

# Tunnel Works

## Tunnel Works Program Facts



### Three Rivers Protection & Overflow Reduction Tunnel (3RPORT) & the Tunnel Works Program:

Fort Wayne City Utilities is designing a large tunnel and associated network of pipes in the bedrock below the City. This tunnel system, known as *Tunnel Works*, will collect and transport sewage from the combined sewer system to the sewage treatment plant. Tunnel Works is the capstone project in the City's Long-Term Control Plan for reducing the amount of diluted sewage that is discharged into our rivers every year.

#### The Tunnel:

- Tunnel route generally runs parallel to the St. Marys and Maumee Rivers
- Tunnel to be constructed in bedrock approximately 150-250 feet below ground using a tunnel boring machine (TBM)
- 1 working shaft to initiate TBM underground, approximately 40 feet in diameter; 1 retrieval shaft to remove the TBM
- 5 miles of tunnel lined with concrete, 16 feet finished diameter, to collect and transport combined sewage
- 9 drop shafts, 4-8 feet in diameter, to direct sewage from near-surface sewer pipes into the tunnel

#### Near-Surface Consolidation Sewers:

- Construction of near surface "consolidation" sewers, 48-84 inch diameter, to direct flow to drop shafts. Construction will use traditional method of trenching and laying pipe
- 2 miles of additional sewer construction at the south end of the tunnel. Construction may be done with the TBM or done with traditional trench methods

#### Outcomes:

- Completion of *Tunnel Works* program will reduce combined sewage overflows to St. Marys and Maumee Rivers by 90%, from about 71 times in a typical year to just 4.

#### Timetable & Cost:

- 2014 - 2016: Design of overall tunnel system will be completed, including soil and rock drilling and testing, public outreach and finalizing sewer routes. Bidding for construction will occur in late summer/early fall of 2016.
- 2017: Construction to begin
- 2025: Overall system will be completed and operational
- Approximate cost \$150 million for the entire project including the tunnel, associated consolidation sewers, drop shafts and a pump station at the sewage treatment plant

For more detailed information, please visit the *Tunnel Works* website at [FortWayneTunnel.org](http://FortWayneTunnel.org)

For questions about the Tunnel Works program, please email City Utilities at [FortWayneTunnel@cityoffortwayne.org](mailto:FortWayneTunnel@cityoffortwayne.org)



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