffing

<u>Amount</u> \$7,146,000	<u>Funds Center</u> C1H03	<u>Fund</u> 2130
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Description

Staffing costs.

Purpose

The Engineering Services department holds responsibility for developing and designing the District's capital improvement projects. Projects include improvements to and expansion of the District's water distribution and sewer collection systems and related work on water and sewage treatment plants. For 2024, we have consolidated Technical Services Staffing (C1H05) with the Engineering Services (C1H03) department.

Future Appropriations

Future appropriation requests for this purpose are anticipated over the next four years.

Bond Language

The sum of \$7,146,000 is hereby appropriated for engineering services department staffing for the development and design of the District's capital improvement projects, including improvements to and expansion of the District's water distribution and sewer collection systems and related work on water and sewage treatment plants. The appropriation may also be expended for professional fees, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the projects. District resources may be utilized for the projects. The District costs may include salary, benefits and overhead.

Authorized Positions

Title	Number
Assistant Manager of Engineering	1
Construction Manager	6
Durational Project Engineer	1
Manager of Engineering	1
Professional Level Trainee	1
Project Engineer 2	1
Project Control Manager	1
Project Managers	8
Senior Clerk	1
Senior Project Managers	<u>7</u>
Total	28

Capital Budget

Capital Improvement Program - Combined

Program – Construction Services Staffing

<u>Amount</u> \$4,526,000	<u>Funds Center</u> C1H04	<u>Fund</u> 2130
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Description

Staffing costs.

Purpose

The Construction Services department holds responsibility for construction for all the District's capital improvement projects including improvements to and expansion of the District's water distribution and sewer collection systems and related work on water and sewer treatment plants.

Future Appropriations

Future appropriation requests for this purpose are anticipated over the next four years.

Bond Language

The sum of \$4,526,000 is hereby appropriated for construction services department staffing for the management of the District's capital improvement projects, including improvements to and expansion of the District's water distribution and sewer collection systems and related work on water and sewage treatment plants. The appropriation may also be expended for professional fees, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the projects. District resources may be utilized for the projects. The District costs may include salary, benefits and overhead.

Authorized Positions

<u>Title</u>	<u>Number</u>
Construction & Utility Services Supervisor	5
Construction Manager	4
Engineering Technicians	2
Engineering Technicians 2	2
Engineering Technicians 3	2
Manager of Construction & Inspection Services	1
Project Engineer 2	1
Project Manager	1
Senior Engineering Technician	<u>2</u>
Total	20

Capital Budget

Capital Improvement Program – Hydro Rehabilitation

The following is a list of the recommended Hydro capital program and project to be funded through the MDC's 2024 Capital Improvement Program budget. These capital programs and projects provide for needed modernization to the District's Goodwin Hydroelectric Facility. Each is considered to be a separate undertaking in accordance with Section 3-11 of the Charter of the Metropolitan District.

<u>Hydro Rehabilitation</u>	
Goodwin Hydro Controls Upgrade	\$ 500,000
<i>Hydro Total</i>	\$ 500,000

Capital Budget

Capital Improvement Program – Hydro Rehabilitation

Program – Goodwin Hydro Controls Upgrade

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$500,000	C-24H01	2150

Description

Additional funds requested to provide design and construction of upgrades to the electrical, instrumentation and controls systems at the Goodwin Hydroelectric Facility. Planned improvements include the installation of a new governor system, replacement of hydraulic power units, electrical/controls replacements, and various appurtenant work related to these modifications. This project is intended to enhance the effectiveness of, and extend and enhance the asset life. District and outside resources may be utilized for this program. The District costs may include salary, benefits and overhead.

Purpose

Infrastructure rehabilitation, upgrades and replacement work at the Goodwin Hydroelectric Facility including mechanical, electrical, instrumentation and controls systems.

Future Appropriations

No additional appropriation requests are anticipated over the next four years.

Bond Language

The sum of \$500,000 is hereby appropriated for upgrades to the Goodwin Hydroelectric Facility, including design and construction upgrades to the electrical, instrumentation and controls systems, the installation of a new governor system, the replacement of hydraulic power units, electrical/controls replacements, and various appurtenant work related to these modifications. The appropriation may also be expended for inspection costs, engineering and professional fees, materials, equipment, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the project. District resources and outside resources may be utilized for the project. The District costs may include salary, benefits and overhead.

Capital Budget

Clean Water Program - Summary

The Clean Water Project Capital Budget

The Clean Water Project report was prepared in anticipation of the passage of the November 7, 2006 \$800,000,000 referendum for Clean Water Project. The expenditures planned under this Clean Water Project Fiscal Year 2007 plan have been authorized by vote of the Board on August 7, 2006. This report describes the capital projects planned for 2007 along with the administrative and management costs necessary to support their design and construction. Further action on this budget was not required as the referendum passed.

Clean Water Project Description

Hartford's original core sewer system is now 150 years old, and was built to serve 15,000 people. Today the expanded system serves almost 400,000 people. Most sewers in the surrounding communities are 50 years old – many approaching 100 years old.

Combined sewers, found primarily in Hartford, use one pipe for both wastewater and storm water, and frequently overflow with storm water. When they overflow, they either discharge raw sewage into waterways, or back up into basements and yards. It is no longer legal to construct Combine Sewers.

Modern sanitary sewers, found in suburbs outside of Hartford, use two separate pipes – one for wastewater and one for storm water. Because of their age, many sanitary sewer pipes in the area have developed cracks and breaks, which allow infiltration of rainwater. When sanitary sewers overflow, they also discharge untreated sewage into our waterways.

Sanitary sewer flow from West Harford, Bloomfield, Windsor, Newington, and Wethersfield flow into the Hartford sewer system, which overburdens the city's sewers. This situation "backs up" the sanitary sewers causing frequent overflows.

Sanitary Sewers overflow to area's brooks throughout the region: North and South Branch and Park River in Hartford; Trout Brook in West Harford; Piper Brook and School House Brook in Newington; Beaver Brook and Folly Brook in Wethersfield; Goff Brook in Rocky Hill; and, Decker Brook in Windsor.

Overflows that occur more than 50 times each year- every time it rains more than 0.1 inch- discharge raw sewage that can impact the Connecticut River water quality for 30 miles – to East Had-dam, CT.

More than 1 billion gallons of untreated wastewater overflows into area streams and waterways annually. In addition, area basements and streets get flooded with raw sewage.

The Clean Water Project utilizes several abatement approaches including: separation of combined sewers in order to remove storm water flows from the sewers; construction of sewage storage systems to prevent overflows during storm events; and additional pipe conveyance and treatment capacity. It will require a construction program of at least 15 years.

Current estimates put the project cost at an average of \$110 million per year, expended over 15 years, totaling \$1.6 billion plus future inflation.

Capital Budget

Clean Water Program – Referendum 1

Program – Clean Water Project – Referendum 1

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$800,000,000	CW1.000000.00	2300

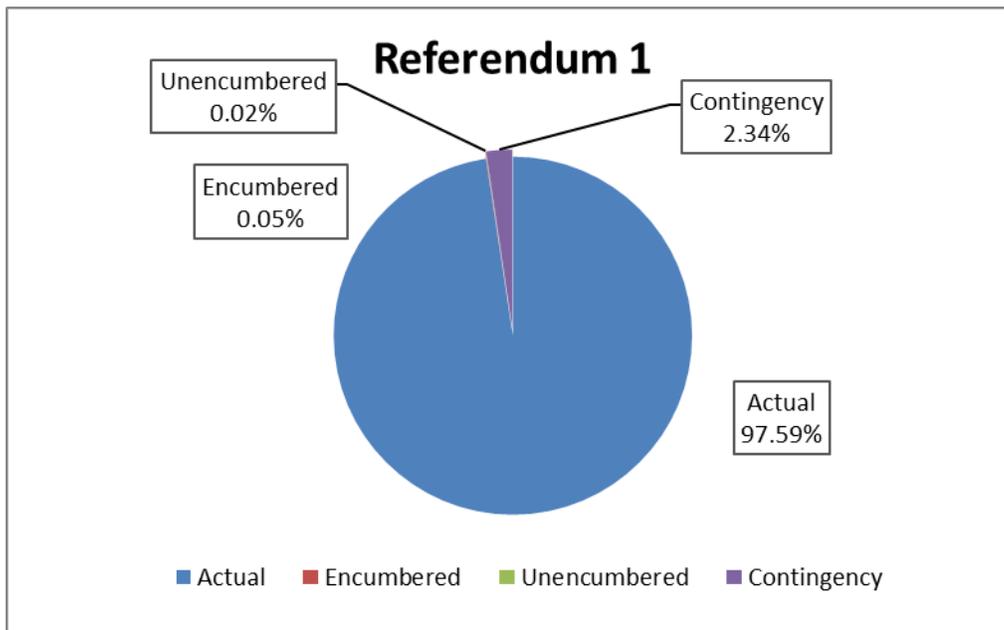
Description

The 2006 Clean Water Project Referendum Fund accounts for financial resources to be used for the first phase of the Clean Water Project, which was authorized on November 6, 2006.

Purpose

The Clean Water Project includes programs to control combined sewer overflows, eliminate structural sanitary sewer overflows, and reduce nitrogen discharges to the Connecticut River. These programs are being implemented pursuant to a Consent Order with the Connecticut Department of Energy and Environmental Protection, a Consent Decree with the United States Environmental Protection Agency, and the District's discharge permit for nitrogen.

Referendum 1	
Actual	\$ 780,752,274.50
Encumbered	382,978.16
Unencumbered	123,902.50
Contingency	18,740,844.84
	<u>\$ 800,000,000.00</u>



Capital Budget

Clean Water Program – Referendum 1

as of 9/25/23

Ongoing Projects

Project ID	Project Name	Current Budget	Actual	Encumbered	Remaining Budget
C-12011	CW1.SSOWHA.07 2012 WH SSES	1,537,500.00	1,030,619.34	382,978.16	123,902.50
		\$ 1,537,500.00	\$ 1,030,619.34	\$ 382,978.16	\$ 123,902.50

CW1.000000. Referendum 1 Contingency	18,740,844.84
Completed Projects	779,721,655.16
Referendum 1	<u>\$ 800,000,000.00</u>

Completed Projects

Project ID	Project Name	Current Budget	Actual	Encumbered	Remaining Budget
CW1.CONHOM.00	CLSD-2007 Homestead	\$ 31,044,294.80	\$ 31,044,294.80	\$ -	-
CW1.CONSBR.00	CLSD-South Branch	450,579.73	450,579.73	-	-
CW1.FSSFAR.04	CLSD-Farmington #4	658,004.15	658,004.15	-	-
CW1.FSSFAR.06	CLSD-Fmgton Proj #6	8,191,515.15	8,191,515.15	-	-
CW1.FSSFAR.1A	CLSD-Farm Ave 1A	146,013.41	146,013.41	-	-
CW1.FSSFAR.71	CLSD-Farmington #7.1	2,561,258.59	2,561,258.59	-	-
CW1.FSSFAR.72	CLSD-Farmington #7.2	3,411,661.60	3,411,661.60	-	-
CW1.FSSFAR.PD	CLSD-Farmington Ave	640,900.68	640,900.68	-	-
CW1.MGMGEO.30	CLSD-Geotechnical Se	2,066,949.91	2,066,949.91	-	-
CW1.MGMPMC.07	Clsd2007 CWP PMC	788,016.54	788,016.54	-	-
CW1.MGMPMC.08	Clsd08 CWP PMC	3,981,562.16	3,981,562.16	-	-
CW1.MGMPMC.09	CLSD-2009 CWP PMC	4,539,195.90	4,539,195.90	-	-
CW1.MGMPMC.10	CLSD-2010 CWP PMC	5,414,789.79	5,414,789.79	-	-
CW1.MGMPMC.11	CLSD-2011 CWP PMC	8,157,922.51	8,157,922.51	-	-
CW1.MGMPMC.12	CLSD-2012 CWP PMC	6,719,698.60	6,719,698.60	-	-
CW1.MGMPMC.15	CLSD-15CWP PMC / CDM	6,125,657.96	6,125,657.96	-	-
CW1.MGMPMU.07	CLSD-2007 CWP PMU	3,255,730.36	3,255,730.36	-	-
CW1.MGMPMU.08	CLSD-2008 CWP PMU	3,403,759.44	3,403,759.44	-	-
CW1.MGMPMU.09	CLSD-2009 CWP PMU	5,874,757.78	5,874,757.78	-	-
CW1.MGMPMU.10	CLSD-2010 CWP PMU	10,922,243.51	10,922,243.51	-	-
CW1.MGMPMU.11	CLSD-2011 CWP PMU	11,589,004.93	11,589,004.93	-	-
CW1.MGMPMU.12	CLSD-2012 CWP PMU	6,894,906.59	6,894,906.59	-	-
CW1.MGMPMU.13	CLSD-2013 CWP PMU	6,838,160.08	6,838,160.08	-	-
CW1.MGMPMU.14	CLSD-2014 CWP PMU	242,347.52	242,347.52	-	-
CW1.NSSGRA.01	CLSD-Granby Str	350,653.54	350,653.54	-	-
CW1.NSSGRA.02	CLSD-Granby 2&5 (Cor	32,548,599.93	32,548,599.93	-	-
CW1.NSSGRA.03	CLSD-Granby #3	759,152.57	759,152.57	-	-
CW1.NSSTOW.01	CLSD-2007 Tower Ave	7,863,944.77	7,863,944.77	-	-
CW1.NSSTOW.02	CLSD-Tower Avenue Ar	12,672,280.63	12,672,280.63	-	-
CW1.NSSTOW.1A	CLSD-2011 Tower Ave	4,427,275.10	4,427,275.10	-	-
CW1.NSSTOW.FD	CLSD-Tower Ave #1Des	157,819.00	157,819.00	-	-
CW1.NSSTOW.PD	CLSD-Tower Ave Sep	106,658.86	106,658.86	-	-
CW1.NSSUAL.01	2007 CWP Albany Ave	23,128,719.41	23,128,719.41	-	-
CW1.NSSUAL.02	CLSD-Upper Albany #2	1,189,367.10	1,189,367.10	-	-
CW1.NSSUAL.03	CLSD-Upper Albany #3	777,979.08	777,979.08	-	-
CW1.NSSUAL.07	CLSD-Route 44 Storm	898,400.75	898,400.75	-	-
CW1.NSSUAL.08	CLSD-Garden St	6,893,628.16	6,893,628.16	-	-
CW1.NSSUAL.E3	CLSD-Burton St. Sew	8,605,787.57	8,605,787.57	-	-
CW1.NSSUAL.ES	CLSD-Albany Edgewood	3,494,428.99	3,494,428.99	-	-
CW1.NSSUAL.PD	CLSD-Upper Albany	680,471.26	680,471.26	-	-
CW1.SSOGEN.07	CLSD-2007 CW SSO	13,583,866.10	13,583,866.10	-	-
CW1.SSOGEN.08	CLSD-2008 C W SO	7,690,639.29	7,690,639.29	-	-
CW1.SSOGEN.11	CLSD-SSO Pilot Study	3,333,591.26	3,333,591.26	-	-
CW1.SSONWT.01	CLSD-2012 SSO-Nwgton	3,409,832.12	3,409,832.12	-	-
CW1.SSONWT.02	CLSD-2012 Newinton	6,080,408.08	6,080,408.08	-	-
CW1.SSONWT.06	CLSD-2012 Ntn Church	4,226,592.60	4,226,592.60	-	-

Capital Budget

Clean Water Program – Referendum 1

CW1.SSOWHA.01	CLSD-2012 WHartford	1,577,096.29	1,577,096.29	-	-
CW1.SSOWHA.02	CLSD-2012 SSO Pilot	2,047,087.39	2,047,087.39	-	-
CW1.SSOWHA.04	CLSD-2012 Four Mile	2,689,904.58	2,689,904.58	-	-
CW1.SSOWHA.06	CLSD-2014 Greenhurst	131,925.19	131,925.19	-	-
CW1.SSOWND.01	CLSD-2012 SSO-Wdsr	2,669,498.47	2,669,498.47	-	-
CW1.SSOWND.03	2015 NM-1 Gate Struc	224,714.01	224,714.01	-	-
CW1.SSOWTH.01	CLSD-2011 SSO-Wtflld	4,204,575.71	4,204,575.71	-	-
CW1.SSOWTH.02	2012 RH/Weth. SSES	8,118,002.04	8,118,002.04	-	-
CW1.SSOWTH.03	CLSD-2012 SSO Pilot	2,286,152.78	2,286,152.78	-	-
CW1.SSOWTH.07	CLSD-2012 SSO Exe Sq	125,813.20	125,813.20	-	-
CW1.SSOWTH.08	CLSD- 12 FOLLY BROOK	1,282,440.20	1,282,440.20	-	-
CW1.SSOWTH.10	2014 SSES Rocky Hill	9,469,907.54	9,469,907.54	-	-
CW1.SSSFRA.01	CLSD-Franklin #1- B	1,496,150.82	1,496,150.82	-	-
CW1.SSSFRA.02	CLSD-FranklinAve #7	75,512.19	75,512.19	-	-
CW1.SSSFRA.04	CLSD-Frankln #4 - D	2,134,263.04	2,134,263.04	-	-
CW1.SSSFRA.11	CLSD-Franklin11-Pk A	319,978.07	319,978.07	-	-
CW1.SSSFRA.12	CLSD-Franklin #12 -D	1,556,006.57	1,556,006.57	-	-
CW1.SSSFRA.13	Franklin Proj #13-B	39,696,418.85	39,696,418.85	-	-
CW1.SSSFRA.15	Airport Rd PS F.M.	5,044,260.37	5,044,260.37	-	-
CW1.SSSFRA.16	CLSD- Building Dis 1	543,137.15	543,137.15	-	-
CW1.SSSFRA.17	CLSD-Building Dis 2	400,481.70	400,481.70	-	-
CW1.SSSFRA.18	CLSD-Building Dis 3	316,932.80	316,932.80	-	-
CW1.SSSFRA.1A	CLSD-Franklin Ave- D	804,840.39	804,840.39	-	-
CW1.SSSFRA.4D	Franklin Proj #5-D	31,622,890.67	31,622,890.67	-	-
CW1.SSSFRA.PD	CLSD-Franklin Ave PD	2,032,185.44	2,032,185.44	-	-
CW1.SSSPAR.01	CLSD-Park River #1	580,483.36	580,483.36	-	-
CW1.SSSPAR.03	CLSD-Park River #3	904,041.42	904,041.42	-	-
CW1.SSSPAR.06	CLSD-Green Capital	983,689.36	983,689.36	-	-
CW1.SSSPAR.07	CLSD-Retreat Avenue	9,331,401.93	9,331,401.93	-	-
CW1.SSSPAR.PD	CLSD-Park River Sep	683,914.79	683,914.79	-	-
CW1.WTFHAR.01	CLSD-HWPCF Master	9,736,407.51	9,736,407.51	-	-
CW1.WTFHAR.08	CLSD-Incin #3 Rehab	43,055,158.32	43,055,158.32	-	-
CW1.WTFHAR.10	CLSD-HWPCF SCADA	854,591.82	854,591.82	-	-
CW1.WTFHAR.11	CLSD-UV Disinfection	19,105,159.61	19,105,159.61	-	-
CW1.WTFHAR.12	CLSD-Compost Bldg	1,112,844.65	1,112,844.65	-	-
CW1.WTFHAR.13	CLSD-Aeration Settle	39,458,279.26	39,458,279.26	-	-
CW1.WTFHAR.14	ASH HAND & MERCURY	14,117,939.49	14,117,939.49	-	-
CW1.WTFHAR.16	CLSD-BNR Phase II	35,419,750.97	35,419,750.97	-	-
CW1.WTFHAR.17	CLSD-2011 Solids Hlg	779,406.04	779,406.04	-	-
CW1.WTFHAR.E1	Clsd07 CWP HWPCF PHI	5,200,006.71	5,200,006.71	-	-
CW1.WTFRKH.03	CLSD-Rocky Hill	261,359.38	261,359.38	-	-
CW1.NSSTOW.02	2010 Tower Ave South	10,000.00	10,000.00	-	-
CW1.SSONWT.07	2012 Cedar Newington	3,937,769.30	3,937,769.30	-	-
CW1.SSORKH.07	2012 RH Interceptor	32,862,055.42	32,862,055.42	-	-
CW1.SSOGEN.13	2013 SSO Elimination	1,604,178.02	1,604,178.02	-	-
CW1.SSSPAR.11	2013 Green Infrastructure	605,082.99	605,082.99	-	-
CW1.WTFHAR.20	2013 WWEP #2012-20	90,168,900.86	90,168,900.86	-	-
CW1.WTFHAR.18	2011 Wet Weather Expenses	31,494,239.87	31,494,239.87	-	-
CW1.CONSB.03	2015 Kane Brook Dsn	1,157,311.77	1,157,311.77	-	-
CW1.TUNSTH.00	2015 South CSO Convey Tunnel	38,628,478.99	38,628,478.99	-	-
		\$ 779,721,655.16	\$ 779,721,655.16	\$ -	\$ -

Capital Budget

Clean Water Program – Referendum 2

Program – Clean Water Project – Referendum 2

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$1,026,213,015	CW2.000000.00	2400

Description

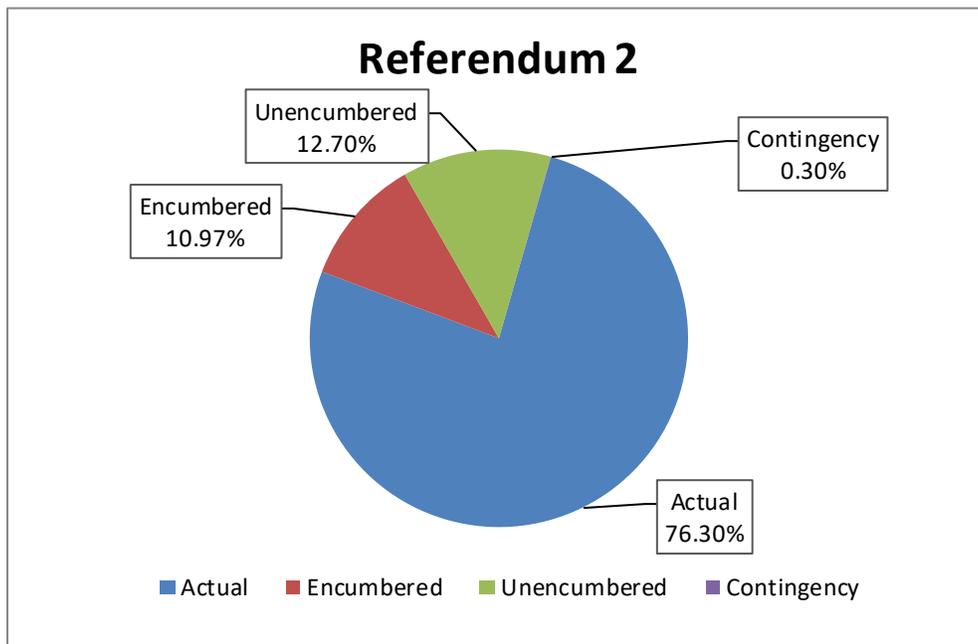
The 2012 Clean Water Project Referendum Fund accounts for financial resources to be used for the first phase of the Clean Water Project, which was authorized on November 6, 2012.

Purpose

The Clean Water Project includes programs to control combined sewer overflows, eliminate structural sanitary sewer overflows, and reduce nitrogen discharges to the Connecticut River. These programs are being implemented pursuant to a Consent Order with the Connecticut Department of Energy and Environmental Protection, a Consent Decree with the United States Environmental Protection Agency, and the District's discharge permit for nitrogen.

Referendum 2

Actual	\$ 782,993,983.80
Encumbered	112,583,181.37
Unencumbered	130,287,077.87
Contingency	348,772.48
	<u>\$ 1,026,213,015.52</u>



Capital Budget

Clean Water Program – Referendum 2

as of 9/25/23

Ongoing Projects

Project ID	Project Name	Current Budget	Actual	Encumbered	Remaining Budget
C-15027	CW2.CONFAR.02 2015 NNBI Rel./Oxfor	2,500,000.00	2,138,850.79	61,396.23	299,752.98
C-15034	CW2.TUNSTH.05 2015 SHCST	44,029,124.73	41,196,122.86	2,119,638.22	713,363.65
C-15035	CW2.TUNSTH.02 2015 SHCST Construction	376,495,845.00	317,783,145.54	9,520,105.06	49,192,594.40
C-15036	CW2.TUNSTH.03 2015 SHCST Pump Station	141,320,000.00	32,258,957.45	100,874,450.61	8,186,591.94
C-4A02	PMC 2022	3,810,157.42	3,810,157.42	-	0.00
C-4A02	PMC 2021	3,790,130.92	3,790,130.92	-	-
C-4A02	PMC 2020	3,567,036.36	3,567,036.36	-	-
C-4A02	PMC 2019	1,229,323.60	1,229,323.60	-	-
C-4A02	PMU Overhead 2020	8,291,000.00	8,291,000.00	-	-
C-4A02	PMU Overhead 2021	6,291,000.00	6,291,000.00	-	-
C-4A02	Clean Water Fund 2012 II	71,970,863.19	68,497.04	7,591.25	71,894,774.90
		\$ 663,294,481.22	\$ 420,424,221.98	\$ 112,583,181.37	\$ 130,287,077.87

CW2.000000.00	Referendum 2 Contingency	\$ 348,772.48
	Completed Projects	362,569,761.82
	Referendum 2	\$ 1,026,213,015.52

	Original Authorization	\$ 800,000,000.00
	Increase as of 10/5/2016 footnote below CT #2	140,000,000.00
	Increase as of 9/2/2020 footnote below CT #5	18,800,000.00
	Increase as of 5/1/2023 District Board CT #2	925,166.05
	Increase as of 5/1/2023 District Board CT #5	8,415.75
	Increase as of 5/1/2023 District Board CT #3	66,479,433.72
		\$ 1,026,213,015.52

THE METROPOLITAN DISTRICT NOTES TO FINANCIAL STATEMENTS

Referendum Requirements

Generally speaking, appropriations for the cost of large projects must be approved by referendum vote of the electors of the Member Municipalities. Effective October 1, 2015, Public Act No. 15-114 excludes from the referendum requirement appropriations funded by Federal or State grants. An \$800 million appropriation for the Clean Water Project was approved at referendum on November 7, 2006. An appropriation for an additional \$800 million for the Clean Water Project was approved at referendum on November 6, 2012. An appropriation of \$140 million for a grant, not requiring a referendum, was approved by the District Board on October 5, 2016. Another appropriation of \$18.8 million for a grant not requiring a referendum was approved by the District Board on September 2, 2020. The District expects to appropriate further funds for the Clean Water Project without a referendum for portions paid for by State grants.

The District expects that the treatment plant work and the South Tunnel and related improvements will be completed within existing appropriations, assuming the ongoing South Tunnel work proceeds within contemplated cost estimates and that expected grants are received. Some portion of the Integrated Plan work in the resubmitted LTCP may be undertaken within existing appropriations if future grants are received for eligible projects. Full compliance with the resubmitted LTCP will likely require submission of one or more further appropriations for approval by electors at referendum. The District has made no determination as to when an additional referendum will be held.

The District cannot give any assurances as to when the Clean Water Project will be completed or its total cost as it is highly dependent on the availability of grants and loans from the State.

The District has issued, to date, \$271.075 million in Clean Water Project Revenue Bonds, \$252.350 million of which were outstanding as of December 31, 2020. The Clean Water Project Revenue Bonds are being repaid from a portion of the Clean Water Project Charge (previously the Special Sewer Service Surcharge) and are not general obligations of the District.

Capital Budget

Clean Water Program – Referendum 2

Completed Projects

Project ID	Project Name	Current Budget	Actual	Encumbered	Remaining Budget
CW2.MGMCWP.13	2013 CWP Admin	\$ 505,030.18	\$ 505,030.18	\$ -	\$ -
CW2.MGMCWP.14	2014 CWP Admin.	10,955,011.23	10,955,011.23	-	-
CW2.MGMCWP.16	2016 CWP Admin	10,471,683.85	10,471,683.85	-	-
CW2.MGMCWP.17	2017 CWP Admin	9,441,000.00	9,441,000.00	-	-
CW2.MGMPMC.16	2016 CWP PMC/CD	3,830,829.76	3,830,829.76	-	-
	2018 cwp admin	9,299,931.25	9,299,931.25	-	-
	2019 cwp admin	8,291,000.00	8,291,000.00	-	-
	2017 cwp pmc/cdm	6,260,164.75	6,260,164.75	-	-
	2018 cwp pmc/cdm	3,974,506.30	3,974,506.30	-	-
	2019 cwp pmc/cdm	2,674,507.63	2,674,507.63	-	-
CW2.SSSPAR.10	2014 PRICRIGrit	40,684.88	40,684.88	-	-
CW2.WTFHAR.24	2013 231 BRNRD	10,421,490.76	10,421,490.76	-	-
CW2.MGMPMC.13	2013 CWP PMC	7,895,855.33	7,895,855.33	-	-
CW2.CSOGEN.16	2016 LTCP Flow Metering	1,531,681.76	1,531,681.76	-	-
CW2.MGMCWP.15	2015 CWP Admin	11,269,060.17	11,269,060.17	-	-
CW2.MGMPMC.14	2014 CWP PMC / CDM SMITH	6,914,745.94	6,914,745.94	-	-
CW2.NSSUAL.09	2014 Gully Brook Conduit Connections	425,239.63	425,239.63	-	-
CW2.SSOWHA.06	2015 Greenhurst Rd Area Sanitary Swr Imp	5,285,027.58	5,285,027.58	-	-
CW2.TUNSTH.01	2015 SHCST Utility Relocation	2,606,344.15	2,606,344.15	-	-
CW2.WTFRKH.04	2013 RHPCF Cap & Up	57,616,907.66	57,616,907.66	-	-
CW2.CSOGEN.17	2015 Large Diameter Clean	5,146,489.08	5,146,489.08	-	-
CW2.SSOGEN.16	2015 CMOM Plan Updates	85,515.92	85,515.92	-	-
CW2.WTFHAR.25	2016 Ash Lagoon Cl.	123,883.27	123,883.27	-	-
CW2.WTFRKH.05	2016 RHWPCF Outfall	3,869,454.64	3,869,454.64	-	-
CW2.CSOGRA.05	2017 North Branch PR	709,818.89	709,818.89	-	-
CW2.SSSPAR.13	2016 BARTHOLOMEW AVENUE	83,699.01	83,699.01	-	-
CW2.WTFHAR.21	2014 WWEP #2012-21	181,897,496.02	181,897,496.02	-	-
CW2.TUNSTH.04	2015 SHCST	50,000.00	50,000.00	-	-
CW2.NSSGRA.04	2016 Bloomfield SSES	892,702.18	892,702.18	-	-
		\$ 362,569,761.82	\$ 362,569,761.82	\$ -	\$ -

Capital Budget

Integrated Plan – Appropriations

The following is a list of the recommended Integrated Plan programs and projects to be funded through the MDC's 2024 Integrated Plan budget. Each is considered to be a separate undertaking in accordance with Section 3-11 of the Charter of the Metropolitan District.

<u>Integrated Plan</u>	
Program Management Consultant/General Purpose IP	\$6,800,000
Sewer Backup Prevention Program – District-wide	\$1,500,000
Sewer House Connection/Separation Program – District-wide	\$2,000,000
Sewer House Connection/Separation Program - North Hartford	\$5,000,000
Granby 8 & 9 Sewer Separation (design)	\$3,600,000
Various Sewer Pipe Replacement/Rehabilitations - District-wide (lining)	\$15,750,000
Large Diameter Sewer Rehabilitation Program	\$14,000,000
Easement Sewer Lining Program – Phase 2	\$500,000
Increase to North Hartford Expedited Separation	\$5,000,000
<i>Integrated Plan Total</i>	\$54,150,000

Capital Budget

Integrated Plan – Appropriations

Program – Program Management Consultant/General Purpose IP

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$6,800,000	C-24X01	2600

Description

To satisfy the Program Management Consultant requirement for Consent Order Compliance. District and outside resources may be utilized for this program. The District costs may include salary, benefits and overhead. This program will also include other various costs associated with the Implementation of the Integrated Plan (IP), as required to comply with the Consent Order or Consent Decree.

Purpose

To conform with Consent Order Compliance.

Future Appropriations

Future appropriation requests for additional projects are anticipated over the next four years.

Bond Language

The sum of \$6,800,000 is hereby appropriated for project management consultants and costs associated with the implementation of the Integrated Plan as required to comply with the Consent Order or Consent Decree, including legal fees, financing costs, professional fees, interest expense on temporary borrowings, and other costs related to the project. District resources and outside resources may be utilized for the project. The District costs may include salary, benefits and overhead.

Capital Budget

Integrated Plan – Appropriations

Program – Sewer Backup Prevention Program - District-wide

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$1,500,000	C-24X02	2600

Description

This program will include the inspection of private property sewer laterals in order to identify defects and/or infiltration sources District-wide. The program will also include the installation and/or replacement of laterals, backwater valves, and/or additional work required to remove private inflow sources as needed to protect customers from sewer surcharging. District resources may be utilized for this program. The District costs may include salary, benefits and overhead.

Purpose

To inspect private property sewer laterals in order to identify defects and/or infiltration sources District-wide

Future Appropriations

Future appropriation requests for additional projects are anticipated over the next four years.

Bond Language

The sum of \$1,500,000 is hereby appropriated for the Sewer Backup Prevention Program, including costs associated with the inspection of private property sewer laterals. The appropriation may also be expended for the installation and/or replacement of laterals, backwater valves, construction costs, engineering and professional fees, materials, equipment, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the projects. District resources may be utilized for the projects. The District costs may include salary, benefits and overhead.

Capital Budget

Integrated Plan – Appropriations

Program – Sewer House Connection/Separation Program - District-wide

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$2,000,000	C-24X03	2600

Description

This program will include the replacement and/or repair of private property sewer laterals as identified by the private property inspection; as required to protect customers from sewer back-ups. This program may also include installation of new laterals or other plumbing improvements as necessary to complete sewer separation work District-wide. District resources may be utilized for this program. The District costs may include salary, benefits and overhead.

Purpose

To inspect private property sewer laterals in order to identify defects and/or infiltration sources District-wide.

Future Appropriations

Future appropriation requests for additional projects are anticipated for the four next years.

Bond Language

The sum of \$2,000,000 is hereby appropriated for the District-wide Sewer House Connection/Separation Program, including the replacement and/or repair of private property sewer laterals. The appropriation may also be expended for design, construction and inspection costs, engineering and professional fees, the installation of new laterals, plumbing improvements, materials, equipment, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the projects. District resources may be utilized for the projects. The District costs may include salary, benefits and overhead.

Capital Budget

Integrated Plan – Appropriations

Program – Sewer House Connection/Separation Program - North Hartford

Amount	Project #	Fund
\$5,000,000	C-24X04	2600

Description

This program will include the replacement and or repair of private property sewer laterals as identified by the private property inspection; as required to protect customers from sewer back-ups. This program may also include installation of new laterals or other plumbing improvements as necessary to complete sewer separation work in the North Hartford area. District resources may be utilized for this program. The District costs may include salary, benefits and overhead.

Purpose

To inspect private property sewer laterals in order to identify defects and/or infiltration sources in the North Hartford Area.

Future Appropriations

No additional appropriation requests are anticipated over the next four years

Bond Language

The sum of \$5,000,000 is hereby appropriated for the Sewer House Connection/Separation Program in North Hartford, including the replacement and/or repair of private property sewer laterals. The appropriation may also be expended for design, construction and inspection costs, engineering and professional fees, the installation of new laterals, plumbing improvements, materials, equipment, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the projects. District resources may be utilized for the projects. The District costs may include salary, benefits and overhead.

Funding Sources

Project is eligible for a loan under the State of Connecticut Clean Water Fund. However, funding is a condition of priority ranking and fund availability.

Capital Budget

Integrated Plan – Appropriations

Program – Granby 8 & 9 Sewer Separation (design)

Amount
\$3,600,000

Project #
C-24X05

Fund
2600

Description

This project will complete the final design phase for the Granby 8 and 9 Sewer Separation Projects in the North Branch Park River Drainage District, as required for Consent Order Compliance. Either Consultant, Contractor, or District resources may be utilized. The District costs may include salary, benefits and overhead.

Purpose

To complete final design for the Granby 8 and 9 Sewer Separation in the North Branch Park River Drainage District.

Future Appropriations

No additional appropriation requests are anticipated over the next four years.

Bond Language

The sum of \$3,600,000 is hereby appropriated for the design phase for the Granby 8 and 9 Sewer Separation projects in the North Branch Park River Drainage District, including engineering and professional fees, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the projects. Consultant, contractor or District resources may be utilized for the projects. The District costs may include salary, benefits and overhead.

Funding Sources

Project is eligible for a loan under the State of Connecticut Clean Water Fund. However, funding is a condition of priority ranking and fund availability.

Capital Budget

Integrated Plan – Appropriations

Program – Various Sewer Pipe Replacement/Rehabilitations - District-wide (lining)

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$15,750,000	C-24X06	2600

Description

Design and construction of sewer system repairs, replacements and rehabilitation measures as a result of aging and deteriorating infrastructure located District-wide. The replacement, rehabilitation and or upgrade of District equipment. District resources may be utilized for this program. The District costs may include salary, benefits and overhead.

Purpose

To rehabilitate, upgrade or replace aging sewer pipelines and structures.

Future Appropriations

Future appropriation requests for additional projects are anticipated for the four next year.

Bond Language

The sum of \$15,750,000 is hereby appropriated for the design and construction of sewer system repairs, replacements and rehabilitation measures District-wide. The appropriation may also be expended for inspection costs, engineering and professional fees, materials, upgrades to District equipment, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the projects. District resources may be utilized for the projects. The District costs may include salary, benefits and overhead.

Capital Budget

Integrated Plan – Appropriations

Program – Large Diameter Sewer Rehabilitation Program

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$14,000,000	C-24X07	2600

Description

This project will include the rehabilitation of large diameter sewers (combined and separated) located within the HWPCF sewershed. Sewer rehabilitation based on recommendations from recently completed large diameter sewer inspection programs. This project will reduce combined sewer overflows (CSO) in the HWPCF collection system, via inflow & infiltration (I/I) reduction in the large diameter Hartford sewers. District and outside resources may be utilized for this program. The District costs may include salary, benefits and overhead.

Purpose

To rehabilitate aging infrastructure in the Hartford Water Pollution Control Facility sewershed.

Future Appropriations

Future appropriation requests for additional projects are anticipated for the four next years.

Bond Language

The sum of \$14,000,000 is hereby appropriated for the rehabilitation of large diameter sewers (combined and separated) located within the Hartford Water Pollution Control Facility sewershed, including design, construction and inspection costs, engineering and professional fees, materials, equipment, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the projects. District resources and outside resources may be utilized for the projects. The District costs may include salary, benefits and overhead.

Funding Sources

Project is eligible for a loan under the State of Connecticut Clean Water Fund. However, funding is a condition of priority ranking and fund availability.

Capital Budget

Integrated Plan – Appropriations

Program – Easement Sewer Lining Program - Phase 2

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$500,000	C-24X08	2600

Description

Rehabilitation of cross country (easement) sewers (combined and separated) located throughout the District. This project will reduce CSO & SSOs in the collection system, via I/I reduction and removal of debris. District and outside resources may be utilized for this program. The District costs may include salary, benefits and overhead.

Purpose

To rehabilitate aging pipelines and structures within recently cleared District sewer easement areas.

Future Appropriations

Future appropriation requests for additional projects are anticipated over the next three years.

Bond Language

The sum of \$500,000 is hereby appropriated for the Easement Sewer Lining Program – Phase 2, including the rehabilitation of cross country (easement) sewers (combined and separated) located throughout the District. The appropriation may also be expended for planning, design, and construction costs, inspection costs, engineering and professional fees, materials, equipment, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the projects. District resources and outside resources may be utilized for the projects. The District costs may include salary, benefits and overhead.

Capital Budget

Integrated Plan – Appropriations

Program – Increase to North Hartford Expedited Separation

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$5,000,000	C-24X09	2600

Description

Design and construction of private property improvements as required to complete sewer separation work in expedited sewer separation projects in North Hartford. District resources may be utilized for this program. The District costs may include salary, benefits and overhead.

Purpose

Design and construction of private property improvements as required to complete sewer separation work in expedited sewer separation projects in North Hartford.

Future Appropriations

No additional appropriation requests are anticipated over the next four years.

Bond Language

The sum of \$5,000,000 is hereby appropriated for the design and construction of new sanitary and/or storm sewers and laterals located within the North Branch Park River Drainage area, Gully Brook Drainage area, and North Meadows Drainage area as necessary to complete sewer separation work, including inspection costs, engineering and professional fees, materials, equipment, legal fees, financing costs, interest expense on temporary borrowings, and other costs related to the projects. District resources may be utilized for the projects. The District costs may include salary, benefits and overhead.

Funding Sources

Project is eligible for a loan under the State of Connecticut Clean Water Fund. However, funding is a condition of priority ranking and fund availability.