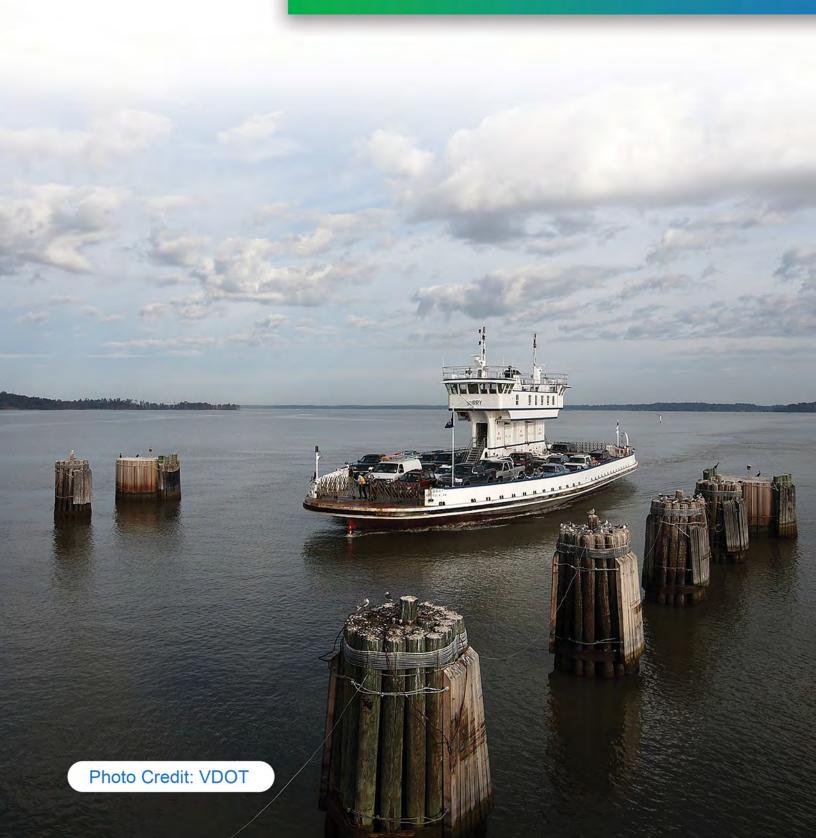
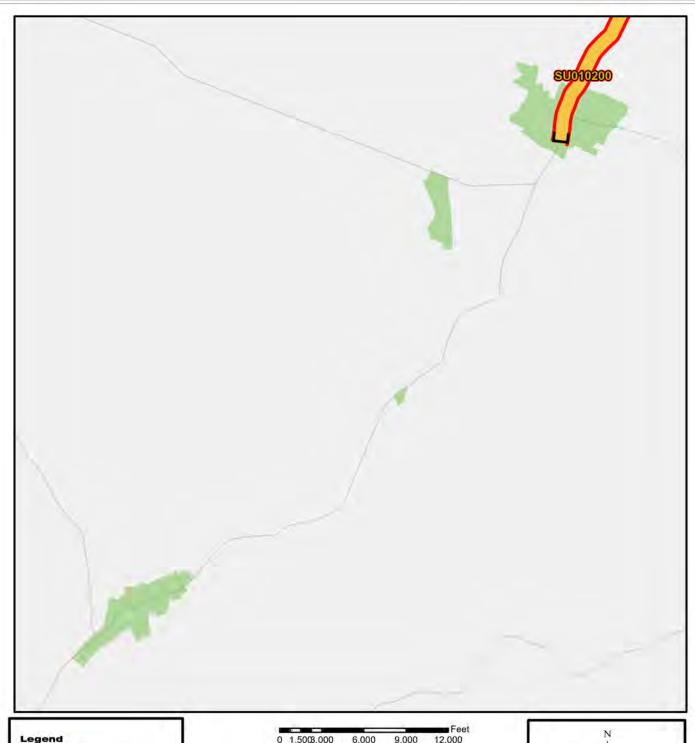
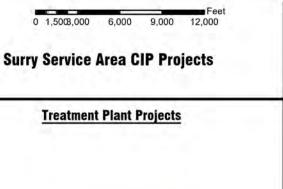
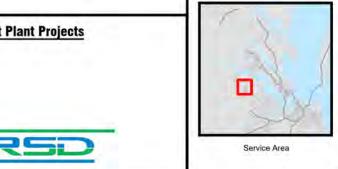
Surry Treatment Plant



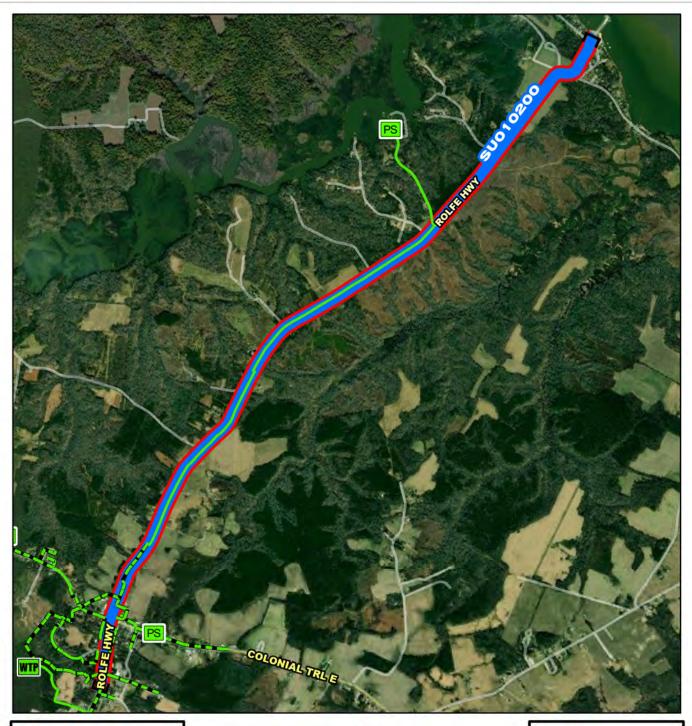








CIP Location





Project Interceptor Line

Project Interceptor Point

Project Pump Station 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

RSD Pressure Reducing Station

PS HRSD Pump Station

0 500,000 2,000 3,000 4,000

SU010200

Surry Hydraulic Improvements and Interceptor Force Main







Surry Hydraulic Improvements and Interceptor Force Main

PR_SU010200

System: Surry Driver Category: Aging Infrastructure/Rehabilitation Type:

Pipelines Project Phase: Design

Consent Decree - Surry Regulatory:

PROGRAM CASH FLOW PROJECTION (\$,000)

Prog Cost	Exp to Previous Year	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY33
\$42,696	\$42,040	\$655	\$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 two 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.

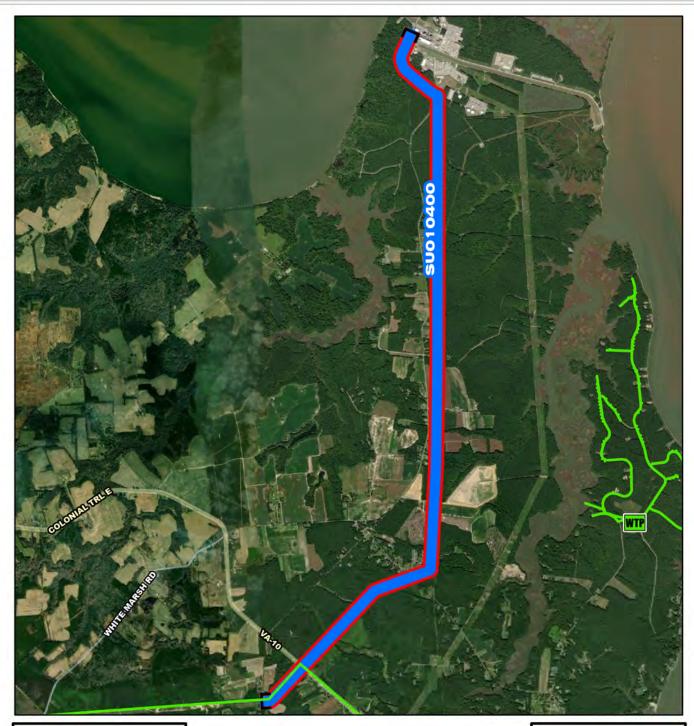
PROJECT JUSTIFICATION

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).

FUNDING TYPE		CONTACTS
Funding Type:	Revenue Bond	Contacts-Requesting Dept: General Manager Contacts-Dept Contacts: Ann Copeland Contacts-Managing Dept: Engineering
PROPOSED SCH	IEDULE START DATE	COST ESTIMATE
PrePlanning PER Design Delay Design Bid Delay PreConstruction Construction Closeout	08/15/2017 05/01/2018 02/01/2019 02/01/2019 02/01/2019 02/01/2019 02/01/2019 12/01/2023	Cost Estimate Class: Class 1 PrePlanning \$0 PER \$0 Design \$42,615,671 PreConstruction \$0 Construction \$79,909 Closeout \$0 Est. Program Cost \$42,695,580 Contingency Budget \$1,825,830

Est. Project Costs

\$44,521,410





- Project Interceptor Line
- Project Interceptor Point
- Project Pump Station 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
- RSD Pressure Reducing Station
- PS HRSD Pump Station

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

SU010400

Surry Force Main and Pump Station-Dominion Power Extension







Surry Force Main and Pump Station-Dominion Power Extension

PR_SU010400

System: Surry Type: Pipelines Driver Category: Capacity Improvements

Project Phase: PER Regulatory: None

PROGRAM CASH FLOW PROJECTION (\$,000)

Prog Cost	Exp to Previous Year	FY24	FY25	FY26	FY27	FY28	FY29	FY30	FY31	FY32	FY33
\$8,314	\$3,509	\$4,804	\$0	\$0	\$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		CONTACTS	
Funding Type:	Cash	Contacts-Requesting Dept: Contacts-Dept Contacts: Contacts-Managing Dept:	Operations-Interceptors Ann Copeland Engineering
PROPOSED SC	HEDULE START DATE	COST ESTIMATE	
PrePlanning	04/27/2021	Cost Estimate Class:	Class 1
PER	06/02/2021	PrePlanning	\$0
Design Delay	02/14/2022	PER	\$0
Design	01/01/2023	Design	\$8,243,277
Bid Delay	08/01/2023	PreConstruction	\$0
PreConstruction	08/01/2023	Construction	\$0
Construction	03/01/2024	Closeout	\$0
Closeout	05/01/2025	Est. Program Cost	\$8,243,277
		Contingency Budget	\$2,470,000

Est. Project Costs

\$10,713,277