



WES Technical Advisory Team AGENDA

Date: June 26, 2025
Time: 11:30 AM – 1:00 PM
Format: Zoom
Link to Zoom: <https://clackamascounty.zoom.us/j/85496557766>

Facilitators: Jessica Rinner, Civil Engineering Supervisor | Greg Karnes, WES Administrative Specialist

Time	Topic	Action
11:30 am 5 minutes	Welcome/Introductions <i>Jessica Rinner, WES – Civil Engineering Supervisor</i>	Roll Call
11:35 am 5 minutes	Review/Approve minutes from 02/20/2025 meeting <i>Greg Karnes, WES – Administrative Specialist</i>	Approval
11:40 am 10 minutes	City of Milwaukie Waverly Heights I&I Reduction Construction Proposal <i>Jessica Rinner WES – Civil Engineering Supervisor</i> <i>Jeff Tolentino – City of Milwaukie – Assistant City Engineer</i>	Vote
11:50 am 10 minutes	Member Community Invoicing Second ½ FY24/25 <i>Jessica Rinner WES – Civil Engineering Supervisor</i>	Discuss
12:00 pm 10 minutes	Member Community Annual I/I Reports <i>Jessica Rinner WES – Civil Engineering Supervisor</i>	Discuss
12:10 pm 10 minutes	Member Community Flow Data <i>Jessica Rinner WES – Civil Engineering Supervisor</i>	Discuss
12:20 pm 15 minutes	Round Table Discussion	Discussion
	Adjourn	



WES Technical Advisory Team MINUTES

Date: February 20, 2025
Time: 11:30 AM – 1:00 PM

Facilitators: Jessica Rinner, Civil Engineering Supervisor | Greg Karnes, WES Administrative Specialist

Time	Topic	Notes
11:30 am	Welcome/Introductions <i>Jessica Rinner, WES – Civil Engineering Supervisor</i>	<ul style="list-style-type: none">•
11:35 am	Review/Approve minutes from 12/19/2024 meeting <i>Greg Karnes, WES – Administrative Specialist</i>	<ul style="list-style-type: none">• Jeff Stallard - motion to approve• Kenny Cannady-Shultz seconds approval
11:40 am	Member Community Invoicing First ½ FY24/25 <i>Jessica Rinner WES – Civil Engineering Supervisor</i>	<ul style="list-style-type: none">• Dayna invoices are in QAQC• Jeff Tolentino needs to check if they were sent to WES
11:50 pm	Amendment to Regional I/I IGA Update <i>Jessica Rinner, WES – Civil Engineering Supervisor</i>	<ul style="list-style-type: none">• Goal is to clarify invoicing to help with requesting funds from previous years.• Draft copy will be distributed to TAT members to review – Sent in the next few months•
12:00 pm 00:00 - 11:52am	Updates from Member Communities on Regional I/I Program Projects	<ul style="list-style-type: none">• Oregon City McGloughlin I&I Project 1 -Extend McLoughlin Basin project• Kenny walks through proposal via map• Vote to approve – voted yes by all member communities.• Chris Randall brings up additional funds that are available from WES to fund projects• City of Gladstone projects update by Justin Poyser• Jeff Tolentino discusses Waverly Heights project for city of Milwaukie

		<ul style="list-style-type: none"> • Kenny talks about projects wrapping Spring/Summer 2025
11:52 am – 12:01 pm	Round Table Discussion	<ul style="list-style-type: none"> • Jeff Stallard updates: • Board of Commissioners approved the 5-year CIP. • Approval from DEQ for wet weather system at both major treatment facilities (Tri-Cities and Kellogg) • Boring machine successfully tunneled to the river. • Jessica and Greg discuss new TAT schedule • I&I is in the 3rd year of it's 5-year pilot program and discussion of funds available for future fiscal years
	Adjourn	

Roll Call:

Jessica Rinner

Greg Karnes

Justin Poyser

Erich Lais

Chris Randall

Jeff Stallard

Jeff Tolentino

Kenny Cannady-Shultz

Dayna Webb

Steven Rice

Mike Rice

Nathan Seaver

Steven Rice

Andy Bachman

Josh Miner

Zach Koellermeier

Haakon Ogbeide

Regional I&I Reduction Program Qualified Proposal Clackamas Water Environment Services

Partner City: City of Milwaukie

Project Name: Waverly Heights Sewer Reconfiguration

Date: June 13, 2025

Basin: Milwaukie

Purpose

This document presents a Qualified Proposal to the Clackamas Water Environment Services (District) to participate in cost sharing under the District's Regional I&I Reduction Program, as outlined in the Intergovernmental Agreement Between Water Environment Services and Partner Cities for Regional Inflow and Infiltration Reduction (IGA). Under this program the District has pledged to reimburse 33 percent of actual costs to Partner Cities for Qualified Proposals, as approved by the District.

Project design work for the rehabilitation of the deteriorated wastewater collection system in the Waverly Heights neighborhood of Milwaukie is substantially complete at 100%. At this stage of design, the City of Milwaukie (City), is in the process of procuring a contractor to implement the project's construction phase. The City is requesting the District to review the Qualified Proposal presented here, and if eligible, provide a letter of approval to the City as described in the IGA.

Project Description

Waverly Heights is a small community within the Milwaukie Basin cited in the Sanitary Sewer System Master Plan for Water Environment Services, prepared in 2019 by Jacobs Engineering. The community resides in the northwest portion of the City of Milwaukie, bordered by 17th Avenue to the east, Waverly Country Club to the north and west, and the Willamette River to the South. The system includes vitrified clay pipe (VPC), concrete pipe (CP), reinforced concrete pipe (RCP), and polyvinyl chloride pipe (PVC), in either 8- or 6-inch sizes. Additional data for the collection system is provided in Table 1, and a map of the existing system is provided in Exhibit A, both of which are included at the end of this proposal.

A 2022 CCTV inspection of the facilities in this area identified several deficiencies in the system including, root intrusion, cracks, sags, and mis-aligned joints. Most of the deficiencies exist in the VCP pipes, with substantial cracking, root intrusion, and misalignment at joints; although roots, sags, and minor cracks exist in the CP and PVC sections as well. These deficiencies have been identified as a major source of I&I in the area.

The WES design grant awarded in 2023 facilitated the City of Milwaukie to hire Consultant Firm Stantec, to accurately quantify the I&I load and develop a rehabilitation design. The rehabilitation design incorporates Cured-In-Place-Pipe (CIPP) with some instances of trench and replacement.

Project Schedule

- An I&I study was completed late in 2024.
- The 100% rehabilitation design was complete in June 2025
- The estimated schedule for the construction phase is September 2025.

Project Costs

- The estimated cost for the I&I rehabilitation construction is \$1, 231,684.

Table 1: Waverly Heights Wastewater Collection System Data

Data Point	Value	Units
Service Load		
Equivalent dwelling units	30	EDUs
Structures		
Manholes	25	Each
Cleanouts	1	Each
Pipe		
Size		
8" Diameter	3,990	LF
6" Diameter	403	LF
Pipe Material		
Vitrified Clay Pipe (VCP)	1702	LF
Concrete Pipe (CP)	2,154	LF
Reinforced Concrete Pipe (RCP)	463	LF
Polyvinyl Chloride (PVC)	74	LF
Total Linear Feet	4,393	LF

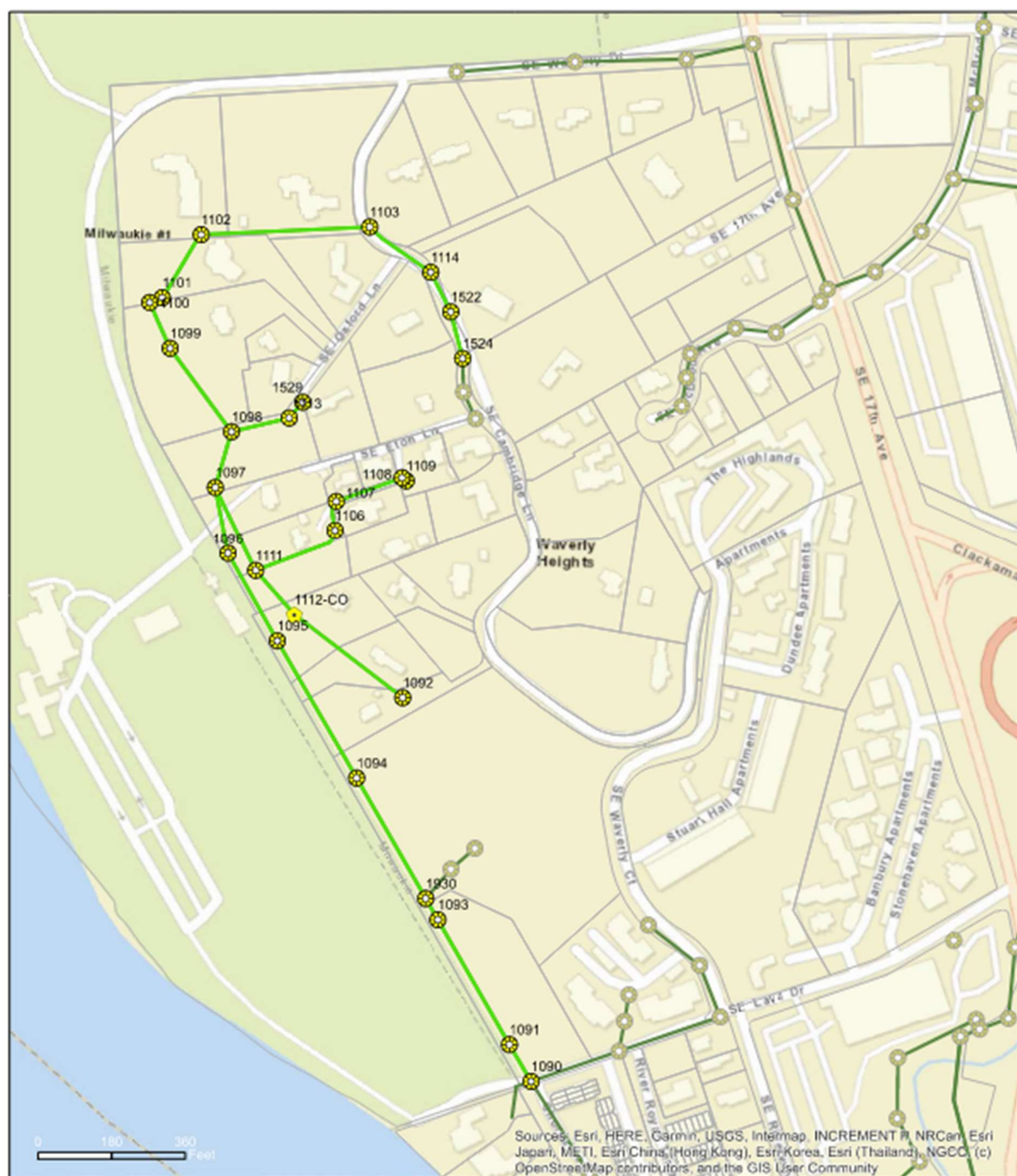


Exhibit A: Existing System

- Project Sewer Mains
- Project Manholes
- Project Cleanouts
- Out of Scope Mains
- Out of Scope Manholes



Data Sources: City of Milwaukee GIS, Metro Data Resource Center