

# 2014 Adopted Capital Improvement Budget



**The Metropolitan District**  
Hartford, CT

# 2014 Capital Improvement Program

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## Summary

### Overview

The Capital Improvement Program (CIP) budget is based upon the MDC's comprehensive asset management program for wastewater, water and combined programs. The objective of the program is to ensure the continued safety and efficiency of the District's water mains, sewers, pumping stations, treatment facilities buildings, and equipment. Asset management programs have been developed to maximize the effectiveness and useful life of our facilities.

The MDC will pursue funding for eligible projects under the State of Connecticut Department of Public Health's Drinking Water State Revolving Fund (water projects), State of Connecticut Department of Energy and Environmental Protection's Clean Water Fund (wastewater projects), and other State and/or Federal funding programs. Actual funding of projects is a condition of priority ranking and fund availability. Participation in such funding agreements is subject to the approval of the Metropolitan District.

### Major Capital Improvement Components

#### Wastewater

The primary projects included in this budget are the replacement of sewer mains and improvements and modernization to MDC's Water Pollution Control facilities. The following are some of next year's major expenditures.

Water Pollution Control Facilities	22,550,000*
Wastewater Pump Station Improvements	12,345,000*

#### Water

This budget anticipates a significant increase in water main replacements. A portion of these replacements are derived from the asset management program and the other portion is related to the Clean Water Project. In addition, there are plans to make improvements to the water infrastructure including the pipeline, storage facilities and pump stations. The following are some of the major expenditures for next year.

Basin Related Projects	4,950,000*
Radio Frequency Automated Meter Reading Program	5,000,000*
Dam Related Projects	15,800,000*

#### Combined

The primary projects are to improve various District Facilities.

*\*Expenditures are associated with more than one project.*

# 2014 Capital Improvement Program

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## Summary

### Five-Year Capital Improvement Program

It is anticipated that the District will continue to complete projects associated with the 2006 and 2013 Clean Water Project referendums, during 2014. The District will continue to maintain and improve its assets to ensure the safe and efficient operation of service. In addition, the District has undertaken a comprehensive asset management program which involves a systematic replacement of water and sewer infrastructure in a proactive manner. The results of this program are reflected in the tables below.

# 2014 Capital Improvement Program

## Summary

Wastewater	2014	2015	2016	2017	2018
Assessable Sewer Program	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000
Backwater Valve Program	750,000	750,000	750,000	750,000	750,000
Pump Station Upgrades – Brookside Street, Newington	900,000	-	-	-	-
Pump Station Upgrades – Burnside Avenue, East Hartford	3,300,000	-	-	-	-
Dividend Brook Drainage Area	-	5,000,000	5,000,000	5,000,000	5,000,000
EH WPC Plant Infrastructure Renewal and Replacements	-	-	3,705,000	-	-
Pump Station Upgrades – Fishfry Street, Hartford	1,350,000	-	-	-	-
General Purpose Sewer	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000
Governor's Highway Pump Station, East Hartford	-	500,000	2,100,000	-	-
Greenhurst, West Hartford	-	4,000,000	-	-	-
Private Property Greenhurst, West Hartford	-	4,000,000	-	-	-
Pump Station Upgrades – Howard Avenue, Wethersfield	370,000	1,350,000	-	-	-
HWPCF Cake Storage	-	-	4,500,000	-	-
HWPCF Centrifuge Replacement, GT Replacement & Sludge Mix Tanks Design	-	850,000	4,500,000	-	-
HWPCF DAFT 1 & 2	-	3,500,000	-	-	-
Hartford WPCF DAFT Sludge Equalization Design	800,000	5,000,000	-	-	-
Hartford WPCF Final Settling Tank #1	3,000,000	-	-	-	-
HWPCF Final Settling Tank #2	-	3,000,000	-	-	-
HWPCF Final Settling Tank #3	-	-	3,250,000	-	-
HWPCF Final Settling Tank #4	-	-	3,250,000	-	-
HWPCF Final Settling Tank #5	-	-	-	3,500,000	-
HWPCF Final Settling Tank #6	-	-	-	3,500,000	-
HWPCF FOG Receiving Facility	-	-	-	3,600,000	-
Hartford WPCF Sludge Mixing Tank, Sludge Screening, GT & RSRF Upgrades	5,000,000	-	-	-	-
HWPCF Secondary Facility Architectural Improvements	-	-	-	-	4,500,000
HWPCF Secondary Facility General Improvements	-	-	-	-	4,500,000
Hartford WPCF West Primary Settling Tanks	3,100,000	-	-	-	-
Pump Station Upgrades – Island Road, Windsor	500,000	3,000,000	-	-	-
Mohawk Dr Pump Station, East Hartford	-	3,500,000	-	-	-
Rehabilitation/Replacement NM-14 Overflow, Hartford	1,050,000	-	-	-	-
No Meadows CSO (NM-2->NM-4)	-	-	1,000,000	-	-
Park Avenue Sewer Improvements	-	4,290,000	-	-	-
Sewer Replacement – Packard Street & Daniel Boulevard, Bloomfield	3,000,000	-	-	-	-
Prasser Pump Station, East Hartford	-	2,100,000	-	-	-
Private Property Inflow Disconnect Program	100,000	100,000	100,000	100,000	100,000
Pump Station Replacement – Rainbow Trunk, Windsor	5,000,000	-	-	-	-
Rocky Hill WPCF Upgrade – Aeration & Disinfection	3,000,000	-	-	-	-
Rocky Hill WPCF Upgrade – Electrical	4,000,000	-	-	-	-
Rocky Hill Upgrade BODR - CIP 1	-	-	5,000,000	-	-
Rocky Hill Upgrade BODR - CIP 2	-	-	-	5,000,000	-
Rocky Hill Upgrade BODR - CIP 3	-	-	-	-	5,000,000
Rocky Hill Upgrade BODR - CIP 4	-	-	-	-	5,000,000
Sewer Rehabilitation Program	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000
Sewer Replacement - Madison Avenue, Hartford	1,000,000	-	-	-	-
Sewer Extension – Marsh Street, Wethersfield	400,000	3,000,000	-	-	-
Sewer Replacement - Oakwood Avenue, West Hartford	4,100,000	-	-	-	-
Pump Station Replacement – Stonehedge - Ochialini, Newington	575,000	2,000,000	-	-	-
Various Sewer Pipe Replacement/Rehab – District Wide	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000
Wastewater Pump Station Improvements	350,000	-	-	-	-
WPC Electrical Systems Upgrades	-	-	2,000,000	-	2,000,000
WPC Equipment & Facilities Refurbishment	1,400,000	1,500,000	1,600,000	1,700,000	1,700,000
WPC Renewal and Replacements	2,250,000	3,500,000	3,350,000	4,000,000	4,000,000
District-Wide Sewer Asset Management Program	1,000,000	-	-	-	-
Levee Protection System Improvements, East Hartford and Hartford	3,100,000	-	-	-	-
Renewable Energy Projects – Sewer Facilities	300,000	5,000,000	5,000,000	5,000,000	5,000,000
WPC SCADA Upgrades	-	-	-	2,000,000	-
<b>Total Wastewater</b>	<b>\$ 65,195,000</b>	<b>\$ 71,440,000</b>	<b>\$ 60,605,000</b>	<b>\$ 49,650,000</b>	<b>\$ 53,050,000</b>

# 2014 Capital Improvement Program

## Summary

<b>Water</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
Radio Frequency	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000	\$ 5,000,000
Water Main Replacements - West Hartford	1,500,000	-	-	-	-
Blue Hills Ave Area WMR	-	4,000,000	-	-	-
Transmission Main Replacement - Hamilton St. and Park St., Hartford-Phase II	1,500,000	-	-	-	-
Cedar Mountain Tank Improvements	-	500,000	4,500,000	-	-
Church St WMR Phase II	-	2,320,000	-	-	-
Collinsville Tanks	-	-	500,000	500,000	-
Collinsville WTP Emergency Generator Replacement	500,000	-	-	-	-
Dam Safety Improvements	-	1,500,000	3,000,000	5,000,000	5,000,000
Eastbury Storage Tank Improvements	3,750,000	-	-	-	-
General Purpose Water Program	3,500,000	5,000,000	5,000,000	5,000,000	5,000,000
Goodwin Dam Bridge Rehabilitation & Spillway Channel Improvements	2,800,000	-	-	-	-
Long Hill Road Connector WM	-	2,500,000	-	-	-
Newington Standpipe	-	-	1,000,000	-	-
Transmission Main Extension - Newington	3,500,000	-	-	-	-
Oak Street Extension	-	3,500,000	-	-	-
Oakwood Ave WMR, West Hartford	1,550,000	-	-	-	-
Orchard Street Pump Station, Glastonbury	3,000,000	-	-	-	-
Paving Program	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000
Paxton Way Tank Improvements, Glastonbury	-	500,000	1,000,000	-	-
Phelps Brook Dam and East Dike Rehabilitation Project	3,000,000	-	-	-	-
Dam Safety Improvements - Res #1	3,000,000	-	-	-	-
Reservoir #1 Dam - Spillway Channel Modification	5,000,000	-	-	-	-
Reservoir #3 Dam Improvements	-	4,000,000	-	-	-
Reservoir #3 Dam Rehabilitation	-	2,400,000	-	-	-
Reservoir #6 Filter Basin Improvements	1,950,000	-	-	-	-
Reservoir #6 to Reservoir 5 Phase 2	-	5,000,000	-	-	-
Reservoir #6 Washwater Tanks	-	1,000,000	1,000,000	-	-
Rocky Hill Standpipe Improvements	-	-	1,000,000	-	-
Saville Dam Embankment Improvements	2,000,000	-	-	-	-
Simsbury Road WPS, Bloomfield	300,000	3,000,000	-	-	-
Tanks and Distribution	-	5,000,000	5,000,000	5,000,000	5,000,000
Pump Stations Improvements	-	5,000,000	5,000,000	5,000,000	5,000,000
Transmission Main - Kilkenny	-	5,000,000	-	-	-
Uplands Way WPS, Glastonbury	300,000	3,000,000	-	-	-
Various Transmission Main Design & Construction	2,100,000	2,100,000	2,100,000	2,100,000	2,100,000
Vexation Tanks 1-4, Rocky Hill	3,300,000	3,000,000	3,000,000	3,000,000	3,000,000
Water Rehabilitation Program	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Water Supply Generators	2,800,000	-	-	-	-
Water Supply Improvements	-	3,845,000	2,350,000	-	-
Water Treatment Facility Upgrades	2,300,000	2,500,000	2,500,000	2,500,000	2,500,000
Wethersfield Pump Station Improvements	2,900,000	-	-	-	-
Wethersfield Water Mains	3,000,000	-	-	-	-
WHF 6MG Filter Basin Improvements	3,000,000	-	-	-	-
WHWTP Site Piping & Valve Improvements	-	-	3,800,000	-	-
WHWTP South Storage Tank Installation	-	-	-	3,500,000	-
District-Wide Water Asset Management Program	250,000	-	-	-	-
Water Pump Station Improvements	175,000	-	-	-	-
Renewable Energy Projects - Water	300,000	5,000,000	5,000,000	5,000,000	5,000,000
Wickham Hill Basins Phase 2	-	500,000	5,000,000	-	-
<b>Total Water</b>	<b>\$ 66,275,000</b>	<b>\$ 79,165,000</b>	<b>\$ 59,750,000</b>	<b>\$ 45,600,000</b>	<b>\$ 41,600,000</b>

# 2014 Capital Improvement Program

## Summary

<b>Combined</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
Facility Roof Replacements	\$ 600,000	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000
Land Improvements	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Fleet Replacement	-	1,100,000	-	1,100,000	-
Facilities Improvement Program	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000
Information Systems	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000
Survey & Construction	5,000,000	5,000,000	5,000,000	5,000,000	5,000,000
Engineering Services	3,300,000	3,300,000	3,300,000	3,300,000	3,300,000
Construction Services	3,500,000	3,500,000	3,500,000	3,500,000	3,500,000
Technical Services	2,600,000	2,600,000	2,600,000	2,600,000	2,600,000
<b>Total Combined</b>	<b>\$ 24,000,000</b>	<b>\$ 25,000,000</b>	<b>\$ 23,900,000</b>	<b>\$ 25,000,000</b>	<b>\$ 23,900,000</b>
<b>Wastewater, Water, Combined Total</b>	<b>\$ 155,470,000</b>	<b>\$ 175,605,000</b>	<b>\$ 144,255,000</b>	<b>\$ 120,250,000</b>	<b>\$ 118,550,000</b>

Total Authorized Positions 113

Charts are shown in thousands.

(1) WPC means Water Pollution Control

# 2014 Capital Improvement Program

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## Appropriation

The Metropolitan District's Capital Improvement Program budget for 2014 totals \$155,470,000 as reflected in the following summary, wastewater programs total \$65,195,000; water programs total \$66,275,000; and combined programs total \$24,000,000.

### Wastewater

Assessable Sewer Program	\$	500,000
Backwater Valve Program		750,000
Pump Station Upgrades – Brookside Street, Newington		900,000
Pump Station Upgrades – Burnside Avenue, East Hartford		3,300,000
Pump Station Upgrades – Fishfry Street, Hartford		1,350,000
General Purpose Sewer		5,000,000
Pump Station Upgrades – Howard Avenue, Wethersfield		370,000
Hartford WPCF DAFT Sludge Equalization Design		800,000
Hartford WPCF Final Settling Tank #1		3,000,000
Hartford WPCF Sludge Mixing Tank, Sludge Screening, GT & RSRF Upgrades		5,000,000
Hartford WPCF West Primary Settling Tanks		3,100,000
Pump Station Upgrades – Island Road, Windsor		500,000
Rehabilitation/Replacement NM-14 Overflow, Hartford		1,050,000
Sewer Replacement – Packard Street & Daniel Boulevard, Bloomfield		3,000,000
Private Property Inflow Disconnect Program		100,000
Pump Station Replacement – Rainbow Trunk, Windsor		5,000,000
Rocky Hill WPCF Upgrade – Aeration & Disinfection		3,000,000
Rocky Hill WPCF Upgrade – Electrical		4,000,000
Sewer Rehabilitation Program		5,000,000
Sewer Replacement - Madison Avenue, Hartford		1,000,000
Sewer Extension – Marsh Street, Wethersfield		400,000
Sewer Replacement - Oakwood Avenue, West Hartford		4,100,000
Pump Station Replacement – Stonehedge - Ochialini, Newington		575,000
Various Sewer Pipe Replacement/Rehab – District Wide		5,000,000
Wastewater Pump Station Improvements		350,000
WPC Equipment & Facilities Refurbishment		1,400,000
WPC Renewal and Replacements		2,250,000
District-Wide Sewer Asset Management Program		1,000,000
Levee Protection System Improvements, East Hartford and Hartford		3,100,000
Renewable Energy Projects – Sewer Facilities		300,000
<b>Total Wastewater</b>		<b>\$ 65,195,000</b>



# 2014 Capital Improvement Program

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## Appropriation

### Water

Radio Frequency Automated Meter Reading	\$ 5,000,000	
Water Main Replacements – West Hartford	1,500,000	
Transmission Main Replacement - Hamilton St. and Park Terrace, Hartford, Phase II	1,500,000	
Collinsville WTP Emergency Generator Replacement	500,000	
Eastbury Basin Rehabilitation	3,750,000	
General Purpose Water Program	3,500,000	
Goodwin Dam Bridge Rehabilitation & Spillway Channel Improvements	2,800,000	
Transmission Main Extension – Newington	3,500,000	
Water Main Replacement Oakwood Avenue, West Hartford	1,550,000	
Orchard Street Water Pump Station, Glastonbury	3,000,000	
Paving Program	3,000,000	
Phelps Brook Dam and East Dike Rehabilitation Project	3,000,000	
Dam Safety Improvements – Res #1	3,000,000	
Reservoir #1 Dam – Spillway Channel Modification	5,000,000	
Bloomfield Water Treatment Facility Filtered Water Basin Improvements	1,950,000	
Saville Dam Embankment Improvements	2,000,000	
Simsbury Road Water Pump Station, Bloomfield	300,000	
Uplands Way Water Pump Station, Glastonbury	300,000	
Various Transmission Main Design & Construction	2,100,000	
Vexation Tanks 1-4 Improvements, Rocky Hill	3,300,000	
Water Rehabilitation Program	1,000,000	
Water Supply Generators	2,800,000	
Water Treatment Facilities Upgrades	2,300,000	
Wethersfield Water Pump Station, Wethersfield	2,900,000	
Water Main Replacement – Wethersfield	3,000,000	
West Hartford Water Treatment Facility 6 MG Filtered Water Basin Improvements	3,000,000	
District-Wide Water Asset Management Program	250,000	
Water Pump Station Improvements	175,000	
Renewable Energy Projects – Water Facilities	300,000	
<b>Total Water</b>		<b>\$ 66,275,000</b>



# 2014 Capital Improvement Program

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## Appropriation

### Combined

Facility Roof Replacements	\$ 600,000	
Land Improvements	1,000,000	
Facilities Improvement Program	3,000,000	
Information Systems	5,000,000	
Survey & Construction	5,000,000	
Engineering Services	3,300,000	
Construction Services	3,500,000	
Technical Services	2,600,000	
<b>Total Combined</b>		<b>\$ 24,000,000</b>

**Wastewater, Water, Combined Total** **\$ 155,470,000**

**Total Authorized Positions** **113**

# 2014 Capital Improvement Program

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## Wastewater

The following is a list of the recommended wastewater system programs and projects to be funded through the MDC's 2014 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.

### Wastewater

Assessable Sewer Program	\$	500,000	
Backwater Valve Program		750,000	
Pump Station Upgrades – Brookside Street, Newington		900,000	
Pump Station Upgrades – Burnside Avenue, East Hartford		3,300,000	
Pump Station Upgrades – Fishfry Street, Hartford		1,350,000	
General Purpose Sewer		5,000,000	
Pump Station Upgrades – Howard Avenue, Wethersfield		370,000	
Hartford WPCF DAFT Sludge Equalization Design		800,000	
Hartford WPCF Final Settling Tank #1		3,000,000	
Hartford WPCF Sludge Mixing Tank, Sludge Screening, GT & RSRF Upgrades		5,000,000	
Hartford WPCF West Primary Settling Tanks		3,100,000	
Pump Station Upgrades – Island Road, Windsor		500,000	
Rehabilitation/Replacement NM-14 Overflow, Hartford		1,050,000	
Sewer Replacement – Packard Street & Daniel Boulevard, Bloomfield		3,000,000	
Private Property Inflow Disconnect Program		100,000	
Pump Station Replacement – Rainbow Trunk, Windsor		5,000,000	
Rocky Hill WPCF Upgrade – Aeration & Disinfection		3,000,000	
Rocky Hill WPCF Upgrade – Electrical		4,000,000	
Sewer Rehabilitation Program		5,000,000	
Sewer Replacement - Madison Avenue, Hartford		1,000,000	
Sewer Extension – Marsh Street, Wethersfield		400,000	
Sewer Replacement - Oakwood Avenue, West Hartford		4,100,000	
Pump Station Replacement – Stonehedge - Ochialini, Newington		575,000	
Various Sewer Pipe Replacement/Rehab – District Wide		5,000,000	
Wastewater Pump Station Improvements		350,000	
WPC Equipment & Facilities Refurbishment		1,400,000	
WPC Renewal and Replacements		2,250,000	
District-Wide Sewer Asset Management Program		1,000,000	
Levee Protection System Improvements, East Hartford and Hartford		3,100,000	
Renewable Energy Projects – Sewer Facilities		300,000	
<b>Total Wastewater</b>			<b>\$ 65,195,000</b>

# 2014 Capital Improvement Program

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## Wastewater

The projects that comprise the above 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. The following positions are included in wastewater program:

### Authorized Positions

<u>Title</u>	<u>Number</u>
Compressor Truck Operator	2
Equipment Operator 1	1
Pipe Joiner	1
Sewer Maintainer 1	3
Sewer Maintenance Crew Leader	2
System Repair Supervisor	1
Truck Driver 2	4
Utility Systems Monitoring Tech 1	<u>2</u>
<b>Total</b>	<b>16</b>

# 2014 Capital Improvement Program

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## Wastewater

Program - Assessable Sewer Program

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$500,000	SCS.SR0014.01	5630

### Description

Extension of existing sanitary sewers resulting from property owner petitions for public sewer service within the District's sewer service area. This project includes design, construction and project administration. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### Purpose

To provide sanitary sewer service to property owners within the District's service area by extending local sewer mains. Property owners to be served have either a specific health concern or a desire for public sanitary sewer service.

### Future Appropriations

Future appropriation requests for other projects are anticipated over the next four years and include forecasted funding requirements of \$2,000,000.

### Bond Language

The sum of \$500,000 is hereby appropriated for the extension of local sanitary sewer projects resulting from property owner petitions for sewer service within the District's service area, including design, construction, project administration, labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Wastewater

### Program - Backwater Valve Program

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$750,000	SCS.EQ0014.01	5113

### **Description**

Install and or replace backwater valves to protect customer from sewer surcharging. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### **Purpose**

To eliminate interior residential sewer surcharges and inflow to the sewer system.

### **Future Appropriations**

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

### **Bond Language**

The sum of \$750,000 is hereby appropriated for the installation and/or replacement of backwater valves to eliminate interior residential sewer surcharges and inflow to the sewer system, including labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Wastewater

Program – Pump Station Upgrades – Brookside Street, Newington

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$900,000	WWA.CS1208.02	5113

### Description

An increase in the original appropriation is requested in order to design and construct the Brookside Street, Newington pump station. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### Purpose

To rehabilitate Brookside Street pump station.

### Future Appropriations

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

### Prior Appropriation

This appropriation is an increase to the 2013 Pump Station Upgrades – Brookside Street, Newington authorization of \$2,340,000 (WWA.CS1208.01). The total appropriation will now be \$3,240,000. Funds will be transferred from WWA.CS1208.02 to WWA.CS1208.01.

### Bond Language

The sum of \$900,000 is hereby appropriated for the design and construction of the Brookside Pump Station in Newington, including labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Wastewater

**Program – Pump Station Upgrades – Burnside Avenue, East Hartford**

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$3,300,000	SCS.PS0714.01	5113

### **Description**

Design and construction of the Burnside Avenue, East Hartford pump station. Rehabilitation, restoration and upgrades of wastewater pump station to include updates to site structures, mechanical, electrical, HVAC, piping and plumbing, controls and instrumentation, site and security. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### **Purpose**

To replace and upgrade pump station equipment.

### **Future Appropriations**

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

### **Bond Language**

The sum of \$3,300,000 is hereby appropriated for the rehabilitation, restoration and upgrades of the pump station site at Burnside Avenue, East Hartford, including updates to site structures, mechanical, electrical, HVAC, piping and plumbing, controls and instrumentation, site and security improvements, labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.



# 2014 Capital Improvement Program

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## Wastewater

Program – Pump Station Upgrades – Fishfry Street, Hartford

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$1,350,000	WWA.CS1175.02	5113

### Description

An increase appropriation is requested for rehabilitation and restoration of pump station site including pavement improvements, design upgrades to pump station equipment and improvements to HVAC. Upgrades and improvements to inlet gravity sewers, force mains and electric utility work may be included. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### Purpose

To rehabilitate the existing pumping station equipment.

### Future Appropriations

No additional appropriation requests are anticipated over the next 4 years.

### Prior Appropriation

This appropriation is an increase to the 2012 Pump Station Upgrades-Fishfry Street, Hartford, authorization for \$122,000 (WWA.CS1175.01). Total appropriation for this project will now be \$1,472,000. Funds will be recorded in WWA.CS1175.02 and then transferred to WWA.CS1175.01.

### Bond Language

The sum of \$1,350,000 is hereby appropriated for the rehabilitation and restoration of the pump station site at Fishfry Street, Hartford, including pavement improvements, design upgrades to pump station equipment, improvements to HVAC, upgrades and improvements to inlet gravity sewers, force mains, electrical utility work, labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Wastewater

Program – General Purpose Sewer

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$5,000,000	SCS.SR0014.02	5113

### Description

Design and construction of the replacement, rehabilitation and or upgrade of existing sewer mains and or equipment, excluding vehicles, at various locations District wide as a result of exceeding the infrastructure life expectancy. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### Purpose

To replace, rehabilitate and or upgrade sewer mains and/or equipment within various District member towns.

### Future Appropriations

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

### Bond Language

The sum of \$5,000,000 is hereby appropriated for the design, construction, replacement, rehabilitation and upgrade of sewer mains and/or equipment, excluding vehicles, District wide as a result of exceeding the infrastructure life expectancy, including design, construction, equipment (other than vehicles), labor costs and associated overhead expenses related thereto, and legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Wastewater

Program – Pump Station Upgrades – Howard Avenue, Wethersfield

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$370,000	SCS.PS0214.01	5113

### Description

Design of the pump station located at Howard Avenue, Wethersfield. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### Purpose

To design the pump station.

### Future Appropriations

Future appropriation requests for other projects are anticipated next year.

### Bond Language

The sum of \$370,000 is hereby appropriated for design of the Howard Avenue, Wethersfield pump station, including labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Wastewater

**Program** – Hartford WPCF DAFT Sludge Equalization Design

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$800,000	WPC.FA0114.01	5113

### Description

Design of the Hartford WPCF Dissolved Air Flotation Thickening Sludge Equalization facility. Sludge equalization will allow for the HWPCF to continuously remove the sludge from the BNR system. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### Purpose

To design the HWPCF DAFT Sludge Equalization facility.

### Future Appropriations

Future appropriation requests for other projects are anticipated next year.

### Bond Language

The sum of \$800,000 is hereby appropriated for the design of the Hartford Water Pollution Control Facility Dissolved Air Flotation Thickening Sludge Equalization facility to allow the Hartford WPCF to remove sludge from the BNR system, including labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Wastewater

Program – Hartford WPCF Final Settling Tank #1

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$3,000,000	WPC.FA0114.02	5113

### Description

Rehabilitate existing concrete; install an improved sludge collection/scum collection mechanism, weirs and weir covers at final settling tank (FST). District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### Purpose

To replace and upgrade final settling tank (FST).

### Future Appropriations

No additional appropriation requests are anticipated next year.

### Bond Language

The sum of \$3,000,000 is hereby appropriated for improvements to the Hartford Water Treatment Facility Final Settling Tank #1\*, including rehabilitating existing concrete, installing an improved collection/scum collection mechanism, weirs and weir covers at the final settling tank, including labor costs and associated overhead expenses and for legal, administrative and other financing costs related thereto.

*\*Project name in Bond Resolution to be corrected from Hartford Water Treatment Facility Final Settling Tank #1 to Hartford Water Pollution Control Facility Final Settling Tank #1. At a future Board meeting.*

# 2014 Capital Improvement Program

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## Wastewater

**Program** – Hartford WPCF Sludge Mixing Tank, Sludge Screening, GT & RSRF Upgrades

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$5,000,000	WPC.FA0114.03	5113

### Description

Design and construction of Sludge Mixing Tank, Sludge Screening, Gravity Thickener and Regional Solids Receiving Facility Upgrades at the Hartford WPCF. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### Purpose

To screen sludge of foreign material, such as rags and grit, that frequently cause solid processing issues.

### Future Appropriations

No additional appropriation requests are anticipated next year.

### Bond Language

The sum of \$5,000,000 is hereby appropriated for the design and construction of a sludge mixing tank, sludge screening, gravity thickener and regional solids receiving facility upgrades at the Hartford Water Pollution Control Facility, including labor costs and associated overhead expenses related thereto and legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Wastewater

**Program** – Hartford WPCF West Primary Settling Tanks

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$3,100,000	WPC.FA0114.04	5113

### Description

Rehabilitate the mechanical components of the existing west primary clarifiers to include new flights, wear shoes, wear strips, rails, chain, sprockets and drives. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### Purpose

To rehabilitate WPCF West Primary Settling Tanks to meet plant needs during construction of the chemically enhanced primary treatment facility and the demolition of the four east clarifiers.

### Future Appropriations

No additional appropriation requests are anticipated next year.

### Bond Language

The sum of \$3,100,000 is hereby appropriated for the rehabilitation of the existing west primary clarifiers at the Hartford Water Pollution Control Facility including new flights, wear shoes, wear strips, rails, chains, sprockets, drives, labor costs and associated overhead expenses related thereto, and for design, engineering, construction, legal, administrative and other financing costs related thereto.



# 2014 Capital Improvement Program

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## Wastewater

Program – Pump Station Upgrades – Island Road, Windsor

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$500,000	SCS.PS0614.01	5113

### Description

Design of the Island Road Wastewater Pump Station, Windsor. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### Purpose

To design upgrades to the pump station equipment.

### Future Appropriations

Future appropriation requests for other projects are anticipated next year.

### Bond Language

The sum of \$500,000 is hereby appropriated for design of the Island Road, Windsor pump station, including labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Wastewater

Program – Rehabilitation/Replacement NM-14 Overflow, Hartford

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$1,050,000	SCS.SR0114.01	5113

### Description

Rehabilitation and replacement of the existing combined sewer/drainage infrastructure downstream of the NM-14 Overflow in Hartford. To include design and construction costs. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### Purpose

To rehabilitate and replace deteriorating pipes to prevent failure.

### Future Appropriations

No additional appropriation requests are anticipated next year.

### Bond Language

The sum of \$1,050,000 is hereby appropriated for rehabilitation and replacement of the existing combined sewer/drainage infrastructure downstream of the NM-14 overflow in Hartford, including design, construction, labor costs and associated overhead expenses related thereto, and legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Wastewater

Program – Sewer Replacement – Packard Street & Daniel Boulevard, Bloomfield

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$3,000,000	SCS.SR0514.01	5113

### Description

Replacement of various portions of sanitary sewer on Packard Street & Daniel Boulevard, Bloomfield. District forces 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.

### Bond Language

The sum of \$3,000,000 is hereby appropriated for the replacement of various portions of sanitary sewer on Packard Street and Daniel Boulevard, Bloomfield, including labor costs and associated overhead expenses related thereto, and for engineering, equipment, legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Wastewater

Program - Private Property Inflow Disconnect Program

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$100,000	SCS.EQ0014.02	5113

### Description

Install sump pumps to allow for the discharge of inflow water to the outside lawn area and to disconnect footing drains, floor drains and roof leader drains from the sanitary system. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### Purpose

To eliminate storm water from the sanitary sewer system.

### Future Appropriations

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

### Bond Language

The sum of \$100,000 is hereby appropriated for the Private Property Inflow Disconnect Program, including the installation of sump pumps to allow discharge of inflow water to outside lawn areas and to disconnect footing drains, floor drains and roofleader drains from the sanitary system, including labor costs and associated overhead expenses related thereto, and for engineering, equipment, legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Wastewater

**Program – Pump Station Replacement – Rainbow Trunk, Windsor**

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$5,000,000	SCS.PS0614.02	5113

### **Description**

Replacement of the Rainbow Trunk, Windsor pump station. This will include updates to site structures, mechanical, electrical, HVAC, piping and plumbing, controls and instrumentation, site and security. Upgrades and improvements to inlet gravity sewers, force mains and electric utility work may be included. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### **Purpose**

To replace the pump station.

### **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 replacement of the Rainbow Trunk, Windsor Pump Station, including updates to site structure, mechanical, electrical, HVAC, piping and plumbing, controls and instrumentation, site and security, upgrades and improvements to inlet gravity sewers, force mains, electrical utility work, labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Wastewater

Program – Rocky Hill WPCF Upgrade – Aeration & Disinfection

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$3,000,000	WPC.EQ0314.01	5113

### Description

This project will construct improvements to the existing aeration and disinfection systems as part of the overall plant upgrade to 27 MGD. The project will include, but is not limited to the following: aeration system improvements include installation of high efficiency blowers, new process air piping, a building addition for new electrical switchgear, a new electrical room for all new motor control centers, new electrical gear, HVAC, controls and new polymer system. Disinfection improvements will provide needed capacity to meet future flows by installing new chemical storage tanks, chemicals metering pumps, related electrical and controls. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### Purpose

To upgrade the Rocky Hill WPCF to 27 MGD.

### 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 the construction of improvements to the aeration and disinfection systems of the Rocky Hill Water Pollution Control Facility as part of the overall plant upgrade to 27 MGD, including aeration system improvements, the installation of high efficiency blowers, new process air piping, a building addition for new electrical switchgear, a new electrical room for all new motor control centers, new electrical gear, HVAC, controls, a new polymer system, disinfection improvements, new chemical storage tanks, chemicals metering pumps, related electrical controls, labor costs and associated overhead expenses related thereto, and legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Wastewater

Program – Rocky Hill WPCF Upgrade – Electrical

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$4,000,000	WPC.EQ0314.02	5113

### Description

This project will implement improvements to the main electrical distribution system at the RHWPCF. Improvements will include, but are not limited to the following: complete replacement of utility transformers and main electrical switch gear, installation of an entirely new electrical distribution network (ducts, wires, etc.), all new motor control centers and variable frequency drives (except aeration). Also included is the purchase and installation of an emergency power generator capable of supporting plant needs. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### Purpose

To upgrade to the Rocky Hill WPCF electrical system in order to support schedule adherence per Decree goals.

### Future Appropriations

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

### Bond Language

The sum of \$4,000,000 is hereby appropriated for improvements to the main electrical system at the Rocky Hill Water Pollution Control Facility, including complete replacement of utility transformers and main electrical switchgear, installation of a new electrical distribution network, new motor control centers and variable frequency drives (except aeration), an emergency power generator, labor costs and associated overhead expenses related thereto, and legal, administrative and other financing costs related thereto.



# 2014 Capital Improvement Program

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## Wastewater

### Program – Sewer Rehabilitation Program

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$5,000,000	SCS.SR0014.03	5803

### Description

Project includes the replacement of the District's deteriorating segments of the sewer infrastructure. The project also includes funding for outside services to conduct sewer system investigations using closed captioned television inspections and other methods to support the design and construction of the sewer infrastructure. Project includes staffing.

### Purpose

To replace aging equipment and structure.

### Future Appropriations

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

### Bond Language

The sum of \$5,000,000 is hereby appropriated for the replacement or rehabilitation of deteriorating segments of the District's sewer infrastructure, including sewer system investigations using closed captioned television inspections and other methods, labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

### Authorized Positions

<u>Title</u>	<u>Number</u>	<u>Cost Center</u>
Compressor Truck Operator	2	7930001
Equipment Operator 1	1	
Pipe Joiner	1	
Sewer Maintainer 1	3	
Sewer Maintenance Crew Leader	2	
System Repair Supervisor	1	
Truck Driver 2	4	
Utility Systems Monitoring Tech 1	<u>2</u>	
<b>Total</b>	<b>16</b>	

# 2014 Capital Improvement Program

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## Wastewater

Program – Sewer Replacement - Madison Avenue, Hartford

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$1,000,000	SCS.SR0114.02	5113

### Description

Design and construction for the replacement of various portions of sanitary sewer on Madison Avenue, Hartford. District forces 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.

### Bond Language

The sum of \$1,000,000 is hereby appropriated for the replacement of various portions of sanitary sewer in Madison Avenue, Hartford, including labor costs and associated overhead expenses related thereto, and for engineering, equipment, legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Wastewater

Program – Sewer Extension – Marsh Street, Wethersfield

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$400,000	SCS.SR0214.01	5113

### Description

Design and construction of a main sewer extension to eliminate the need for Marsh Street Pump Station. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### Purpose

To replace aging pipelines and structures.

### Future Appropriations

Future appropriation requests for other projects are anticipated.

### Bond Language

The sum of \$400,000 is hereby appropriated for the design and construction of a main sewer extension to eliminate the need for the Marsh Street Pump Station, including labor costs and associated overhead expenses related thereto, and for engineering, equipment, legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Wastewater

Program – Sewer Replacement - Oakwood Avenue, West Hartford

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$4,100,000	WWA.CS1211.02	5113

### Description

Replacement of various portions of sanitary sewer on Oakwood Avenue, West Hartford. District forces 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.

### Prior Appropriation

This appropriation is an increase to the 2013 Sewer Replacement –Oakwood Avenue, West Hartford, authorization for \$460,000 (WWA.CS1211.01). Total appropriation for this project will now be \$4,560,000.

### Bond Language

The sum of \$4,100,000 is hereby appropriated for the replacement of various portions of sanitary sewer in Oakwood Avenue, West Hartford, including labor costs and associated overhead expenses related thereto, and for engineering, equipment, legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Wastewater

Program – Pump Station Replacement – Stonehedge - Ochialini, Newington

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$575,000	SCS.PS0414.01	5113

### Description

Design of the Stonehedge - Ochialini, Newington pump station. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### Purpose

To design the Stonehedge-Ochialini, Newington of the pump station.

### Future Appropriations

Future appropriation requests for other projects relating to construction are anticipated next year.

### Bond Language

The sum of \$575,000 is hereby appropriated for the design of the Stonehedge - Ochialini, Newington pump station, including labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Wastewater

**Program – Various Sewer Pipe Replacement/Rehab – District Wide**

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$5,000,000	SCS.SR0014.04	5113

### **Description**

The replacement or rehabilitation of various sanitary sewers District wide that experienced advanced deterioration. The replacement includes pipelines that include various materials, but not limited to Black Styrene Pipe, tile pipe, concrete pipe etc. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### **Purpose**

To rehabilitate or replace the sanitary sewer pipelines. The replacement includes pipelines that include various materials, but not limited to Black Styrene Pipe, tile pipe, concrete pipe etc.

### **Future Appropriations**

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

### **Bond Language**

The sum of \$5,000,000 is hereby appropriated for the replacement or rehabilitation of various sanitary sewers District wide that experienced advanced deterioration, including black styrene pipe, tile pipe, concrete pipe, to include labor costs and associated overhead expenses related thereto, and for engineering, equipment, legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Wastewater

### Program – Wastewater Pump Station Improvements

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$350,000	SCS.PS0014.01	5113

#### **Description**

Improvements to various pump station equipment. Not limited to pumps, grinders, transfer switches. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

#### **Purpose**

The appropriation is needed for improvements to pump stations and equipment.

#### **Future Appropriations**

No additional appropriation requests are anticipated at this time.

#### **Bond Language**

The sum of \$350,000 is hereby appropriated for improvements to pump station equipment, including pumps, grinders, transfer switches, labor costs and associated overhead expenses related thereto, and for design, construction, or replacement of sanitary sewers, laterals and manholes, in order to remove inflow and/or infiltration and legal, administrative and other financing costs related thereto.



# 2014 Capital Improvement Program

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## Wastewater

Program - WPC Equipment & Facilities Refurbishment

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$1,400,000	WPC.EQ0014.01	5113

### Description

This project will refurbish and rebuild existing equipment and facilities at all four WPCFs. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### Purpose

To refurbishment and rebuild various equipment.

### Future Appropriations

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

### Bond Language

The sum of \$1,400,000 is hereby appropriated for the refurbishing and rebuilding of equipment at all four Water Pollution Control Facilities, including labor costs and associated overhead expenses related thereto, and for design, construction, or replacement of sanitary sewers, laterals and manholes, in order to remove inflow and/or infiltration and legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Wastewater

Program - WPC Renewal and Replacements

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$2,250,000	WPC.EQ0014.02	5113

### Description

This project will design and construct a variety of renewals and replacements at the four WPCFs in order to modernize existing systems. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### Purpose

To modernize existing systems for increased productivity and efficiency.

### Future Appropriations

Additional appropriation requests for other projects are anticipated over the next four years.

### Bond Language

The sum of \$2,250,000 is hereby appropriated for a variety of renewal and replacements at the four Water Pollution Control Facilities to modernize existing systems, including labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Wastewater

Program – District-Wide Sewer Asset Management Program

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$1,000,000	SCS.EQ0014.03	5113

### Description

Project provides for the development of a District-Wide Sewer Asset Management Program. The District costs may include salary, benefits and overhead.

### Purpose

To complete the development of a computerized asset management program to prioritize future District Capital expenditures.

### Future Appropriations

Future appropriations requests are anticipated next year.

### Bond Language

The sum of \$1,000,000 is hereby appropriated for the development of a computerized District-Wide Sewer Asset Management Program to prioritize future District capital expenditures, including labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Wastewater

**Program** – Levee Protection System Improvements, East Hartford and Hartford

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$3,100,000	SCS.OT0014.01	5113

### Description

To replace the pipe penetrations through the Levee Protection Systems in Hartford and East Hartford as required by the Army Corp of Engineers. The District costs may include salary, benefits and overhead.

### Purpose

To replace the pipe penetrations through the Levee Protection Systems in Hartford and East Hartford.

### Future Appropriations

No additional appropriations requests are anticipated next year.

### Bond Language

The sum of \$3,100,000 is hereby appropriated to replace the pipe penetrations through the Levee Protection Systems in East Hartford and Hartford as required by the Army Corps of Engineers, including labor costs and associated overhead expenses related thereto, and for design, equipment, construction, legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Wastewater

Program – Renewable Energy Projects – Sewer Facilities

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$300,000	SCS.BL0014.01	5113

### Description

Project includes the design of renewable energy projects to be installed at various Sewer Facilities to supply power year round. The District costs may include salary, benefits and overhead.

### Purpose

To design renewable energy sources to reduce operating costs for various sewer facilities.

### Future Appropriations

Total appropriations requests for other projects are anticipated over the next four years and include forecasted funding requirements of \$10,000,000.

### Bond Language

The sum of \$300,000 is hereby appropriated for the design of renewable energy projects to be installed at various sewer facilities to supply year round power at the facilities, including labor costs and associated overhead expenses related thereto, and for design, equipment, construction, legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Water

The following is a list of the recommended water system programs and projects to be funded through the MDC's 2014 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.

### Water

Radio Frequency Automated Meter Reading	\$ 5,000,000
Water Main Replacements – West Hartford	1,500,000
Transmission Main Replacement - Hamilton St. and Park Terrace, Hartford, Phase II	1,500,000
Collinsville WTP Emergency Generator Replacement	500,000
Eastbury Basin Rehabilitation	3,750,000
General Purpose Water Program	3,500,000
Goodwin Dam Bridge Rehabilitation & Spillway Channel Improvements	2,800,000
Transmission Main Extension – Newington	3,500,000
Water Main Replacement Oakwood Avenue, West Hartford	1,550,000
Orchard Street Water Pump Station, Glastonbury	3,000,000
Paving Program	3,000,000
Phelps Brook Dam and East Dike Rehabilitation Project	3,000,000
Dam Safety Improvements – Res #1	3,000,000
Reservoir #1 Dam – Spillway Channel Modification	5,000,000
Bloomfield Water Treatment Facility Filtered Water Basin Improvements	1,950,000
Saville Dam Embankment Improvements	2,000,000
Simsbury Road Water Pump Station, Bloomfield	300,000
Uplands Way Water Pump Station, Glastonbury	300,000
Various Transmission Main Design & Construction	2,100,000
Vexation Tanks 1-4 Improvements, Rocky Hill	3,300,000
Water Rehabilitation Program	1,000,000
Water Supply Generators	2,800,000
Water Treatment Facilities Upgrades	2,300,000
Wethersfield Water Pump Station, Wethersfield	2,900,000
Water Main Replacement – Wethersfield	3,000,000
West Hartford Water Treatment Facility 6 MG Filtered Water Basin Improvements	3,000,000
District-Wide Water Asset Management Program	250,000
Water Pump Station Improvements	175,000
Renewable Energy Projects – Water Facilities	300,000
<b>Total Water</b>	<b>\$ 66,275,000</b>

# 2014 Capital Improvement Program

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## Water

The projects that comprise the above 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. The following positions are included in the water program:

### Authorized Positions

<u>Title</u>	<u>Number</u>
Customer Service Maintainer 1	6
Gate Maintainer 1	2
Gate Maintainer 2	1
Hydrant Maintainer 1	1
Meter Maintenance Crew Leader	1
Meter Rebuilding Crew Leader	1
Senior Clerk	1
Water Supply Maintainer 2	<u>1</u>
<b>Total</b>	<b>14</b>

# 2014 Capital Improvement Program

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## Water

### Program – Radio Frequency Automated Meter Reading

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$5,000,000	WDS.MT0014.01	2318

### Description

The Radio Frequency Meter Program standardizes and replaces meters over the long term meter program. The District costs may include salary, benefits and overhead. Project includes staffing.

### Purpose

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

### Future Appropriations

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

### Bond Language

The sum of \$5,000,000 is hereby appropriated for the long term scheduled replacement and standardization program of meters and appurtenances, and for labor costs and associated overhead expenses directly related to the Radio Frequency Automated Meter Program, and for legal, administrative and other financing costs related thereto.

### Authorized Positions

<u>Title</u>	<u>Number</u>	<u>Cost Center</u>
Customer Service Maintainer 1	6	7930002
Meter Maintenance Crew Leader	1	
Meter Rebuilding Crew Leader	1	
Senior Clerk	1	
<b>Total</b>	<b>9</b>	



# 2014 Capital Improvement Program

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## Water

### Program – Water Main Replacements – West Hartford

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$1,500,000	WDS.DM1014.01	2113

#### **Description**

Design and construction towards the replacement of the existing water mains and appurtenances to include, but not limited to Ballard Drive, West Hartford as a result of the infrastructure exceeding the life expectancy. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

#### **Purpose**

To support the design and construction of various water main replacements/rehabilitations district wide.

#### **Future Appropriations**

No additional appropriation requests are anticipated next year.

#### **Bond Language**

The sum of \$1,500,000 is hereby appropriated for the design and construction of the replacement of the existing water mains in West Hartford, including water mains on Ballard Drive, including design, construction, project administration, labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Water

### Program – Transmission Main Replacement - Hamilton St. and Park Terrace, Hartford, Phase II

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$1,500,000	WAT.CS1303.02	2320

#### **Description**

Transmission water main replacement for various portions of District's water infrastructure outside of the CWP to assure the serviceability of the delivery system. Replacement of 36-inch transmission main in Hamilton Street, Park Terrace and Brookfield Street. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

#### **Purpose**

To replace a section of the 36-inch transmission water main that has experienced several breaks.

#### **Future Appropriations**

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

#### **Prior Appropriation**

This appropriation is an increase to the 2011 Transmission Main Replacement – Hamilton Street and Park Terrace, Hartford, Phase II authorization for \$3,250,000. Total appropriation for this project will now be \$4,750,000 (WAT.CW1303.01)

#### **Bond Language**

The sum of \$1,500,000 is hereby appropriated for transmission main replacement for various portions of the District's infrastructure outside of the Clean Water Program, including replacement of the 36 inch transmission main in Hamilton Street, Park Terrace and Brookfield Street, labor costs and associated overhead expenses related thereto and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Water

**Program – Collinsville WTP Emergency Generator Replacement**

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$500,000	WTF.EQ3114.01	2113

### **Description**

Upgrade and replacement of the generator system for the Collinsville Water Treatment Plant. Improvements and upgrades include all supporting equipment, appurtenances, electrical service and facilities. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### **Purpose**

To upgrade and replace the generator system for the Collinsville Water Treatment Plant,

### **Future Appropriations**

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

### **Bond Language**

The sum of \$500,000 is hereby appropriated for the upgrade and the replacement of the generator system at the Collinsville Water Treatment Plant, including supporting equipment, appurtenances, electrical service and facilities, labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Water

### Program – Eastbury Basin Rehabilitation

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$3,750,000	WDS.TK1214.01	2113

### **Description**

Upgrade and replacement of equipment and structures associated with the Eastbury Basin Facility. Improvements include, but are not limited to the liner system, mixing system, electrical service, supporting structures and site security. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### **Purpose**

To upgrade and/or replace water storage structures and equipment as needed.

### **Future Appropriations**

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

### **Bond Language**

The sum of \$3,750,000 is hereby appropriated for the upgrade and replacement of equipment and structures associated with the Eastbury Basin Facility, including the liner system, mixing system, electrical service, supporting structures, site security labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Water

### Program – General Purpose Water Program

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$3,500,000	WDS.DM0014.01	2113

### **Description**

Design and construction of the replacement of existing water mains and appurtenances in various locations District wide as a result of exceeding the infrastructure life expectancy. The replacement, rehabilitation and or upgrade of District equipment excluding vehicles. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### **Purpose**

To replace/rehabilitate certain water mains and appurtenances within the District water distribution system as recommended by the Asset Management Program to assure the serviceability of the delivery system.

### **Future Appropriations**

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

### **Bond Language**

The sum of \$3,500,000 is hereby appropriated for the design and construction of the replacement of existing water mains and appurtenances in various locations District wide, including design, construction, project administration, labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Water

### Program – Goodwin Dam Bridge Rehabilitation & Spillway Channel Improvements

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$2,800,000	WSH.DA3214.01	2113

#### Description

Upgrade and replacement of the Goodwin Dam Bridge. The improvements include, but are not limited to replacement of bridge decking, concrete replacement to the substructure and superstructure elements, rebar replacement, drainage improvements, waterproofing, road resurfacing, guiderail replacements, and expansion joint replacement. Work also to include stabilization of rock slopes in spillway channel. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

#### Purpose

To upgrade and replace the Goodwin Dam Bridge and Spillway Channel for public safety and to extend the life of the bridge an additional 30 years.

#### Future Appropriations

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

#### Bond Language

The sum of \$2,800,000 is hereby appropriated for the upgrade and replacement of the Goodwin Dam Bridge, including bridge decking, concrete replacement to the substructure and superstructure elements rebar replacement, drainage improvements, waterproofing, road resurfacing, guardrail replacement, expansion joint replacement, stabilization of rock slopes in the spillway channel, labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Water

### Program – Transmission Main Extension – Newington

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$3,500,000	WDS.TM0414.01	2113

#### **Description**

Transmission main extension for various portions of District's water infrastructure outside of the CWP to assure the serviceability of the delivery system. To include the but not limited to the vicinity of Willard Avenue and Cedar Street, Newington. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

#### **Purpose**

To extend the transmission main in Newington resulting in improved capacity, increase pressure for fire flows and a reduction of pressure losses.

#### **Future Appropriations**

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

#### **Bond Language**

The sum of \$3,500,000 is hereby appropriated for transmission main extension for various portions of the District's infrastructure outside of the Clean Water Program, including the vicinity of Willard Avenue and Cedar Street, Newington, to include labor costs and associated overhead expenses related thereto and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Water

**Program – Water Main Replacement Oakwood Avenue, West Hartford**

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$1,550,000	WAT.CW1372.02	2113

### **Description**

Design and construction for replacing the existing water mains and appurtenances in Oakwood Avenue, West Hartford as a result of the infrastructure exceeding the life expectancy. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### **Purpose**

To support the district wide design and construction of various water main replacements/rehabilitations.

### **Future Appropriations**

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

### **Prior Appropriation**

This appropriation is an increase to the 2013 Water Main Replacement Oakwood Avenue, West Hartford, authorization for \$300,000 (WAT.CW1372.01). Total appropriation for this project will now be \$1,850,000. Funds will be transferred from WAT.CW1372.02 to WAT.CW1372.01.

### **Bond Language**

The sum of \$1,550,000 is hereby appropriated for the design and replacement of existing water mains and appurtenances in Oakwood Avenue, West Hartford, including labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.



# 2014 Capital Improvement Program

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## Water

**Program** – Orchard Street Water Pump Station, Glastonbury

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$3,000,000	WDS.PS1214.01	2113

### Description

Upgrade and replacement of all equipment and structures associated with the Orchard Street, Water Pump Station, Glastonbury, which includes but not limited to the following: electrical, mechanical, structural, instrumentation and controls, electrical service, suction and discharge piping, emergency power generator systems and the architectural building. Site security and storm water improvements will be included. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### Purpose

To upgrade and replace equipment and structures associated with the Orchard Street, Water Pump Station, Glastonbury.

### 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 the upgrade and replacement of all equipment and structures associated with the Orchard Street Water Pump Station, Glastonbury, including building architecture and construction, electrical, mechanical, structural, instrumentation and controls, electrical service, suction and discharge piping, emergency generator systems, site security, storm water improvements, labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Water

### Program – Paving Program

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$3,000,000	WDS.DM0014.02	2113

### **Description**

Pavement restoration including soil material disposal and materials from stock. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### **Purpose**

To restore the sites as a result of various water installations.

### **Future Appropriations**

Future appropriation requests for other projects are anticipated over the next four years and include forecasted funding requirements of \$12,000,000.

### **Bond Language**

The sum of \$3,000,000 is hereby appropriated for pavement restoration, including spoil material disposal, materials from stock, labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Water

Program – Phelps Brook Dam and East Dike Rehabilitation Project

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$3,000,000	WSH.DA2514.01	2113

### Description

Design and construction for the rehabilitation of Phelps Brook Dam and East Dike. Both the Dam and Dike will be raised and Rip Rap with to protect the embankment during major storm events. Construction of walls along the upstream portion of the embankment, guiderails and installing asphalt pavement. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### Purpose

To prevent reservoir water from over topping the dam. This would protect the dam in the event of major flood.

### 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 the design and construction of the rehabilitation of the Phelps Brook Dam and East Dike to raise the dam and dike, including rip rap, construction of walls along the upstream portion of the embankment, guardrails, asphalt pavement, labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Water

**Program – Dam Safety Improvements – Res #1**

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$3,000,000	WAT.CW1266.02	2340

### **Description**

An increase to the original appropriation is requested for the following, but not limited to, building a new intake structure and pipe through the dam, abandoning exiting pipe and rehabilitating existing buildings in the vicinity of the dam. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### **Purpose**

To implement consultant's recommendation regarding safety and structural improvements.

### **Future Appropriations**

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

### **Prior Appropriation**

This appropriation is an increase to the 2010 Dam Safety Improvements – Res #1 authorization of \$1,315,000 (WAT.CW1266.01). Total appropriation for this project will now be \$4,315,000. Funds will be transferred from WAT.CW1266.02 to WAT.CW1266.01.

### **Bond Language**

The sum of \$3,000,000 is hereby appropriated for the Dam safety improvements at Reservoir #1 to build a new intake structure and pipe through the dam, abandon the existing pipe and rehabilitate existing buildings in the vicinity of the dam, including labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Water

**Program – Reservoir #1 Dam – Spillway Channel Modification**

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$5,000,000	WSH.DA1014.01	2113

### **Description**

Replace and rehabilitate the existing spillway and increase the capacity of the facilities to accommodate the probable maximum flood. The project will include but not limited to safety upgrades to the dam and rehabilitate and/or replace facilities around the dam. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### **Purpose**

To implement consultant's recommendation regarding safety and structural improvements.

### **Future Appropriations**

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

### **Bond Language**

The sum of \$5,000,000 is hereby appropriated to replace and rehabilitate the existing spillway at the Reservoir #1 Dam and increase the capacity of the facilities to accommodate the probable maximum flood, including safety upgrades to the Dam, the replacement and rehabilitation of facilities around the Dam, labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Water

### Program – Bloomfield Water Treatment Facility Filtered Water Basin Improvements

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$1,950,000	WAT.CW1360.02	2113

#### **Description**

Cleaning and inspection of the basin conducted in 2012 has revealed a list of intended improvements. Improvements to the basins include but are not limited to the following; raising manholes, access hatches, vent structures, installation of membrane liners and alarming access points. The DPH Sanitary Survey inspection conducted in 2012 will also require improvements be made to the facility, which is over 40 years old. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

#### **Purpose**

To improve basin operations to ensure that the drinking water facilities continue to provide safe drinking water.

#### **Future Appropriations**

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

#### **Prior Appropriations**

This appropriation is an increase to the 2013 Bloomfield Water Treatment Facility Filtered Water Basin Improvements authorization of \$3,050,000 (WAT.CW1360.01). Total appropriation for this project will now be \$5,000,000. Funds will be transferred from WAT.CW1360.02 to WAT.CW1360.01.

#### **Bond Language**

The sum of \$1,950,000 is hereby appropriated for improvements to the Bloomfield Water Treatment Facility, including raising manholes, access hatches, vent structures, the installation of membrane liners, alarming access points, labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Water

### Program – Saville Dam Embankment Improvements

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$2,000,000	WSH.BN2814.01	2113

### **Description**

Replace and rehabilitate the existing spillway and increase the capacity of the facilities to accommodate the probable maximum flood. The project will include, but is not limited to, safety upgrades and rehabilitate and/or replace facilities around the dam. Install Rip Rap to protect the embankment during major storm events. Construction of walls along the upstream portion of the embankment, guiderails and installing asphalt pavement. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### **Purpose**

To protect the dam in the event of major flooding.

### **Future Appropriations**

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

### **Bond Language**

The sum of \$2,000,000 is hereby appropriated for improvements to Saville Dam embankment, including rip rap, construction of walls along the upstream portion of the embankment, guard-rails, asphalt pavement, labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Water

**Program – Simsbury Road Water Pump Station, Bloomfield**

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$300,000	WDS.PS0514.01	2113

### **Description**

Design associated with the Simsbury Road Water Pump Station, Bloomfield. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### **Purpose**

To design a replacement for the existing water pumping station.

### **Future Appropriations**

Future appropriation requests for other projects are anticipated next year.

### **Bond Language**

The sum of \$300,000 is hereby appropriated for the design of the Simsbury Road Water Pump Station in Bloomfield, including labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.



# 2014 Capital Improvement Program

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## Water

Program – Uplands Way Water Pump Station, Glastonbury

Amount  
\$300,000

Project #  
WDS.PS1214.02

Fund  
2113

### Description

Design associated with the Uplands Way Water Pump Station, Glastonbury. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### Purpose

To design a replacement for the existing water pumping station.

### Future Appropriations

Future appropriation requests for other projects are anticipated next year.

### Bond Language

The sum of \$300,000 is hereby appropriated for the design of the Uplands Way Water Pump Station in Glastonbury, including labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Water

**Program – Various Transmission Main Design & Construction**

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$2,100,000	WDS.TM0014.01	2113

### **Description**

Design and construction of the replacement of various existing transmission water mains and appurtenances throughout the District and non-member towns due to the infrastructure exceeding life expectancy. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### **Purpose**

To support the design and construction of various water main replacements/rehabilitations district wide and within non-member towns.

### **Future Appropriations**

Future appropriation requests for other projects are anticipated over the next 4 years.

### **Bond Language**

The sum of \$2,100,000 is hereby appropriated for the design and construction of the replacement of the existing transmission water mains and appurtenances throughout the District and non-member towns, including labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Water

**Program – Vexation Tanks 1-4 Improvements, Rocky Hill**

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$3,300,000	WDS.TK0314.01	2113

### **Description**

Design and construction for upgrades and improvements to the Vexation Tank Farm (1-4). Improvements include but are not limited to the following: recoating interior and exterior shells, mixing system, electrical service, supporting structures, control and instrumentation, distribution piping and site security. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### **Purpose**

To replace and upgrade the Vexation Tank Farm (1-4).

### **Future Appropriations**

Future appropriation requests for other projects are anticipated next year.

### **Bond Language**

The sum of \$3,300,000 is hereby appropriated for design and construction for upgrades and improvements to Vexation Tanks 1-4 located in Rocky Hill, including recoating exterior and interior shells, mixing system, electrical service, supporting structure, controls and instrumentation, inlet and distribution piping, site security, labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Water

### Program – Water Rehabilitation Program

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$1,000,000	WDS.DM0014.03	2340

### Description

Project includes the replacement of the District's deteriorating segments of the water infrastructure. The District costs may include salary, benefits and overhead. Project includes staffing.

### Purpose

To replace aging equipment and structures.

### Future Appropriations

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

### Bond Language

The sum of \$1,000,000 is hereby appropriated for the replacement of deteriorating segments of the District's water infrastructure, including labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

### Authorized Positions

<u>Title</u>	<u>Number</u>	<u>Cost Center</u>
Gate Maintainer 1	2	7930003
Gate Maintainer 2	1	
Hydrant Maintainer 1	1	
Water Supply Maintainer 2	1	
<b>Total</b>	<b>5</b>	

# 2014 Capital Improvement Program

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## Water

### Program – Water Supply Generators

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$2,800,000	WAT.CW1363.02	2113

### **Description**

Design and construction for the upgrade and replacement of generator systems at Barkhamsted headquarters, Goodwin Hydro, West Branch and Nepaug Dams and other facilities in the water supply area. Improvements and upgrades include all supporting equipment, appurtenances and electrical service. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### **Purpose**

To upgrade and replace generators at Barkhamsted headquarters, Goodwin Hydro, West Branch, Nepaug Dams and other facilities in the water supply area.

### **Future Appropriations**

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

### **Prior Appropriations**

This appropriation is an increase to the 2013 Water Supply Generators authorization of \$350,000 (WAT.CW1363.01). Total appropriation for this project will now be \$3,150,000. Funds will be transferred from WAT.CW1363.02 to WAT.CW1363.01.

### **Bond Language**

The sum of \$2,800,000 is hereby appropriated for design and construction for the upgrade and replacement of generator systems at Barkhamsted headquarters, Goodwin Hydro, West Branch and Nepaug Dams and other facilities in the water supply area, including supporting equipment, appurtenances, electrical service, labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Water

### Program – Water Treatment Facilities Upgrades

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$2,300,000	WTF.TP0014.01	2113

### **Description**

The design and construction of improvements and upgrades as well as equipment replacement to West Hartford Water Treatment Facilities (WHWTF), Reservoir #6 – Bloomfield Water Treatment Facilities (R6WTF) and Collinsville Water Treatment Facilities (CWTF) to include but not limited to the following: site and tank construction, replacement of distribution vault, chemical delivery containment areas, service road rehabilitation, automation improvements and other equipment and instrumentation replaces as needed. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### **Purpose**

To replace aging equipment and infrastructure at WHWTF, R6WTF and CWTF.

### **Future Appropriations**

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

### **Bond Language**

The sum of \$2,300,000 is hereby appropriated for improvements, upgrades and equipment and instrumentation replacement to the West Hartford Water Treatment Facilities, Reservoir #6 – Bloomfield Water Treatment Facilities and Collinsville Water Treatment Facilities, including site and tank construction, replacement of distribution vault, chemical delivery containment areas, service road rehabilitation, automation improvements, equipment, instrumentation, labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Water

Program – Wethersfield Water Pump Station, Wethersfield

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$2,900,000	WDS.PS0214.01	2113

### Description

Upgrade and replacement of all equipment and structures associated with the Wethersfield Water Pump Station, Wethersfield, which includes but not limited to the following: electrical, mechanical, structural, instrumentation and controls, electrical service, suction and discharge piping, emergency power generator systems and the architectural building. Site security and storm water improvements will be included. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### Purpose

To upgrade and replace equipment and structures associated with the Wethersfield Water Pump Station.

### Future Appropriations

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

### Bond Language

The sum of \$2,900,000 is hereby appropriated for the upgrade and replacement of all equipment and structures associated with the Wethersfield Water Pump Station, Wethersfield, including building architecture and construction, electrical, mechanical, structural, instrumentation and controls, electrical service, suction and discharge piping, emergency generator systems, site security, storm water improvements, labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Water

### Program – Water Main Replacement – Wethersfield

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$3,000,000	WDS.DM0114.01	2113

#### **Description**

Design and construction of the replacement of various water mains and appurtenances in Wethersfield as a result of the infrastructure exceeding the life expectancy. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

#### **Purpose**

To support the design and construction of various water main replacement / rehabilitation in Wethersfield.

#### **Future Appropriations**

No additional appropriation requests are anticipated over the next 4 years.

#### **Bond Language**

The sum of \$3,000,000 is hereby appropriated for the design and construction of the replacement of existing water mains and appurtenances in Wethersfield including labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.



# 2014 Capital Improvement Program

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## Water

### Program – West Hartford Water Treatment Facility 6 MG Filtered Water Basin Improvements

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$3,000,000	WTF.BN1014.01	2113

#### **Description**

Rehabilitation of the 6 MG filtered water basins is required as these facilities are approaching 90-years in age. Cleaning and inspection was conducted in 2012 and has revealed a list of intended improvements. Improvements to the basins include but are not limited to the following; raising manholes, access hatches, vent structures, installation of membrane liners and alarming access points. The DPH Sanitary Survey inspection conducted in 2012 will also require improvements be made to the facility, which is over 40 years old.

#### **Purpose**

To improve basin operations ensuring that the drinking water facilities continue to provide safe drinking water.

#### **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 the rehabilitation of the 6 mg filtered water basins at the West Hartford Water Treatment Facility, including raising manholes, access hatches, vent structures, installation of membrane liners alarming access points, labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Water

Program – District-Wide Water Asset Management Program

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$250,000	WDS.EQ0014.01	2113

### Description

Project provides for the development of a District-Wide Water Asset Management Program. The District costs may include salary, benefits and overhead.

### Purpose

To complete the development of a computerized asset management program that will assist with prioritization of future District capital expenditures.

### Future Appropriations

No additional appropriations requests are anticipated next year.

### Bond Language

The sum of \$250,000 is hereby appropriated for the development of a computerized District-Wide Water Asset Management Program to prioritize future District capital expenditures, including labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Water

### Program – Water Pump Station Improvements

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$175,000	WDS.PS0014.01	2113

#### **Description**

Improvements to pump stations, stand pipes, basins, and storage tanks including associated equipment. Not limited to pumps and transfer switches. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

#### **Purpose**

To improve pump stations, stand pipes, basins, and storage tanks including associated equipment.

#### **Future Appropriations**

No additional appropriation requests are anticipated at this time.

#### **Bond Language**

The sum of \$175,000 is hereby appropriated for improvements to pump stations, stand pipes, basins, storage tanks equipment, including pumps, transfer switches, labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Water

### Program – Renewable Energy Projects – Water Facilities

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$300,000	WDS.BL0014.01	2113

#### **Description**

Project includes design of renewable energy projects to be installed at various Water Facilities to supply power year round at the facilities. The District costs may include salary, benefits and overhead.

#### **Purpose**

To design renewable energy sources to reduce operating costs for various water facilities.

#### **Future Appropriations**

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

#### **Bond Language**

The sum of \$300,000 is hereby appropriated for the design of renewable energy projects to be installed at various water facilities to supply year round power at the facilities, including labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

## Combined

The following is a list of the recommended combined capital programs and projects to be funded through the MDC's 2014 Capital Improvement Program budget. These capital programs and projects provide for needed equipment replacement, technology improvements and the development of long-term strategic initiatives. Each is considered to be a separate undertaking in accordance with Section 3-11 of the Charter of the Metropolitan District.

The following positions are included in the combined capital program:

### Combined

Facility Roof Replacements	\$ 600,000	
Land Improvements	1,000,000	
Facilities Improvement Program	3,000,000	
Information Systems	5,000,000	
Survey & Construction	5,000,000	
Engineering Services	3,300,000	
Construction Services	3,500,000	
Technical Services	2,600,000	
<b>Total Combined</b>	<b>\$ 24,000,000</b>	

### Authorized Positions

<u>Title</u>	<u>Number</u>
Building & Grounds Maintainer	3
Custodian	1
Construction Engineer Support	1
Construction Manager	6
Construction Services Supervisor	3
Design Manager	1
Durational Project Engineer	3
Electrician 2	1
Engineering Technician 2	3
Engineering Technician 3	15
Machinist / Maintenance Mechanic	1
Manager of Constr. & Engineering	1
Manager of Construction Services	2
Plant Maintenance Supervisor	1
Manager of Technical Services	1
Principal Engineer	3
Project Engineer 1	7
Project Engineer 2	6
Project Managers	12
Real Estate Assessment Technician 2	1
Senior Engineer Technician	2
Senior Engineering Drafter	2
Special Services Administrator	1
Survey Chief of Operation	1
Survey Chief of Party	2
Supervisors of Construction Services	3
<b>Total</b>	<b>83</b>

# 2014 Capital Improvement Program

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## Combined

### Program – Facility Roof Replacements

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$600,000	COM.BL0014.01	5613

### Description

Preliminary design to District's roofs approaching the end of expected life. Affected roofs are located at the Water Supply and Water Treatment Facilities, Wastewater Treatment Facilities and at other District Infrastructure buildings. District forces may be utilized for this program. The District costs may include salary, benefits and overhead.

### Purpose

To design District roofs approaching the end of expected life.

### Future Appropriations

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

### Bond Language

The sum of \$600,000 is hereby appropriated for the design of roofs in need of replacement on water supply and water treatment facilities, wastewater treatment facilities and other District buildings, including labor costs and associated overhead expenses related thereto, and for engineering, equipment, legal, administrative and other financing costs related thereto.

### Funding Allocation

Sewer 49%  
Water 51%

# 2014 Capital Improvement Program

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## Combined

### Program – Land Improvements

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$1,000,000	COM.LA0014.01	5613

### **Description**

Upgrades and improvements throughout the District to the Right of Ways for raw water, wastewater and treated water.

### **Purpose**

To make upgrades and improvements to the District's Right of Ways.

### **Future Appropriations**

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

### **Bond Language**

The sum of \$1,000,000 is hereby appropriated for upgrades of, and improvements to, the District's right of ways for raw water, wastewater and water, including labor costs and associated overhead expenses related thereto and for legal, administrative and other financing costs related thereto.

### **Funding Allocation**

Sewer 49%  
Water 51%

# 2014 Capital Improvement Program

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## Combined

### Program – Facilities Improvement Program

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$3,000,000	COM.BL0014.02	5651

### Description

Project consists of the replacement and/or upgrade to the District's deteriorating facilities which include building improvements, site improvements and equipment improvements. The District costs may include salary, benefits and overhead. Project includes staffing.

### Purpose

To replace and/or upgrade aging equipment and structures.

### Future Appropriations

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

### Bond Language

The sum of \$3,000,000 is hereby appropriated for staffing related to the replacement and/or upgrade of the District's facilities, including building improvements, site improvements and equipment improvements, including labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

### Authorized Positions

<u>Title</u>	<u>Number</u>	<u>Cost Center</u>
Building & Grounds Maintainer	3	7930004
Electrician 2	1	
Custodian	1	
Machinist / Maint. Mechanic	1	
Plant Maintenance Supervisor	1	
<b>Total</b>	<b>7</b>	

### Funding Allocation

Sewer 49%  
Water 51%



# 2014 Capital Improvement Program

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## Combined

Program - Information Technology

Amount  
\$5,000,000

Project #  
COM.EQ0014.01

Fund  
5613

### Description

The project includes but is not limited to the purchase, upgrade and/or replacement of computer related infrastructure and/or software. The District costs may include salary, benefits and overhead. Project may include durational employees.

### Purpose

To ensure the continued efficient and effective operation of the District's business applications and enhance the benefits of the system.

### Future Appropriations

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

### Bond Language

The sum of \$5,000,000 is hereby appropriated for the purchase, upgrade and/or replacement of computer related infrastructure and software, including labor costs and associated overhead expenses related thereto, and for equipment, legal, administrative and other financing costs related thereto.

### Funding Allocation

Sewer 49%  
Water 51%

# 2014 Capital Improvement Program

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## Combined

### Program - Survey & Construction

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$5,000,000	COM.OT0014.01	5802

### Description

Staffing costs

### Purpose

The Survey & Construction department holds responsibility for the survey and construction inspection of all water and sewer projects within the District's service area, including projects installed under District contract and developer permit agreements.

### Future Appropriations

Future appropriation requests for other projects are anticipated over the next 4 years.

### Bond Language

The sum of \$5,000,000 is hereby appropriated for survey and construction inspection of all water and sewer projects with the District's service area, including labor costs and associated overhead expenses for projects installed under District contract and developer permit agreement, and for legal administrative and other financing costs related thereto.

### Authorized Positions

<u>Title</u>	<u>Number</u>	<u>Cost Center</u>
Engineering Technician 2	3	7930005
Engineering Technician 3	15	
Manager of Construction Services	1	
Supervisor of Construction Services	3	
Construction Engineer Support	1	
Senior Engineer Technician	2	
Survey Chief of Operation	1	
Construction Services Supervisor	3	
Survey Chief of Party	2	
<b>Total</b>	<b>31</b>	

### Funding Allocation

Sewer 49%  
Water 51%

# 2014 Capital Improvement Program

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## Combined

### Program - Engineering Services

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$3,300,000	COM.OT0014.02	5802

### 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.

### Future Appropriations

Future appropriation requests for other projects are anticipated over the next 4 years.

### Bond Language

The sum of \$3,300,000 is hereby appropriated for engineering staffing services related to 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, including labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

### Authorized Positions

<u>Title</u>	<u>Number</u>	<u>Cost Center</u>
Design Manager	1	7930006
Durational Project Engineer	1	
Construction Manager	1	
Principal Engineer	1	
Project Managers	9	
Project Engineer 1	1	
Real Estate Assessment Technician 2	1	
<b>Total</b>	<b>15</b>	

### Funding Allocation

Sewer 49%  
Water 51%

# 2014 Capital Improvement Program

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## Combined

### Program - Construction Services

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$3,500,000	COM.OT0014.03	5802

### Description

Staffing costs

### Purpose

The Construction Services department holds responsibility for the management of all 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.

### Future Appropriations

Future appropriation requests for other projects are anticipated over the next 4 years and include forecasted funding requirements of \$14,000,000.

### Bond Language

The sum of \$3,500,000 is hereby appropriated for construction management staffing services related to 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, and for legal, administrative and other financing costs related thereto.

### Authorized Positions

<u>Title</u>	<u>Number</u>	<u>Cost Center</u>
Manager of Constr. & Engineering	1	7930007
Manager of Construction Services	1	
Construction Manager	5	
Principal Engineer	1	
Project Engineer 1	5	
Project Engineer 2	4	
<b>Total</b>	<b>17</b>	

### Funding Allocation

Sewer 49%  
Water 51%

# 2014 Capital Improvement Program

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## Combined

### Program - Technical Services

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$2,600,000	COM.OT0014.04	5802

### Description

Staffing costs

### Purpose

The Technical Services department holds responsibility for providing technical support to all of the District's capital improvement projects and clean water project including improvements to and expansion of the District's water distribution and sewer collection systems and related work on water and sewage treatment plants.

### Future Appropriations

Future appropriation requests for other projects are anticipated over the next 4 years.

### Bond Language

The sum of \$2,600,000 is hereby appropriated for technical staffing support for all of the District's capital improvement projects and clean water project, including improvements to and expansion of the District's water distribution and sewer collection systems and related work on water and sewage treatment plants, including labor costs and associated overhead expenses related thereto, and for legal, administrative and other financing costs related thereto.

### Authorized Positions

<u>Title</u>	<u>Number</u>	<u>Cost Center</u>
Manager of Technical Services	1	7930008
Durational Project Engineer	2	
Project Engineer 2	2	
Senior Engineering Drafter	2	
Principal Engineer	1	
Project Engineer 1	1	
Project Manager	3	
Special Services Administrator	1	
<b>Total</b>	<b>13</b>	

### Funding Allocation

Sewer 49%  
Water 51%

# 2014 Capital Improvement Program

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## Debt Management

Effective debt management ensures the District will meet its capital infrastructure and facility needs. It requires a series of decisions about the amount, timing, purposes and structure of debt issuance. The issuance of bonds and notes is authorized by the Metropolitan District Commission upon recommendation of the Board of Finance within limitations established by the District Charter and the General Statutes of Connecticut. Annual budgets and bonding resolutions must be approved by the Board of Finance and the District Board.

The Treasury Department manages all District borrowings, paying particular attention to debt affordability and the timing of borrowings, to take advantage of favorable market conditions. The goal is to repay debt rapidly, maintain a conservative level of outstanding debt, and ensure the District's continued positive financial standing within the bond market. The MDC's bond rating is currently AA+ by Standard and Poor's and Aa1 by Moody's.

The District Charter directs that capital expenditures require approval by a two-thirds vote of the entire District Board and a majority vote of electors of the entire District. However, under the Charter the following capital expenditures do not require approval of the electors:

- Capital expenditures not exceeding \$5,000,000 for any one undertaking.
- Expenditures for any undertaking involving not more than \$10,000,000 in any one year for the purpose of meeting a public emergency threatening the lives, health or property of citizens of the District.
- Construction or leasing of headquarters facilities
- Operations or projects allowable by District Charter undertaken by interlocal agreement with another municipality.
- Assessable sewer construction fund project

As of December 31, 2014, the borrowing capacity for general fund financed projects is estimated to be \$1,208,008,321. The forecasted debt subject to limitation is estimated to be \$ 587,681,341 and the remaining ability if the forecasted debt is borrowed would be \$620,326,980.

The total principal amount of bonds authorized and unissued at December 31, 2014, including the bonds authorized for the 2014 Capital Improvement Program, is estimated at \$1,841,312,224 for sewer and water projects. Bonds authorized for the supply of water are excluded from the debt limitation. The amount of non-water bonds authorized and unissued for general fund financed projects, as of December 31, 2014, and subject to the debt limitation, is estimated to be \$1,453,975,773. This amount is \$245,967,452 more than the estimated amount available under the debt limitation of \$1,208,008,321. Management established a Revenue Bond program on June 1, 2013 for the Clean Water Project. Management will be able to exclude the Revenue Bonds issued for the authorized \$1.6 billion CWP from the debt limitation calculation. The source of revenue to pay for the revenue bond program will be revenue received through the Special Sewer Service Surcharge. The revised amount of non-water bonds authorized and unissued for general fund finance projects subject to the debt limitation is estimated to be \$170,308,609 which leaves The District with an excess amount of \$1,037,699,712 available for other future debt.

To avoid exceeding the debt limitation, the District will take certain steps to exclude a certain principal amount of non-water bonds for general fund financed projects from the debt limitation. These steps include the issuance of a portion of the Clean Water Project Bonds to be secured and paid from the Special Sewer Service Charge which has been levied beginning in 2008 and borrowing from the State's Clean Water Fund on a special obligation basis to be secured and paid from the Special Sewer Service Charge, as opposed to borrowing on a general obligation basis.

# 2014 Capital Improvement Program

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## Debt Management

In accordance with the District Charter, sewer services are funded through taxation on member municipalities and a sewer user charge for tax exempt and high flow users. Water services and related operations are funded principally through a direct water charge to customers.

The MDC uses two primary sources of funds to finance its capital program:

- Proceeds from the sale of bonds and/or short-term notes.
- State of Connecticut grant and/or loan programs:

*Wastewater Program/Projects* - Under the Clean Water Fund, eligible District projects may be awarded an 80% loan (at 2% interest) and a 20% grant. Combined sewer overflow projects may be funded through a 50% loan (at 2% interest) and a 50% grant. Nitrogen reduction projects may be funded through a 70% loan (at 2% interest) and a 30% grant. Some sanitary sewer overflow projects will be funded through a 50% loan (at 2% interest) and a 50% grant, but most will be funded with 100% loan (at 2% interest).

*Water Programs/Projects* – Under the Drinking Water State Revolving Fund, a project may receive a 100% loan at a rate which is approximately 50% of the market rates for interest. Depending on the subsidization monies available at the Federal EPA level in conjunction with merits of the project, the DPH may also award subsidized funding.

Upon award of a State Loan, the District issues a Project Loan Obligation (PLO) to evidence the permanent financing of the project loan over 20 years.

## Special Sewer Service Charge

The Metropolitan District enacted a special sewer service charge under Section S12X of the General Sewer Ordinances to be used for the payment of principal and interest on certain bonds and loans which proceeds are used to finance the costs associated with the Clean Water Project.

This special sewer service charge shall apply to the customers of the Metropolitan District who utilize both the District sewer system and are furnished water directly by the MDC.

The special sewer service charge effective January 1, 2014 is \$2.90 per CCF of water consumed by District customers who utilize both the District water and sewer systems

## **2014 Capital Improvement Program**

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### **Funding**

The 2014 plan for financing new and previously authorized Capital Improvement Programs is consistent with maintaining level debt service proportionate to the overall water and sewer expenditure budget.

Funding of the District's Capital Improvement Program for water and sewer projects (excluding projects related to the Clean Water Referendum) will consist of the issuance of long-term debt (general obligation bonds), short-term debt (notes), contributions for assessable sewer projects or State Clean Water Fund and Drinking Water State Revolving Fund Project Loan Obligations.



# 2014 Clean Water Project

## Referendum 1

### Program – Clean Water Project – Referendum 1

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$800,000,000	CW1.000000.00	5300

### 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.

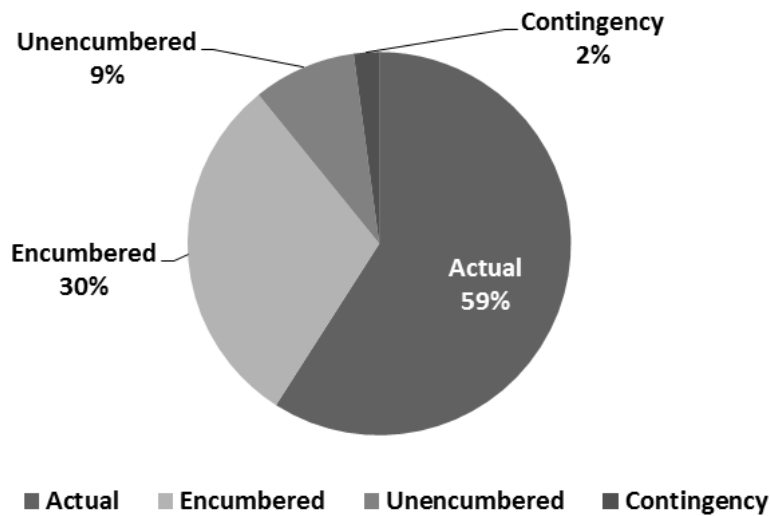
### Purpose

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	\$ 472,432,687.89
Encumbered	240,853,101.58
Unencumbered	69,590,107.15
Contingency	17,124,103.38
	<u>\$ 800,000,000.00</u>

### Referendum 1



# 2014 Clean Water Project

## Referendum 1

### Ongoing Projects

Project Name	Project ID	Current Budget	Actual	Encumbered	Remaining Budget
CW1.SSOWTH.02	2012 Weth. Lining Pt	\$ 1,000.00	\$ 275.00	\$ 725.00	\$ -
CW1.CONHOM.00	2007 CWP Homestead	31,723,234.50	31,041,150.93	682,083.56	0.01
CW1.FSSFAR.04	Farmington Proj #4	829,399.98	658,004.15	171,395.83	-
CW1.FSSFAR.06	Farmington Proj #6	8,588,438.12	3,799,638.69	3,985,694.41	803,105.02
CW1.FSSFAR.1A	Farm Ave 1A Sew Sep	185,940.04	146,013.41	13,990.80	25,935.83
CW1.FSSFAR.71	Farmington Proj #7.1	3,019,913.18	2,534,689.79	474,660.00	10,563.39
CW1.FSSFAR.72	Farmington Proj #7.2	3,903,648.20	3,404,233.96	499,414.24	-
CW1.MGMGEO.30	Geotechnical Service	4,028,504.92	2,044,858.63	1,937,699.35	45,946.94
CW1.MGMPMC.10	2010 CWP PMC	5,433,592.21	5,414,789.79	18,802.42	-
CW1.MGMPMC.13	2013 CWP PMC	10,152,116.37	5,076,660.91	2,894,302.99	2,181,152.47
CW1.MGMPMU.13	2013 CWP PMU	10,000,000.00	6,220,084.35	219,375.65	3,560,540.00
CW1.NSSGRA.01	Granby Str Outfall 1	8,690,000.00	343,299.85	17,637.35	8,329,062.80
CW1.NSSGRA.02	Granby St Proj 2 & 5	35,126,140.00	22,342,136.20	10,698,246.73	2,085,757.07
CW1.NSSGRA.03	Granby Project #3 NE	1,087,134.87	759,152.57	327,982.30	-
CW1.NSSTOW.02	Tower Ave Area South	13,361,920.03	7,730,288.46	4,125,717.10	1,505,914.47
CW1.NSSTOW.1A	2011 Tower Ave Bldg	4,668,558.05	4,415,290.18	252,844.49	423.38
CW1.NSSUAL.01	2007 CWP Albany Ave	27,201,919.84	9,072,278.95	13,952,904.15	4,176,736.74
CW1.NSSUAL.02	Upper Albany #2	1,370,500.00	1,189,367.10	121,432.29	59,700.61
CW1.NSSUAL.03	Upper Albany Proj #3	960,015.80	770,765.60	147,335.72	41,914.48
CW1.NSSUAL.07	Route 44 Storm Drain	990,218.00	898,400.75	55,924.93	35,892.32
CW1.NSSUAL.E3	Burton St. Sew Sep	10,078,000.00	8,450,106.86	1,601,567.03	26,326.11
CW1.SSOGEN.11	SSO Pilot Study	3,765,255.58	3,270,561.85	30,392.99	464,300.74
CW1.SSOGEN.13	2013 SSO Elimination	1,000,000.00	12,639.25	986,405.12	955.63
CW1.SSONWT.01	2012 SSO-Newington	3,373,716.95	2,070,398.94	734,814.69	568,503.32
CW1.SSONWT.02	2012 Newington Lining	6,139,498.00	755,921.90	4,405,065.34	978,510.76
CW1.SSONWT.06	2012 Newington Church	4,937,793.16	1,572,562.83	3,346,569.80	18,660.53
CW1.SSONWT.07	2012 Cedar Newington	407,000.00	294,261.95	32,696.42	80,041.63
CW1.SSORKH.07	2012 RH Interceptor	206,525.00	174,117.39	32,407.61	-
CW1.SSOWHA.01	2012 W. Hartford PR	3,297,456.54	1,228,610.16	1,759,985.76	308,860.62
CW1.SSOWHA.02	2012 SSO Pilot E- WH	2,939,258.00	1,843,179.58	694,561.93	401,516.49
CW1.SSOWHA.04	2012 Four Mile Rd	3,089,091.00	1,413,490.74	762,338.37	913,261.89
CW1.SSOWHA.07	2012 WH SSES	1,537,500.00	290,594.89	1,123,002.61	123,902.50
CW1.SSOWND.01	2012 SSO-Windsor	3,933,825.00	2,366,771.83	1,483,239.45	83,813.72
CW1.SSOWND.02	2012 SSO-WI SSES	269,800.00	37,466.76	151,232.34	81,100.90
CW1.SSOWTH.01	2011 SSO-Wethersfield	5,438,473.00	4,090,983.06	1,095,984.38	251,505.56
CW1.SSOWTH.03	2012 SSO Pilot D-Weth	3,222,630.00	797,156.29	2,048,757.38	376,716.33
CW1.SSOWTH.04	2012 Folly Brook Rehab	381,075.00	234,800.82	19,923.00	126,351.18
CW1.SSOWTH.07	2012 SSO Exe Sq PS	356,553.00	118,811.57	72,201.43	165,540.00
CW1.SSOWTH.08	2012 FOLLY BROOK	1,680,000.00	766,735.22	851,471.26	61,793.52
CW1.SSSFRA.01	Franklin Proj #1- B	1,564,067.56	1,496,150.82	65,016.44	2,900.30
CW1.SSSFRA.02	Franklin Ave #7-Pkg A	203,500.00	75,512.19	119,012.04	8,975.77
CW1.SSSFRA.04	Franklin Proj #4 - D	2,176,068.18	2,131,293.04	37,656.05	7,119.09
CW1.SSSFRA.11	Franklin Ave #11-Pk A	673,500.00	319,978.07	348,555.37	4,966.56
CW1.SSSFRA.12	Franklin Proj #12 -D	1,861,187.80	1,556,006.57	257,566.77	47,614.46
CW1.SSSFRA.13	Franklin Proj #13-B	42,553,292.47	11,993,226.40	28,032,581.56	2,527,484.51
CW1.SSSFRA.15	Airport Rd PS F.M.	5,462,611.38	4,584,547.57	684,592.11	193,471.70
CW1.SSSFRA.16	2012 Building Dis 1	886,000.00	438,687.30	375,977.70	71,335.00

# 2014 Clean Water Project

## Referendum 1

### Ongoing Projects cont.

Project Name	Project ID	Current Budget	Actual	Encumbered	Remaining Budget
CW1.SSSFRA.17	2012 Building Dis 2	684,000.00	388,679.35	241,990.65	53,330.00
CW1.SSSFRA.18	2012 Building Dis 3	650,000.00	136,745.00	208,455.00	304,800.00
CW1.SSSFRA.1A	Franklin Ave-House D	1,177,000.00	774,408.80	274,370.80	128,220.40
CW1.SSSFRA.4D	Franklin Proj #5-D	29,156,286.84	14,228,668.93	12,447,211.68	2,480,406.23
CW1.SSSPAR.01	Park River Proj #1	1,326,000.00	557,538.48	691,476.52	76,985.00
CW1.SSSPAR.03	Park River #3	1,077,897.52	904,041.42	144,224.22	29,631.88
CW1.SSSPAR.07	Retreat Avenue	8,828,305.92	2,472,010.02	5,820,017.29	536,278.61
CW1.SSSPAR.11	2013 Green Infrastructure	466,500.00	62,053.72	346,680.20	57,766.08
CW1.TUNSTH.00	South CSO Convey Tunnel	35,614,076.75	8,676,575.12	25,816,101.07	1,121,400.56
CW1.WTFHAR.01	HWPCF Master Plan	10,000,000.00	9,695,155.31	183,220.00	121,624.69
CW1.WTFHAR.08	Incinerator #3 Rehab	43,017,000.00	42,789,543.85	218,217.21	9,238.94
CW1.WTFHAR.13	Aeration Settle Tank	39,751,000.00	39,455,908.39	130,763.66	164,327.95
CW1.WTFHAR.14	ASH HAND & MERCURY	12,500,000.00	718,801.93	136,909.01	11,644,289.06
CW1.WTFHAR.16	BNR Phase II Upgrade	36,318,397.00	32,029,684.84	2,832,139.61	1,456,572.55
CW1.WTFHAR.17	2011 Solids Handling	767,827.21	607,949.38	159,877.83	-
CW1.WTFHAR.18	2011 Wet Weather Expan	60,970,742.00	20,873,063.77	23,311,854.57	16,785,823.66
CW1.WTFHAR.20	2013 WWEP #2012-20	80,000,000.00	914.81	76,137,848.00	3,861,237.19
		<b>\$ 645,060,904.97</b>	<b>\$ 334,617,696.24</b>	<b>\$ 240,853,101.58</b>	<b>\$ 69,590,107.15</b>
CW1.000000.00	Referendum 1 Contingency	17,124,103.38			
	Completed Projects	137,814,991.65			
	Referendum 1	<b>\$ 800,000,000.00</b>			

# 2014 Clean Water Project

## Referendum 1

### Completed Projects

Project Name	Project ID	Current Budget	Actual	Encumbered	Remaining Budget
CW1.CONSBR.00	South Branch CSO Con	\$ 450,579.73	\$ 450,579.73	\$ -	\$ -
CW1.FSSFAR.PD	Farmington Ave PD	640,900.68	640,900.68	-	-
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	2009 CWP PMC	4,539,195.90	4,539,195.90	-	-
CW1.MGMPMC.11	2011 CWP PMC	8,157,922.51	8,157,922.51	-	-
CW1.MGMPMC.12	2012 CWP PMC	6,719,698.60	6,719,698.60	-	-
CW1.MGMPMU.07	2007 CWP PMU	3,255,730.36	3,255,730.36	-	-
CW1.MGMPMU.08	2008 CWP PMU	3,403,759.44	3,403,759.44	-	-
CW1.MGMPMU.09	2009 CWP PMU	5,874,757.78	5,874,757.78	-	-
CW1.MGMPMU.10	2010 CWP PMU	10,922,243.51	10,922,243.51	-	-
CW1.MGMPMU.11	2011 CWP PMU	11,588,776.35	11,588,776.35	-	-
CW1.MGMPMU.12	2012 CWP PMU	6,894,906.59	6,894,906.59	-	-
CW1.NSSTOW.01	2007 CWP Tower Ave	7,863,944.77	7,863,944.77	-	-
CW1.NSSTOW.FD	Tower Ave Area #1 Des	157,819.00	157,819.00	-	-
CW1.NSSTOW.PD	Tower Ave Sep PD	106,658.86	106,658.86	-	-
CW1.NSSUAL.08	Garden Street Htfd	6,784,724.47	6,784,724.47	-	-
CW1.NSSUAL.ES	Upper Albany Edgewood	3,494,428.99	3,494,428.99	-	-
CW1.NSSUAL.PD	Upper Albany Sep PD	680,471.26	680,471.26	-	-
CW1.SSOGEN.07	2007 CW SSO Gen Rep	13,583,866.10	13,583,866.10	-	-
CW1.SSOGEN.08	2008 Clean Water SSO	7,690,639.29	7,690,639.29	-	-
CW1.SSSFRA.PD	Franklin Ave Area PD	2,032,822.44	2,032,822.44	-	-
CW1.SSSPAR.06	Green Capital Project	983,689.36	983,689.36	-	-
CW1.SSSPAR.PD	Park River Sep PD	683,914.79	683,914.79	-	-
CW1.WTFHAR.10	HWPCF SCADA	854,591.82	854,591.82	-	-
CW1.WTFHAR.11	UV Disinfection Proj	19,105,159.61	19,105,159.61	-	-
CW1.WTFHAR.12	Demo Compost Bldg	1,112,844.65	1,112,844.65	-	-
CW1.WTFHAR.E1	Clsd07 CWP HWPCF PHI	5,200,006.71	5,200,006.71	-	-
CW1.WTFRKH.03	Rocky Hill Master Plan	261,359.38	261,359.38	-	-
		<b>\$ 137,814,991.65</b>	<b>\$ 137,814,991.65</b>	<b>\$ -</b>	<b>\$ -</b>

# 2014 Clean Water Project

## Referendum 2

### Program – Clean Water Project – Referendum 2

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$800,000,000	CW2.000000.00	5400

### Description

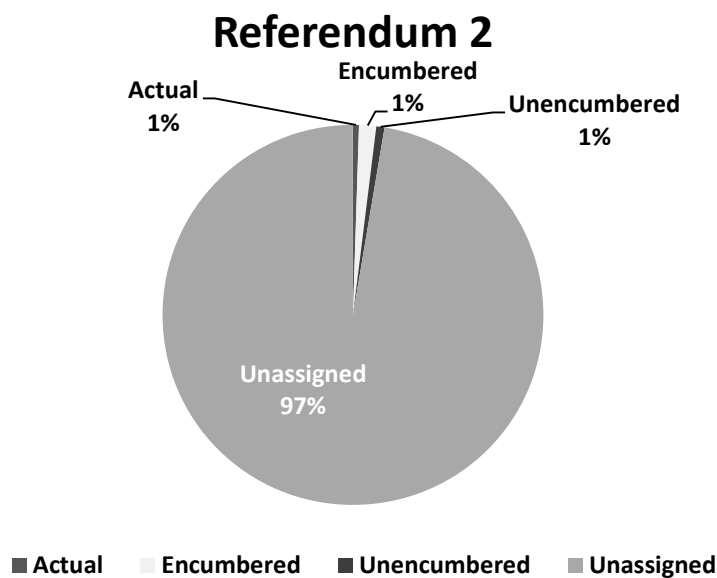
The 2012 Clean Water Project Referendum Fund accounts for financial resources to be used for the second phase of the Clean Water Project, which was authorized on November 6, 2012.

### 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	\$ 4,038,236.25
Encumbered	11,644,361.84
Unencumbered	5,557,401.91
Unassigned	778,760,000.00
	<u>\$ 800,000,000.00</u>



# 2014 Clean Water Project

## Referendum 2

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### Ongoing Projects

Project ID	Project Name	Current Budget	Actual	Encumbered	Remaining Budget
CW2.MGMCWP.13	CW2.MGMCWP.13	\$ 2,000,000.00	\$ 444,103.26	\$ 118,584.28	\$ 1,437,312.46
CW2.WTFHAR.24	2013 231 BRAINARD RD	13,000,000.00	2,378,705.54	7,326,054.94	3,295,239.52
CW2.WTFRKH.04	2013 RHWPCF Cap & Up	6,240,000.00	1,215,427.45	4,199,722.62	824,849.93
		<b>\$ 21,240,000.00</b>	<b>\$ 4,038,236.25</b>	<b>\$ 11,644,361.84</b>	<b>\$ 5,557,401.91</b>
CW2.000000.00	Unassigned	778,760,000.00			
	Referendum 2	<b>\$ 800,000,000.00</b>			

# 2014 Capital Improvement Program

## Exhibit

The following tables represent the new Project Numbering System.

### Project Numbering Scheme

Element	Asset Class		Asset Type		Town	Year	Sequence	Complete String	Explanation
# of Characters	3	1	2	2	2	2	1	2	13
Examples	WTF	.	FA	05	14	.	01	WTF. FA0514. 01	Bloomfield Res. #6 Upgrade
	SCS	.	SR	01	14	.	89	SCS. SR0114. 89	Sewer Project in Hartford, started 2014, 89 Project Overall
	WDS	.	PV	00	14	.	07	WDS. PV0014. 07	Water Distribution - Pressure Relief Valves, Multi-Town, 2014, 7th project overall

Asset Class	
WSH	Water Supply/Hydro
WTF	Water Treatment Facilities
WDS	Water Distribution System
SCS	Sewer Collection and Storm
WPC	Water Pollution Control
COM	Combined

Asset Type	
BL	Buildings
BN	Finished water basins
CN	Conduits
DA	Dams
DM	Distribution Mains
EQ	Equipment
FA	Facilities
GT	Gates
HY	Hydroelectrical
IN	Interceptors
LA	Land
MP	Meter Pits
MT	Meters
OT	Other
OV	Overflows
PS	Pump Stations
PV	Pressure Relief Valves
RC	Recreation
RV	Reservoirs
RW	Raw Water Pipelines
SD	Storm Drains
SR	Sewers
TK	Storage Tanks
TM	Transmission Mains
TN	Tunnels
TP	Treatment Plant
VE	Vehicles
WL	Wells
XM	Interconnection Meters

Towns	
00	Raw Water and Multi-Town
01	Hartford
02	Wethersfield
03	Rocky Hill
04	Newington
05	Bloomfield
06	Windsor
07	East Hartford
<del>08</del>	<del>Not Used</del>
<del>09</del>	<del>Not Used</del>
10	West Hartford
11	Manchester
12	Glastonbury
13	Farmington
14	South Windsor
15	Unionville
16	Cromwell
17	Berlin
18	New Hartford
19	Avon
20	Windsor Locks
21	East Granby
<del>22</del>	<del>Not Used</del>
<del>23</del>	<del>Not Used</del>
<del>24</del>	<del>Not Used</del>
25	Burlington
26	Canton
27	Colebrook
28	Barkhamsted
29	Hartland
30	Essex
31	Collinsville
32	Goodwin HD
33	Ellington
34	Torrington
35	Watertown
36	Portland
37	West Hartland
38	Simsbury

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## Supplement

The following to project was increased by the District Board, June 3, 2013.

### **Program – CWP Water Main Rehabilitation – Fennway Street, West Hartford**

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$593,000	WAT.CW1328.01	2320

### **Description**

Design and rehabilitation of the existing water main in Fennway Street as a result of exceeding the infrastructure life expectancy. This project is associated with the Farmington 7.2 project in the CWP.

### **Prior Appropriations**

This appropriation is an increase to the 2011 Fennway Street, West Hartford authorization of \$370,000 (WAT.CW1328.01). Total appropriation for this project will now be \$593,000.

Project to be completed in conjunction with the Clean Water Project

### **Resolved**

The sum of \$593,000 is hereby appropriated for the design and construction of the water main replacement in Fennway Street, West Hartford, in conjunction with the District's Clean Water Project, and for legal, administrative and other financing costs related thereto.

# 2014 Capital Improvement Program

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## Supplement

The following project was approved and funded by the District Board, June 3, 2013.

**Program – CWP Water Main Replacement - Franklin 13**

<u>Amount</u>	<u>Project #</u>	<u>Fund</u>
\$2,100,000	WAT.CW1279.10	2320

### Description

Design and rehabilitation of existing water mains and appurtenances in various locations within the CWP pertaining to the Franklin Avenue area.

### Resolved

The sum of \$2,100,000 is hereby appropriated for the design and construction of water main replacement for Franklin # 13 Project in the vicinity of Franklin Avenue, Hartford, Included are legal, administrative and other financing costs related thereto.