

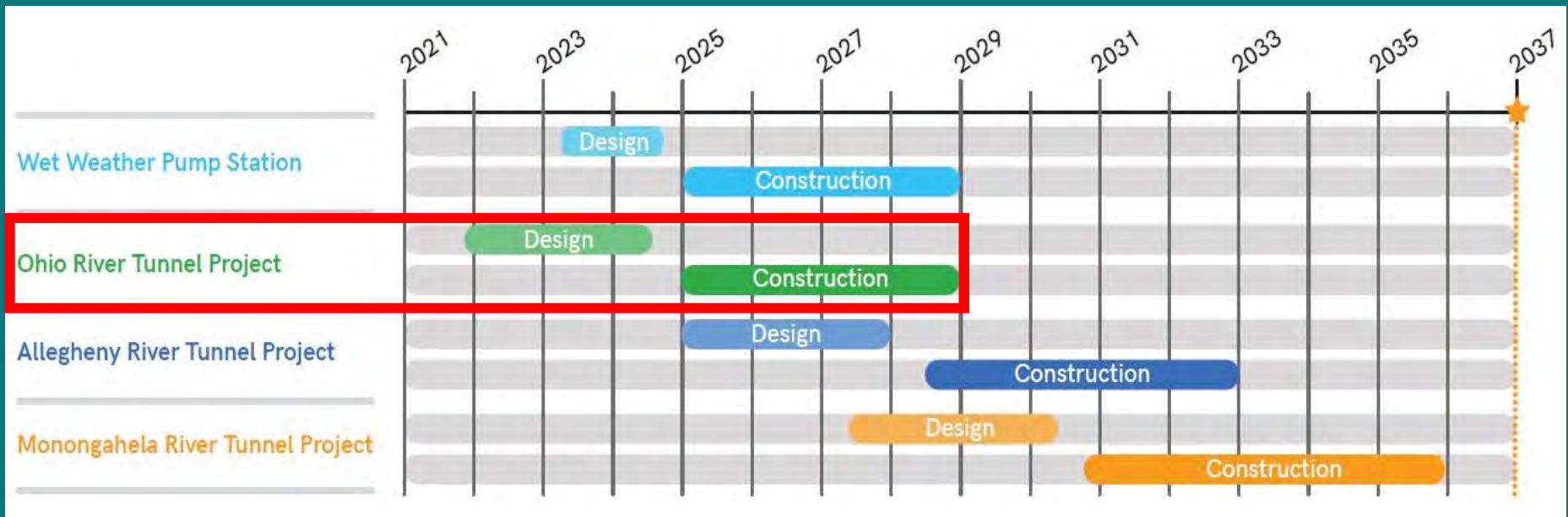


Additional Clean Water Plan Projects Forecast

- Wet Weather Pump Station – Construction Beginning 1/2025
- Ohio River Tunnel – Construction Beginning 1/2025
- Allegheny River Tunnel – Construction Beginning Mid-2028
- Monongahela River Tunnel – Construction Beginning Late-2030



Overall Implementation Schedule of 15 Years

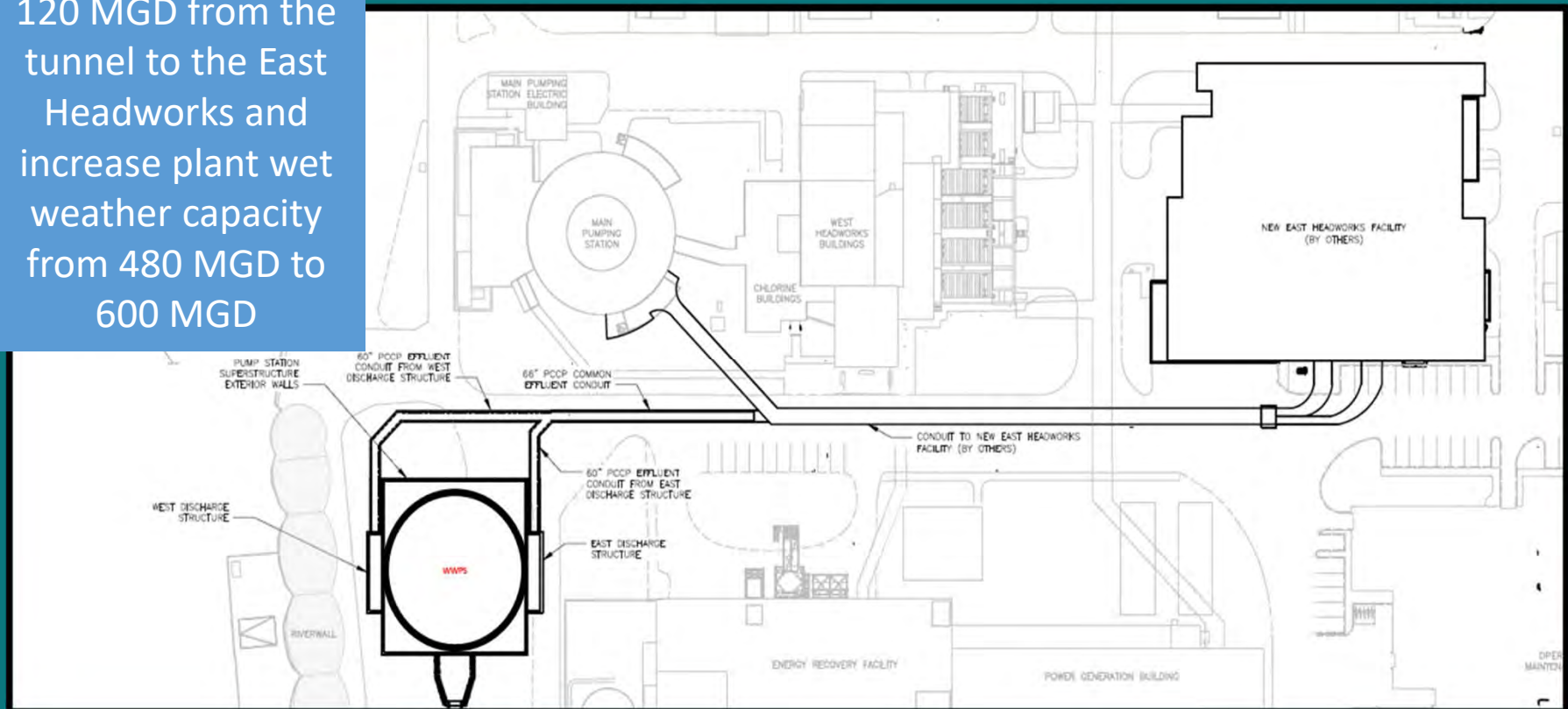


Overall schedule driven by Modified Consent Decree schedule. Final completion by December 31, 2036, including commissioning. Interim deadlines drive the schedule for design and construction; **subject to change**.



Wet Weather Pump Station

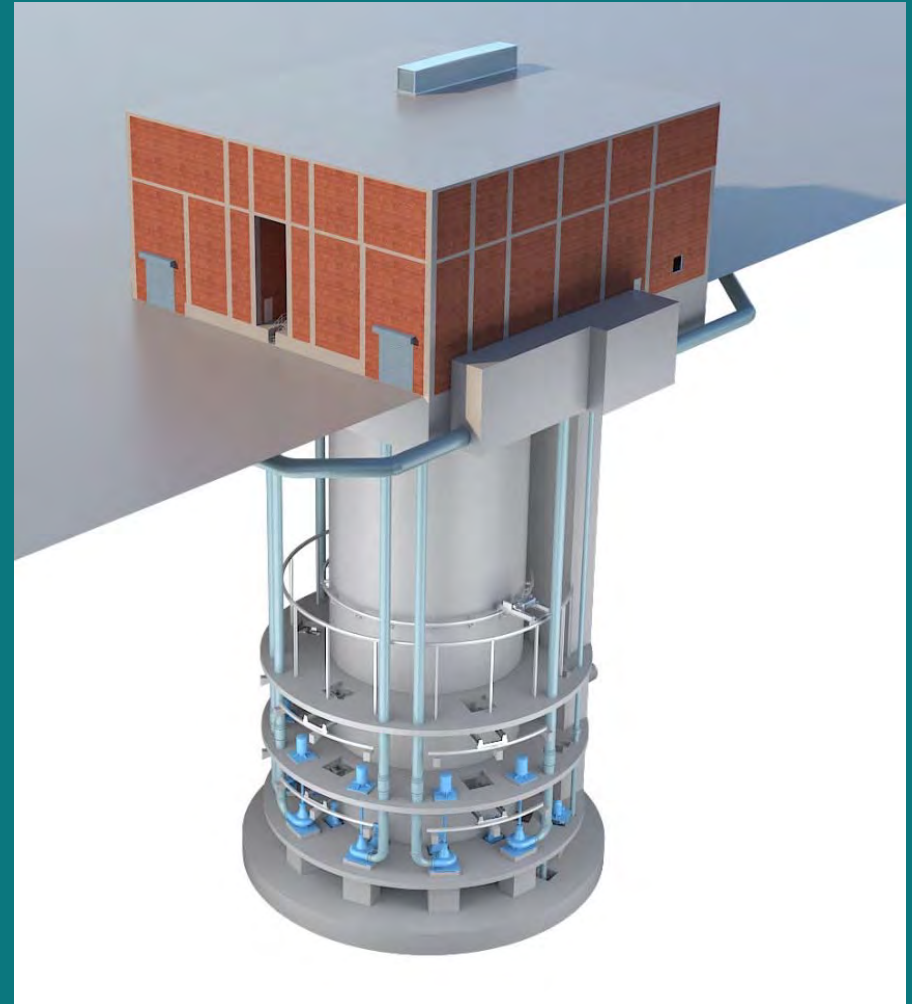
Designed to pump
120 MGD from the
tunnel to the East
Headworks and
increase plant wet
weather capacity
from 480 MGD to
600 MGD





Wet Weather Pump Station

Single shaft and be of a single circular wet well and dry pit configuration – similar to existing Main Pump Station





Wet Weather Pump Station





Regional Tunnel System

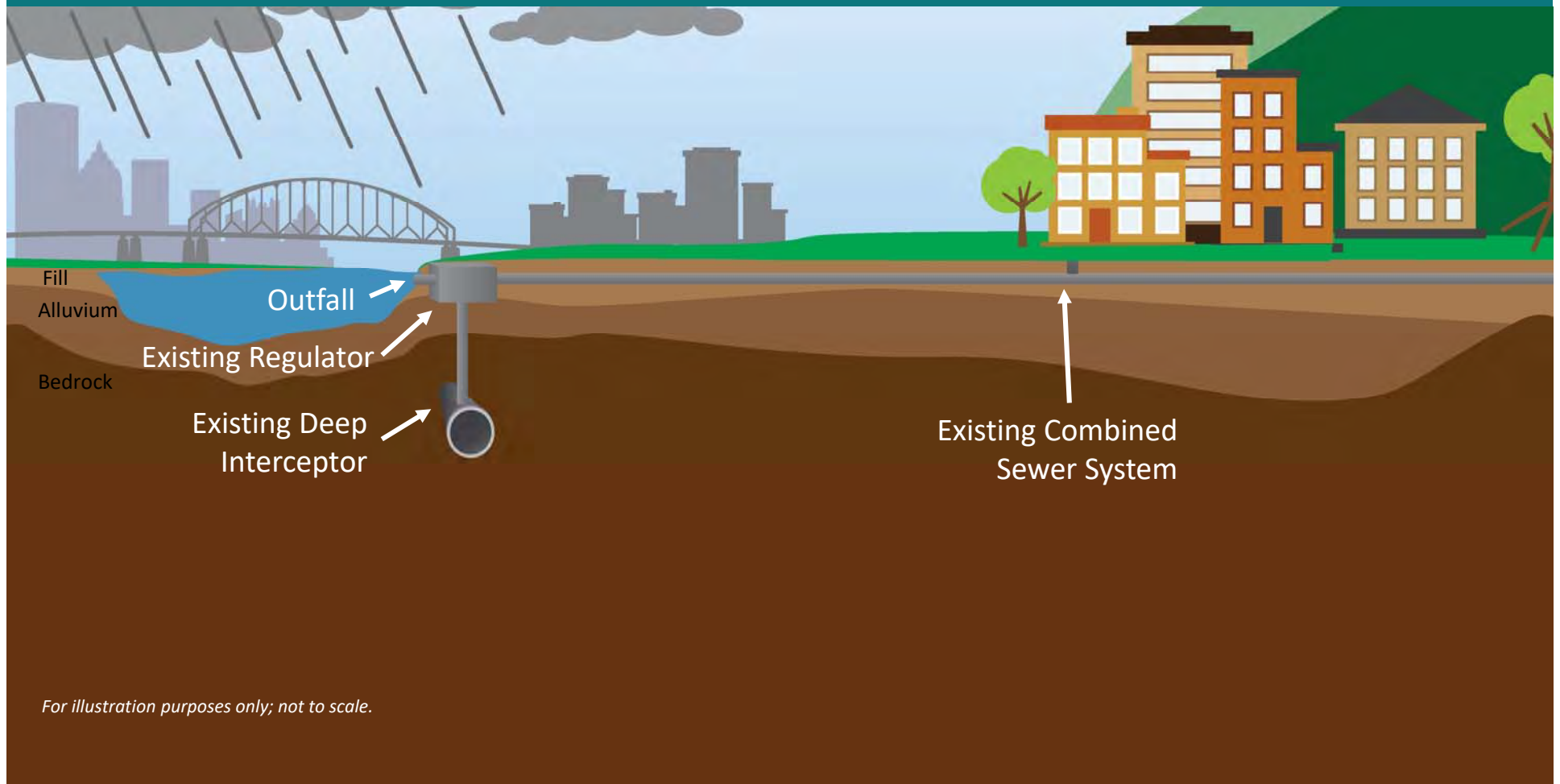
Deep Underground Tunnels



Courtesy of City of Portland, OR; Tideway Media and Press Centre, UK

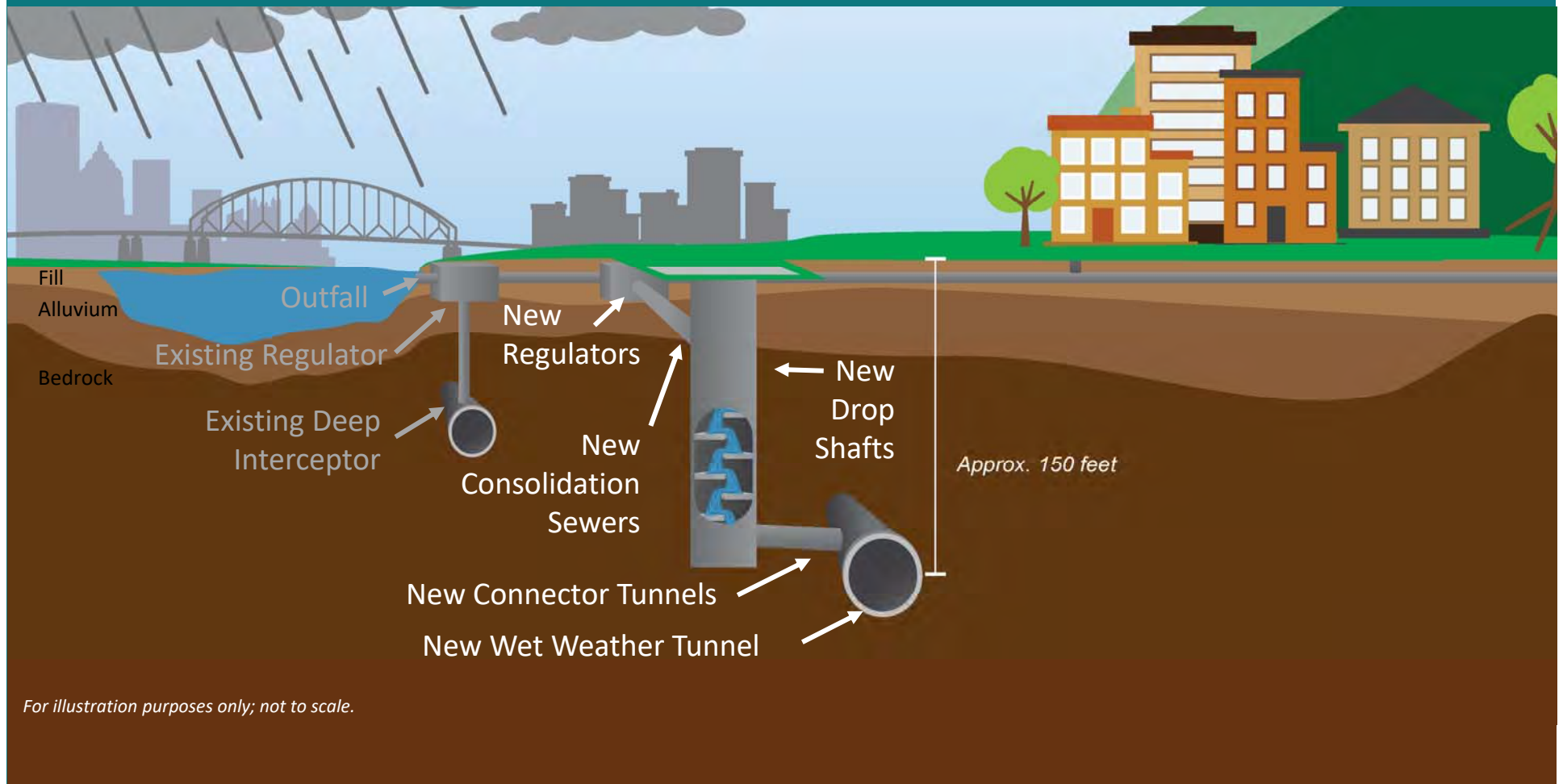


Existing Infrastructure





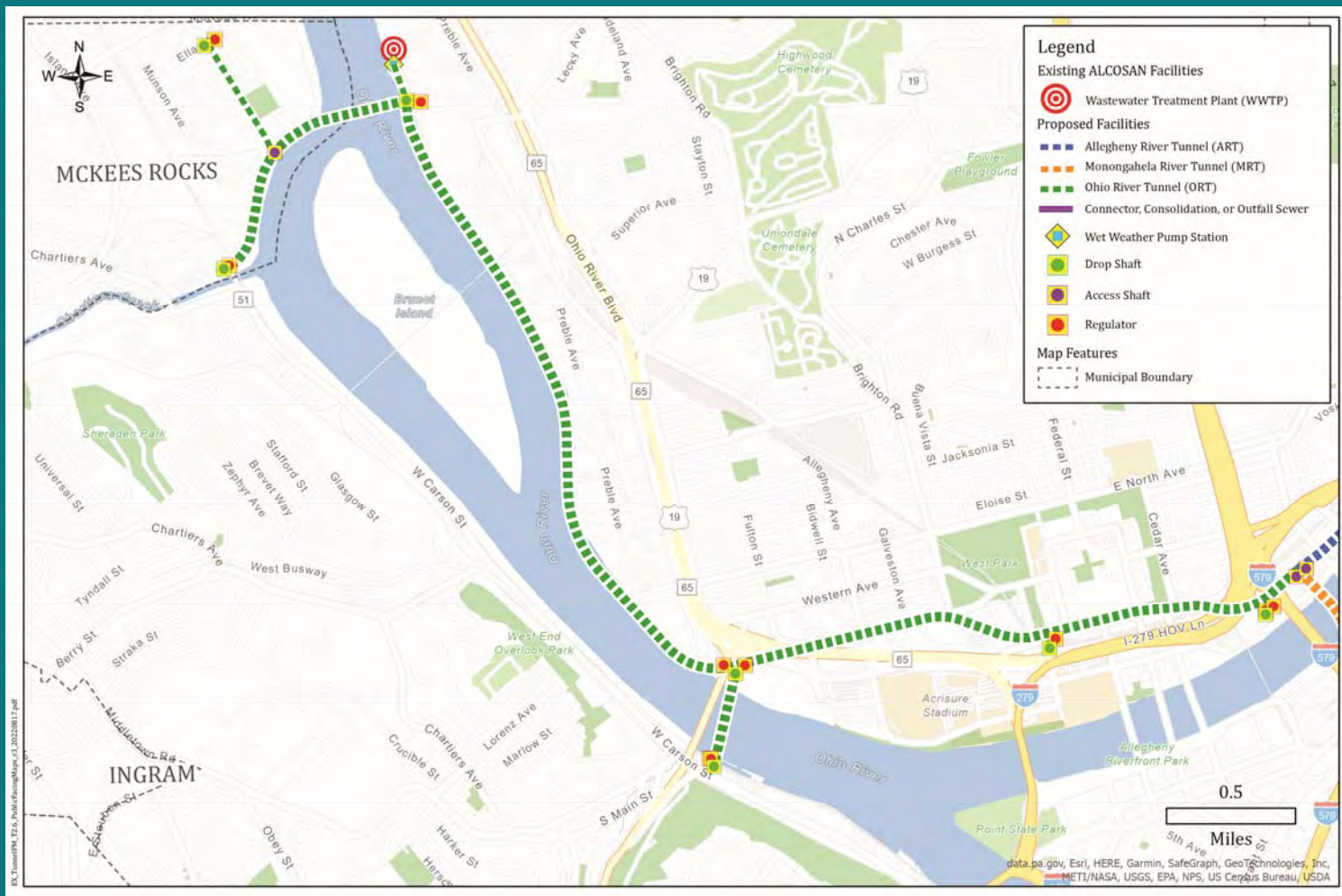
Proposed Infrastructure



For illustration purposes only; not to scale.



Ohio River Tunnel Project 30% Design





Ohio River Tunnel Project Timeline

2021

Design Phase Initiated

2022

30% Design Complete

2023

60% Design

Expected completion end of Q2
Geotechnical investigation continues
Demolition begins at O-14 and O-41

2024

90% Design

2025

Construction

2028

2029

Commissioning and Start of Operations

ALCOSAN started surveying and core sampling in the summer of 2022



Photos show core sampling work that took place near the Rivers Casino in August 2022



Major Decisions to Date

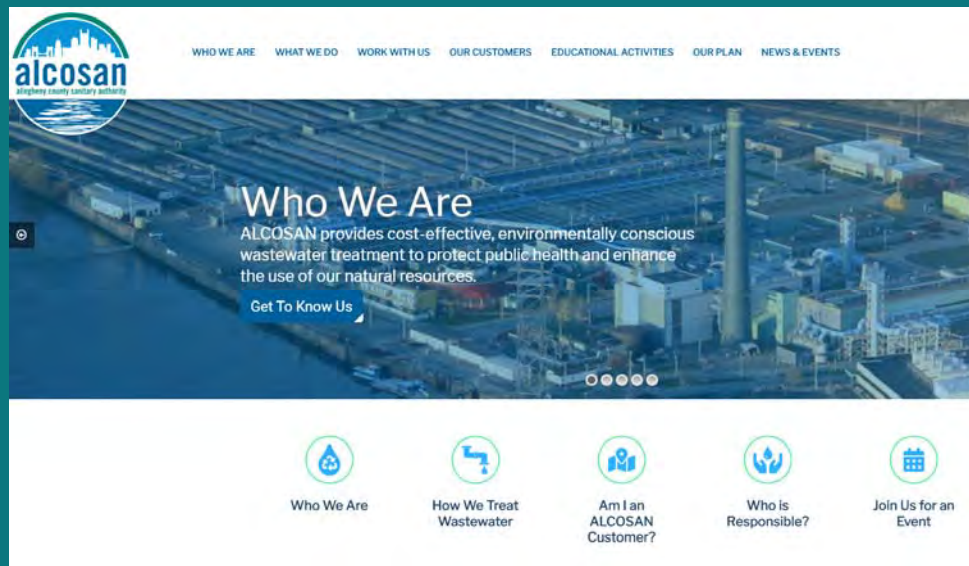
- Key sites location/configuration
- Tunnel alignment
- “Closed-Face” TBM technologies
 - Earth Pressure Balance Machine or Hybrid TBM
 - Slurry Shield TBM or Mixshield TBM
 - Precast Concrete Segmental Lining



Example EPB TBM for 18-ft finished diameter tunnel – Seattle Ship Canal Water Quality Project



ALCOSAN Website



- www.alcosan.org
 - Click WORK WITH US tab
 - Business Opportunities
 - Planned and Active Bids
- More Information on Awards
- Forms and policies available



Questions / Comments?

Contact:

Shawn McWilliams

ALCOSAN

Project Engineer, Regional Conveyance

(412) 734-8053

shawn.mcwilliams@alcosan.org