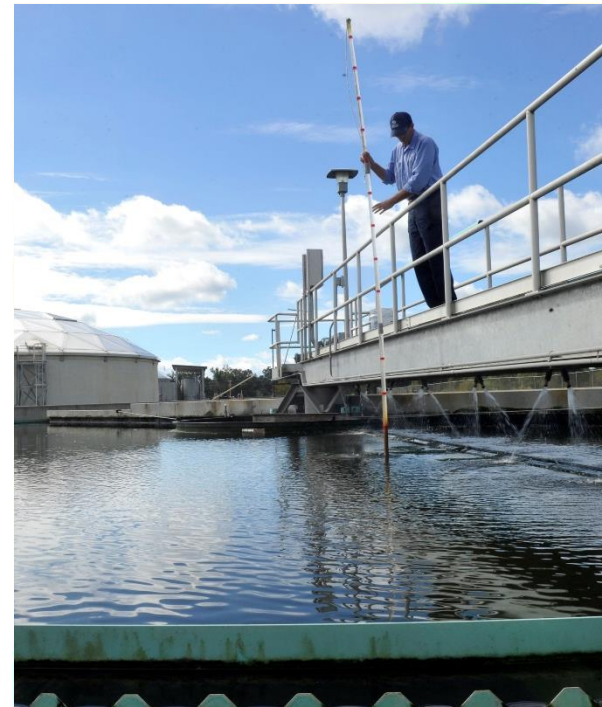




West Fork 12-Mile Creek

Project Overview

May 10, 2018





Introduction



Scott Huneycutt
Engineering Division Director
Union County Public Works



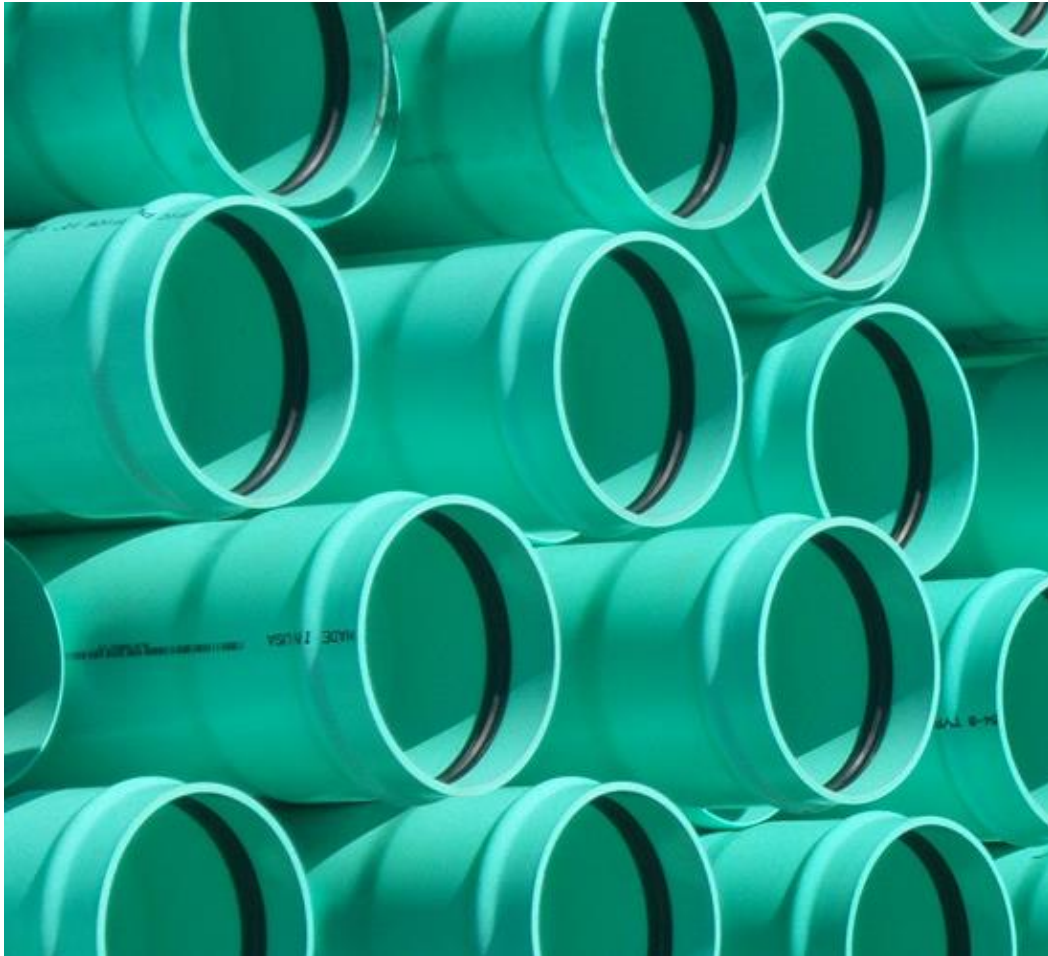
John Shutak
CIP Program Manager
Union County Public Works



Michael Caldwell
Project Manager
Union County Public Works



Brookes Versaggi
Community Relations Manager
Union County Public Works



AGENDA

- 1 Planning & Need
- 2 Service Area
- 3 Project Overview
- 4 Concerns
- 5 Community Outreach
- 6 Project Schedule
- 7 Summary



Planning Process

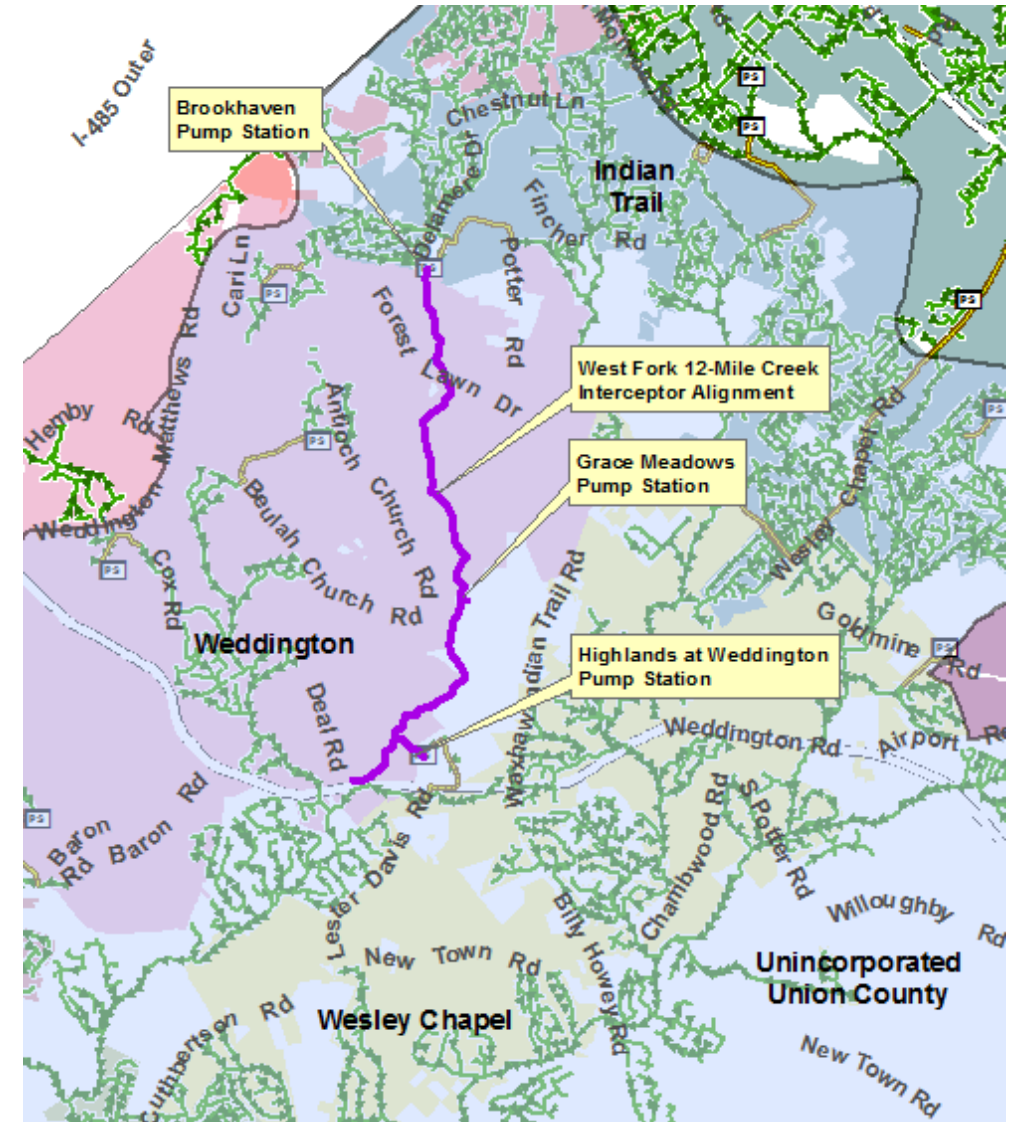
- Project Identified in 2011 Comprehensive Master Plan
- Project need and concept validated in 2016 Wastewater Master Plan Update
- Master plans are presented and adopted by the Board of County Commissioners
- Master plans are available online at:
 - 2011 Master Plan, http://www.co.union.nc.us/application/files/9814/9625/5690/UC_Master_Plan_Report_FINAL.pdf
 - 2016 Wastewater Master Plan Update, http://www.co.union.nc.us/application/files/5014/9633/2679/UC_Waste_water_MP_Update_-_FINAL.pdf
- Capital Improvement Projects throughout the County can be viewed online at:
 - <http://gis-web.co.union.nc.us/UnionCIP>





Project Need

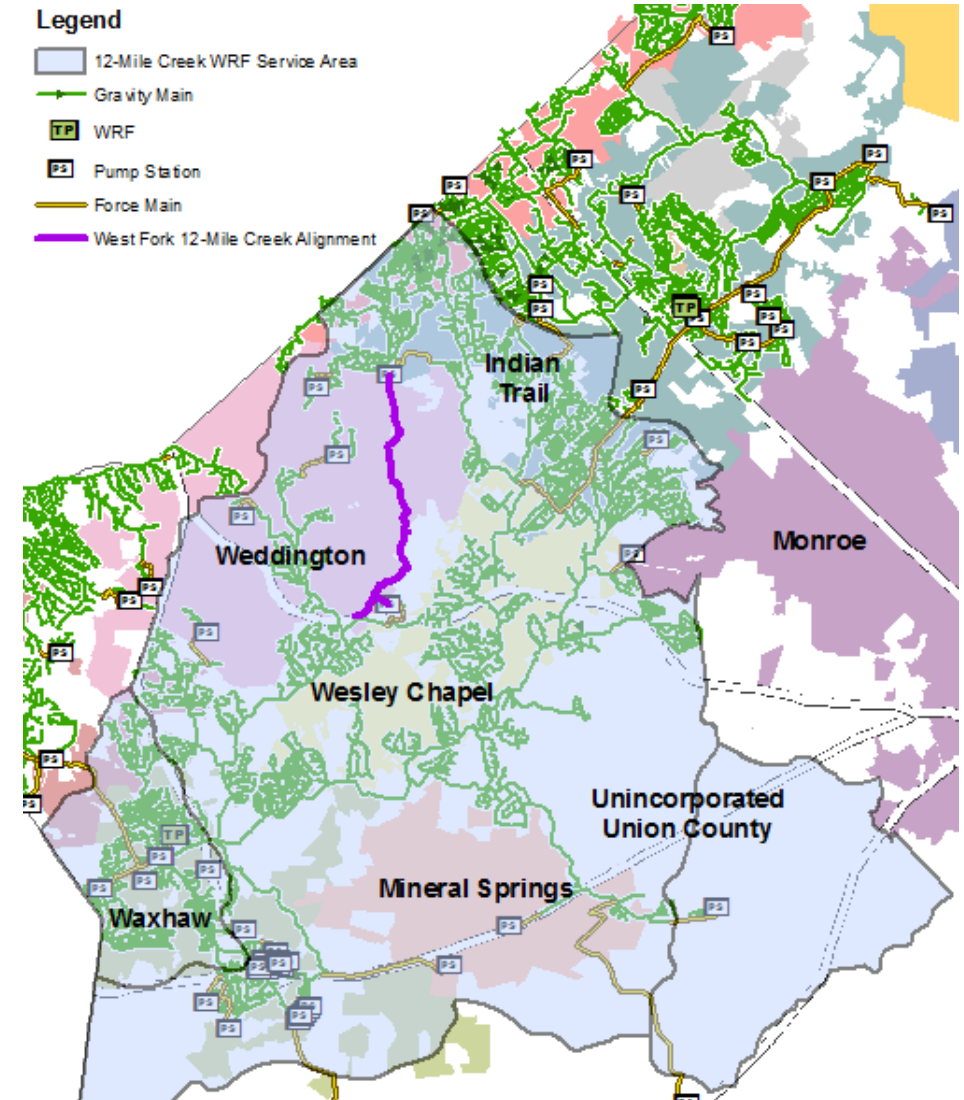
- Alleviates capacity limitations within the 12-Mile Creek sewer system
- Will serve existing residents and accommodates anticipated growth in accordance with the adopted Town of Weddington Land Use Plan
- Allows for a number of pump stations to be taken out of service, which lowers operation and maintenance costs





12-Mile Creek Basin Service Area

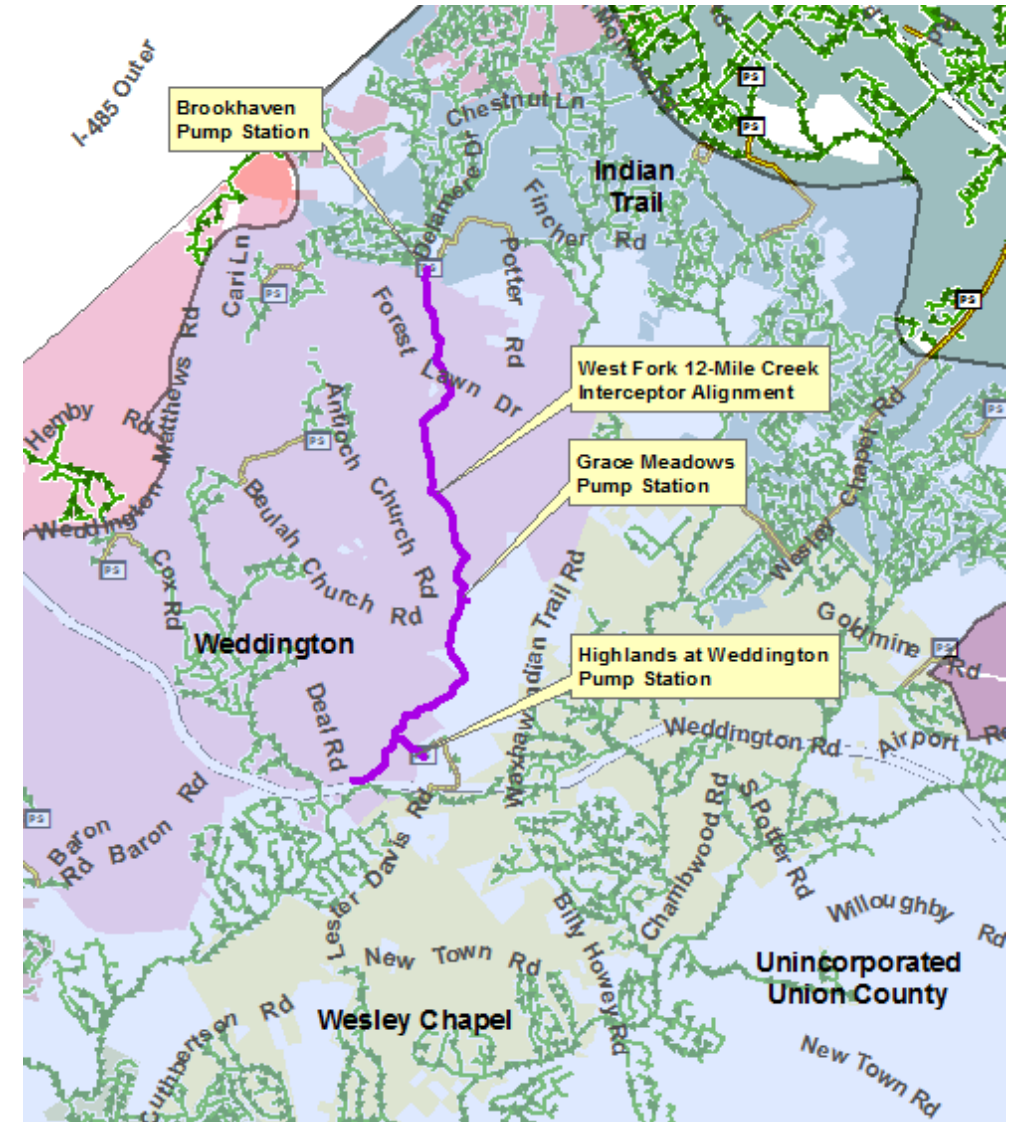
- The 12-Mile Creek WRF and collections system provides service to the municipalities of Waxhaw, Weddington, Wesley Chapel, Indian Trail, Mineral Springs, as well as areas of unincorporated Union County
- The 12-Mile Creek service area encompasses approximately 100 square miles.
- The sewer basin is served by 37 pump stations and approximately 327 miles of gravity sewer lines and 20 miles of force main lines.





Project Overview

- Project includes installation of approximately 25,000 feet of 24-inch, 18-inch, and 8-inch gravity sanitary sewer piping.
- Project limits are from the intersection of 12-Mile Creek and Weddington Road north, generally along the West Fork of 12-Mile Creek, to the existing Brookhaven Pump Station north of Forest Lawn Drive.
- Project provides capacity for anticipated demands through planning year 2050.





Concerns

Odor

- Gravity sewer lines mean constant movement, i.e. less odor
- Project will eliminate 3 pump stations from service area

Property Value

- Sewer capability preferred by most home buyers instead of septic

Service Area

- Includes current and future Weddington development
- Should individual systems fail, public sewer will be available to property owners near pipe route

Construction Activities

- Corridor width is minimized to allow access for equipment and installation of the pipeline
- Disturbed areas are restored
- Surface features are restored to equal or better condition





Community Outreach

- April 2017
 - Project Notification for survey and initial groundwork activities
- November 2017
 - Route Evaluation Technical Memorandum completed
- February 2018
 - 1st Public Meeting held
- March 2018
 - 2nd Public Meeting held
- March-April 2018
 - Easement offer letters mailed as alignment has been refined to accommodate property owner concerns.





Project Schedule

- July-August 2018
 - Completion of easement acquisition, permitting and final design activities
- August-October 2018
 - Advertise, award, and contract for construction
- Nov. 2018-May 2020
 - Construction
- May 2020 – May 2021
 - Warranty period following completion of construction activities





Summary

- Benefits for current and future Weddington development
- Currently finalizing the design and permitting phase of project
- Project design minimizes the potential for odors
- Currently meeting with homeowners along pipeline route to acquire easements
- Preparing for construction





Thank you

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