

Evaluation and Repair of Large Diameter Interceptors

BOMA Work Session

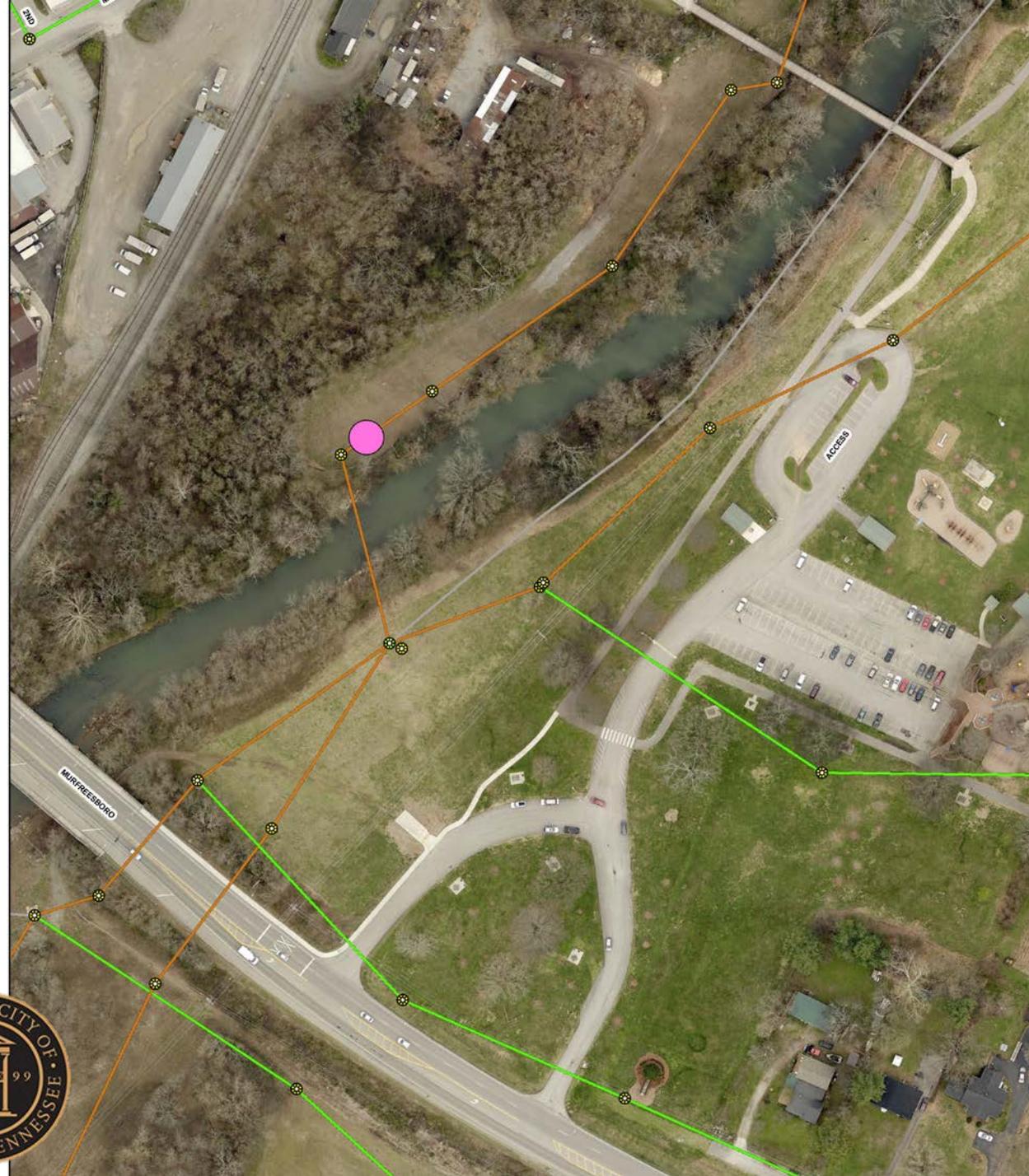
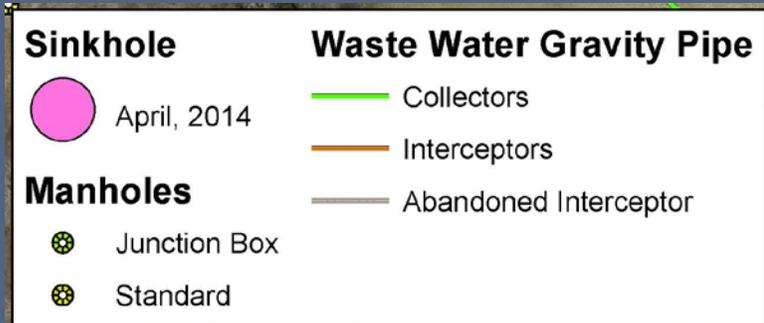
September 26, 2017

Michelle Hatcher, PE, Director WMD

Mark Hilty, Assistant City Administrator



Pinkerton Park – 2014



Pinkerton Park – 2014



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Director
Water Management Department*

Chestnut Bend - 2017



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Chestnut Bend - 2017

Sinkhole	Repaired Sewer Pipe
● April Failure	— CIPP
● February Failure	— DIP
Manholes	Waste Water Gravity Pipe
● Abandoned	— Collectors
● Standard	— Interceptors
	— Abandoned Interceptor

1 in = 200 ft



Ongoing Repairs

- Contractor has been performing cleanup last week behind Chestnut Bend and prepared for shut down during the Pilgrimage Festival.
- Anticipate starting bypass pumping again today and contractor to continue replacement of 63' of line adjacent to the river.
- We anticipate it should be around 1.5 to 2 weeks for the pipe installation, and then they'll backfill that area and continue to work to regrade the remaining sections of the site.
- During bypass pumping operations, staff will clean the pipe under the river with a jet truck and perform additional inspections.



Ongoing Repairs

- Pavement Repair:
 - Staff met with Williamson County Parks Department (WCPD) to coordinate greenway repair.
 - Once pumps and temporary forcemain are removed the Streets Department will coordinate with WCPD to complete the paving before this winter.
- Landscaping:
 - WMD staff are working with the City's landscape architect and arborist to create a plan that we will send to Chestnut Bend leadership review before we begin planting. A site visit is scheduled this week to start development of this plan.
- Reclaimed water will be turned back on next week for south customers.



Inspection Schedule

- Last week, inspection occurred from the repair site to the WTP.
- Multiple lines need significant cleaning from blockages caused by debris.
- Bypass pumping will resume today.
- Cleaning of the line under the river scheduled for Friday and then immediate reinspection to determine status.



Repair and Inspection Summary to Date

- Replaced 1,325 linear feet (LF) of 54” diameter interceptor with DIP
 - Currently working on replacement of 63 LF of 54” diameter interceptor
- Rehabilitated 315 LF of 54” diameter interceptor using cured in-place pipe lining
- Construction cost to date approximately \$4.15M
- Inspected 46,300 LF of large diameter interceptors
 - Approximately 4,700 LF remain (Hillsboro Rd and WTP south to Mack Hatcher)



Discussion

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Overall Repair Map

Sinkhole	Manholes	Repaired Sewer Pipe	Waste Water Gravity Pipe	Waste Water Pressurized Pipe
 April, 2014	 Junction Box	 CIPP	 Collectors	 Sewer Force
 April, 2017	 Abandoned	 DIP	 Interceptors	
 February, 2017	 Standard		 Abandoned Collector	
			 Abandoned Interceptor	

