



Cheltenham Township

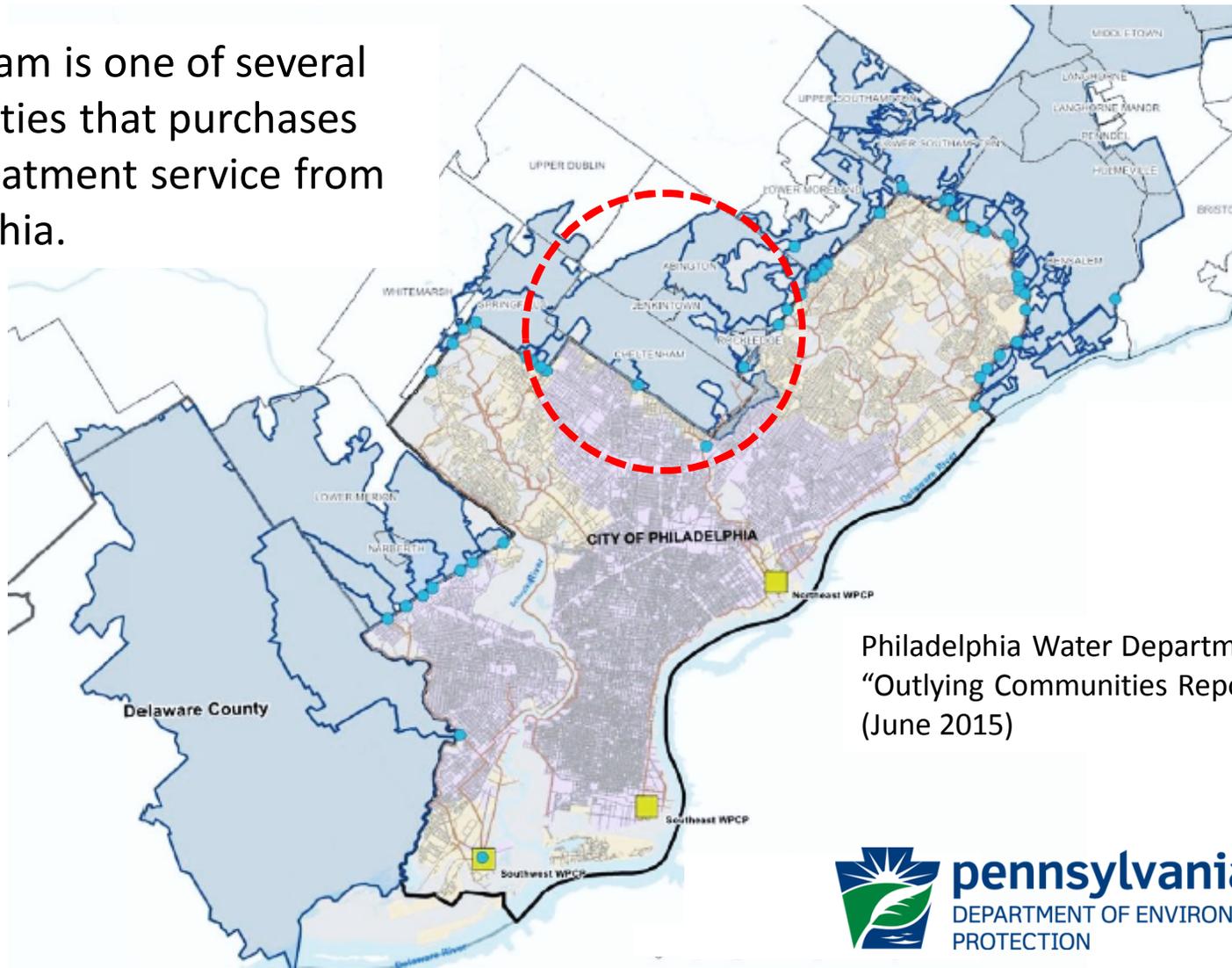
Cheltenham Township public meeting 9/28/16

Tom Wolf, Governor

Patrick McDonnell, Acting Secretary

Cheltenham Township

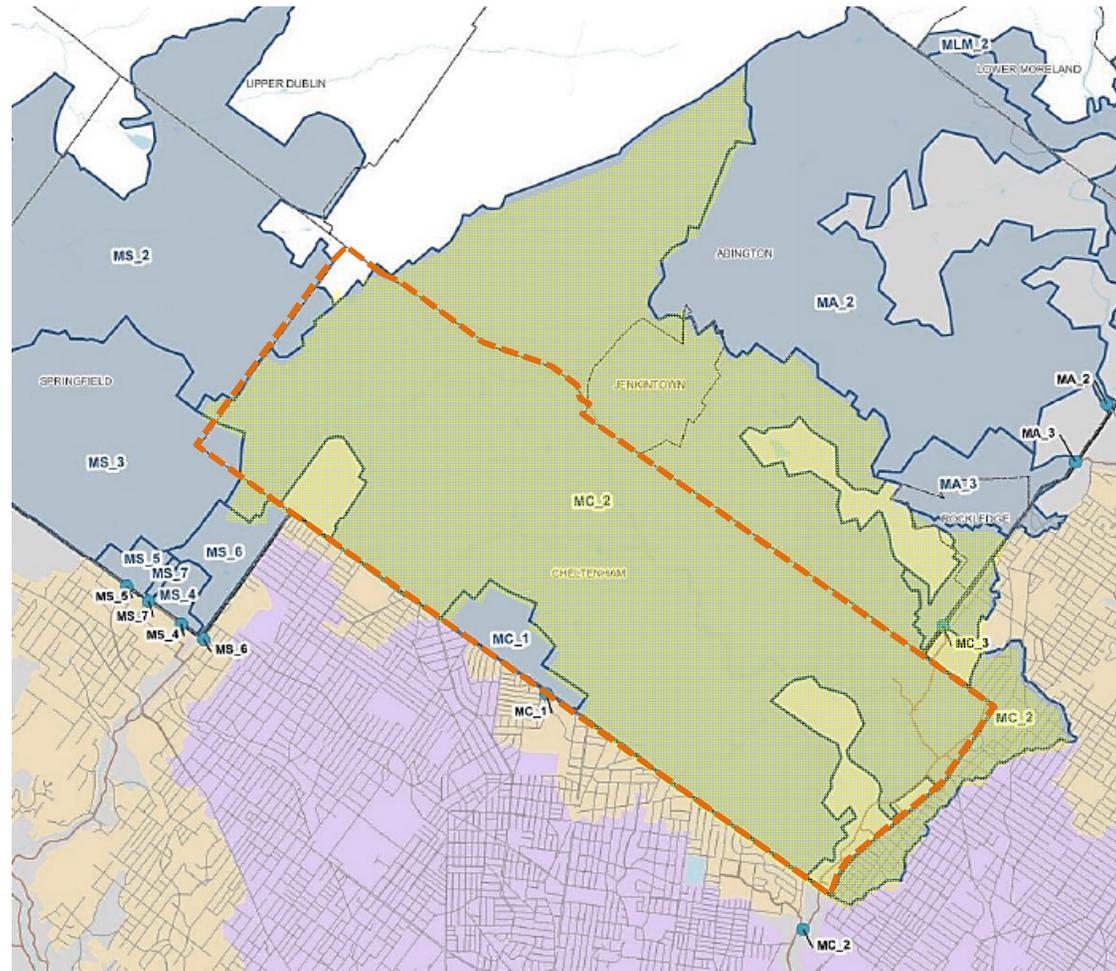
Cheltenham is one of several communities that purchases sewer treatment service from Philadelphia.



Philadelphia Water Department.
“Outlying Communities Report”
(June 2015)

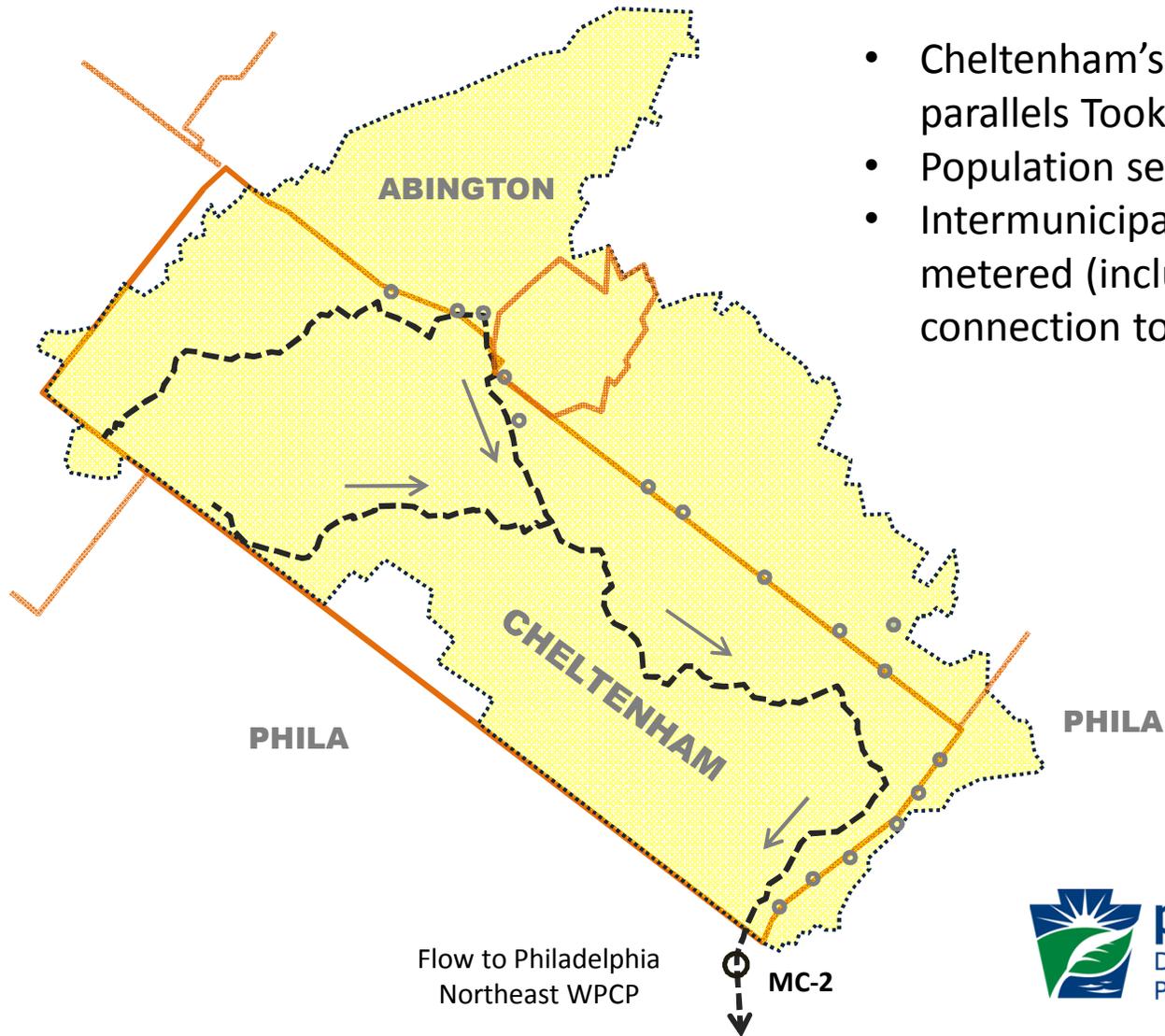
Cheltenham Township

The area draining to PWD meter “MC-2” includes most of Cheltenham, all of Jenkintown, and part of Abington.



Philadelphia Water Department.
“Outlying Communities Report”
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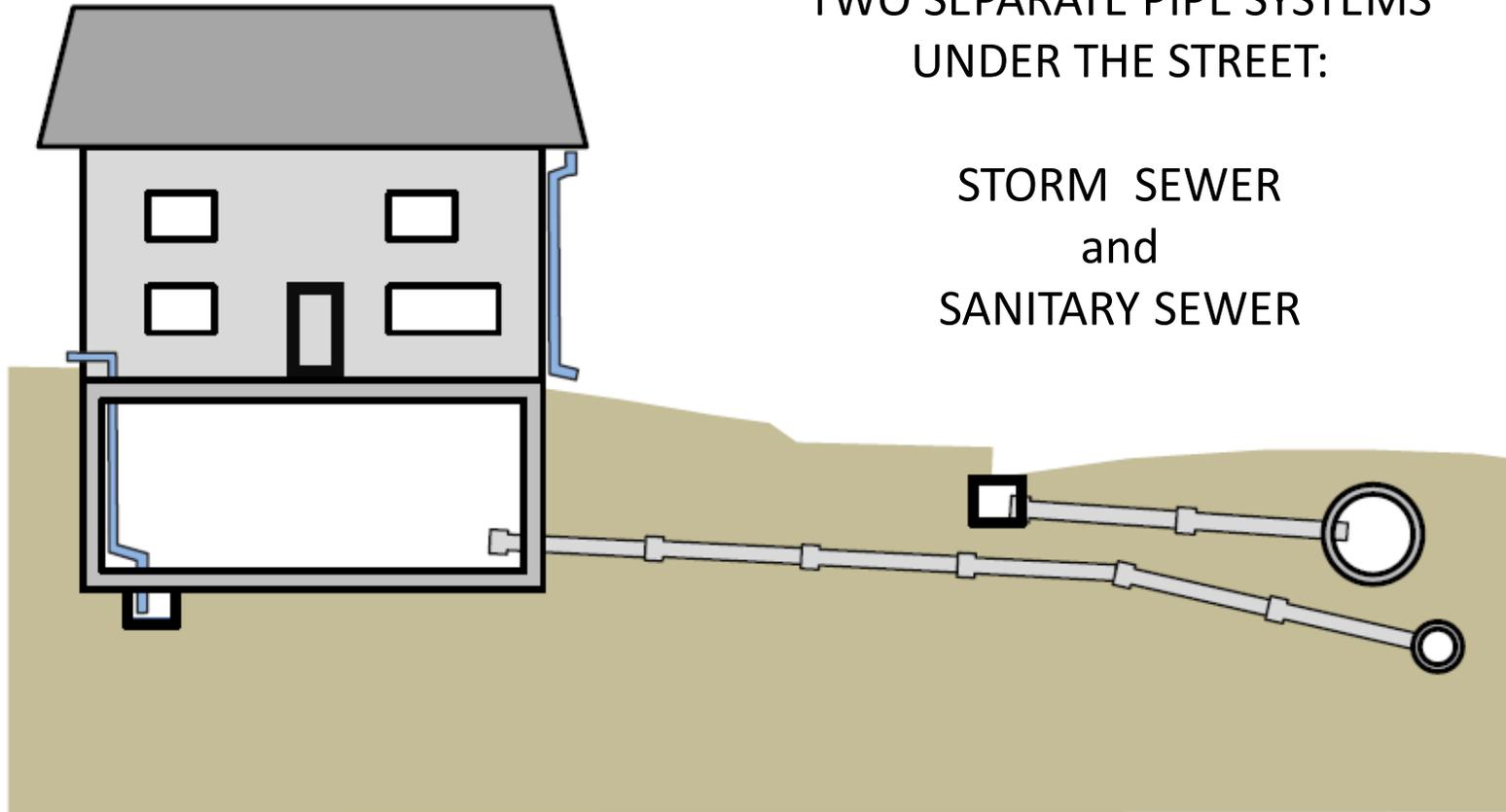


- Cheltenham’s intercepting sewer parallels Tookany Creek
- Population served: about 65,000
- Intermunicipal connections are metered (including the main connection to Phila at “MC-2”).

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TWO SEPARATE PIPE SYSTEMS
UNDER THE STREET:

STORM SEWER
and
SANITARY SEWER



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SANITARY SEWER OVERFLOW



(This is an EXAMPLE. This photo was not taken in Cheltenham Township.)

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Sanitary Sewer System overloading – too much water flow ...

- Cheltenham was one of several communities that got DEP's attention in the early 2000s.
- Cheltenham experienced SSOs and sewer backups in various locations.
- Cheltenham and DEP agreed on Corrective Action Plan in May 2005.

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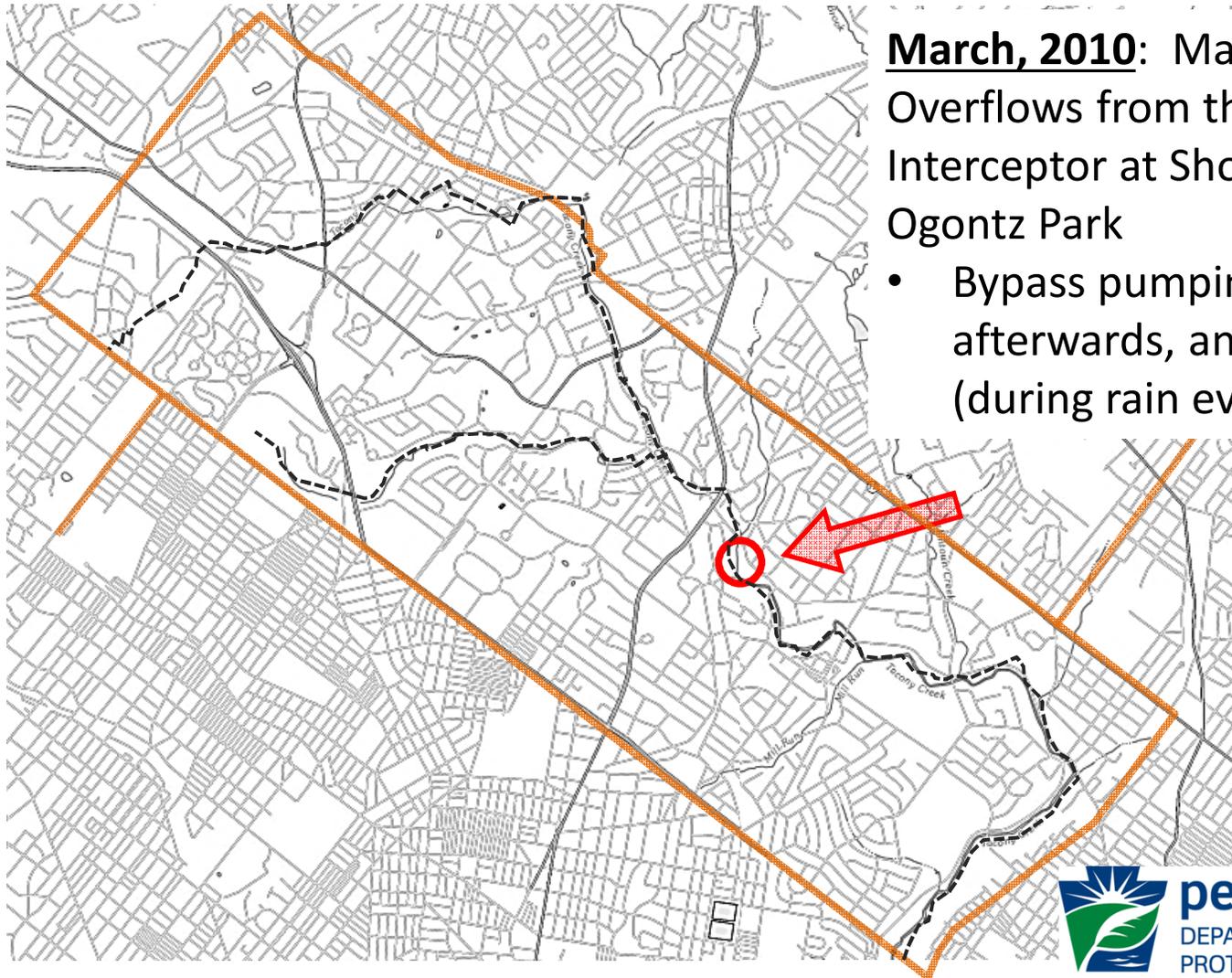
2005 Corrective Action Plan included:

- Evaluation of flow restrictions in the township's largest sewers
- Cleaning, TV, and grouting of sewer mains
- Inspection of manholes; and installation of manhole inserts to reduce inflow
- Identification of private laterals with significant flow, *for further evaluation*

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Since 2005, new connections to the sanitary sewer system have been limited, with DEP oversight. This is to prevent the hydraulic overload from being aggravated by the addition of a lot of new flow.

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March, 2010: Major Sanitary Sewer Overflows from the Tookany Interceptor at Shoemaker Road and Ogontz Park

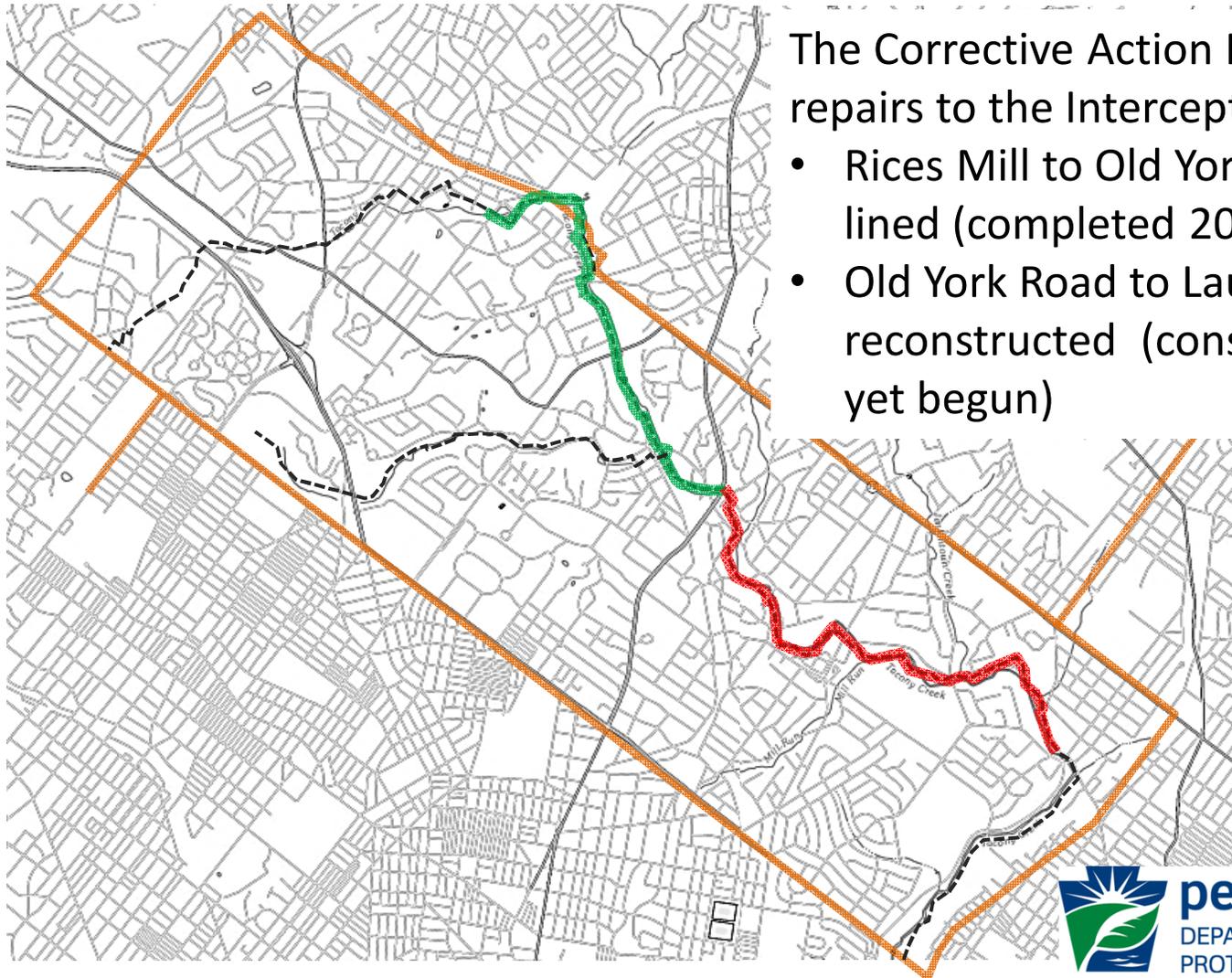
- Bypass pumping began shortly afterwards, and continues today (during rain events)

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A new Corrective Action Plan was prepared 2010-2012, including:

- Major repairs to Tookany Interceptor
- Pilot project to repair mains and lateral connections in portions of Elkins Park
- Lateral rehabilitation *in priority areas, in the public right-of-way*
- Develop and adopt a new ordinance for private lateral inspection and rehabilitation
- New intermunicipal agreements
- Abington and Jenkintown are also taking action.
- As an interim measure, the bypass (black snake) was installed to avoid more sewer overflows.

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The Corrective Action Plan includes repairs to the Intercepting Sewer.

- Rices Mill to Old York Rd – interior re-lined (completed 2013)
- Old York Road to Laurel Ave to be reconstructed (construction has not yet begun)

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DEP Oversight with Connection Management

Progress in repairs and flow reductions

... leads to

restoration of sewer capacity

... leads to

ability of new projects to connect

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The Corrective Action Plan is being updated now (2016)

- Responsive to PWD contract requirements
- Assessment of all Township-owned sewer mains, with repairs of defects that are found
- Private service laterals to be investigated, with follow-up where defects are found

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How much of the I/I problem is coming from the private portions of the collection system?

- EPA:
“...about 40%...”
- Water Environmental Federation:
“... between 5 and 50% ...”
- Virginia Water Environment Association:
“... between 20-80%...”

Assessment is necessary.

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Private service laterals

- Service laterals are potential sources of extraneous flow
- Condition of laterals is unknown unless examined
- Township has the right and the responsibility to:
 - Prohibit the introduction of stormwater or groundwater into the system
 - Inspect condition of laterals
 - Require repairs by property owner

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Lateral problems

- Roof downspouts connected into sewer
- Sump pump discharges into sewer
- Cracked sewer pipe underground
- Pipe sections disconnected at joints underground
- Root intrusion
- Rough connection (“Hammer installation”) to sewer main
- Vents or cleanouts that capture surface runoff

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Correcting problems with service laterals is important

- Contributes to solving the township-wide overload
- Reduces risk of total lateral failure (collapsed or blocked lateral, with backup of sewage into home)
- Reduces the risk of sewage discharge to ground surface, or stream

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Factors that affect the cost of a service lateral repair:

- Length
- Depth
- Obstacles (landscaping, hardscape, etc.)
- Other underground utilities (water service, gas)
- Hand-digging versus machine excavation
- Contractor



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DEPARTMENT OF ENVIRONMENTAL PROTECTION



Office of Water Management

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Clean Water Program
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