



Eastern Goochland Pump Station Force Main Replacement Project

Community Meeting
July 19, 2022

EGPS FM Replacement Project

Agenda

- Introductions
- Sign-in Sheet
- Project Overview
- Engineering & Design
- Construction Methods
- Next Steps
- Anticipated Schedule
- Questions

EGPS FM Replacement Project

Project Overview - History

- July 2021 – EGPS 48” force main ruptured, spilling untreated wastewater in the nearby surroundings
- Part of the spillage went into nearby Tuckahoe Creek, causing a recreation advisory for the James River by the Virginia Department of Health (VDH)
- To rectify the situation, Public Utilities (DPU) brought in a utility contractor to repair the pipeline and an environmental contractor to remediate the site.

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Project Overview - History

- DPU immediately hired Dewberry Engineers to study the pipeline and provide recommendations to permanently repair the line.
- Once study was complete, it was recommended to replace the first 11,000 feet of pipeline due to recent and previous failures of the line, and potential unknown construction flaws within that area of the line.
- Subsequently, Dewberry completed a Preliminary Engineering Report (PER) in December 2021 to determine the basis of design and provide a comprehensive construction cost estimate.

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Project Overview - History

- In January 2022, County contracted with Dewberry to develop design plans and specifications for replacement recommendations outlined in the PER.

EGPS FM Replacement Project

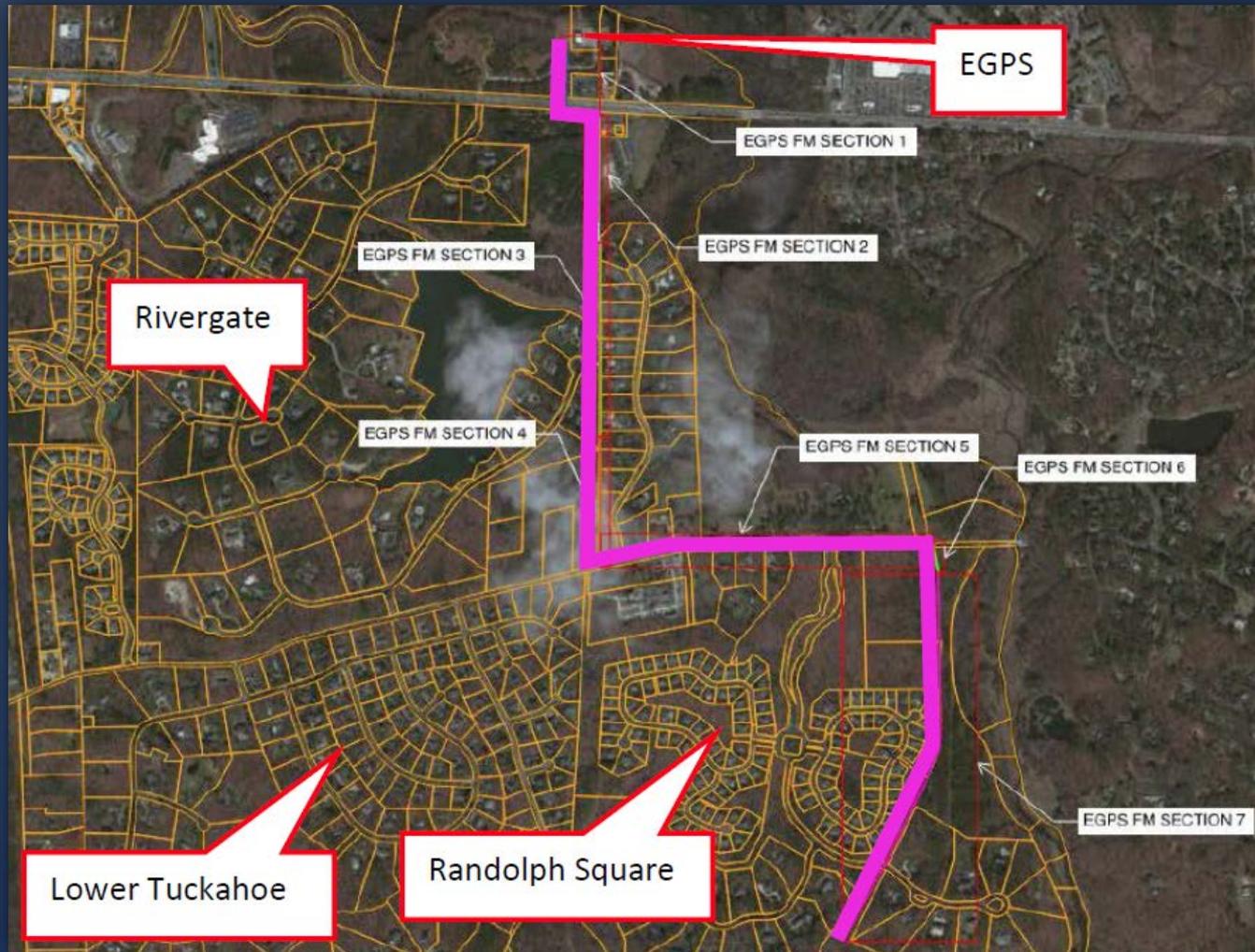
Project Overview – Goals

- Increase reliability and lifecycle of public infrastructure
- Protection of real estate and personal property
- Protection of the natural environment and waterways



EGPS FM Replacement Project

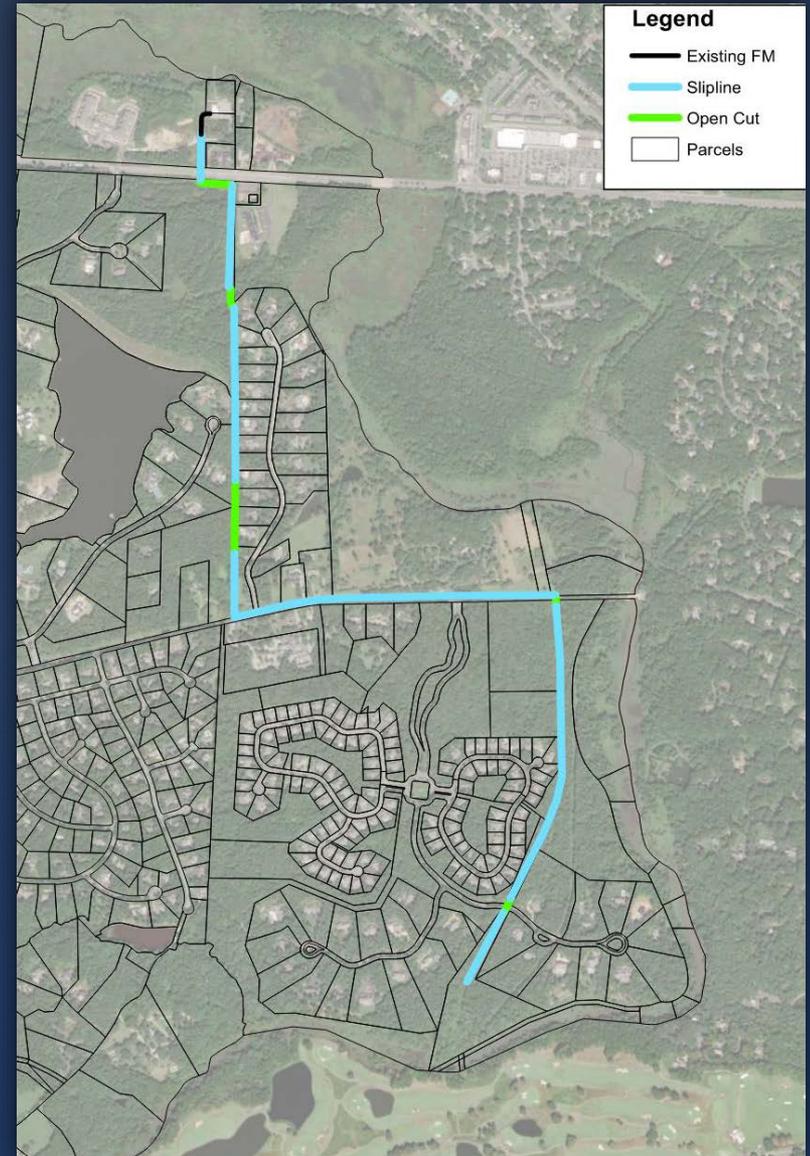
Engineering & Design



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Project Approach

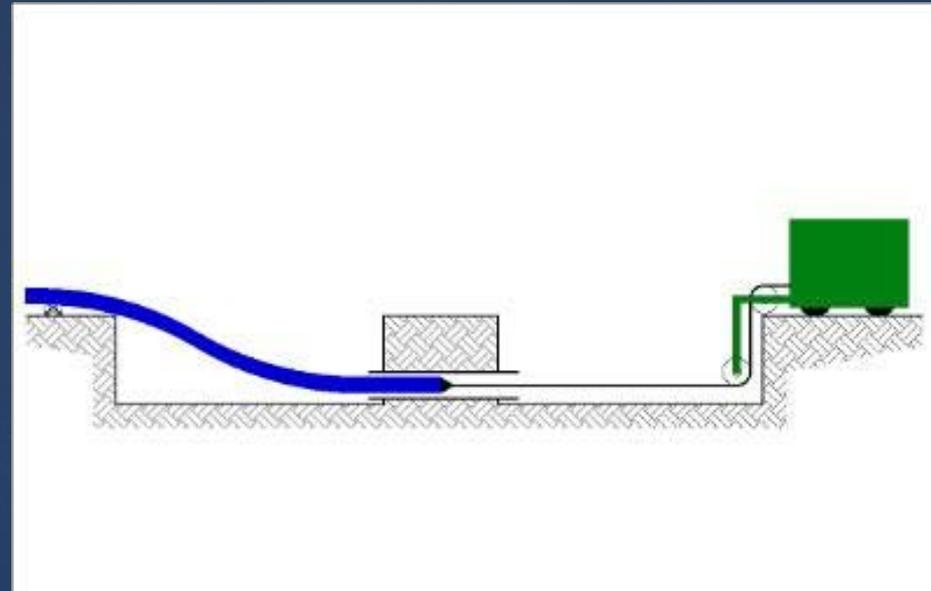
- New 42" High Density Polyethylene (HDPE) Force Main
- Combination of Sliplining and Open Cut Excavation
- Mitigate disturbance and community impacts
- Maintain reliability and provide a more robust solution



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Construction Methods – Sliplining

- Installation of smaller diameter pipe within larger diameter pipe
- Uses pulling or pushing to insert new pipe within existing pipe
- Limitations associated with existing pipe geometry, pull length and material limitations



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Construction Methods – Open Cut

- Open excavation for installation of new pipe
- Requires demolition and removal of existing pipeline
- Significant staging area requirements, material disposal, dewatering and other challenges
- Design limits amount of open cut excavation required to mitigate community impacts

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HDPE Pipe with Pulling Head



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Insertion Pit



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Pipe Staging for Open Cut



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Pipe Trenching



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Site Restoration

- All disturbed areas to be fully restored
- Seed mix will be installed after completion of construction
- Irrigation and decorative landscaping will be repaired and replaced

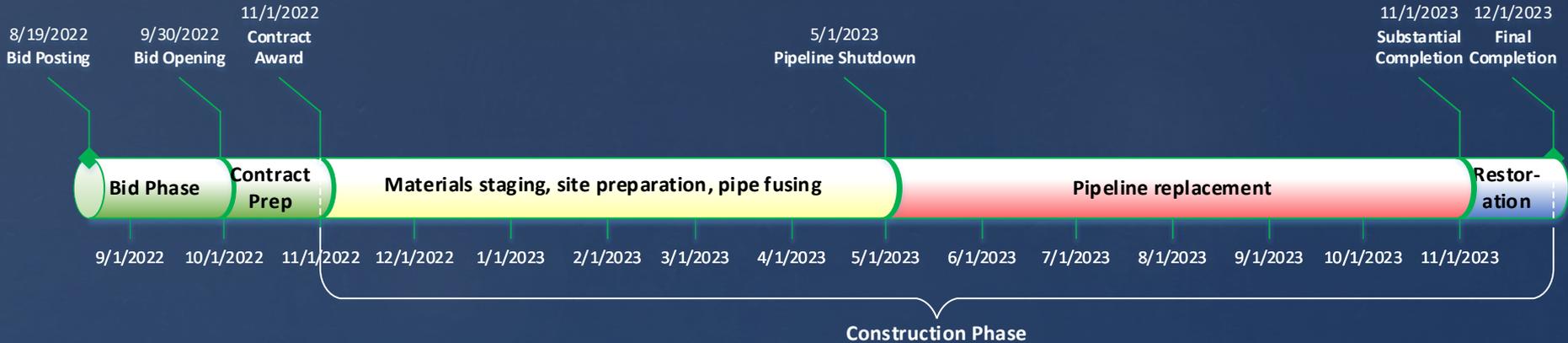
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Next Steps

- Complete construction drawings and specifications
- Bid project for construction
- Award construction contract
- Complete construction
- Commission new pipeline

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Anticipated Schedule



Milestones:

- November 2022 – Board of Supervisors Contract Award
- November 2023 – Substantial Completion of Construction
- December 2023 – Site Restoration & Final Completion

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Project Website

<https://www.goochlandva.us/1225/Eastern-Goochland-Pump-Station-Forcemain>

The screenshot shows a web browser displaying the Goochland County Public Utilities website. The browser's address bar shows the URL: <https://www.goochlandva.us/235/Public-Utilities>. The website features a dark blue header with an "INFORMATION ALERT" for the June 16th Storm Recovery. Below the header is a navigation menu with categories: YOUR GOVERNMENT, CITIZEN & BUSINESS SERVICES, YOUR COMMUNITY, TRANSPARENCY, and HOW DO I... The main content area has a background image of a park and includes the Goochland County logo, social media icons for Facebook, Instagram, Twitter, and YouTube, and a search bar. A sidebar on the left lists various utility projects, with "Eastern Goochland Pump Station Forcemain Replacement Project" circled in red. The main content area is titled "Public Utilities" and provides information about the department's responsibilities and contact details. A "Contact Us" section on the right identifies Matt Longshore, P.E., as the Director of Public Utilities, with an email address utilities@goochlandva.us and a mailing address in Goochland, Virginia.

Public Utilities | Goochland Coun x +

https://www.goochlandva.us/235/Public-Utilities

INFORMATION ALERT June 16th Storm Recovery Info & Resources as of June 18th
[Read On...](#)

Create an Account - Increase your productivity, customize your experience, and engage in information you care about. [Sign In](#)

YOUR GOVERNMENT **CITIZEN & BUSINESS SERVICES** **YOUR COMMUNITY** **TRANSPARENCY** **HOW DO I...**

GOOCHLAND COUNTY

Facebook Instagram Twitter YouTube Search...

Utility Master Plan 2020-2045

Water Supply Plan

Department Standards

Backflow Prevention

Hickory Haven/Samary Forest Sewer Line Project

Huguenot Hills CIP Projects

Eastern Goochland Pump Station Forcemain Replacement Project

Home » Your Government » Community Development » Public Utilities

Public Utilities

The Department of Public Utilities is responsible for the operation and maintenance of public drinking water and wastewater services to the entire County. The County is separated into both the courthouse and eastern (to include the Tuckahoe Creek Service District) regions. We are committed to offering our customers safe, high quality drinking water and safe removal of wastewater.

As water travels over the land or underground, it can pick up substances or contaminants. To insure the delivery of safe, quality drinking water, EPA regulations limit the amount of certain contaminants permitted in tap water. Our department collects water samples throughout the year. Periodic independent laboratory testing is performed on these samples to ensure the water is within these limits and safe to drink.

Contact Us

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QUESTIONS?