



2022 Drinking Water Revolving Fund (DWRf) Project Plan Addendum Public Notice

The City of Hamtramck has made an addendum to the 2022 Drinking Water Revolving Fund (DWRf) Project Plan. Sections 2 and 5 of the final project plan have been revised and are included in this public notice. The Department of Environment, Great Lakes, and Energy (EGLE) require that the project plan addendum sections be available for the general public to review and comment upon for at least 30 days. The 30-day public comment period begins on June 8, 2022, and will be posted on the city website until July 8, 2022.

Public comments may be dropped off at the Department of Public Works (DPW) office located at Hamtramck City Hall 3401 Evaline St. Hamtramck, MI 48212, or sent via email to Hamtramck@hengineers.com

Very Truly Yours,

HENNESSEY ENGINEERS, INC

A handwritten signature in blue ink, appearing to read 'T. Neubig', is positioned above the printed name.

Tiffany T. Neubig
Project Manager

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D. Updated Need for the Project (5/26/2022)

Due to recent changes to the Lead and Copper Rules within the Safe Drinking Water Act 399 of 1976, the City of Hamtramck is now required to complete full water service line replacements where lead or galvanized water services exist from the existing water main or newly installed water into the existing dwelling for each property regardless of public or private property. Previously, for new water main installations, the City would replace the portion of the water service line from the new or existing water main to the curb stop box located at the right-of-way line, typically called a partial service line replacement. The portion of the service line from the right-of-way line to the dwelling was the responsibility of the homeowner to maintain.

The Lead and Copper Rule (LCR) is to protect public health by minimizing lead and copper levels in drinking water. Lead and copper can enter drinking water mainly from corrosion of lead and copper plumbing materials if proper corrosion protection chemicals are not introduced into the drinking water system. The rule establishes action levels for lead and copper-based on a 90th percentile level of tap water samples. All community water supplies are subject to the LCR requirements.

The changes to the LCR requirements effective in June 2018 require communities to replace all lead and galvanized water service lines at an average rate of 5 percent per year beginning in 2021, not to exceed 20 years, or by an alternate schedule incorporated into an asset management plan and approved by EGLE. The full lead service line must be replaced by the water supply at the water supply's expense, regardless of ownership.

The City of Hamtramck (City) developed an Asset Management Plan (AMP) for its water system through the Michigan Department of Environment, Great Lakes, and Energy (EGLE). Part of the AMP includes completing an inventory of assets associated with the wastewater facilities and performing a condition assessment of the assets to identify the current condition, useful life, value, and capital improvement plan (CIP).

Through the capital improvement plan, the City has elected to replace 5 water mains and install a new watermain looping project utilizing the City's water and sewer funds as the existing mains are greater than 100 years old and are areas that have had multiple watermain breaks and the streets are scheduled for the resurfacing pavement program in the CIP of the city of Hamtramck.

The selected watermain projects will now incorporate lead service line replacements and not be separated out between the two loans at these locations. In addition, the Caniff Ave. watermain replacement project will be broken into two phases and bid out as two separate contracts. This is to try and bring the cost of both the watermain and lead service line replacement cost down at the time of bidding. In addition, the city will include a lead service line replacement alternate bid to be selected in the event of watermain project bids coming in higher than expected to allow for the city to make a fully informed decision that is feasible for the city to complete given the cost of the bids. The lead service line alternate will be for approximately 490 service lines, and bid out through 3 contracts, with each contract covering a 3 year period.

The lead service line replacement loan will be along approximately 16 streets and will NOT include coordination with the watermain replacement projects to ease construction constraints and coordination.

However, due to the recent changes to lead service line replacements as part of the Lead and Copper Rule, the City is now required to replace all lead and galvanized water service lines affected by these projects, a cost not budgeted for affordable to the City at this time. *Therefore, the DWRF loan **EGLE No. 7604-01** is to complete lead service line replacements through various locations in the city.* There are approximately 600 water services that exist along various roads, all water services are either known or unknown to be lead or galvanized as records do not exist for a majority of the city. This will also allow the City to be in accordance with the requirement to replace service leads at a rate of five (5) percent per year at a minimum and allow the City to better budget for future service lead replacements. Four road locations were removed from this contract and added to the EGLE No. 7603-02 contract, additional locations will be added throughout the city to complete the service line replacement program.

*As a result of the CIP, the city is applying to obtain a Drinking Water State Revolving Fund (DWRF) loan **EGLE No. 7603-02** to assist in completing further improvements to the water system. The watermain improvements will increase water quality, as these mains are well above their useful life, and many have experienced multiple breaks. The Goodson Watermain will be built with the Phase 1B sewer relief project being installed along Goodson St. from Joseph Campeau to Lumpkin.*

V. Evaluation of Environmental Impacts (Addendum 5/26/2022)

The projects involve the replacement of lead and galvanized water service lines from the water main into the dwelling in conjunction with the replacement of five (5) watermain projects and a watermain looping project in the City of Hamtramck. The lead service line replacement is per the revised Lead and Copper Rules within the Safe Drinking Water Act 399 of 1976 pertaining to the full or complete replacement of known lead and galvanized water services regardless of ownership.

A. Description of the Impacts

1. Beneficial and Adverse Impacts

a. Lead Service Replacement

The positive, long term, beneficial impacts of the proposed projects are the following:

- Improve the quality of drinking water distributed to the residents and businesses of the City of Hamtramck along sixteen (16) areas through DWRP Loan 7301-01 and along fifteen (15) areas through DWRP Loan 7401-01.
- Improve the reliability of the water distribution network.
- Replace aging drinking water system infrastructure and remove potential lead contaminants from the existing system.
- Comply with the Safe Drinking Water Act 399 of 1976 and current Lead and Copper Rules.
- Removal of potential lead contaminants from the drinking water supply

The negative impacts of this project are only short-term and include temporary inconvenience to the general public who reside or frequent businesses along the proposed routes.

The work proposed involves directional drilling of new water services therefore there are no adverse impacts to environmentally sensitive features and the State Historical Preservation Office is in concurrence that no cultural or historical significance will be encountered during this project.

b. Watermain Replacement Projects

- Improve the quality of drinking water distributed to the residents and businesses of the City of Hamtramck along five (5) areas.
- Improve the reliability of the water distribution network.

The negative impacts of this project are only short-term and include temporary inconvenience to the general public who reside or frequent businesses along the proposed routes.

The work proposed involves pipe bursting or directional drilling of four (4) new watermain and open-cut installation of one (1) new watermain, therefore there are no adverse impacts to environmentally sensitive features and the State Historical Preservation Office is in concurrence that no cultural or historical significance will be encountered during this project.

c. Watermain Looping Project

- Improve the quality of drinking water distributed to the residents and businesses of the City of Hamtramck along one (1) watermain project.
- Improve the reliability of the water distribution network.
- Adding Redundancy to the system to allow the southern portion of the city to remain online if a break occurs.
- Adequate pressures would be provided, meeting minimum fire flow requirements.

The negative impacts of this project are only short-term and include temporary inconvenience to the general public who reside or frequent businesses along the proposed routes.

The work proposed involves directional drilling of a new watermain therefore there are no adverse impacts to environmentally sensitive features and the State Historical Preservation Office is in concurrence that no cultural or historical significance will be encountered during this project.

2. Short Term and Long-Term Impacts

Even though the short term impacts can be a nuisance to the general public, including noise pollution, air pollution, temporary road and driveway closures, and so forth, the long term impacts greatly exceed the short term impacts as the long term impacts are seen as positive, beneficial impacts improving the water distribution system, public health and the quality of life for residents and businesses along and adjacent to proposed mains and water services being replaced and will provide for greater reliability of the distribution system.

3. Irreversible or Irretrievable Resources

This project will not impact any water resources, wetlands, floodplains, coastal zones, or environmentally sensitive habitats. The proposed project is within completely built-out areas with residential and commercial development along and adjacent to the proposed construction sites. Therefore, irreversible nor irretrievable resources are not applicable to this project.

B. Analysis of the Impacts

1. Direct Impacts

a. Air Quality

During the course of construction, maintaining good air quality will be of importance for the safety and health of the citizens of Hamtramck. Mitigation of the impacts of air quality

are described in detail within Section VI of this project plan. Short term impacts to air quality will include:

- Emissions from Construction Equipment
 - Several pieces of equipment will be on site for the proposed projects. For open cut excavations where access pits will be installed to allow for the installation of new water services by means of directional drilling and pipe bursting, at a minimum, an excavator, dozer, loader and pickup trucks will be on site running throughout the day while work is taking place. For trenchless rehabilitation work, far less equipment will be required on the site. All equipment on site during all phases of construction will produce emissions into the air.
- Dust and Particulate Matter
 - For areas involving excavation of the site, dust and particulate matter may enter the air as the ground is disturbed and either stockpiled or transferred to trucks to be hauled away. In addition, sand and stone materials being brought to the site and stockpiled for bedding and backfill material may also allow dust and particulates to enter the air when winds increase.

There are no long-term impacts to air quality for this project.

b. Archeological, Historical, and Culturally Significant Resources

The City of Hamtramck submitted a State Historical Preservation Office (Section 106) Application in 2019 and submitted requests at that time to 14 tribal agencies throughout the State of Michigan to obtain information about any historical or cultural significance known throughout the City of Hamtramck that may impact the proposed construction.

Based upon the information we have received back in 2019 from certain agencies, it does not appear any historical or cultural resources will be impacted by the proposed project. However, Section VI of this project plan presents the procedures if historical or cultural artifacts or significance is identified during the course of the project.

In addition, the proposed project does not involve any work within or adjacent to any parks or recreational facilities within the City.

c. Groundwater and Surface Waters

The existing groundwater within the City of Hamtramck is typically identified to be within several feet below the surface. There are no surface waters or shorelines located in Hamtramck. Impacts involving the proposed projects include the following and the mitigation efforts for these impacts described in detail in Chapter VI of this project plan.

- Dewatering
 - Replacement of water services and mains will utilize trenchless technologies with access pits located at the connection to the water main, at the location of the water shut off box at the right-of-way line, and nearest the structure being provided service. It is not anticipated dewatering will be required for access pits, as it is assumed access pits will be no more than approximately six (6) feet in depth.
- Soil Erosion and Sedimentation Control
 - For any necessary open-cut excavation, special attention will be required when stockpiling excavated materials in addition to other material stockpiles and their locations to not interfere with existing drainage patterns and transfer particulates into the drainage system.

d. Sensitive Features

The City of Hamtramck had submitted correspondence to the United States Fish and Wildlife Service in 2019. The Michigan Natural Features Index and the Michigan Department of Environmental Quality to identify any endangered species that may exist within the City that may be impacted during construction and to identify any floodplains or wetlands within the City. Furthermore, the City has researched current Federal Emergency Management Agency floodplain maps for Wayne County updated in February 2012 and consulted recent wetlands inventories to identify existing wetlands and floodplains. It does not appear based upon the information compiled that any of the proposed work will take place in a designated floodplain or wetland. In addition, no agricultural lands exist within the City of Hamtramck. However, if endangered species would become impacted, the procedures to mitigate are presented in Chapter VI of this project plan.

e. People and the Economy

The largest impact of the proposed projects is the inconvenience to the general public and to commercial businesses within the City. The proposed projects will create several short-term impacts and are listed below. The mitigation efforts to prevent as much inconvenience as possible to local residents and business owners is presented in detail in Chapter VI of this report.

- Noise
 - During the course of construction, the noise level will be increased with the amount of equipment on-site and power tools being used. Truck traffic, at

times, can be continuous hauling material in and out of the job site throughout the day.

- Traffic Closures and Detours
 - Where water service and watermain replacement work is taking place within or near road right-of-ways, roads may have to be partially or completely closed to vehicular and/or pedestrian traffic. In addition, for trenchless technology installation, equipment and vehicles will have to be parked within the road right-of-way for a specified period of time.
- Proximity to Schools and School Bus Routing
 - Special consideration will have to take place with road closures, barricading of the site, and cleanliness of the site when working in the vicinity of a school. In addition, the revised routing of school buses and pedestrian traffic to school will have to be addressed.
- Proximity to Nearby Businesses
 - Special considerations will have to take place with road closures, drive approach closures and parking lot entrance closures, barricading of the site, and cleanliness of the site when working in front of or adjacent to a business to prevent any loss of business to the establishment during the course of construction and to provide a safe route to the business. Temporary access may be needed for certain businesses during construction.
- Service Delivery
 - Closures may result in the re-routing or postponement of garbage pick-up, mail delivery, parcel delivery, and other deliveries to residences and

businesses. Access for emergency vehicles and access for handicapped or disabled persons will also need attention.

- Haul Routes
 - Consideration must be taken to establish haul routes that impact the least amount of residents and businesses.
- Temporary Loss of Service
 - During the replacement of the water service line and the watermain, there will be a period when service is interrupted to the dwelling being serviced by that service lead or main. Homeowners will be notified at least 48 hours in advance of any water shut offs.
- Temporary Loss of Driveway Access
 - Dependent upon the location of work taking place, driveway access may be temporarily unavailable until all work is complete.
- Private Property Access
 - To complete this work, the City will have to gain access to private property and enter all structures to make the connection of the new water service to the existing plumbing within the structure. A waiver will have to be signed by the property owner to allow this work to take place on private property.
- Aesthetics
 - To keep complaints to a minimum, and allow for people to find residences and businesses easily without being distracted, the job site must be kept as clean as possible and disturb as little as possible of the existing surface features.

f. Operational Impacts

Operational impacts for this project will be minimal. While the water service is being replaced from the existing main to the dwelling; there will be a brief interruption of water service for those directly affected. The shutoff will be within one working day. Otherwise, water service will remain in service without interruption throughout the City's system.

Operational impacts for this project will be minimal. To maintain water service during the installation of pipe bursting, a temporary above ground water service will be provided and maintained and operated continuously during the course of construction for those residences and businesses that are directly connected to the water main being replaced. While the water service is transferred from the existing main to the temporary water service and when service is transferred back to the water main following successful testing of the water main after pipe bursting installation; there may be a brief interruption of water service for those directly affected along the work area. Otherwise, water service will remain in service without interruption throughout the City's system.

2. Indirect Impacts

The indirect impacts of the proposed projects are the improvements to the existing infrastructure to extend the useful service life of the water distribution system and provide for a more reliable water distribution network. The proposed work will improve the quality of life, improve public health, increase value of real estate properties, and comply with the Safe Drinking Water Act 399 of 1976.

3. Cumulative Impacts

The replacement of water mains will not only benefit the residents and businesses along and adjacent to where water mains are being improved but will also benefit the entire City's water

distribution network. The adverse cumulative impact of the project is the costs associated with the project to be borne by the city through their water and sewer funding.