

# WESTERLY TUNNEL DEWATERING PUMP STATION

## DESCRIPTION

The Westerly Tunnel Dewatering Pump Station project (WTDPS) is associated with the Westerly Storage Tunnel project (WST), and is part of Project Clean Lake, a \$3B, 25-year program NEORSD began in 2011 designed to meet Clean Water Act standards and address water quality issues. WTDPS is downstream and connected to the WST, which is the 4th of seven new large diameter tunnels and other projects that the NEORSD will use to reduce the 4.5 Billion Gallons of wet weather combined sewer overflows (CSOs) released into Lake Erie and its tributaries in the Greater Cleveland area.

The WTDPS is a submersible pump station with a firm dewatering rate of 36 MGD. With its five 9 MGD pumps in the 215-ft deep, 46-ft diameter wet well, it will send CSOs stored in WST to the existing treatment plant via the nearby Westerly Interceptor. WTDPS also has a 10,080-SF, 35-ft tall at-grade support building. A rendering of the support building and the expected project schedule are shown below.



**WTDPS Location Map and Rendering of Pump Station Support Building**

## PROJECT BENEFITS

As a system, WST and WTDPS will control overflows at 2 permitted CSO locations along the Cuyahoga River and will reduce CSO volumes discharged into the river by 277 million gallons each year, providing:

- Improved water quality in the Cuyahoga River;
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- A reduction in public health risks associated with CSOs;
- A cleaner Lake Erie for drinking water, boating, beach-going, and other recreational purposes; and
- Wet weather flood relief mitigation.

**CONSTRUCTION COST:** \$27.3 Million (Bid)

**STATUS:** Construction started in November 2020

		WTDPS Project Schedule						
		Year						
Project Phase		2017	2018	2019	2020	2021	2022	2023
Design		█	█	█	█			
Bidding					█			
Construction						█	█	█