

2021 PPII Work Plan

This checklist / template serves as the standard form for submitting a Work Plan to MMSD as a request to commit funds from your Municipal Funding Allocation Account to a project proposed for reimbursement through the MMSD PPII Reduction-M Program. If approved, the Work Plan will be the basis for a Funding Agreement between the municipality and MMSD. Please complete all fields comprehensively and submit this electronically-fillable-form and supporting document attachments via email.

I. CONTACT INFORMATION

Municipality		
Applicant Name:	City of Milwaukee	
Mailing Address: 841 N. Broadway, Room 821 Milwaukee, WI 53202		
Phone #: 414-286-2400	jkrusc@milwaukee.gov _{Email:}	
Primary Contact: Robert Seleen, P.E.	Primary rselee@milwaukee.gov Contact email:	
Primary contact 414-286-2465 phone #:		
Consultant (if applicable)		
Firm:	Consultant's PM's Name:	
Consultant Email:	Consultant Phone number:	

II. PROPOSED SCOPE OF WORK

1. What type of work will be included in this work plan application? Check all applicable.			
□ Planning □ Investigative □ Construction/Rehab □ Post Project Evaluation □ Training			
Other			
 What is the total value of the request by the municipality for funding through the PPII program for work outlined in this work plan? \$ 566,000.00 			
3. Provide the scope of work that will be included in this work plan.			
The City owned sanitary sewer mains within the project area will be cured-in-place pipe (CIP) lined as part of this work. After the CIPP work is completed the sanitary sewer laterals will be chemically grouted from their connection point to the sewer main for a length of up to 15 feet towards the home. Also included in this work plan is the televising of sanitary sewer laterals and light cleaning of sanitary sewer laterals.			
 What entity is responsible for each work scope item e.g. municipality staff, consultant, contractor, District, etc. 			
The City of Milwaukee will be generating its own contract, plans, and specifications for the main line CIPP and lateral grouting project. All copies of plans and specifications will be provided to MMSD prior to awarding a contract for their review and comments. The project will be inspected by City of Milwaukee public works inspectors which will be on site during construction documenting the progress and work completed. Daily construction reports and photos will be available for viewing of the work performed by the contractor. City of Milwaukee Environmental Engineering staff will also periodically inspect the site.			
5. What is the total number of properties in the project area? 277			
6. What is the assumed number of participating properties? 277			
7. What is your justification for the assumed participation rate?			
 Prioritization of properties Assumed percent of total Existing ROE agreements based on investigative work Dother (Fill in Blank): 			
Dage 2 of 11			

III. PROJECT AREA CHARACTERISTICS

1.	What is the predominant age				
	of the homes in the project	🗌 Pre 1940's	■ 1940 – 1960	□ 1961-1980	🗆 1981-Present
	area?				
2.	What is the average lot size w	ithin the project a	rea? 0.1	8	SF 🖸 Acres
3.	In this area, is it typical that fo	oundation drains a	re connected?		🛛 Yes 🖬 No
4.	What sewershed(s) or meters	hed(s) is this proje	ct located in?		
Sewershed# MI5144					
5.	Collection system characterist	ics in project areas	s:		
	Approximate year sanitary	Host Pipe Mater	ial(s):	Pipe Size(s):	Pipe Shape(s):
	sewer was installed:	■ VCP	Ductile Iron		Circular
	1954	Cast-Iron	Concrete	8"-21"	□ Other
		□ Asbestos	□ PVC		
6.	Within the project area, is the	mainline rehabilit	ated?		🗆 Yes 🔳 No
	If "Yes," provide details on the used, and if any rehabilitation		-		

7.	7. Will public infrastructure work be contracted or completed with the priva		
	property work?		

If "Yes", provide details of the public work.

As part of this project The City of Milwaukee will install Cured-In-Place Pipe (CIPP) in the sanitary sewer main. After the CIPP is completed the contractor will clean, televise and chemically grout the private sanitary laterals. The mainline rehabilitation portion of the project contains 8,419-feet of 8-inch CIPP, 460-feet of 12-inch CIPP, 838-feet of 15-inch CIPP, 395-feet of 18-inch CIPP, and 2360-feet of 21-inch CIPP.

8. Include with your application, two maps; one of the limits of the sewershed(s) or metershed(s) the project is in, and one of the project limits. The maps shall meet the following requirements.

- Maps shall use a streets or aerial view as base map.
- Major street names shall be labeled and legible.
- Limits of the sewershed(s), metershed(s), and project limits shall be defined by a bold red line.
- Sanitary and storm system line work shall be shown at a scale appropriate to the scale of the drawing
- A north arrow and legend shall be included.
- Maps shall be between 5 and 40 scale and to a standard paper size i.e. 8.5"x11, 11"x17", etc.
- Maps shall be submitted as PDF electronic files.

IV. PROJECT JUSTIFICATION

1.	Has any planning and/or investiga	itive work within	the project area been c	ompleted to	🗖 Yes 🗖 No
	date? (i.e. Flow monitoring, inter flooding/backup issues in the area		tions, sewer CCTV, analy	vsis of	
	If "Yes," was the work completed	through a previo	ous PPII funding agreeme	ent?	🗖 Yes 🗉 No
	If the answer is "Yes" to both que and funding agreement reference		•	•	mes
	If work was completed independe in electronic format and list the na			ort(s) with appli	cation
	e City has CCTV examined the solution the solution of the solu	•			
2.	Describe how the project area and	d approach was	chosen and prioritized.		
	high percentage of the properties				
	ackwaters) between 2012 throug				
-	stem along with rehabilitating an nount of I/I entering the system, a		-		duce the
	iount of in entening the system, a				
3.	What is the status of all project ar		/metershed(s) as related	d to the District	Chapter 3
	rules for wet weather performance	er.			
	□ Non-compliant	ompliant	Inconclusive	🔳 Not Ana	lyzed
	If "Noncompliant," has PPII work I			ct Area metersł	ned(s)? If yes,
	provide details on the scope of wo	ork completed al			
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4.	Does the municipality have any permitted (or unpermitted) wet-weather bypass locations in the project area?	🗆 Yes 🗉 No
	If "Yes," provide approximate frequency and average volume per frequency for over the I	ast ten years.
5.	Does the project area have a history of CSOs or SSOs?	🗆 Yes 🔳 No
	If "Yes," provide the frequency of occurrences over the last ten years.	
6.	Does the municipality have recurring basement backup reports in the project area?	🔳 Yes 🗌 No
	If "Yes", please provide the average annual number of reports in the last ten years and th	e
	estimated storm recurrence interval that typically causes basement backups.	
	ut of the 277 properties within this area, 12% (33 properties) experienced sewer bac	
	tween 2012 through August of 2022. The high number of reported backups indicate cessive inflow and infiltration (I/I) problem.	es an
7.	Do you have metering, lift station run time, bypass pumping, basement	- go to item 8
	backup, or any other pre-project baseline data?	- go to item 9
8.		
	location, and date ranges. If a MMSD meter is used as a source for this data, provide me location.	ter name and
Th	e City has installed flow monitors recently in this basin and pre rehabilitation data w	vill be
ava	ailable for review. Once the project is completed, the post lateral rehabilitation flow	will be
	onitored and compared to the pre-rehabilitation flows. This information will be provic MSD. The City also has call center data showing the reported basement backups in	
	bugh it is believed the vast number of backups now go unreported.	uns alca,
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9.	Do you plan on collecting pre-project baseline data as part of this project?

10. Describe the pre-project data that will be collected to provide a baseline for improvement? If you intend to use the MMSD portable meters, list the quantity, expected time frame installation and monitoring period.

Pre-construction flow monitoring data is being collected by the City within the project limits. This flow monitoring data can be sent to MMSD's consultanting engineers at their request prior to the start of construction.

11. How do you intend to report project performance results? (metrics and target objectives of the project)

Pre construction flow monitoring data will be compared to post construction flow monitoring data. Pre and post-construction surge level indicator data will also be compared. The City anticipates that the peak flow rate during rain events will decrease. This anticipated decrease in flow will ultimately lower the amount of I/I in the sanitary sewer, this should be reflected in surge level readings, therefore reducing the chance of basement backups.

V. PROJECT GOALS

1. What are the municipality's goals and objectives for the completed project? Please provide qualitative and quantitative measurables for success as they relate to the goals and objectives.

The main objective for this project is to eliminate additional sources of I/I by lining the public main sanitary sewer mains and chemically grouting the sanitary sewer laterals up to 15-feet from the sewer mainline.

Prior to any rehabilitation work that will take place the City will send flow monitoring data to MMSD consultants to be analyzed prior to the start of construction. That data will be compared to post construction flow monitoring data. The City anticipates that the peak flowrates during rain events will decrease. This anticipated decrease in flow will ultimately lower the amount of I/I in the sanitary sewer, therefore reducing the chance of basement backups.

The City's EES will prepare the project plans and specifications for work on private property.

VI. SCHEDULE

Include a schedule of the work with all major tasks and milestone dates for completion including District and municipal administrative approvals, local board/council approvals, work task start and finish, public outreach, deliverables, and reimbursements. The schedule needs to be realistic and achievable based on District approval timelines, local approval timelines, bidding process timelines, work production rates, and weather-related considerations. Identify and highlight any milestone dates by which the municipality is requesting the District to meet to keep your schedule (e.g. local council or board agenda deadlines). Provide the schedule in PDF format.

VII. FINANCIALS

1.	Include a comprehensive cost estimate broke down to the task level which includes costs for: all internal municipal staff time which is being requested to be reimbursed, professional services including hours estimates and rates, construction costs by estimated units and estimated unit costs, inspection services, public outreach, and staff training. Attach an Excel version of the estimate to the application when submitting.
2.	Are other funding sources, besides MMSD PPII funds, contributing to the total project I Yes I No cost? i.e. municipal funds, grant funding, property owner cost share, etc.
	If "Yes," list all addition funding sources, the specific work which will be covered by an additional funding sources, and the value.
	y additional funds that are not covered by MMSD will be paid for by City of Milwaukee funds. All ditional cost, including public outreach and engineering will be paid by the City.
3.	Describe your anticipated frequency of reimbursement requests to the District. (The funding agreement terms may dictate this frequency depending on the type of work).
The	e City anticipates to submit reimbursement requests for materials every three weeks.
4.	What department/individual/entity will be submitting and processing the reimbursement requests? Please include the name and contact information.
Cit	y of Milwaukee/ DPW -Infrastructure Services Division/ Administration department
	me:Yuliang Cao nail: ycao@milwaukee.gov

Date: 09/22/22

5.	MMSD requires all invoicing to be submitted via e-Builder. Will e-Builder training be		
	necessary for the department/individual/entity that will be submitting and processing		
	the reimbursement requests?		

🗌 Yes 🔳 No

6.	Describe the municipal process(es) for procurement of all professional and non-professional (field work
	and construction) components of work and the basis for each.

The City of Milwaukee will be generating its own contract, plans, and specifications for the combined public sewer lining and lateral grouting project. All copies of plans and specifications will be provided to MMSD prior to bidding for their review and comments. Once the bid results are received they will be delivered to MMSD.

7. Explain the means and methods for segregating the costs (MMSD reimbursable costs and public work costs).

The City of Milwaukee will be generating its own contract, plans, and specifications for the project. The intention is to have no overlapping bid items in the contract to make segregating pay items easy for City of Milwaukee construction inspection staff. All copies of plans and specifications will be provided to MMSD prior to bidding for their review and comments. Once the bid results are received they will be delivered to MMSD.

8. Provide the names and position titles of all municipal staff that will be required to sign the funding agreement. (i.e. mayor, city/village administrator, city/village clerk, city attorney, etc.)

Name: Jerrel Kruschke, P.E.	Position Title: Int. Comm. of Public Works
Name:	Position Title:

VIII. PUBLIC OUTREACH

 Describe in detail your public outreach approach and what entity/individuals/departments will be responsible for the public outreach. Describe the venues and platforms that will be used. Describe the timing and anticipated level of effort that is anticipated to be necessary for the public outreach effort. Describe any public outreach work that has already been completed or is in progress. If a specific person or entity is responsible for public outreach, include the name and contact information. (Examples of public outreach include, but are not limited to; mailings, websites, social media, canvassing, public meetings, etc.)

Notices will be sent to the property owners informing them about the City's goals to reduce the amount of clearwater that enters the sanitary system and inform them about how this project works to meet those goals. We will also provide the property owners with contract information to have their home not be included in our project.

Mr. Robert Seleen of the City of Milwaukee Environmental Engineering Section (EES) will be available to answer any questions, concerns, and complaints regarding the schedule and results of the inspection project.

Before the project is bid, the City will assess the number of participants and evaluate the need to use additional informational tools to gain further project participation.