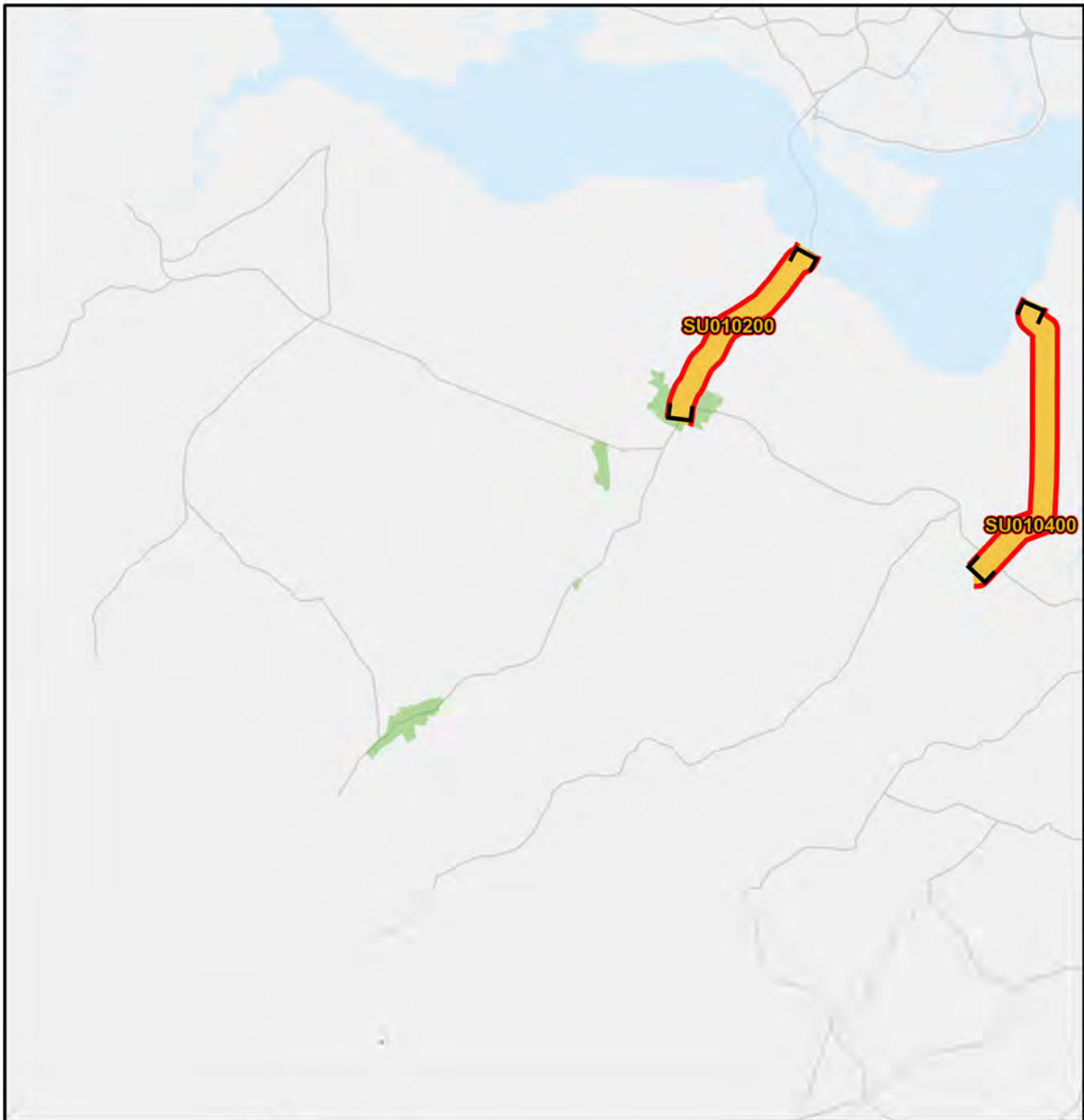


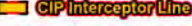
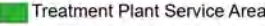
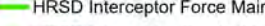
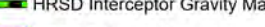
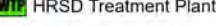
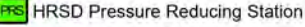
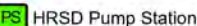
Surry Treatment Plant



Photo Credit: VDOT



Legend

-  WTP Surry
-  CIP Interceptor Point
-  CIP Pump Station Point
-  CIP Interceptor Line
-  CIP Abandonment
-  Treatment Plant Service Area
-  HRSD Interceptor Force Main
-  HRSD Interceptor Gravity Main
-  WTP HRSD Treatment Plant
-  PRS HRSD Pressure Reducing Station
-  PS HRSD Pump Station

0 4,500 9,000 18,000 27,000 36,000 Feet

Surry Service Area CIP Projects

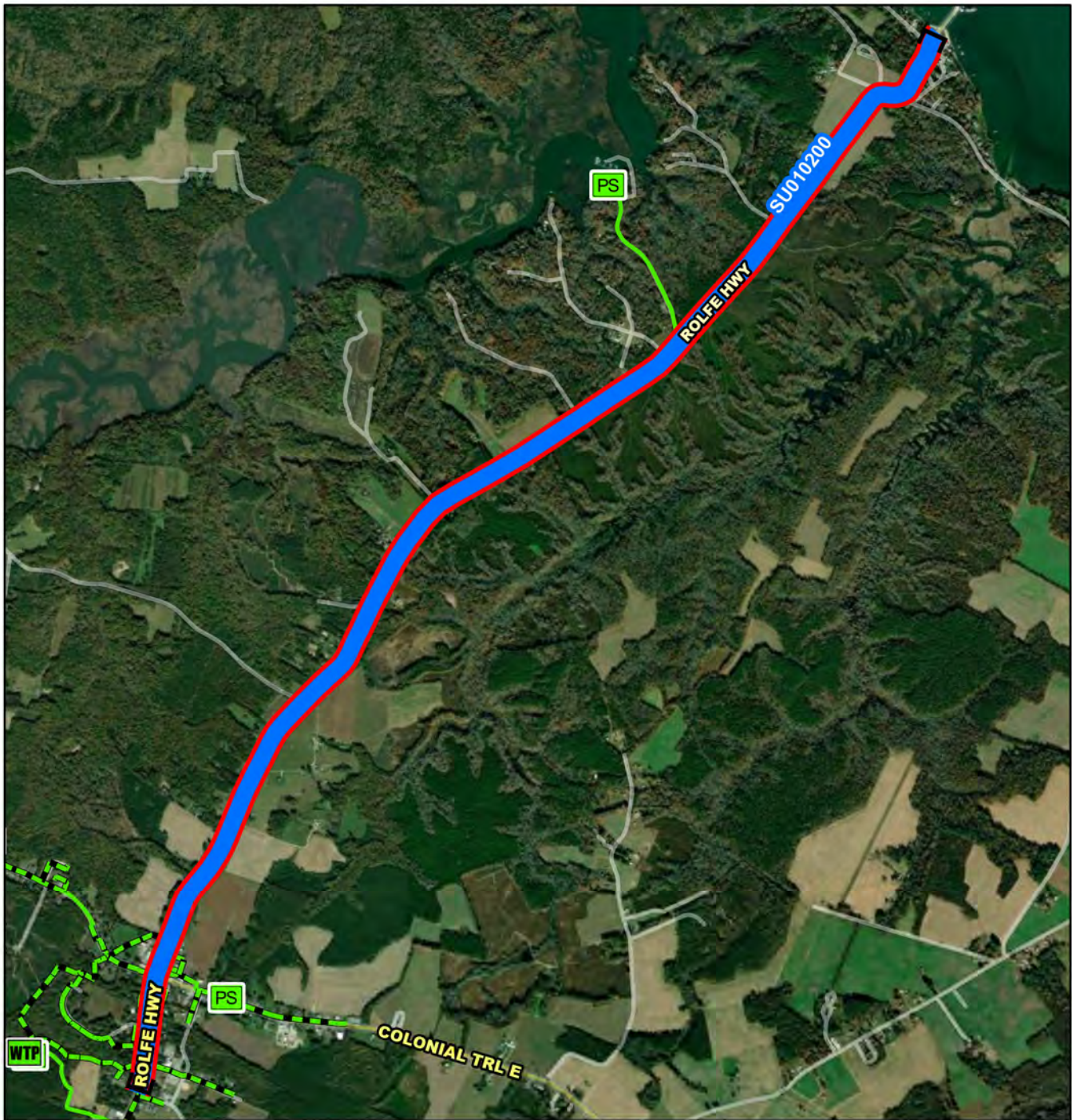
Treatment Plant Projects



CIP Location



Service Area



SU010200

- Project Interceptor Line
- Project Interceptor Point
- Project Location Point
- Project Area

Legend

- ★ CIP Interceptor Point
- ☆ CIP Pump Station Point
- CIP Interceptor Line
- CIP Abandonment
- CIP Project Area
- HRSD Interceptor Force Main
- HRSD Interceptor Gravity Main
- WTP HRSD Treatment Plant
- PS HRSD Pressure Reducing Station
- PS HRSD Pump Station

0 500 1,000 2,000 3,000 4,000 Feet

SU010200

Surry Hydraulic Improvements and Interceptor Force Main



CIP Location





System: Surry
Type: Pipelines

Driver Category: Aging Infrastructure/Rehabilitation
Project Phase: Design
Regulatory: Consent Decree - Surry

PROGRAM CASH FLOW PROJECTION (\$,000)

Prog Cost	Exp to Previous Year	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY33	FY34	FY35
\$44,264	\$43,733	\$530	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT DESCRIPTION

The project will include the design and construction of three new pump stations; replacement of three existing pump stations and upgrades to three existing pump station upgrades in addition to electrical, instrumentation and controls, a generator at each pump station, SCADA for three existing pump stations, an equalization tank, approximately 131,200 LF of force main ranging from 4-inch diameter to 10-inch diameter; and the closure of both the Surry County Wastewater Treatment Plant (WWTP) and the Town of Surry WWTP. Flow will be conveyed to existing HRSD infrastructure in the Town of Smithfield, and will ultimately be treated at Nansemond Treatment Plant.

PROJECT JUSTIFICATION

HRSD is under a consent order with the state to decommission the Town of Surry Treatment Plant. Consent Order deadline of December 31, 2022 was met (Substantial Completion for Consent Order work was achieved on November 17, 2022). Additional work not specifically by the Consent Order has been incorporated into this project to improve the operations and reliability of the sanitary sewer system in Surry.

FUNDING TYPE

Funding Type: Revenue Bond

CONTACTS

Contacts-Requesting Dept: General Manager
Contacts-Dept Contacts: Ann Copeland
Contacts-Managing Dept: Engineering

PROPOSED SCHEDULE START DATE

PrePlanning	08/14/2017
PER	05/01/2018
Design Delay	02/01/2019
Design	02/01/2019
Bid Delay	02/01/2019
PreConstruction	11/18/2022
Construction	12/01/2019
Closeout	11/01/2025

COST ESTIMATE

Cost Estimate Class:	Class 1 (-3% to +15%)
PrePlanning	\$4,465
PER	\$2,264
Design	\$44,172,628
PreConstruction	\$0
Construction	\$84,249
Closeout	\$0
Est. Program Cost	\$44,263,606
Contingency Budget	\$250,000
Est. Project Costs	\$44,513,606



SU010400

- Project Interceptor Line
- Project Interceptor Point
- Project Location Point
- Project Area

Legend

- ★ CIP Interceptor Point
- ☆ CIP Pump Station Point
- CIP Interceptor Line
- CIP Abandonment
- CIP Project Area
- HRSD Interceptor Force Main
- HRSD Interceptor Gravity Main
- WTP HRSD Treatment Plant
- PRS HRSD Pressure Reducing Station
- PS HRSD Pump Station

0 1,250 2,500 5,000 7,500 10,000 Feet

SU010400

Surry Force Main and Pump Station-Dominion Power Extension

HRSD

N
W E
S

CIP Location

System: Surry
Type: Pipelines

Driver Category: Capacity Improvements
Project Phase: Design
Regulatory: None

PROGRAM CASH FLOW PROJECTION (\$,000)

Prog Cost	Exp to Previous Year	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY33	FY34	FY35
\$10,640	\$4,299	\$5,807	\$530	\$4	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT DESCRIPTION

This project will provide a new 6.7 mile force main and pump station extending from the Surry Nuclear Power Plant to HRSD's Mt. Ray Pump Station. The project will be fully reimbursed through a cost sharing agreement with Dominion Virginia Power.

PROJECT JUSTIFICATION

Dominion has contacted HRSD about the possibility of abandoning their existing wastewater treatment plant and connecting to HRSD's Surry Interceptor Force Main at the Mt. Ray Pump Station. This proposed 6-inch force main will be located along both public and private property along the suggested route. A pump station will be constructed at the Surry Nuclear Power Facility and will be ultimately owned and operated by HRSD. A multi-step cost sharing agreement process will be used to consider the feasibility of this project. Most of the project costs will be borne by Dominion.

FUNDING TYPE

Funding Type: Cash

CONTACTS

Contacts-Requesting Dept: Operations-Interceptors
Contacts-Dept Contacts: Ann Copeland
Contacts-Managing Dept: Engineering

PROPOSED SCHEDULE START DATE

PrePlanning	04/27/2021
PER	06/02/2021
Design Delay	02/14/2022
Design	01/10/2023
Bid Delay	02/01/2025
PreConstruction	02/01/2025
Construction	01/01/2025
Closeout	08/01/2026

COST ESTIMATE

Cost Estimate Class:	Class 1 (-3% to +15%)
PrePlanning	\$0
PER	\$0
Design	\$8,233,277
PreConstruction	\$0
Construction	\$50,000
Closeout	\$50,000
Est. Program Cost	\$8,333,277
Contingency Budget	\$2,470,000
Est. Project Costs	\$10,803,277