



The Metropolitan District
water supply · environmental services · geographic information

BUREAU OF PUBLIC WORKS
SPECIAL MEETING
WEDNESDAY, JULY 12, 2023
4:00 PM

Location

Board Room
District Headquarters
555 Main Street, Hartford

Dial in #: (415)-655-0001
Access Code: 980 274 00#

[Meeting Video Link](#)

Commissioners

Adil	Hoffman (C)
Avedisian	Johnson
Bazzano	Lester
Bush	Magnan
Currey	Pane
DiBella (Ex-Officio)	Patel
Drake	Salemi
Gale	Steuber
Gentile	Taylor
Healy	Torres (VC)
	Woulfe

Quorum: 11

1. CALL TO ORDER
2. PUBLIC COMMENTS RELATIVE TO AGENDA ITEMS
3. APPROVAL OF MEETING MINUTES OF MAY 31, 2023
4. CONSIDERATION AND POTENTIAL ACTION RE: MODIFICATION OF STATE OF CT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION CONSENT ORDER #COWRMU22002 (POSSIBLE EXECUTIVE SESSION)
5. CONSIDERATION AND POTENTIAL ACTION RE: SEWER HOUSE CONNECTION PROGRAM
6. OPPORTUNITY FOR GENERAL PUBLIC COMMENTS
7. COMMISSIONER REQUESTS FOR FUTURE AGENDA ITEMS
8. ADJOURNMENT

BUREAU OF PUBLIC WORKS SEWER HOUSE CONNECTION PROGRAM

To: Bureau of Public Works

July 12, 2023

In 2019, the District Board established a Sewer Lateral Installation Program to assist property owners with the cost to renew or install a sewer house connection to their property by paying the District the costs over time. At the April 24, 2023 Bureau of Public Works meeting, the Bureau referred proposed ordinance revisions to the Committee on MDC Government related to changing District policy on the repair of sewer house connections on private property. The proposed ordinance revisions do not eliminate the property owner's ownership of, and maintenance responsibility for, the full length of the sewer house connection. But, if implemented the revised ordinances would permit the District to perform sewer maintenance or repair work on the private property portion of the sewer house connection. The Committee on MDC Government held a public hearing on the ordinance revisions on May 30, 2023. In addition to the forthcoming change to District policy and ordinances regarding repair of sewer house connections on private property, Staff recommends the Sewer Lateral Installation Program be discontinued and a new Sewer House Connection Program (the "Program") be established as described herein. The Program will support new sewer house connections and address failing private property sewer house connections by allowing for the installation of new or renewed (i.e., replaced or rehabilitated) sewer house connections on private property to be funded by the District.

The benefit of renewing sanitary sewer house connections is a reduction in infiltration from private property (contributing to the goals of the Clean Water Program), more effective Customer Service/Operations involvement in renewing house connections extending onto private property, and reduction of potential private property backups caused by deteriorated house connections, root intrusion, etc.

The Program includes five different scenarios, shown in the table below, based on a property owner's needs. Per MDC Sewer Ordinances § S1b, a sewer "house connection" is a pipe connecting a property to the main sewer. A "lateral" is a capped pipe laid towards a property during the original construction of a main sewer for the purpose of a future house connection for the property.

GENERAL CONDITIONS

Prior to acceptance into the Program, contracts and/or price quotes between the property owners and their contractor(s) must be submitted to Utility Services for review to verify the reasonableness of the scope of work and cost proposal. The District reserves the right to deny any price proposal. Any increase in the price due to unforeseen circumstances must be approved by the District prior to funding. The owner shall be bound to the terms of the written contract with contractor. If the contractor requires a deposit, the property owner will be responsible to pay the contractor. Monthly payments will be a separate line item on the water bill. There will be no pre-payment penalties.

PROPERTIES NOT CURRENTLY CONNECTED TO MDC SEWER **(Scenarios 1, 2 & 3)**

For new house connection installations, the property owner will have the ability to hire a private contractor to install sewer house connections on private property and fund the entire new sewer connection cost (assessment plus construction costs), with reimbursement to the District by the property owner over time. Upon satisfactory completion of the work, the District will pay the property owner's contractor for the cost of the work, up to \$10,000, and the property owner will sign a voluntary lien and repay the District over time, including interest at the same rate as sewer assessments (6%). The Program would offer property owners the ability to roll the installation costs of a new house connection into the property's assessment and for property owners to pay for the installation of house connections as part of their monthly water bill. The Program would be limited to 6-inch house connections for residential properties. Exceptions to the service size or type would be subject to approval by the Chief Executive Officer or his/her designee. Sewer house connections will only be funded if the house connection is built in accordance with District standards, permitted and inspected by the District.

For new house connection installations, the Program shall be funded from a Sewer House Connection Revolving Fund. In 2019 as part of the Sewer Lateral Installation Program, the District Board established the Sewer Lateral Revolving Fund with funds from the Assessable Sewer Fund. The Sewer Lateral Revolving Fund currently has a balance of \$1.17 million and will be renamed the Sewer House Connection Revolving Fund. Coupled with the revenue from the principal and interest payments, the Sewer House Connection Revolving Fund is expected to be self-sustaining.

PROPERTIES CURRENTLY CONNECTED TO MDC SEWER **(Scenarios 4 & 5)**

For maintenance/inspection and renewal of existing house connections, the Program will be funded from the Clean Water Program Rate Stabilization Fund and/or applicable grant funding.

Maintenance and/or Inspection of Existing House Connections

For property owners with existing sanitary house connections, the property owners are responsible for maintenance of the entire length of house connection per MDC Sewer Ordinance § S3s, "Maintenance of Sewer Connections". As part of the Program, the District will offer emergency and non-emergency maintenance and inspection services and provide funding for scheduled renewal of the house connection upon request of the Property Owner.

For maintenance and inspection services, the District will offer the property owner a qualified registered contractor to perform sewer rodding and/or CCTV inspection services at no cost to the property owner. Alternatively, the property owner may hire their own contractor to perform the services and the District will reimburse the property owner up to \$200 for a sewer rodding and/or \$300 per CCTV inspection. Reimbursement is contingent upon the property owner obtaining a permit from Utility Services and arranging

for an inspector to be on-site to witness the maintenance. Increases in reimbursement amounts will be subject to approval of the Chief Executive Officer or his/her designee. If the property owner chooses to utilize the District's qualified registered contractor, prior to the District's contractor performing any maintenance or inspection services the property owner will be required, in writing, to authorize the District and its contractor to perform the sewer rodding and/or CCTV inspection and release the District from any claims and liability for any damages incurred at the property that resulted from, or were caused by, a blockage within or the condition of the property's sewer house connection. The property owner shall also acknowledge in writing that the District is not assuming control or ownership over the house connection.

Following the maintenance and inspection services, the District will provide the property owner a report detailing the condition of the house connection based on the inspection. The District will utilize NASSCO guidelines, or other comparable industry guidelines, for assessment of the pipe's condition. If the condition report indicates that the house connection presently requires repair, then the District will schedule renewal of the house connection. The timeline for performing the renewal will be based on the condition of the pipe and the District's contractors' availability. The Property Owner must fully participate in the Backwater Valve and Private Property Inflow Disconnect Program before the District will perform renewal of the house connection.

If the condition report indicates that renewal of the house connection is not presently needed and routine maintenance can be performed to extend the life of the house connection, the District will provide the property owner with written instructions for a future maintenance plan including appropriate maintenance activities with suggested frequencies. Execution of the maintenance plan, including power rodding and/or CCTVing, will be the responsibility of the property owner at his/her own cost. The District will provide an estimated timeline for future inspection of the house connection based on the condition of the pipe and the potential likelihood of the house connection needing renewal in the future. Such timeline will be consistent with and based on criteria from the District's Capacity Management, Operations and Maintenance (CMOM) program for public sewer mains.

Renewal of Existing House Connections

Scenarios 4 & 5 relate to house connection renewals which may include pipe lining, pipe bursting or pipe replacement. Renewals must be for the full length of the house connection piping rather than only a damaged portion. If the property owner wants to point repair only a damaged section of the house connection, it will not be eligible for the Program.

For Scenario 4, the District will provide funding up to \$10,000 for the property owner to renew the private portion of the house connection. The property owner will be responsible for contracting with a licensed drainlayer or qualified, bonded and insured contractor. The District will provide the property owner its list of qualified contractors. Following completion and acceptance of the renewal work, the District will pay the contractor up to \$10,000.

For Scenario 5, if the District is rehabilitating or replacing a main line sewer under a construction contract, private property owners may participate in this program and have their house connection renewed at no cost. For circumstances where the length of the house connection or other factors make full renewal exceed \$10,000 in cost, the District reserves the right to renew the house connection under Scenario 4 where the District pays \$10,000 and the property owner would be required to pay for any work in excess of the \$10,000 limit.

Therefore, it is **RECOMMENDED** that it be

VOTED: That the Bureau of Public Works recommends to the District Board passage of the following resolution:

RESOLVED: That the Sewer Lateral Installation Program approved in 2019 is hereby discontinued and the Sewer House Connection Program as described above and herein is hereby established:

Scenario	Sewer Type	New 6-inch House Connection in Public Right of Way	New 6-inch House Connection in Private Property	House Connection Renewal **
1	New sewer main – Layout & Assessment	District installs as part of the project, cost to property owner \$4,420* plus frontage and dwelling unit assessment	Property owner responsible for actual cost. District pays contractor and property owner repays District over time	N/A
2	Existing sewer main with existing lateral in ROW	District installed as part of the previous project, cost to property owner \$4,420* plus frontage and dwelling unit assessment	Property owner responsible for actual cost. District pays contractor and property owner repays District over time.	District responsible for public portion within the ROW.
3	Existing sewer main with no lateral in ROW	Property owner responsible for actual cost plus any assessment or connection charges due. District pays contractor and property owner repays District over time.	Property owner responsible for actual cost. District pays contractor and property owner repays District over time.	N/A

4	Existing sewer main with existing house connection to be renewed or replaced not under MDC construction contract	N/A	N/A	<p>Property Owner hires contractor to renew or replace house connection and District will pay contractor up to \$10,000.</p> <p>Property owner must fully participate in BWV Program, as determined by the District, to qualify.</p>
5	Existing sewer main with existing house connection to be renewed or replaced under MDC construction contract	N/A	N/A	<p>With Property Owner permission, the District or its contractor will renew or replace house connection at no cost to property owner.</p> <p>Property owner must fully participate in BWV Program, as determined by the District, to qualify.</p>

*\$4,420 – prevailing rate per lateral or inlet

** Renewals to include lining of lateral, require Private Property Inflow Disconnect work with prequalified contractors

Criteria of House Connection Program Scenarios 1, 2 & 3 (New House Connections):

- Properties requiring a new sanitary sewer house connection of 6" abutting an MDC sewer main. Exceptions to the lateral size or type is subject to approval of the Chief Executive Officer or his/her designee.
- Sewer house connections must be built to MDC standards by qualified, licensed, bonded and insured contractors.
- Limit of \$10,000 per property for sewer house connection installation for all work in public right-of-way and private property. Amount owed by property owner will be paid to District over fifteen years with same interest rate as sewer assessments (6%).
- Contracts and/or price quotes between the property owners and their contractors must be submitted to Utility Services for review to verify the reasonableness of the scope of work and/or cost proposal. The District reserves the right to deny any cost proposal. Any increase in the price of construction must be approved by District in order for property owner to receive any increase of District payment to contractor.

- Property owner bound to terms of the written contract with contractor.
- The property owner will be required to provide written acceptance of the completed work in order for the District to issue payment to the contractor. Failure by the property owner to provide written acceptance will not alleviate the property owner's responsibility to pay the contractor for the completed work.
- Property owner shall indemnify the District for all claims for damages arising out of the work performed at the property.
- Property owner will sign a voluntary lien to be recorded on the land records and repay the District by monthly payments as a separate line item on the water bill.
- Any deposit required by the contractor will be the sole responsibility of the property owner.
- No pre-payment penalties
- Funded from a revolving fund in the Assessable Sewer Fund

Criteria of House Connection Program Scenarios 4 & 5 (Existing House Connections)

Maintenance and/or Inspection of Existing House Connections

- The District will offer the property owner a qualified registered contractor to perform sewer rodding and/or CCTV inspection services at no cost to the property owner. Alternatively, the property owner may hire their own contractor to perform the services and the District will reimburse the property owner up to \$200 for a sewer rodding and/or \$300 per CCTV inspection. Reimbursement is contingent upon the property owner contacting Utility Services to arrange for an inspector to be on-site to witness the maintenance. Increases in reimbursement amounts will be subject to approval of the Chief Executive Officer or his/her designee.
- If the property owner chooses to utilize the District's qualified registered contractor, prior to the District's contractor performing any maintenance or inspection services the property owner will be required, in writing, to authorize the District and its contractor to perform the sewer rodding and/or CCTV inspection and release the District from any claims and liability for any damages incurred at the property that resulted from, or were caused by, a blockage within or the condition of the property's sewer house connection.
- The property owner shall also acknowledge in writing that the District is not assuming control or ownership over the house connection.
- Property owner must fully participate in BWV Program, as determined by the District, to qualify.
- Renewals shall be installed for the full length of house connection pipe. Point repairs do not qualify for the Program.
- Sewer house connections renewals must be built to MDC standards by qualified, bonded and insured contractors.

Scenario 4

- Limit of \$10,000 per property for sewer house connection renewal for all work in private property. Any costs above \$10,000 will be the property owner's responsibility and either paid at the time of work or the property owner can enter a

payment plan with the District and sign a voluntary lien to be recorded on the land records.

- Contracts and/or price quotes between the property owners and their contractors must be submitted to Utility Services for review to verify the reasonableness of the scope of work and cost proposal. The District reserves the right to deny any cost proposal. Any increase in price of construction must be approved by District in order for property owner to receive increase of District payment to contractor.
- Owner bound to terms of the written contract with Contractor.
- The property owner will be required to provide written acceptance of the completed work in order for the District to issue payment to the Contractor. Failure by the property owner to provide written acceptance will not alleviate the property owner's responsibility to pay the Contractor for the completed work.
- Property owner shall indemnify the District for all claims for damages arising out of the work performed at the property.

Scenario 5

- If the District is rehabilitating or replacing a main line sewer under a construction contract, private property owners may participate in this program and have their house connection renewed at no cost to the property owner.
- For circumstances where the length of the house connection or other factors make full renewal exceed \$10,000 in cost, the District reserves the right to renew the house connection under Scenario 4 where the District pays \$10,000 and the property owner would be required to pay for any work in excess of the \$10,000 limit.
- For Scenario 5, contracts and/or price quotes between the property owners and their contractors must be submitted to Utility Services for review to verify the reasonableness of the scope of work and cost proposal. The District reserves the right to deny any price proposal. Any increase in price of construction must be approved by District in order for property owner to receive increase of District payment to contractor.

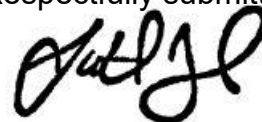
FURTHER

RESOLVED: The District's Sewer Lateral Revolving Fund, established in 2019, shall be renamed the Sewer House Connection Revolving Fund. Funding for Scenarios 1, 2 & 3 of the Sewer House Connection Program is authorized from the Sewer House Connection Revolving Fund.

FURTHER

RESOLVED: Funding for Scenarios 4 & 5 of the Sewer House Connection Program is hereby authorized from the Clean Water Program Rate Stabilization Fund in addition to any applicable grant money.

Respectfully submitted,



Scott W. Jellison
Chief Executive Officer

**BUREAU OF PUBLIC WORKS
REGULAR MEETING
555 Main Street, Hartford
May 31, 2023**

Present: Commissioners John Avedisian, Donald Currey, David Drake, Allen Hoffman, Gary Johnson, Byron Lester, Dominic Pane, Bhupen Patel, Alvin Taylor, James Woulfe and District Chairman William DiBella (11)

Remote

Attendance: Commissioners Andrew Adil, Richard Bush, Joan Gentile and Maureen Magnan (4)

Absent: Commissioners John Bazzano, John Gale, James Healy, Pasquale Salemi, David Steuber and Calixto Torres (6)

Also

Present: Commissioner Jean Holloway
Scott W. Jellison, Chief Executive Officer
Christopher Stone, District Counsel (Remote Attendance)
John S. Mirtle, District Clerk
Christopher Levesque, Chief Operating Officer
Kelly Shane, Chief Administrative Officer
Robert Barron, Chief Financial Officer
Jamie Harlow, Director of Human Resources (Remote Attendance)
Susan Negrelli, Director of Engineering
David Ruttly, Director of Operations
Robert Schwarm, Director of Information Technology
Tom Tyler, Director of Facilities
Michael Curley, Manager of Technical Services
Jason Waterbury, Senior Project Manager
Craig Scott, Manager of Environmental Health & Safety
Carrie Blardo, Assistant to the Chief Executive Officer
Julie Price, Executive Assistant
Dave Baker, IT Consultant (Remote Attendance)
Joseph Szerejko, Independent Consumer Advocate (Remote Attendance)

CALL TO ORDER

The meeting was called to order by Chairman Hoffman at 4:21 PM

PUBLIC COMMENTS RELATIVE TO AGENDA ITEMS

No one from the public appeared to be heard.

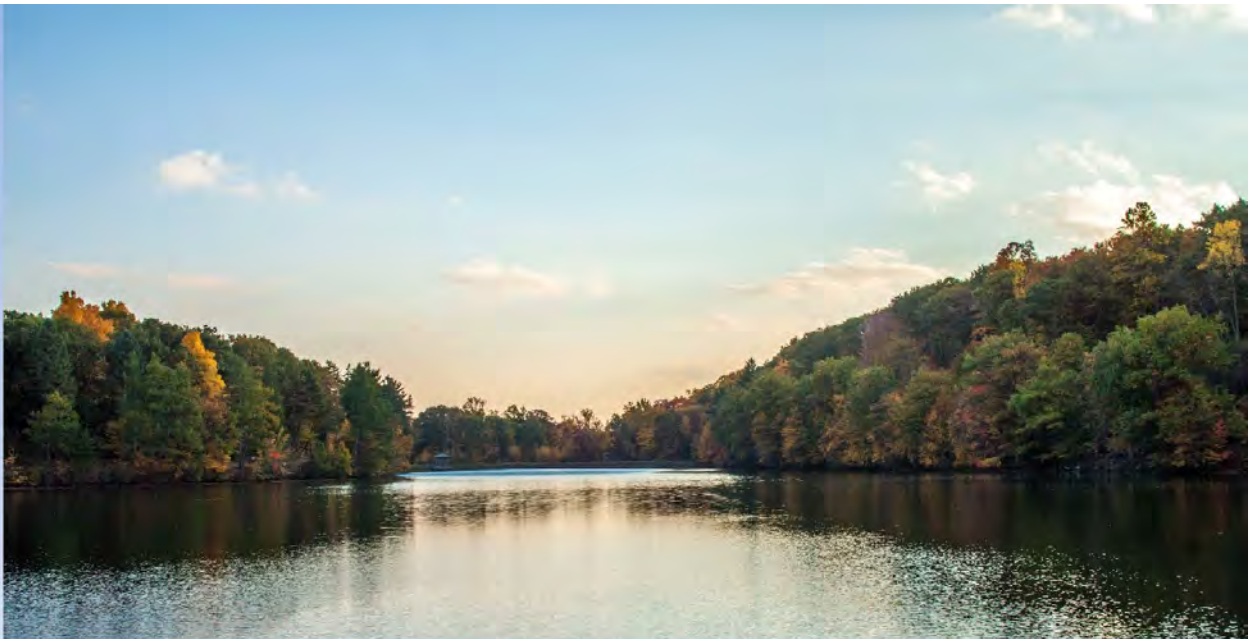
APPROVAL OF MEETING MINUTES

On motion made by Commissioner Currey and duly seconded, the meeting minutes of April 24, 2023 were approved.

Commissioner Pane entered the meeting at 4:37 PM.

OUTREACH TO SIGNIFICANT INDUSTRIAL USERS & MISCELLANEOUS INDUSTRIAL USERS

Chief Operating Officer Chris Levesque presented on outreach to significant industrial users & miscellaneous industrial users.



**District Bureau of Public Works
May 31, 2023**

Agenda Item 4: Outreach to Significant & Miscellaneous Industrial Users

Purpose of Discussion

- Report of Outreach to Significant Industrial Users (SIU) and Miscellaneous Industrial Users (MIU) to obtain Discharge Water Quality Reports and registration
- What are SIUs and MIUs and what permits apply to them
- What pollutants can SIUs and MIUs discharge and effects on District infrastructure and process
- Cost Recovery Rate Structure – Future Proposal based on flow and concentration following outreach

CT DEEP Industrial User General Permits and Individual Permits

- CT DEEP has developed a series of General Permits related to industrial wastewater discharges to Publicly Owned Treatment Works (POTW). Historically CT DEEP has permitted and enforced compliance of all Industrial Users for discharges to Sanitary Sewers.
- Permits for Industrial User Discharges
 - Significant Industrial User (SIU) Discharge General Permit (Discharge >25,000 gpd)
 - Significant Industrial User Individual Permit (Discharged pollutants not consistent with General Permit)
 - Miscellaneous Industrial User (MIU) General Permit (Discharge <25,000 gpd)
 - *Food Service Establishment/ Fats, Oils & Grease (FOG) Discharge Permits
- The District has been maintaining a list of current SIU and MIU dischargers and is looking to complete the list with unregistered dischargers to complete our inventory.
- The District currently charges a one-time Administrative Review fee for the application for each permit and applies a \$150/yr for inspections of the facility.

Example MIU GP Customers

Group I – Process Water Dischargers

- Commercial laundry wastewater
- Contact cooling and heating wastewater
- Cutting and grinding wastewater
- Food processing wastewater (including breweries and distilleries)
- Non-destruct testing rinsewater
- Printing and photographic processing wastewater
- Reverse osmosis reject water
- Tumbling or cleaning of parts wastewater
- Water treatment wastewater

Group II – Non-Process Water Dischargers

- Air compressor condensate & blowdown
- Boiler blowdown wastewater
- Building maintenance wastewater
- Fire suppression system testing wastewater
- Hydrostatic pressure testing wastewater
- Non-contact cooling water
- Potable water system maintenance or sampling wastewaters
- Swimming pool wastewater
- Vehicle maintenance wastewater

Pollutants for Wastewater

- Biochemical Oxygen Demand (BOD)
- Total Suspended Solids (TSS)
- Oil and Grease
- Chemical Oxygen Demand (COD)
- Total Kjeldahl Nitrogen (TKN)
- Ammonia
- Flow (Limits to imported or created discharges)

Pollutants Limits

Pollutants	MDC Limits (mg/L)	DEEP MIU Limits (mg/L)	DEEP SIU Limits - Process/NP (mg/L)
pH	5.5 - 10.0	5.5 - 11.5	5.5 - 11.5
BOD	300 mg/L Strength Charge	600 mg/L or 100.0 lbs/day	600 mg/L or 100.0 lbs/day
COD	700 mg/L Strength Charge	1200 mg/L	1200 mg/L or 200.0 lbs/day
TSS	600mg/L 300 mg/L Strength Charge	600 mg/L or 100.0 lbs/day	600 mg/L or 100.0 lbs/day
TKN	Total Nitrogen 8 lb/day	40mg/L or 8 lbs/day	40mg/L or 8 lbs/day
Nitrate-nitrit		40mg/L or 8 lbs/day	40mg/L or 8 lbs/day
O&G*	100 mg/L	100 mg/L	100 mg/L

Wastewater Discharge Program

Objective: Identify dischargers with compatible pollutants that are above domestic background concentrations and determine the operational and maintenance impact and subsequent costs to the District's collection system and treatment systems.

Costs to recover:

- **Sewer Line and Sewer Pump Station Maintenance and Rehabilitation**
 - Case Study: The District receives an elevated level of BOD from a customer, although the customer pretreats the discharge prior to entering the District's collection system the levels far exceed the domestic background concentrations. While in the collection system the discharge enters a pump station with a concrete wet well. The high concentration of BOD has degraded the concrete walls, piping and valves that has required substantial maintenance and future rehabilitation of the pump station. The District currently recovers cost for this discharge.
- **Water Pollution Control Facility Surcharges and Limits**
 - Case Study: The District receives high levels of ammonia (form of Nitrogen) from a customer, this customer has reported the discharge through the SIU GP process and has received approval from the CT DEEP and the District to discharge. The District WPC department manages Nitrogen Discharges and annually addresses performance through the CT DEEP Nitrogen Discharge Credit program. In this case the Nitrogen concentration far exceeds the domestic background concentrations and has contributed to increased processing as well as costs for Nitrogen credits (HWPCF: 2015 = \$1,033,000, 10 yr avg. = \$525,000). The District currently does not recover cost for this discharge.

Wastewater Discharge Program – Cost Recovery

The District has defined fees for the following:

- Wastewater Surcharge (excessive strength waste) for BOD, COD and TSS applied to SIUs only currently
- Permit Fees
- Inspection Fees

Fees to be developed and presented to BPW in Fall 2023

- Sampling and Monitoring Fees
- Industrial or Commercial Wastewater Rates
 - Based on Facility type
 - Based on Wastewater flow and pollutant concentration (block rates)

Questions?

SEWER CUSTOMER SERVICE CHARGE

Chief Operating Officer Chris Levesque gave a presentation regarding the sewer customer service charge for sewer only customers.



District Bureau of Public Works

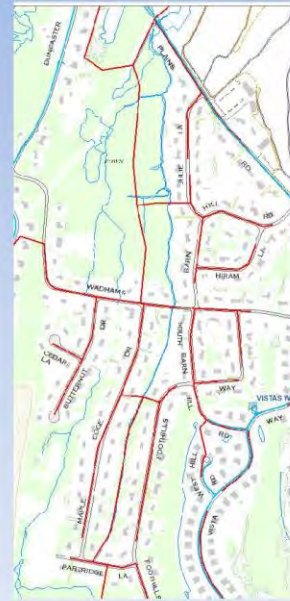
May 31, 2023

Agenda Item 5: Sewer Customer Service Charge (Sewer Only Customers)

Purpose of Discussion

- **Report of Outreach to Sewer Only Customers.**
- **Example of Sewer Only Customers**
- **Next Steps in Outreach**
- **Billing of Customer Service Charge following inventory in January 2024**

Example of Sewer Only Customers



Next Steps

- Perform Inventory of Properties and Property Owners with Sewer Service Only
- Create Customer Information in SAP CIS and begin creating data for future billing
- Communicate with customers following completion of inventory in each town about the District and services provided as a sewer customer. Provide information of future billing and payment options.

Questions?

MUNICIPAL SEPARATE STORM SEWER ORDINANCE

Chief Operating Officer Chris Levesque gave a presentation on the municipal separate storm sewer ordinance.

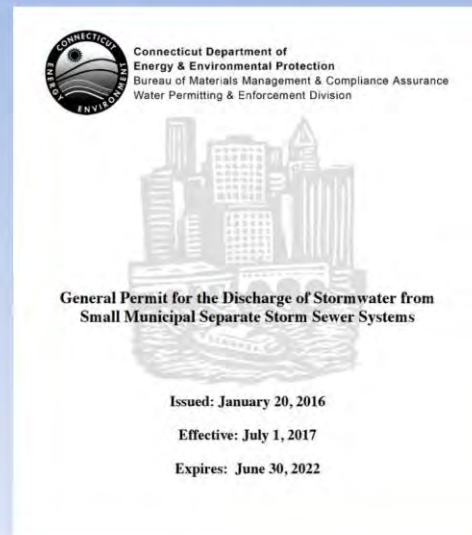


Agenda Item: 6 – Municipal Separate Storm Sewer Ordinance

May 31, 2023

2017 MS4 Permit Requirements for MDC Member Towns

- All CT municipalities within an ["urbanized area"](#) are required to comply with the MS4 General Permit to discharge stormwater into CT's water bodies. The basic requirements of the permit are to:
- 1) Submit a **Stormwater Management Plan** identifying 6 minimum control measures that a municipality will undertake to prevent and/or treat polluted runoff;
- 2) Submit **Annual Reports** to DEEP indicating the progress with implementing that plan; and
- 3) **Monitor the quality** of water bodies.



Purpose of MS4

— Mission Statement from CT DEEP Website:

This general permit requires each municipality to take steps to keep the stormwater entering its storm sewer systems clean before that stormwater enters water bodies. One important element of this permit is the requirement that towns implement public education programs to make residents aware that stormwater pollutants emanate from many of their everyday living activities, and to inform them of steps they can take to reduce pollutants in stormwater runoff.

MS4 BMPs

- BMP 4-4: Construction Site Runoff Control - Conduct Site Inspections:
 - The COH is responsible for the inspection and enforcement of construction site runoff control.
- BMP 6-2a: Minimize the discharge of pollutants to MS4 from parks and open space management:
 - The COH is responsible for the maintenance of its properties, parks, or other facilities that it owns or operates so as to minimize the discharge of pollutants to its storm system.
- BMP 6-9: Develop / Implement Street Sweeping Program:
 - The COH is responsible for developing a SOP for street sweeping and meeting its annual goal of all residential streets of twice/year.
- BMP 6-10: Develop / Implement catch basin cleaning program:
 - The MDC cleans approximately one-third to one-half of the catch basins (CB) in Hartford per year and incurs the associated costs for the disposal of the material at the Manchester landfill.

COH BMP Compliance:

- BMP 4-4: Construction Site Runoff Control - Conduct Site Inspections



Photos taken from Westbrook Village Development (7/9/21 & 7/20/21)

COH BMP Compliance:

- BMP 6-2a: Minimize the discharge of pollutants to MS4 from parks and open space management:



Photos taken from Bushnell Park along Gold Street (7/29/21)

COH BMP Compliance:

- BMP 6-9: Develop / Implement Street Sweeping Program:



Photos taken from Blue Hills Neighborhood (July 2020)

COH BMP Compliance:

– BMP 6-9: Develop / Implement Street Sweeping Program:



Photos taken from Albany Avenue (10/7/21)

Impacts to MDC

- Financial:
 - COH owes MDC for CB Debris Disposal:
 - \$385,000 (approx.) dating back to 2015
 - Additional Cleanings of CB's:
 - 763 Basins = \$101,000 in 2020
 - Additional Cleaning of Combined Sewers (CS):
 - Columbus Blvd Siphon = \$1,069,400 in last 7 years
- Regulatory:
 - Debris in CS system leads to increased CSO volumes/events
- MDC Installation of CB Grates (2022)



- Per Hartford WPCF NPDES Permit, MDC creating a new sewer ordinance which will:

- Prohibit the construction of new combined sewers
- Prohibit the connection of new inflow sources to the existing combined sewer system, or to separated sewers in Hartford upstream of the combined sewer system.
- Require compliance with the City of Hartford's Planning and Zoning regulations with regards to stormwater management.
 - This includes, but isn't limited to, a zero-net increase in stormwater discharge (peak flow rates) from newly developed parcels in 2, 10, 25, and 100-year storms.

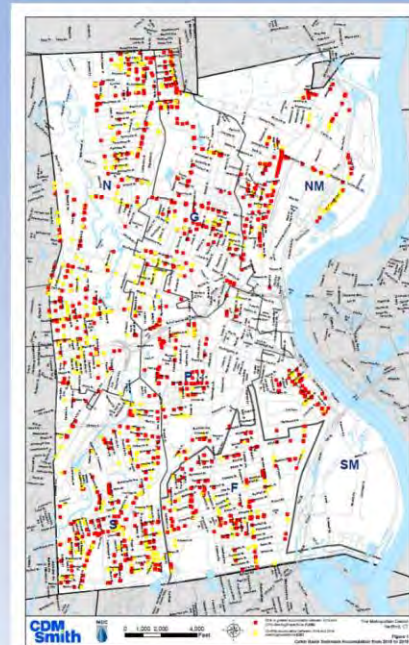
Control Measures

1. Public Education and Outreach
2. Public Participation and Involvement
3. Illicit Discharge Detection and Elimination
4. Construction Site Runoff Control
5. Post Construction Stormwater Management in New Development and Redevelopment
6. Pollution Prevention/ Good Housekeeping for Municipal Operations
7. Monitoring Requirements

[illegible]

Major Control Measure Contribution from MDC

BMP#	Description	Activity
3-2	Develop list and maps of all MS4 stormwater outfalls in urbanized and priority areas	MDC provided a list and map of all MDC Outfalls and known COH Outfalls on XX-XX-XX
3-3	Develop a program for citizen reporting of illicit discharges	MDC utilized existing notification system and process through MDC's Command Center
6-3	Implement coordination with interconnected MS4s	MDC provided a list and map of storm sewer and known and unknown ownership to the COH for review on XX-XX-XX
6-10	Develop / Implement catch basin cleaning program	Completed in 2016 prior to start of MS4. Prior to cleaning of catch basins, the Maintainer records depth of debris in Sump. Results of catch basins with % full is reported to the COH for adjustment to street cleaning program
7-1	Screen all outfalls that discharge to impaired waters: beginning screening	MDC has completed the required 43 outfalls in 2018/19/20. Analysis results were provided to COH for annual reports.



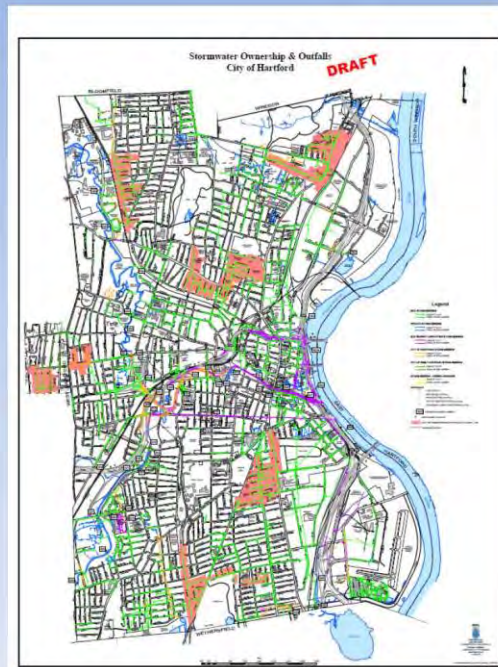
Communication with Hartford and CT DEEP

City of Hartford

- MDC has submitted all required data to the City prior to the City's required annual submittal of their MS4 plan to CT DEEP
- MDC has completed a DRAFT MOU on provided the MOU to the City on August 6, 2018
- MDC has provided the City in 2020 with a Draft Map of all stormwater pipes and determined ownership

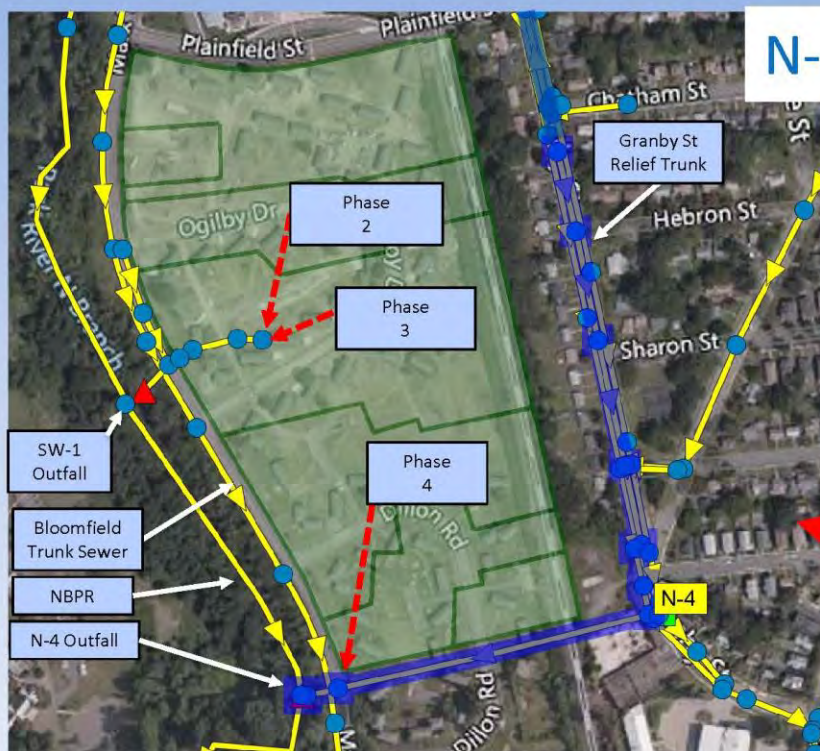
CT DEEP

- MDC has provided letters in 2017/18/19 to CT DEEP requesting support to address the deficiencies identified in the City's MS4 Plan and DEEP's direction regarding intermunicipal coordination.



Westbrook Village Development - Simulations

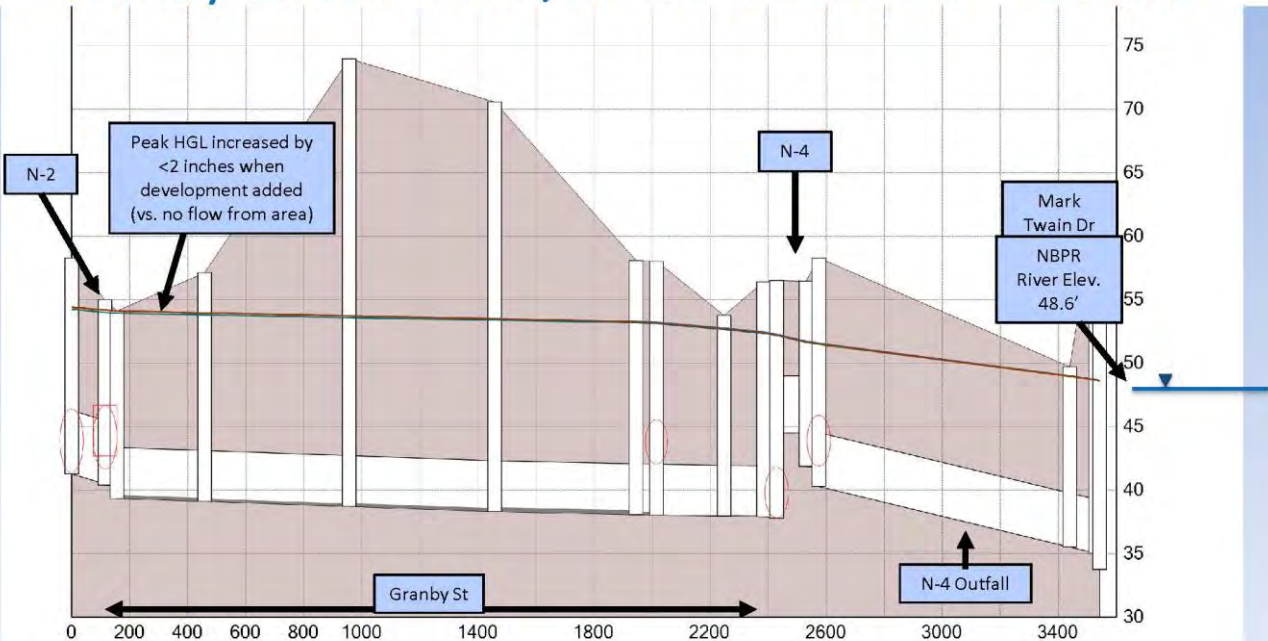
- The District received a request from the developer for Westbrook Village (Mark Twain Dr, Hartford) for new storm water infrastructure and connection to the District's Combined Sewer Overflow Outfall Pipe.
- The District evaluated the effect the connection and proposed development would have on the proposed development as well as current areas with known system surcharges and street flooding upstream of the development. We also evaluated the flow in the pipe related to the North Branch Park River elevations and identified that the River currently restricts the flow during a 10-yr event and will require future dredging.
- Simulated 10-yr CSO storm & river elevated to 10-yr flood (~Elev 49.0)



N-4 Outfall Simulation

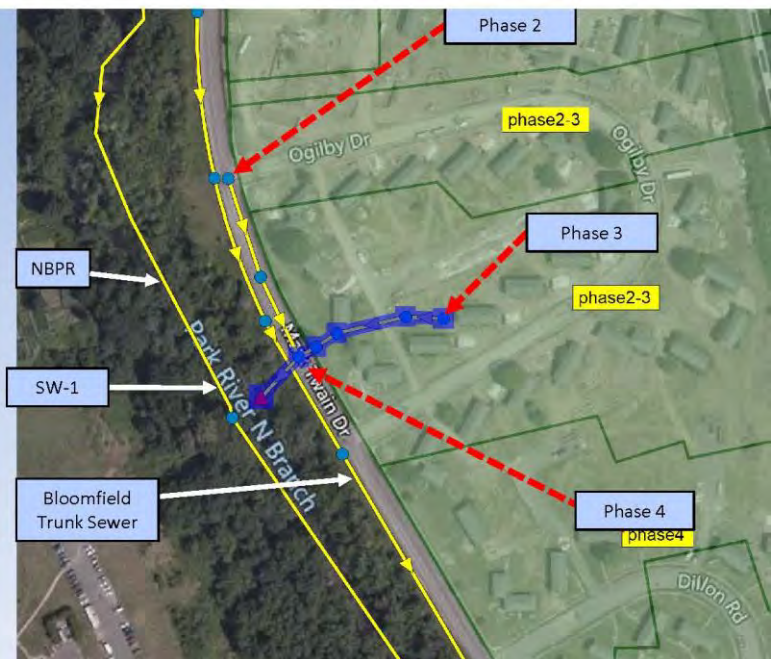


Granby Street Trunk/Relief Trunk & N-4 Outfall

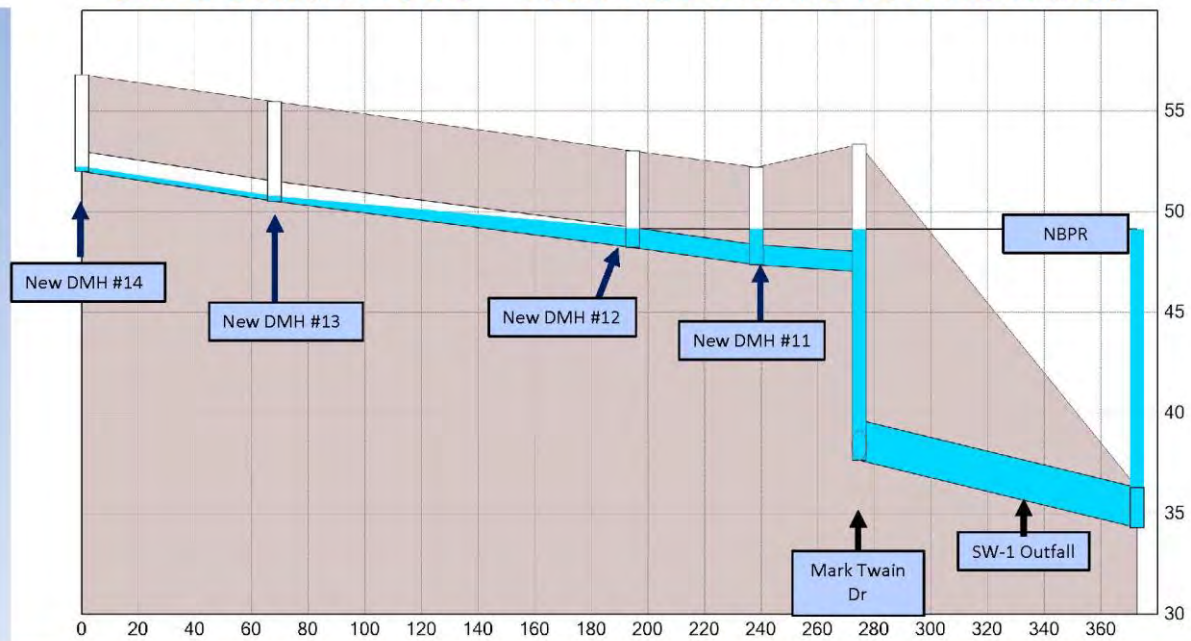


Phase 2 & 3 Simulation (with and without Phase 4 to SW-1)

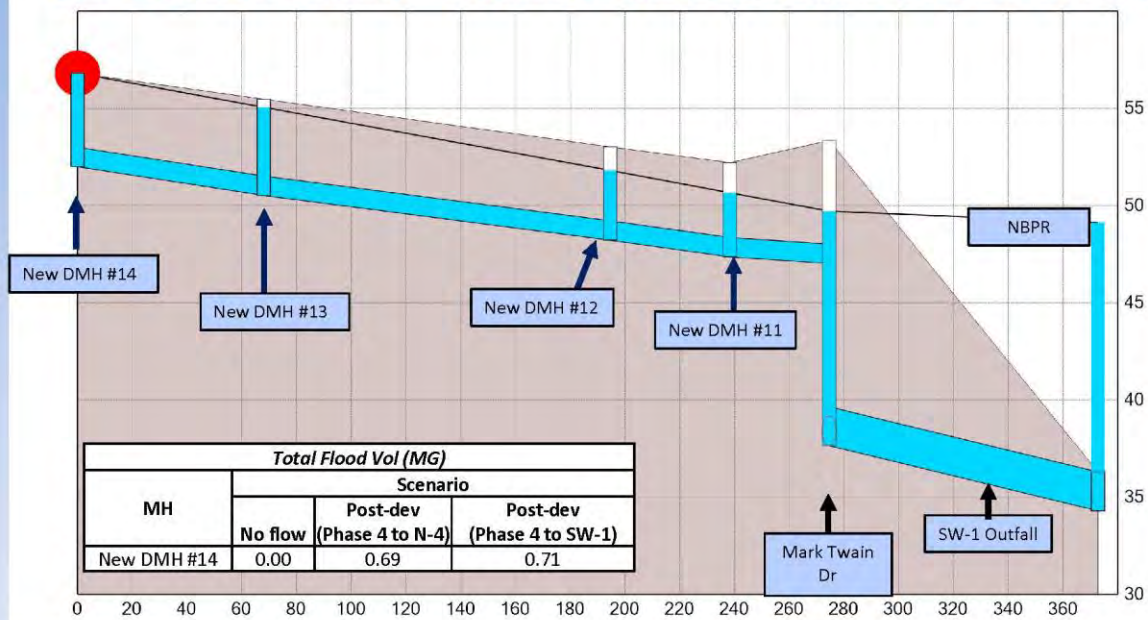
- Added the most downstream proposed storm drains in Phase 3 to model, highlighted in figure



SW-1 Outfall Profile – Peak HGL with no flow from area



SW-1 Outfall Profile – Peak HGL with flow added from Phase 2/3/4



Flood Control Oversight

Greater Hartford Flood Control Commission Rules and Regulations

- 1.A – For purposes of properly managing the flood plain district and flood control infrastructure in Hartford, and to comply with Article I, Section 28-Drainage channels and floodplains, and Article III, Division 21-FP Flood Plain District of the City of Hartford Zoning Regulations, or the most current ordinances adopted by the City of Hartford, all development activities the Flood Plain District shall require approval by the Greater Hartford Flood Commission (GHFC). Prior to the activity commencing the applicant shall apply for and shall in no way guarantee flooding cannot occur beyond the floodway or flood plain limits.
- 1.C – The Flood Plain District is delineated on the FEMA Flood Insurance Rate Maps (FIRM) on file in the Office of the Town Clerk of Hartford and with the Greater Hartford Flood Commission, and is subject to the jurisdiction of the GHFC's Rules and Regulations as described herein. The Flood Plain District on the North and South Branches of the Park River is defined by the greater of the "Required Flood Storage Area below Elevation 51.92 NGVD as noted in a Formal Agreement between the Army Corps of Engineers and the City of Hartford", and all other FEMA flood zone classifications designated on the FIRM Maps.
- Significant Flood Plain District activities include construction of new dwellings or commercial buildings.

OPPORTUNITY FOR GENERAL PUBLIC COMMENTS

No one from the public appeared to be heard.

COMMISSIONER REQUESTS FOR FUTURE AGENDA ITEMS

District Chairman DiBella let staff and the Bureau know that we will need to bring back the North Hartford flooding issue and DEEP consent order modification to BPW, Board of Finance, then the District Board, once we have a response from DEEP.

Commissioner Currey asked for clarification from Attorney Stone on the April 24, 2023 BPW minutes where S3c states "the District" and "a District" and whether those are both referring to Metropolitan District capital improvement projects.

ADJOURNMENT

The meeting was adjourned at 5:27 PM

ATTEST:

John S. Mirtle
District Clerk

Date of Approval