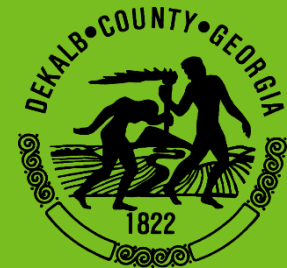




GREEN STREET SEWER REPLACEMENT PROJECT

March 10, 2020

Agnes Scott College - Campbell Hall – Frances Graves Auditorium





Agenda

- Welcome and Overview – Michael Thurmond, Chief Executive Officer
- Wastewater System Overview – Reginald Wells, Director, DWM
- The Problem – Kerry Williams, P.E., PMP, Engineering Manager, DWM
 - Assessment and Findings
 - Work Completed to Date
- Project Overview & Timeline
 - Tiffany Ware, Project Manager, DWM
 - Greg Gutzwiller, Project Manager, AECOM
 - Darren Eastall, Assistant Director, DWM
- Public Safety Response – Deputy Chief Scott Richards, City of Decatur, Police
- Communications Strategy – Alicia Pennie, Public Relations Manager, DWM
- Questions – Zach Williams, Chief Operating Officer



Welcome and Overview

Michael Thurmond
Chief Executive Officer
DeKalb County



How Did We Go Wrong in Prior Years?

Strategic Errors

- **Contributing Factors:**

- Focus not originally on inflow and infiltration but rather on FOG
- Lack of prioritization in addressing repeat spills

Political interference

(Interference in Watershed operations, lack of appropriate oversight, allegations of corruption/favoritism and lack of transparency)

- **Contributing Factors:**

- Political turmoil impeded the development of a governing consensus
- Selection of a consent decree program manager delayed three years; Contract approvals and renewals delayed
- Failed to budget for staff and resources needed to develop and implement several Consent Decree programs



Administrative Errors

- **Contributing Factors:**

- Seven different Watershed directors over a ten year period
- Failed to address high personnel turnover
- Failed to develop or keep in place critical maintenance contracts (e.g., root control and easement clearing)
- Bureaucratic silos/ turf guarding between departments, divisions and private consultants
- Misclassification of sanitary sewer overflows
- Misapplication of hydraulic model and no standard operating procedures for new sewer connections
- Absence of Standard Operating Procedures and Protocols



- CEO Thurmond directly engaged Consent Decree issues via regularly scheduled meetings.
- Prioritized repeat wet weather spill sites
- Focused on identifying the root underlying issues to symptomatic problems in the sewer system
- Enhanced coordination and communication between executive leadership, Watershed, Law, Human Resources, IT, Finance, Purchasing, Communications, and the Planning Department.
- Reorganized Watershed Management to elevate the importance of the Consent Decree within the department.
- Addressed Watershed staffing issues by increasing personnel budget and hiring additional professional engineers, modelers, database analysts, flow monitoring personnel, and maintenance, response and repair crews.



Wastewater System Overview

Reginald Wells
Director
DWM



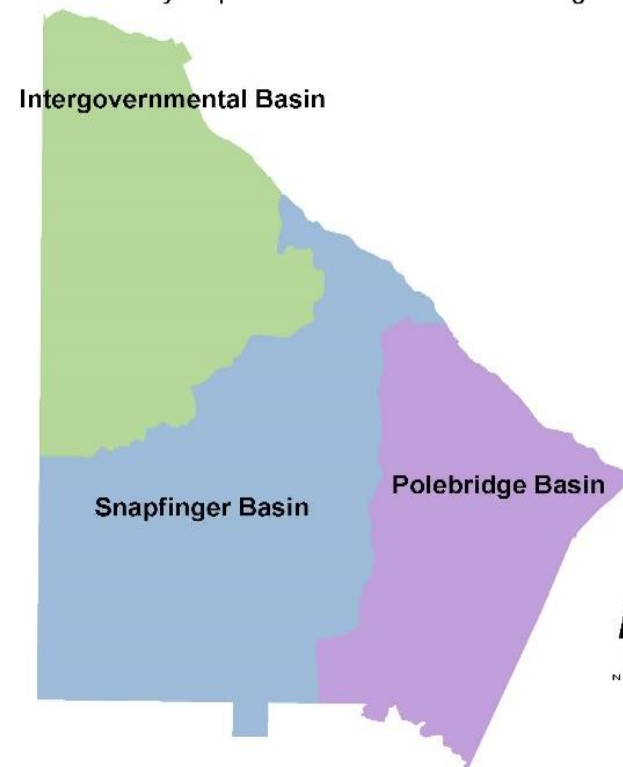
DeKalb County Department of Watershed Management Engineering and Construction Management will lead a team of Engineers, Inspectors and Contractor Crews.



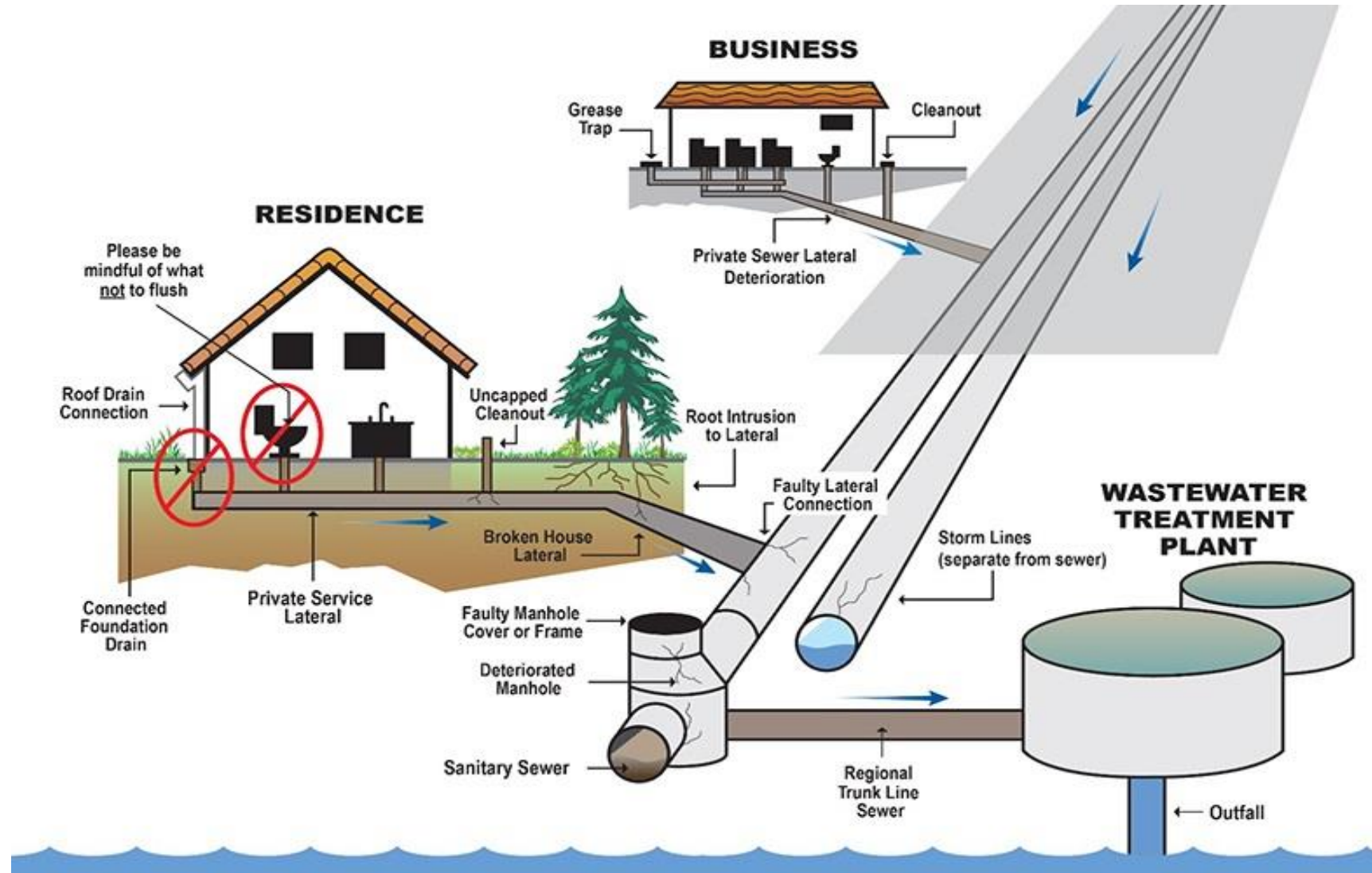
- 2,600 miles of sanitary sewer collection system pipes
- Over 70,000 manholes
- 63 lift stations
- 3 sewer basins
 - Snapfinger Basin – sewer is treated at Snapfinger Advanced Wastewater Treatment Plant
 - Pole Bridge Basin – sewer is treated at Pole Bridge Advanced Wastewater Treatment Plant
 - Intergovernmental Basin – sewer is treated by neighboring utilities (City of Atlanta, Fulton County, Gwinnett County)



DeKalb County Department of Watershed Management



Wastewater System Overview: What's a Gravity Sewer?



DeKalb County Department of Watershed Management's Engineering and Construction Management Division is leading the effort to repair and replace the county's aging infrastructure.

These repairs will:

- Reduce sewer system overflows
- Improve customer service
- Upgrade our communities for future generations



The Problem

Kerry Williams, P.E., PMP
Engineering Manager
DWM



The Problem

- Aging infrastructure and operational system inefficiencies
- Stormwater intrusion into the sanitary sewer system (I&I)
 - 2nd largest number of spills in the Green Street area
 - 22 spills since 2012 in this area

The Problem: Assessment

- Smoke testing
 - 84 cleanout caps that needed to be replaced
 - 7 laterals need rehabilitation
- Closed circuit TV
 - Identified over 20 pipes in upstream area with notable defects including holes, cracks, and fractures
 - These defects can allow groundwater/stormwater to enter the sewer using capacity
 - Rehabilitation of these defects (example on the right was lined Nov 2019) will reduce flow in the pipes
 - 2 vented manhole lids for replacement with solid lids
- Structural condition assessment and inspection
- Hydraulic modeling
- Acoustics



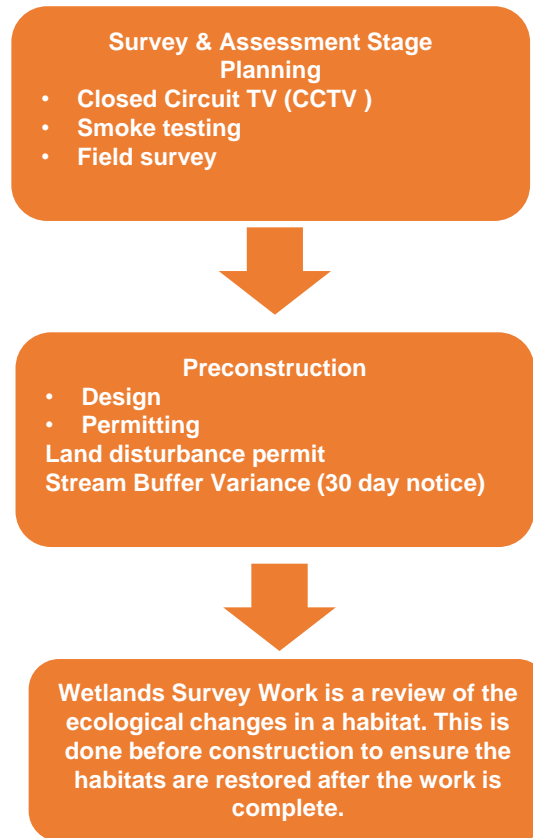


Project Overview & Timeline

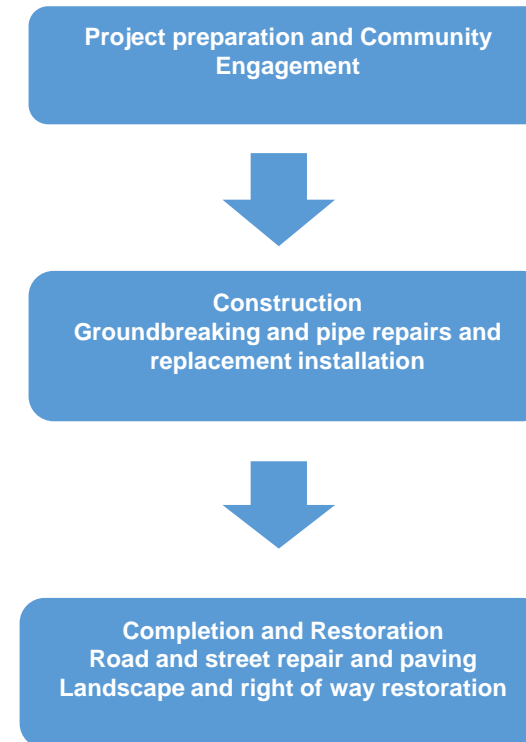
Tiffany Ware
Project Manager
DWM

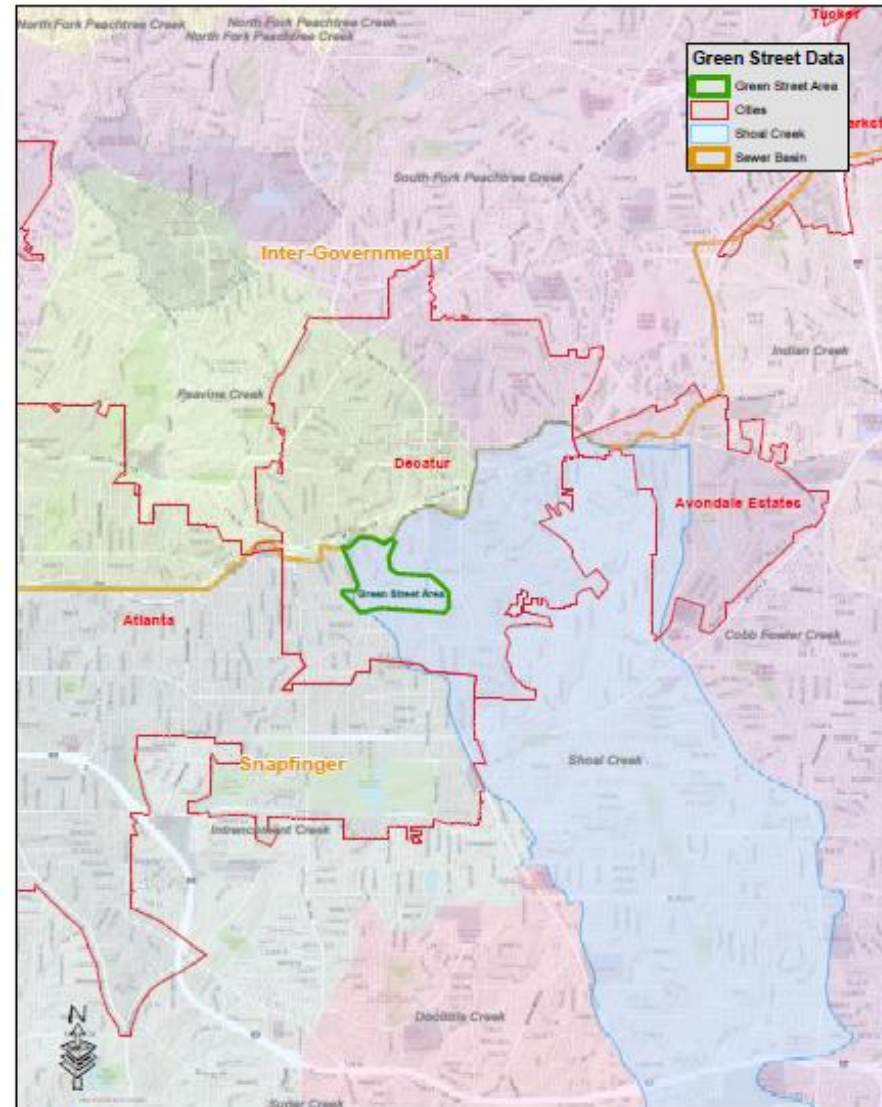


November 2018- December 2019



Spring 2020– Fall 2020

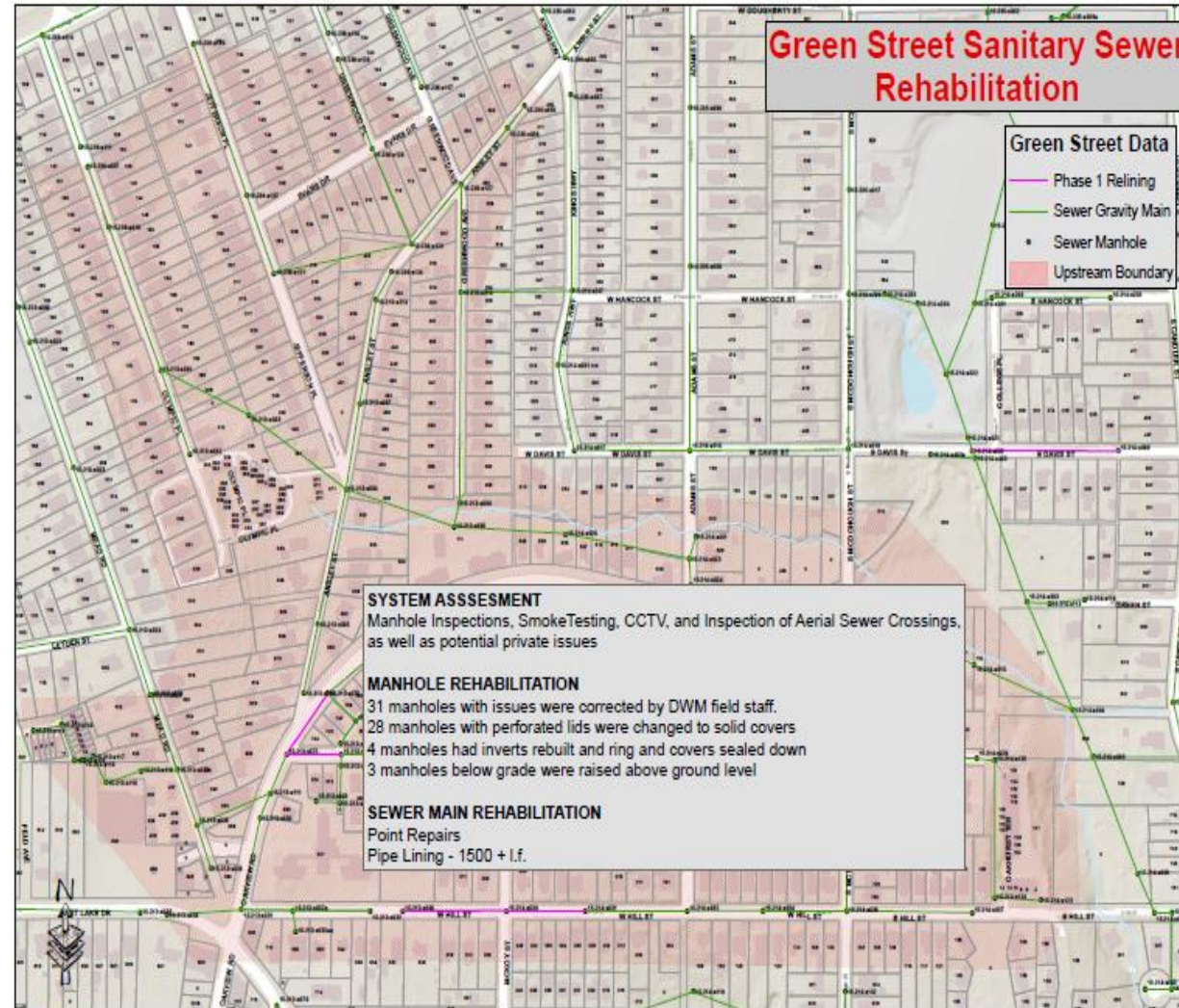






Scope of Work – Phase I

- Manhole rehabilitation
 - 31 manholes with issues were corrected by DWM field staff.
This consisted of the following:
 - **28 manholes with perforated lids were changed to solid covers**
 - **4 manholes had inverts reconstructed and ring and covers resealed**
 - **3 manholes below grade were raised above ground level**
- Point repairs
- Pipe lining

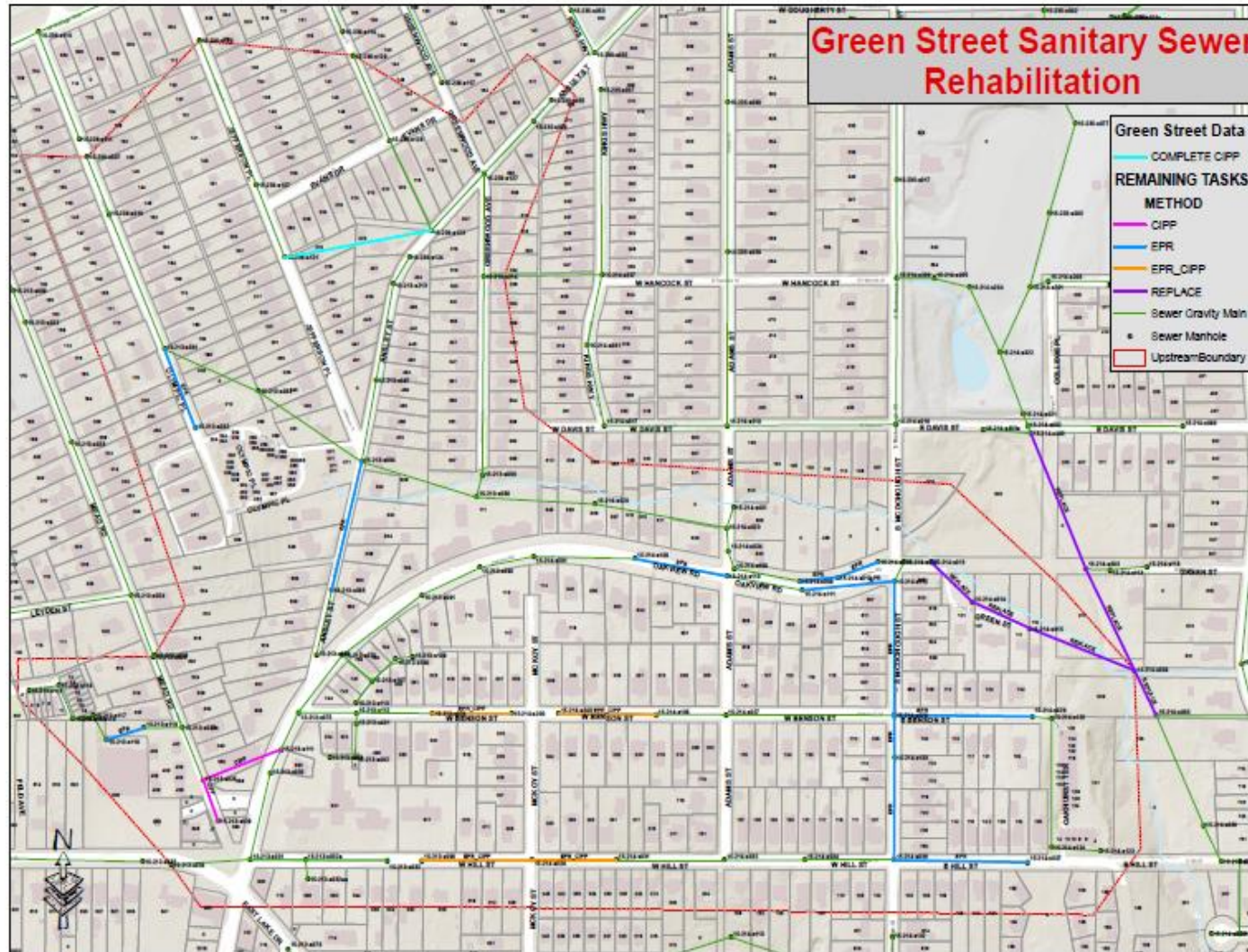


Phase I map



Scope of Work – Phase II (Cost of \$1.2 Million)

- Sewer Main Replacement
 - Replacing 8-inch sanitary sewer to 12-inch sanitary sewer by means of open cut and pipe bursting methods:
 - 500 feet of 8-inch will be pipe burst to 12-inch
 - 500 feet of 12-inch will be open cut replaced
 - 800 feet of 8-inch will be open cut replaced
 - 7 manholes replaced
 - One creek crossing replaced
- Within the Green Street area external point repairs, internal point repairs and Cured in Place Lining will be performed
 - 12 external repairs
 - 4 external point repairs then Cured in Place Pipe
 - 2 Cured in Place Pipe repairs



Phase II map

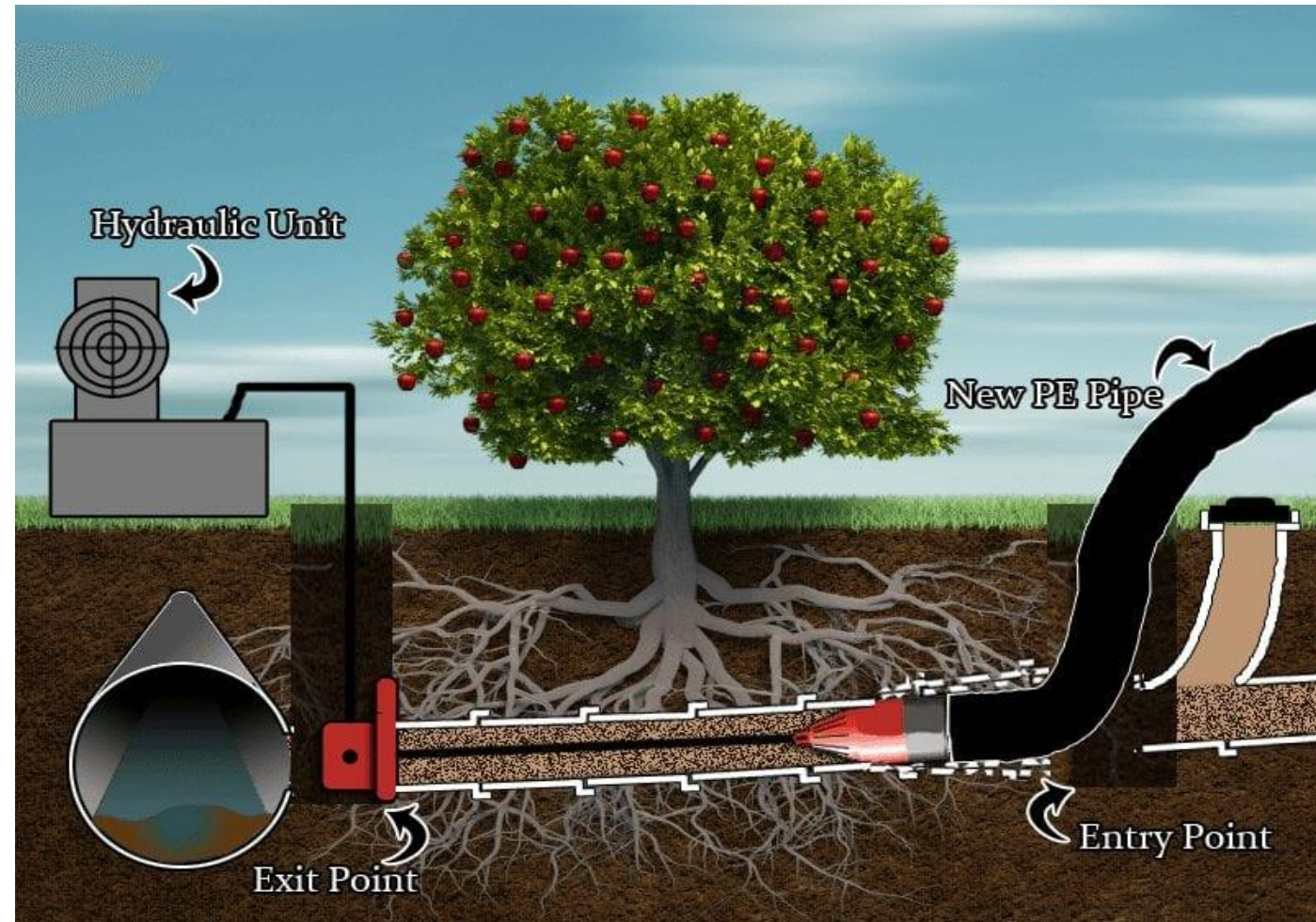


Project Overview & Methodology

Greg Gutzwiller
Project Manager
AECOM

Pipe Bursting Method

- Pipe bursting
 - Trenchless method
 - Protecting the environment and preserving trees





Duration of the Project:

- By-pass pumps will be in operation mode 24 hours a day/7 days a week once the construction begins. The sewer flows will dictate how often the by-pass pumps will cycle on and off.
 - 4 months – main work
 - 2 months – restoration work



Project – Phase III

Darren Eastall
Assistant Director
DWM



Scope of Work – Phase III

- Being developed and will focus on I&I (Inflow & Infiltration) reduction
- Will continue assessment of the area
- Will work to identify problems on the private system



Public Safety Response

Deputy Chief Scott Richards
Police Department
City of Decatur



- City of Decatur coordinating with DWM on this project
- Intermittent lane closures
- Minimal impact to the public
- City of Decatur point of contact:

Sgt. John Bender

678-553-6684

John.bender@decaturga.com



Communications Strategy

Alicia Pennie
Public Relations Manager
DWM



How will we keep in touch?

770.414.2355 (o)
404.398.4448 (f)
DeKalbCountyga.gov

Watershed Management
4372 Memorial Drive
Decatur, Georgia 30032

Month xx, 2019

Subject: Package III Gravity Sewer Project

Dear Resident,

As part of DeKalb County's \$1.345 billion capital improvement program, the Department of Watershed Management (DWM) will be improving the capacity and service of the Wastewater systems serving your community. The **Package III Gravity Sewer Project** will be designed to move wastewater from a lower elevation to a higher elevation. The gravity sewer improvement projects will provide maintenance ease, increase capacity and reduce sanitary sewer overflows in the Stone Mountain and Decatur area.

This letter serves as formal notification that construction activities associated with this project will begin **January 2019**. Normal construction hours will be from **7 a.m. to 7 p.m., Monday through Friday, excluding major holidays**. Property owners will be notified in advance of significant changes in scheduled work hours.

Please be advised to expect an **increase in construction-related noise and traffic, during work hours**. Property owners will be notified 48 to 72 hours prior to the start of impactful construction activities. Our construction crews will work diligently to minimize the length of impact to residents.

The gravity sewer improvement project is expected to last approximately 20 months, with construction completed in February 2020. Garney Construction, working on behalf of DeKalb County, is the authorized contractor for the **Package III Gravity Sewer Project**. All workers will be wearing proper identification and driving marked vehicles.

Should you have any questions or concerns regarding the **Package III Gravity Sewer Project**, please do not hesitate to contact the DWM Project Information line at 1-800-956-1108 or email projectinfo@dekalbcountyga.gov.

We appreciate your patience as we work diligently to make improvements to DeKalb County's sanitary sewer collection system.

Chief Executive Officer
Michael Thurmond

Board of Commissioners

District 1
Nancy Jester

District 2
Jeff Rader

District 3
Larry Johnson

District 4
Stephen Bradshaw

District 5
Merinda Davis Johnson

District 6
Kathie Cusack

District 7
Gregory Adams Sr.

Letters

Doorhangers

NOTIFICATION

Department of Watershed Management

Package III Gravity Sewer Project

The DeKalb County Department of Watershed Management's Office of Engineering & Construction Management Services (ECMS) has initiated a project to **design and build** a new wastewater treatment gravity sewer project.

Please be advised to expect **increased noise and traffic** during work hours. Signs and traffic flaggers will assist drivers in moving safely around the closures.

Work hours for the project will be from **7 a.m. – 7 p.m., Monday through Friday, excluding major holidays**. In some cases, weekend work may be necessary. Our construction crews will work diligently to minimize the length of impact to residents. Also, please note all staff working on behalf of DeKalb County will have proper identification and will drive marked contractor vehicles.

All inquiries about this project should be directed to projectinfo@dekalbcountyga.gov or 1-800-956-1108. We appreciate your patience as we work diligently to make improvements to DeKalb County's water distribution system.

[facebook.com/DeKalbCountyGA](#)[twitter.com/DeKalbCountyGA](#)

Chief Executive Officer - Michael Thurmond

01 – Carmen Nancy Jester 05 – Carmen Merinda Davis Johnson

02 – Carmen Jeff Rader 06 – Carmen Kathie Cusack

03 – Carmen Larry Johnson 07 – Carmen Greg Adams Sr.

04 – Carmen Steve Bradshaw

Email (HTML) Email (Plain Text)

Email

From: Watershed Management Department - DeKalb <dekalbcountywatershed@public.govdelivery.com>
Subject: American Fare Lift Station Abandonment and Gravity Sewer Construction Update



Text Messages



Touchpoints:

- Project Hotline
- Website
- Social Media
- News Release
- County Newsletter, The Relay
- DCTV
- Next Door
- Yard Signs
- Contractors
- FAQ



Customer questions?

- Project Information Line: 1-800-986-1108
- Email Queries: Projectinfo@dekalbcountyga.gov
- Website: www.dekalbcountyga.gov/greenstreetproject

Questions?

Zach Williams
Chief Operating Officer
DeKalb County



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