ANNUAL REPORT
FY 2025

Hampton Roads Sanitation District
1434 Air Rail Avenue
Virginia Beach, VA 23455

October 30, 2025

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1. INTRODUCTION AND PURPOSE

On February 23, 2010, HRSD entered into an Amended Consent Decree ("Consent Decree") with the United States of America and the Commonwealth of Virginia for the purpose of fulfilling the objectives of the Clean Water Act and the Virginia State Water Control Law. This Consent Decree has been amended five times by agreement of all parties in 2011, 2013, 2014, 2017, and 2022. The Fifth Amendment outlines the approved Integrated Plan, which was signed by the Hon. Arenda L. Wright Allen on February 8, 2022. In December 2014, the Special Order by Consent (SOC) with the DEQ and thirteen localities was modified and HRSD is no longer part of that order. HRSD and the Agencies entered into a Sixth Amendment to the Consent Decree on January 19, 2024 that made a number of changes to a range of projects and activities.

The approved Integrated Plan requires HRSD to perform, among other things, the following tasks:

- Implement a flow, pressure, and rainfall monitoring program;
- Coordinate with the Localities to develop a Regional Hydraulic Model;
- Prepare a plan for and conduct a condition assessment program;
- Construct specified interim system improvements;
- Develop and implement a Sanitary Sewer Overflow (SSO) Response Plan;
- Develop a Regional Wet Weather Management Plan in consultation with the Localities;
- Update and implement a Management, Operations and Maintenance (MOM) Program; and
- Prepare and submit a variety of periodic and event-driven reports
- Rehabilitation Action Plan projects
- High Priority Projects
- Aquifer Replenishment Program (ARP) also known as SWIFT
- Microbial Source Tracking

This annual report is submitted pursuant to Section XVII of the Consent Decree. HRSD has prepared this annual report in accordance with the above requirements to apprise the EPA (representing the United States of America) and the DEQ (representing the Commonwealth of Virginia) of steps taken toward meeting the obligations of the Consent Decree. Specifically, this annual report summarizes the work and activities undertaken by HRSD from July 1, 2024, through June 30, 2025, and the resulting benefits to the sanitary sewer system.

2. ACTIVITIES UNDERTAKEN PREVIOUS FISCAL YEAR

2.1 Flow, Pressure, and Rainfall Monitoring Program

2.1.1 Ongoing System Monitoring

Following completion of the 12-month flow, pressure, and rainfall monitoring period on March 11, 2011, HRSD continues to maintain a wide-scale monitoring network. Regular manual data review has been conducted to verify data reliability. In FY 2025, HRSD made various changes to its monitoring network. Table 2-1 below lists the significant changes in detail.

Table 2-1. FY 2025 Flow, Pressure, and Rainfall Monitoring Actions

Site	Location	Measurement	Added/Removed
MMPS-023	HRSD PCV - Williamsburg TP Influent PCV	Flow_30in	Added
MMPS-023	HRSD PCV - Williamsburg TP Influent PCV	Flow_36_NF-192	Removed
MMPS-299	HRSD SP - Courthouse Interim PRS	Pressure	Removed
MMPS-009	HRSD SF - Elbow Rd	Rain Gauge	Removed
MMPS-108	HRSD SF - Hickory_EOL	Rain Gauge	Added
MMPS-221	HRSD SF – Cedar Rd @ Dominion Blvd	Rain Gauge	Added
MMPS-259	Ches PS – Chesapeake PS 238	Rain Gauge	Removed
MMPS-332	HRSD SP – Elbow Rr PRS	Rain Gauge	Added
MMPS-085	HRSD NF – Gloucester Point	Flow	Removed

A portal to allow access for the Localities to the HRSD flow, pressure, and rainfall data from the FPR sites (AVEVA PI server data) continues to be used and enhanced.

2.2 Condition Assessment Plan

2.2.1 Rehabilitation Action Plan Implementation

The approved Rehabilitation Action Plan contains 61 projects plus the FCAR Table 3-10 projects to be completed in three phases. Table 2-1 shows the status of the Plan phases through December 31, 2024. One project in Phase 1 (CE-R3) and one in Phase 2 (GN-R11) were cancelled with EPA/DEQ approval. Additionally, VIP-R6 was moved from Phase 1 to Phase 2 on April 7, 2020.

Table 2-2. Rehabilitation Action Plan Phase Status				
Phase	Number of Projects Completed	Total Number of Projects	Estimated Cost of Completed Projects	Estimated Total Cost of All Projects in Phase
0	10	10	$28,178,596	$28,178,596
1	19	19	$76,646,832	$76,646,832
2	15	31	$87,156,834	$532,038,517

Projects completed this period are included in Appendix A project certifications and are as follows:

- BH-R12, 46th St Diversion Rehab Replacement
- CE-R6, Birchwood Trunk 24"/30" Force Main at Independence Boulevard Replacement Phase II
- GN-R8, Int System Valve Replacements Phase I
- GN-R10, Multiple CIPs and Projects
- VIP-R9, Lee Avenue – Wesley Street Horizontal Valve Replacement
- YR-R2, Foxwood, Woodland Rd, and Foxhill Rd Gravity Sewer Rahab

2.3 Interim System Improvements

Appendix 5 to the Consent Decree lists thirty-three projects that are required to be completed within 8 years of the Date of Entry of the Consent Decree. The modification to the Consent Decree in FY 2013 has added eighteen (18) new projects for a total of fifty-one (51). Modification No. 3 which was entered by the court in August 2014 added two (2) projects and removed eight (8), leaving a total of forty-five (45) Interim System Improvement projects. HRSD has completed all of these projects.

2.4 Management, Operations, and Maintenance Program

2.4.1 Implementation of MOM Program

HRSD continues to implement its MOM Program. This includes details pertaining to management, operations, and maintenance of HRSD's conveyance system, including quantitative performance measures, implementation of continuous improvement initiatives, and special programs coordinated in the region related to HR FOG. HRSD performed an annual performance assessment of its MOM Plan in accordance with Section 5 of the MOM Program following completion of FY 2025.

2.4.1.1 MOM Program Update

HRSD updated its MOM Program in July 2024 based on policy and procedure changes, as well as organizational changes. This plan is available for review on the www.hrsd.com website. The next major MOM Program update is anticipated in July 2027.

2.4.1.2 HR FOG

The Fats, Oils, and Grease (FOG) Education Committee is a coalition of local government staff members working together with HRSD to protect wastewater infrastructure, reduce sanitary sewer overflows, and improve local water quality. The Committee shares both technical resources and educational strategies to prevent improper disposal of FOG into the sanitary sewer system. The Hampton Roads Planning District Commission (HRPDC) coordinates this regional effort. In FY 2025 HRSD continued to participate in monthly committee meetings and support localities with their FOG control programs through a signed MOA – which seven localities have signed thus far; Chesapeake, Smithfield, Newport News, Va Beach, York County, Norfolk and JCSA. In FY 2025 the committee rolled out the updated and modernize hrfog.com website. This platform was initially developed in 2012 and serves as a hub for food service employees and grease haulers to review training documents and complete a certification exam to comply with local

FOG ordinances. It also hosts helpful educational resources like signs and brochures and additional guidance documents for local FOG ordinances. The platform is now under the TalentLMS server and rebranding efforts are still in the planning stages. Several paid campaigns ran across social media, radio and TV that targeted residential homes with a message to keep FOG and wipes out of the drains.

2.4.1.3 Ongoing Condition Assessment Activities

2.4.1.3.1 Field Activities

See Section 4 of this report for details on the MOM-related Condition Assessment Field Activities.

2.4.1.3.2 Prompt Repairs

HRSD continues to implement a program to identify and address collection system infrastructure deficiencies found during the course of condition assessment field activities that require prompt attention. Defects are evaluated to determine if they:

- Pose an immediate threat to the environment;
- Pose an imminent threat to the health and safety of the public;
- Create operational problems that may result in SSOs; or
- Contribute to substantial infiltration and/or inflow to the system.

If such a defect is identified through the inspection process, it is assessed to determine the appropriate repair necessary. Data received from the condition assessment program is reviewed to make that determination. A list of completed prompt repairs up through FY 2025 is covered in Section 4.4 of this document.

2.4.2 Quantitative Performance Measures

The revised MOM Program includes many performance measures that HRSD uses to evaluate its progress. Paragraph 34 of the Consent Decree established a list of six measures that are subject to stipulated penalties, including: gravity sewer main inspection, air release valve preventative maintenance, gravity sewer cleaning, pumping station annual preventative maintenance, back-up generator annual preventative maintenance, and non-invasive force main inspection near drinking water supply reservoirs. Targets for all these six measures explicit in the Consent Decree were achieved in FY 2025. The details of HRSD's performance are provided in Section 5 of this report.

2.5 Regional Wet Weather Management Plan

HRSD submitted an updated Regional Wet Weather Management Plan (RWWMP) on June 29, 2020. The fifth amendment to the Consent Decree, that incorporated the RWWMP, was approved by the court on February 8, 2022. The RWWMP features an Adaptive Regional Plan (ARP) comprising four phases. Phase 1 includes the $700 million that HRSD will spend by 2025 on Interim System Improvements, Rehab Action Plan projects, Condition Assessment (including prompt repairs), and planning associated with development of the RWWMP Plan. Phase 2 includes the $208 million in Round 1 High-Priority Projects, and $10 million Pathogen Source Tracking Program. Phase 3 consists of an additional $202 million in Round 2 High-Priority Projects and $10 million for the continued Pathogen Source Tracking Program. Phase 4 is a performance assessment upon completion of the work in Phases 2 and 3. This analysis will take place between 2040 and 2043 and will culminate in submittal of a Performance Assessment for the review and approval of EPA and DEQ by March 31, 2043. The High-Priority Projects will reduce SSO volume during the 5-year peak flow event by 69%. The fifth amendment includes the schedule for wastewater system improvements that accommodates the Aquifer Replenishment Program (ARP) program. HRSD is planning on investing over $1.1 billion by 2032 on the ARP program. The RWWMP provides for the ARP to be implemented through 2032. Finally, the RWWMP provides that if HRSD truncates or abandons the ARP prior to 2032 then EPA

can require HRSD to accelerate spending on the RWWMP to offset the avoided investment in the ARP program. At this time, it appears that HRSD will spend the full committed amount. That said, HRSD continues to evaluate the most optimal approach to implementing the ARP program given HRSD's financial constraints, evolving regulatory requirements, and the unprecedented inflationary pressures we are experiencing.

2.5.1 RWWMP Progress

Phase I progress is described in Table 2-2.

Phase II progress includes microbial source tracking efforts and the initiation of most Round 1 HPP projects. All Inflow and Infiltration (II)-related projects are under contract and the majority of them are being delivered via a design-build contracting method.

Phase III progress includes the initiation of a Round 2 HPP project.

Phase IV is scheduled to commence in 2040.

- The Aquifer Replenishment Program (ARP) consists of the implementation of up to $1 billion in HRSD Sustainable Water Initiative For Tomorrow (SWIFT) projects. HRSD has approved multiple contracts including:
    - James River SWIFT Facility and James River Treatment Plant Advanced Nutrient Reduction Improvements, combined design-build contract amount of $535,974,672 (83.7 percent complete)
    - James River Recharge Wells (On site), construction contract amount $14,449,400 (completed)
    - James River Recharge Wells (Off site), construction contract amount $42,798,781 (completed)
    - Nansemond Treatment Plant Advanced Nutrient Reduction Improvements Phase II, design-build contract amount $312,052,308 (76.9 percent complete)
    - Nansemond SWIFT Facility and Nansemond Recharge Wells (On-Site), combined design-build contract amount $694,580,804 (8.9 percent complete)

2.6 SSO Emergency Response Plan

On August 4, 2025 HRSD completed the annual update of the approved Sanitary Sewer Overflow (SSO) Response Plan. This plan continues to be implemented by HRSD. A copy of the most recent plan is posted to the www.hrsd.com website.

2.7 Consultation with Localities

There were several group consultation activities in FY 2025 with Localities. The major activities included:

- Semi-Annual meetings of the Capacity Team to share progress on compliance with the Consent Decree (July 16, 2024 and January 14, 2025)
- HRSD Sharepoint continues to be updated and contains documents related to the regional Capacity Team; and,
- Copies of the Quarterly Reports, Semi-Annual Report and Annual Report were provided from HRSD to the Localities on the HRSD.com website.
- Meet with the regional Director of Utilities monthly.

These group consultations are supplemented by continuous interaction with individual localities regarding HRSD programs and projects.

2.8 Public Participation

HRSD conducted an annual information meeting regarding the progress of the Consent Decree on February 4, 2025. In addition, HRSD published a newsletter in February 2025, which is available on the www.hrsd.com website. Information and approved plans continue to be posted to HRSD's website, which is accessible to the public.

2.9 Post-RWWMP Implementation Monitoring and Performance Assessment

No action has been performed for this item as it is a later requirement of the Consent Decree.

2.10 Reporting

2.10.1 Annual Report

HRSD completed an FY 2024 Annual Report and submitted it to the EPA and DEQ on October 31, 2024. This report covered Consent Decree activities from July 1, 2023, through June 30, 2024.

2.10.2 Semi-Annual Report

HRSD completed a FY 2025 Semi-Annual Report and submitted it to the EPA and DEQ on April 30, 2025. This report covered Consent Decree activities from July 1, 2024, through December 31, 2024.

2.10.3 Quarterly Reports

HRSD completed FY 2025 Quarterly Reports and submitted them to the EPA and DEQ as summarized in Table 2-3 below.

2.11 Summary of Submittals

Table 2-3 summarizes the status of the documentation that HRSD has submitted to the EPA and DEQ under the Consent Decree in FY 2025.

Table 2-3. Summary of Consent Decree Submittals

Consent Decree Submittal	Submittal Date
Annual Report	October 31, 2024
Annual Public Meeting	February 4, 2025
Annual Newsletter	February 2025
Semi-Annual Report	April 30, 2025
Quarterly Reports	December 4, 2024, March 5, 2025, June 6, 2025, September 2, 2025

2.12 Stipulated Penalties

HRSD submitted four quarterly SSO reports that identified all SSOs, SSDs, Prohibited bypasses, and unauthorized discharges from the HRSD SS System and the HRSD STPs. These reports documented

outstanding system performance. HRSD paid the associated undisputed stipulated penalties for a handful of events.

A summary of undisputed penalties payments is included in Table 2-4 below.

Table 2-4. Summary of Undisputed Penalties

	Undisputed Stipulated Penalties	Payment to Commonwealth of VA	Payment to US EPA	Comments
FY 2025 QT 1	$2,950	$1,475	$1,475	
FY 2025 QT 2	$5,450	$2,725	$2,725	
FY 2025 QT 3	$37,300	$18,650	$18,650	
FY 2025 QT 4	$1,600	$800	$800	

3. COMPLIANCE DEADLINES AND MILESTONES

In FY 2025, HRSD expended considerable resources in both time and money to achieve the compliance goals of the Consent Decree. All deliverables were submitted on or before their due dates, including those with short timeframes for response. Table 3-1 below provides a general summary of the major Consent Decree deadlines and the status of each.

Table 3-1. Consent Decree Milestones

Consent Decree Paragraph	Consent Decree Submittal	Status
13	Quality Assurance Program Plan	Complete
15	Flow, Pressure, and Rainfall (FPR) Monitoring Plan Implementation	Complete
16	Interim and Final FPR Monitoring Reports	Complete
22	Regional Hydraulic Model Plan Implementation	Complete
23	Regional Hydraulic Model Report	Complete
25	Condition Assessment Plan Implementation	Complete
26	Preliminary Condition Assessment Report	Complete
27	Final Condition Assessment Report (FY 2013)	Complete
27	Final Condition Assessment Report (FY 2015)	Complete
29	Interim System Improvements	Complete
33	Management, Operations, and Maintenance Program	Complete
39	Preliminary Capacity Assessment Report	Complete
40	Comparative Analysis	Complete
40	Alternatives Analysis Report	Complete
40	Regional Wet Weather Management Plan	Complete
60	Short Term Wet Weather Operational Plan	Complete
69	Sanitary Sewer Overflow (SSO) Response Plan	Complete
71	Annual Updates to SSO Response Plan	Ongoing
77	Annual Informational Newsletters	Ongoing
78	Annual Public Meetings	Ongoing
87	Annual Reports	Ongoing
88	Semi-Annual Reports	Ongoing
90	Quarterly Briefings	Complete
90.a	Quarterly Reports	Ongoing

4. MOM PROGRAM CONDITION ASSESSMENT ACTIVITIES DURING FY 2025

HRSD has continued with its MOM-related Condition Assessment Field Activities in FY 2025. The following subsections describe the progress made in each aspect.

4.1 Gravity Main

HRSD completed 46,055 LF of gravity sewer inspections of its system in FY 2025. Approximately 94,956 LF of sewer main was cleaned.

4.2 Force Main

HRSD performed condition assessment on 195,615 linear feet of force mains in the interceptor system including 151,791 linear feet of Leak & Gas Pocket screening and 4,909 linear feet within 2,500 feet of drinking water reservoirs. HRSD also performed 1,166 linear feet of treatment plant piping. Soil corrosivity studies and mapping continued with a goal of creating a regional corrosion map and including it in the risk model to prioritize assessment of ferrous pipe segments vulnerable to external corrosion. The risk model continues to prioritize condition assessment and replacement projects. 3-year condition assessment work orders were scheduled on all treatment plant and pump station assets.

4.3 Pumping Facilities

Regular inspection and preventive maintenance of pumping facilities was performed by HRSD staff.

4.4 Prompt Repairs

As part of the Condition Assessment Program, HRSD has identified defects in the HRSD sanitary sewer system (primarily gravity sewer pipes and manholes) which have been deemed to be Prompt Repairs through June 30, 2025. These defects have been grouped into repair work orders and are currently in various stages of planning, design, construction or are complete. The following Table 4-1 provides details on all the Prompt Repairs identified through FY 2025.

Table 4-1. Summary of Prompt Repairs

Name	Location	Jurisdiction	Line Number	Summary of defect	Number of Defects	Status
41st Street	41st Street east of intersection with Jefferson Ave; between MHs NG-112-12175 and NG-112-11783	Hampton	NG-112	Pipe lining failure	1	Complete
Beach Road	West side of Beach Road opposite intersection with Wade Road between MH NG-	Hampton	NG-088	Pipe connection at manhole needs repair	1	Complete

Table 4-1. Summary of Prompt Repairs						
Name	**Location**	**Jurisdiction**	**Line Number**	**Summary of defect**	**Number of Defects**	**Status**
	088-0 and NG-088-155.					
Beach Road	West side of Beach Rd. between intersection with Bonneville Dr. and Catalina Drive between MH NG-088-1654 and NG-088-1863	Hampton	NG-088	Lateral connection to mainline needs repair	4	Complete
	Approximately in front of 112 Beach Rd between MH NG-088-0636 and NG-088-0970	Hampton	NG-088	Mainline pipe defects		
	Beach Rd. approximately 170 ft. south of Wade Rd. intersection	Hampton	NG-088	Manhole defects		
	West side of Beach Road opposite intersection with Hall Road. Between MHs NG-088-1260 and NG-088-1316	Hampton	NG-088	Mainline punctured by another utility directional drilling		
Various Manholes	North King St.	Hampton	NG-078	Manhole defects	3	Complete
	E. Pembroke Ave. at Washington St.	Hampton	NG-084	Manhole defects		
	Bainbridge Blvd. between Beech St. and Wilton St.	Norfolk	SG-153	Manhole defects		
Jefferson Ave	Jefferson Ave. between 40th St and 41st St	Newport News	NG-114	Mainline pipe defects	2	Complete
	Jefferson Ave between 39th and 40th St	Newport News	NG-114	Mainline pipe defects		
Newtown Road	Newtown Rd. at Virginia Beach Blvd (ne corner of intersection)	Virginia Beach	SG-112	Manhole defects and mainline pipe defects	3	Complete
	Newtown Rd. approx. 415 ft. north of Princess Anne Rd.	Virginia Beach	SG-113	Manhole defects		
	Newtown Rd. at Elam Ave.	Virginia Beach	SG-113	Manhole defects		
Mercury Blvd	West Mercury Blvd	Hampton	NG-099	Mainline pipe defects	3	Complete
	West Mercury Blvd	Hampton	NG-057	Mainline pipe defects		

Table 4-1. Summary of Prompt Repairs						
Name	**Location**	**Jurisdiction**	**Line Number**	**Summary of defect**	**Number of Defects**	**Status**
	West Mercury Blvd; near Beechwood Rd.	Hampton	NG-057	Mainline pipe defects		
Various Repairs	North Hope Street	Hampton	NG-160	Pipe lining failure	3	Complete
	Old Atlantic Avenue; near intersection with Liberty Street	Chesapeake	SG-148	Pipe lining failure		
	South of Steamboat Creek PS	Norfolk	SG-102	Manhole defects		
Witchduck	South Witchduck Road	Virginia Beach	SF-141	Corroded FM bolts	1	Complete
Pin Oak Rd	Pin Oak Road; Residential neighborhood	Newport News	NG-175	Mainline Pipe Defects	1	Complete
Bainbridge Blvd	Bainbridge Blvd near I-464	Norfolk	SG-145	Mainline Pipe Defects	2	Complete
	Bainbridge Blvd near I-464 just upstream of PS	Norfolk	SG-145	Mainline Pipe Defects		
Shell Rd - Hampton	Shell Road	Hampton	NG-141	Mainline Pipe Defects	2	Complete
	Harris Creek Road	Hampton	NG-086	Mainline Pipe Defects		
Pearl Street	Pearl Street near Ligon Street near I-464/I-262 Interchange	Norfolk	SG-202	Mainline Pipe Defects	2	Complete
	Pearl Street near Ligon Street near I-464/I-262 Interchange	Norfolk	SG-202	Mainline Pipe Defects		
Deep Creek	Deep Creek force main on suction side of Deep Creek PRS	Chesapeake	SF-143	FM defects	1	Complete
Wythe Lagoon	Wythe Lagoon Siphon	Hampton	NG-151	Siphon defects	1	Complete
Pump Station Hatches	Ingleside Road Pump Station	Norfolk	PS#148	Wet Well Hatch	1	Complete
Pump Station Wet Wells	Rodman Ave Pump Station Wet Well	Portsmouth	PS#145	Wet Well Defects	1	Complete
Luxemburg Ave	Influent line to Luxemburg Avenue pump station.	Norfolk	SPS-113	Defect at manhole connection	1	Complete
Gowrie and Farragut	Manhole near creek at end of Gowrie Avenue	Norfolk	SG-068	Manhole defects	2	Complete
	Manhole near creek at end of Farragut Avenue	Norfolk	SG-068	Manhole defects		
Shipyard Sewer	Outside of 33rd street Pump Station	Newport News	33rd Street	Mainline pipe defects	3	Complete
	31st Street	Newport News	31st Street	Mainline pipe defects		

Table 4-1. Summary of Prompt Repairs						
Name	**Location**	**Jurisdiction**	**Line Number**	**Summary of defect**	**Number of Defects**	**Status**
	38th Street	Newport News	38th Street	Mainline pipe defects		
Chesterfield Blvd	Gravity influent to Chesterfield PS	Norfolk	SG-207	Mainline pipe defects	2	Complete
	Gravity influent to Chesterfield PS	Norfolk	SG-207	Mainline pipe defects		
State Street FM	Force main at State St Pump Station	Norfolk	SF-097	Thin wall	1	Complete
Berkley Avenue	Manholes on Berkley Avenue	Norfolk	SG-098	Manhole defects	2	Complete
	Manholes on Berkley Avenue	Norfolk	SG-098	Manhole defects		
Newmarket Creek	Orcutt Avenue and Paul street at influent to Newmarket Creek PS	Newport News	NG-127	Manhole Defects	2	Complete
	Orcutt Avenue and Paul street at influent to Newmarket Creek PS	Newport News	NG-127	Pipeline defects		
Laskin Road	Laskin Road Force Main	Virginia Beach	SF-135	Hit by third party	1	Complete
Elizabeth River	East side of Elizabeth River Crossing	Chesapeake	SF-143	Thin wall	1	Complete
14th Street	Manhole at Jefferson Ave and 14th street	Newport News	NG-130X	Manhole Defect	1	Complete
Army Base	Baker Street and Hampton Blvd	Norfolk	SF-003	Pipeline defect	1	Complete
Mercury and Orcutt Intersection	W Mercury Blvd	Hampton	NG-127	Manhole Defect	1	Complete
Claremont Avenue Discharge	Harbor Lane and 14th Street	Newport News	NG-130	Pipeline Defect	1	Complete
Boat Harbor Outlet	Jefferson Avenue and 25th Street	Newport News	NG-169	Pipeline Defect	1	Complete
Hickman Branch	Factory Street	Portsmouth	SG-193	Pipeline Defect	1	Complete
Terminal Avenue	Terminal Avenue	Newport News	NG-125	Pipeline Defect	1	Complete
Swannanoa and Summerset	Intersection of Swannanoa Drive and Summerset Drive	Portsmouth	SF-206	Pipeline Defect	1	Complete
Orcutt Avenue Liner	Orcutt Avenue and 79th Street	Hampton / Newport News	NG-127	Pipeline Defect	1	Complete
Bay Shore Lane	Bay Shore Lane	Hampton	NG-095	Manhole Defects	7	Complete
Warwick Blvd	Warwick Blvd	Newport News	NG-130	Pipeline Defect	1	Complete

Table 4-1. Summary of Prompt Repairs						
Name	**Location**	**Jurisdiction**	**Line Number**	**Summary of defect**	**Number of Defects**	**Status**
Warwick and Woodhaven	Warwick Blvd to Thorncliff Drive	Newport News	NF-015	Pipeline Defect	1	Complete
Woodland Avenue	Woodland Avenue and Ballentine Blvd	Norfolk	SG-089	Manhole Defects	6	Complete
Indian River Road	Indian River Road near Campostella	Norfolk	SF-106	Pipeline Defect	1	Complete
Powhatan Ave	Powhatan Ave	Norfolk	SG-044	Manhole Defect	1	Complete
Euclid Road	Euclid Road and Southern Blvd	Virginia Beach	SF-197	Pipeline Defect	1	Complete
Dovercourt Road	Dovercourt Road	Norfolk	SPS-108	Manhole Defect	1	Complete
Beach Road South	Beach Road between Catalina Drive and Westlawn Drive	Hampton	NG-088	Pipeline Defect	1	Complete
Hampton Institute	Hampton Institute Pump Station	Hampton	NPS-211	Pipeline Defect	1	Complete
Portsmouth Blvd	Portsmouth Blvd	Newport News	NG-125	Pipeline Defect	1	Complete
Boat Harbor Influent	Terminal Avenue Junction Box	Newport News	NG-125	Pipeline Defect	1	Complete
Mercury/Big Bethel Manhole	Intersection of Mercury Blvd. and Big Bethel Road	Hampton	NG-057	Manhole Defect	1	Complete
Berkley Trunk Sewer Section S	State Street	Norfolk	SG-202	Pipeline Defect	1	Complete
Copeland PS Discharge FM	Copeland Pump Station	Newport News	NF-113-2539, NF-113-93255 to vault	Corroded appurtenances on pipeline	1	Complete
Shingle Creek Siphon	Shingle Creek PS	Suffolk	SG-191-21795 to SG-191-21788	Pipe Defect	1	Complete
Western Branch Sewers – State Hwy	APM Terminals Blvd	Portsmouth	SF-038	Force Main blockage	1	Complete
Bainbridge Blvd Gravity Sewer	Bainbridge Blvd & Holly Avenue	Chesapeake	SG-149-4932 to SG-149-4897	Pipe Defect	1	Complete
Shore Drive FM	Shore Dr. / Indian Hill Rd.	Virginia Beach	SF-019	Pipeline / Joint Failure	1	Complete
Great Bridge FM Gate Valve	AT1147-2 Valve Replacement	Chesapeake	SF-178 / AT1147-2	Inoperable valve	1	Complete
JRTP Piping	PC#4 to PC Distribution Chamber	Newport News	PCE (PC#4)	Pipeline Failure	1	Complete
Suffolk FM	Wilroy Rd. / Burnetts Mill Creek Crossing	Suffolk	SF-190	Pipeline Defect	1	Complete
WBTP Piping	PC Splitter Box to PC #1	Williamsburg	PCI (PC#1)	Pipeline Defect	1	Complete

Table 4-1. Summary of Prompt Repairs						
Name	**Location**	**Jurisdiction**	**Line Number**	**Summary of defect**	**Number of Defects**	**Status**
Great Bridge Boulevard FM	Great Bridge Blvd. / Willow Point Arch	Chesapeake	SF-164	Pinhole Leak	1	Complete
JRTP Piping	111 City Farm Road	Newport News	NPW	Segmental Replacement	1	Complete
			PCI	Segmental Rehab + Upstream Structure	1	Scheduling
WBTP Piping	300 Ron Springs Drive	Williamsburg	NPW	Segmental Replacement	1	Complete
			NPW	Full Circumferential clamp	1	Complete
Big Bethel FM	3711 Big Bethel Rd	Hampton	NF-024	Descale, CCTV, CIPP	1	Complete
Monroe Place FM	Monroe Place and Magnolia Ave	Norfolk	SF-041	Segmental Replacement	1	Complete
FM (SS)	528 Douglas Ave	Portsmouth	SF-219	Point Repair	1	Complete
Kempsville Rd FM	Kempsville Rd and Beaufain Blvd	Virginia Beach	SF-212 AT1148ZE7-1&3	Replace Packing (Excavation + MOT)	1	Scheduling

5. MOM PERFORMANCE MEASURES FOR FY 2025

HRSD has implemented its MOM Program activities in conjunction with the requirements of the Consent Decree. Table 5-1 below provides a status update on the specific Performance Measures listed in Paragraph 34 of the Consent Decree. HRSD has substantially outperformed key performance measures such as CCTV inspections, gravity sewer cleaning, and air vent inspections.

Table 5-1. MOM Performance Measures

Consent Decree Paragraph	Section	Goal	Performance Measure	Target	FY 2025 Actual Performance	Comment	MOM Program Section No.
34.a.	Gravity System CCTV Inspections	Internal inspection of the Gravity System lines provides useful information to assess the condition of the lines allowing proactive measures to be taken to reduce infiltration and identify conditions that may lead to failure.	Perform internal inspection of HRSD gravity sewers, linear feet inspected per year	39,600 linear feet inspected per year	**46,055 LF Inspected**	**Performance exceeded target**	2.9
34.b.	Force Main PM - Air Venting	Force mains must periodically have air and gases vented to prevent loss of efficiency of pump stations and to prevent corrosion of piping due to hydrogen sulfide gas.	Perform air release valve PM, No. of PMs per year	1,550 ARVs vented per year	**3,967 ARV PMs**	**Performance exceeded target**	2.8
34.c.	Gravity Sewer Cleaning	Obstructions in Gravity Sewer systems are a primary cause of SSOs in these systems, and the systematic cleaning of the system is necessary to remove debris and accumulations of solids from all sources and reduce SSOs.	Perform cleaning of HRSD gravity sewers to remove debris. Linear feet cleaned per year	26,400 linear feet cleaned per year	**94,956 LF Cleaned**	**Performance exceeded target**	2.9
34.d.	Pump Station Annual PMs	Maintain the pump stations to protect the public safety, to protect the environment,	All pump stations are to receive the Annual Inspection as	90 pump stations	**90 (100%)**	**Performance met target**	2.7

Table 5-1. MOM Performance Measures							
Consent Decree Paragraph	**Section**	**Goal**	**Performance Measure**	**Target**	**FY 2025 Actual Performance**	**Comment**	**MOM Program Section No.**
	(Mechanical)	reduce SSOs and to achieve the maximum service life from the pump stations.	described in the Interceptor Systems Preventive Maintenance Manual.	inspected per year			
34.d.	Pump Station Annual PMs (Electrical)	Maintain the pump stations electrical equipment to protect the public safety, to protect the environment, reduce SSOs and to achieve the maximum service life from the pump stations.	All pump stations are to receive the Annual Electrical PM as described in the Interceptor Systems Preventive Maintenance Manual.	88 pump stations inspected per year	**88 (100%)**	**Performance met target**	2.7
34.e.	Annual PM for Back-up Generators	Preventive maintenance is performed on the emergency generators to protect the safety of the public, to protect the environment and reduce SSOs when electrical power to the pump motors from the public utility has been disrupted.	Each backup generator is to receive an annual preventive maintenance inspection.	61 generators to receive PM per year	**71**	**Performance exceeded target**	2.7
34.f.	Non-Invasive FM Inspection Near Drinking Water Reservoirs	Inspect Force Mains Near Reservoirs to Identify Conditions that may lead to Problems Prior to Failure.	Perform non-invasive inspections of FMs to identify air pockets and leaks. No. of linear feet of FM inspected per year.	2,400 linear feet inspected per year	**4,909 LF Inspected**	**Performance exceeded target**	2.8

Annual Pump Station PM has been divided into two categories as seen in the fourth and fifth lines of the table. The Annual Mechanical PMs are performed by Interceptor Operations and Annual Electrical Pump Station PMs are performed by Facility Support. All stations that were online at the time of inspection received an annual PM.

6. SYSTEM PERFORMANCE DURING FY 2025

6.1 Modifications to HRSD Operating Pressures

HRSD revised its System Operating Pressure Policy with adoption by the HRSD Commission on December 16, 2014. It is based on the concept of a hydraulic grade line as opposed to the flat line of the previous policy. HRSD's interceptor system pressure is dynamic and varies based on the connection point and flow rate. HRSD will provide a range of pressures that a terminal pump station should expect to operate in. This range will be based on the RHM and available pressure meter data.

6.2 STP Performance

The HRSD system experienced construction, record breaking rainfall ORF_PRECIP.pdf (weather.gov), and operations-related events in FY 2025 that led to unusual discharges from the facilities. Table 6-1 provides details on the unusual discharges from July 1, 2024, to June 30, 2025. Many of these occurrences involved Non-Potable Water (NPW) or fully treated effluent, and some were the result of activities conducted by a third party. HRSD reported these events in previously submitted quarterly reports.

6.3 Conveyance System Performance

For the reporting period of July 1, 2024, through June 30, 2025, HRSD experienced fourteen sanitary sewer overflows (SSOs) from its system. Four of the fourteen SSOs were capacity-related.

All of these events are detailed in the Sanitary Sewer Overflow Reporting System (SSORS). Details on all the FY 2025 SSOs for HRSD are available in Table 6-2 and in previously submitted quarterly reports.

6.4 Regional System Capacity Related SSOs

As required by Paragraph 88 of the Consent Decree, HRSD must report on wet weather or capacity related SSOs that occur in the Regional SS System. Table B-1 in Appendix B provides the listing of these SSOs along with a summary of cause and action being taken as reported by the applicable Locality in SSORS. HRSD has not independently verified these overflows.

Table 6-1. Detailed Listing of HRSD Treatment Plant Unusual Discharges (July 1, 2024 to June 30, 2025)

Date	Location	Description/Cause	Duration of Event (minutes)	Corrective Action	Estimated Quantity Discharged (gallons)	Estimated Quantity to State Waters (gallons)	Type of Overflow	Receiving Water	Comments
8/5/2024	Nansemond	2 inch non potable water line broke due to heavy equipment being rolled over top of pipe. While digging to repair that line an npw line next to the broken one got hit and broke.	238	Contractors used a temporary plug to stop the flow until the line was fixed.	2500	200	Non-Potable Water (NPW)	Ground	
8/12/2024	James River	While excavating, a contractor hit the gravity thickener (GT) supernatant line. HRSD staff immediately shut down the primary pumps and chlorinated effluent pump to stop the flow to the GT. A sump pump was then placed in the excavation, and the contents were pumped back into the treatment plants flow via primary clarifier #4. An estimated 2,000 gallons of GT supernatant spilled into the excavation. An estimated 1,900 gallons was recovered.	10	Contractor fused the high-density polyethylene (HDPE) line back together to repair.	2000	100	GT Supernatant	Ground	
8/15/2024	Williamsburg	Operator was making rounds and noticed Sodium Hypochlorite inside the chemical containment area at Odor Station B. The Operator walked around the containment area where the chemical feed line traveled up the wall on the outside. The Operator found the hose from the tank fill line separated from the transfer pipe and immediately secured the pump. At that point the chemical had already soaked into the soil. On call staff was notified and promptly removed the contaminated soil from the area.	5	Approximately 13 cubic feet of contaminated soil was removed from the site and placed in a storage container to be picked up by Potomac Environmental.	20	1	Sodium Hypochlorite	Ground	
8/20/2024	Nansemond	Contractors left vent line on plant drain cleanout open so when drain on #1 primary clarifier was opened it overflowed onto the ground and entered storm drain.	4	Drain line was closed. Vac truck vacuumed up approximately 1500 gallons. Approximately 200 gallons were lost to storm drain. Flow to storm drain was restricted due to silt fence around the drain. Contractor dug up contaminated dirt around drain and dirt will be properly disposed of.	1700	200	Primary Clarifying Influent (PCI)	Storm Water Pond	

Table 6-1. Detailed Listing of HRSD Treatment Plant Unusual Discharges (July 1, 2024 to June 30, 2025)

Date	Location	Description/Cause	Duration of Event (minutes)	Corrective Action	Estimated Quantity Discharged (gallons)	Estimated Quantity to State Waters (gallons)	Type of Overflow	Receiving Water	Comments
9/9/2024	Nansemond	A contractor hit a chlorinated Non-potable water (NPW) line while digging with an excavator.	7	Valve on NPW line in excavation site was closed to stop flow. Contractors will repair the line. A pump was used to remove as much water as possible and directed to the process tank. The remainder was lost to the ground.	4000	2000	Non-Potable Water (NPW)	Ground	
9/16/2024	James River	The plant experienced a brief loss of utility power which caused the generator to start. Utility power was available within a couple of minutes and the system switched back automatically. The rapid transition of power cycling resulted in the NPW pumps turning off and on quickly creating a water hammer effect. The pressure surge from the water hammer pushed a unrestrained pipe slightly out of a mechanical flange allowing NPW to spray out around the flange.	6	The portion of the NPW line was secured and the pipe and flange was repaired.	3000	2000	Non-Potable Water (NPW)	Ground to Storm Drain	
10/25/2024	Nansemond	The sanitary well submersible pump was not properly sealed against the well discharge line, which caused the well to overflow.	15	The wet well was pumped down, pumps were removed from the wetwell, an O-ring for the pump was replaced, and the discharge line was cleaned out.	100	100	Sanitary Well Overflow	Ground/soil	
10/26/2024	Nansemond	A 4 inch PVC line slipped out of a PVC coupling that was discovered to be cracked. The resulting spill filled up an excavation site with non-potable water (NPW).	15	Plant staff immediately closed the NPW cutoff valve to secure the flow and removed NPW from excavation via a vaccum trailer, and repaired the 4 inch PVC pipeline.	11000	1000	Non-Potable Water (NPW)	Ground	
10/31/2024	Nansemond	A 1/2" PVC pipe broke on the discharge side of the centrate feed pump, allowing centrate to freeflow onto the floor. Approximately 50 gallons left the building through the roll-up door. Additionally, less than 5 gallons of the total quantity made it to the stormwater drain nearby.	8	The discharge valve of the Struvite Recovery Facility (SRF) feed pump was secured and the leak stopped immediately. The broken PVC pipe was repaired.	50	50	Centrate	Ground, storm water drain	
12/3/2024	Nansemond	During a planned shutdown of the plant 54" nitrified recycle line contractors put plastic under the area being drained. A sump pump was used to return lost flow	415	Pumped as much flow as possible to the process and recovered as much of the lost flow as possible.	2000	300	Aeration Effluent (ARE)	Ground	

Table 6-1. Detailed Listing of HRSD Treatment Plant Unusual Discharges (July 1, 2024 to June 30, 2025)									
Date	**Location**	**Description/Cause**	**Duration of Event (minutes)**	**Corrective Action**	**Estimated Quantity Discharged (gallons)**	**Estimated Quantity to State Waters (gallons)**	**Type of Overflow**	**Receiving Water**	**Comments**
		into the process. Some of the flow went over the plastic and was absorbed into the ground under the pipe and was unrecoverable.							
12/6/2024	VIP	PVC pipe broke for the Raw Wastewater supply to the research pilot plant. Raw Wastewater Influent (RWI) was heading into the storm drain. One section of the heat trace was not turned on and the weather made the PVC brittle. The pipe did not freeze. Water hammer may have caused the problem.	15	Plant staff immediately turned off the pumps that charge the line leading to the pilot. The storm drain in the area was covered and the standing wastewater was pumped into the plant drain. Estimated 160-240 gallons.	240	190	Raw Wastewater	Ground	
12/9/2024	Nansemond	NPW (chlorinated) began pouring into the pump room of the return building through a wall penetration (with a link seal) for a NPW pipe. That line was isolated and the flow continued to pour into the building. Another NPW line was isolated to see if the flow into the building would stop. It was discovered the morning of 12/10 that the flow was continuing to enter the building. After trouble shooting and digging up an isolation valve it was discovered that isolating a 4 inch NPW line entering the basement of the building was the source of the flow. The line is about 15 feet underground and in a place inaccessible with equipment to dig up the line to find the exact break. It is going to be abandoned in place and a new line run to the building. NPW was never visually observed spilling on the ground but due to the placement of the line and water entering the building it can be assumed that NPW did soak into the ground. Estimating ~10000 gallons entering the building and recovered, and an estimate for NPW lost to the ground ~3000 gallons. Neither the location of the break in	1655	NPW line to building secured and being abandoned in place.	13000	3000	Non-Potable Water (NPW)	Ground	

Table 6-1. Detailed Listing of HRSD Treatment Plant Unusual Discharges (July 1, 2024 to June 30, 2025)

Date	Location	Description/Cause	Duration of Event (minutes)	Corrective Action	Estimated Quantity Discharged (gallons)	Estimated Quantity to State Waters (gallons)	Type of Overflow	Receiving Water	Comments
		the pipe nor the amount of time broken prior to water entering the building can be determined and makes this very hard to estimate actual amounts lost.							
12/12/2024	Nansemond	Contractors accidentally hit a sodium hydroxide line in a double wall containment. While repairing the line approximately 100 gallons of caustic leaked out and onto the ground.	30	Contractors removed all contaminated soil, which will be disposed of at a chemical receiving facility.	100	0	Sodium Hydroxide	Ground	
12/14/2024	Nansemond	HRSD employees were using Non-Potable Water hoses to clean a tank. When they shut the hoses off and walked downstairs, they found an underground NPW line broken in the ground at the bottom of the stairway. The isolation valve for the NPW line was immediately secured. Approximately 350 gallons of NPW soaked into the ground.	2	The isolation valve for the NPW line was secured at 0738. Approximately 350 gallons soaked into the ground	350	350	Non-Potable Water (NPW)	Ground	
12/20/2024	Nansemond	A buried ferric chloride line broke and leaked ~65 gallons of ferric chloride onto the ground. This break occurred due to a large excavation which is supporting construction efforts causing an increased strain on the pipe.	0	Plant staff excavated and recovered what they were able to. Due to the break occurring close to the wall of a building, and the area being surrounded by a large excavation, it is unsafe to continue excavating in attempt to recover what leaked down the foundation of the building. Plant staff monitored the hole to ensure the maximum amount was recovered.	65	10	Ferric Chloride	Ground	
12/30/2024	Williamsburg	An underground scrubber blow down line form odor control station B is broken and leaking into a nearby open top storm drain. The water is getting in through a 2“ ground water weep hole on the inside of the chamber.	30	Sandbags were place on the inside of the storm drain to stop it from reaching the outfall. A sump pump with a float switch is maintaining the leak until the line break can be found and repaired.	150	150	Spent Scrubbant	Ground	

Table 6-1. Detailed Listing of HRSD Treatment Plant Unusual Discharges (July 1, 2024 to June 30, 2025)

Date	Location	Description/Cause	Duration of Event (minutes)	Corrective Action	Estimated Quantity Discharged (gallons)	Estimated Quantity to State Waters (gallons)	Type of Overflow	Receiving Water	Comments
1/4/2025	Williamsburg	The Plant Operator noticed NPW coming out of the ground and contacted the standby Lead Operator at 2:23am. One of the main 10 inch underground NPW lines was determined to be the source. This line is located northwest of the contact tank.	702	Standby personnel arrived and started the process of blocking storm drains and setting up pumping to recover the NPW that was leaking. The pumping was setup and capturing what was leaking from the line at 6:00am. We are estimating the leak at 154,200 gallons but we were able to recover 89,100 gallons. The remaining 65,100 gallons soaked into the ground and went down the storm drain that leads to the James River. The NPW flow to the plant was secured at 10:57am. Bridgeman Civil had the line repaired and back in service at 2:05pm.	154200	65100	Non-Potable Water (NPW)	Ground and James River	
1/8/2025	Nansemond	An NPW line was charged after being drained for winterization, one fitting was left open on top of an Aeration Tank, while most NPW went into the process, some was blown off the side of the tank by the wind, resulting in ~200 gallons of NPW spilling on the ground.	6	Plant Staff closed valve on top of Aeration Tank, and are recovering as much NPW from ground as possible.	2000	185	Non-Potable Water (NPW)	Ground	
1/15/2025	Nansemond	Plant staff discovered NPW running out of the RRF wet well pump hut and discovered the 1" cam-lock connection had corroded and broke at the threads of the joint causing NPW to run. Due to the wet well pump losing prime, the drain sump for the building was overcome and NPW started leaking out the building.	5	Plant staff secured the NPW valve at the leak and replaced the corroded fittings allowing them to turn the NPW back on to the wet well pump so that it would prime.	100	50	Non-Potable Water (NPW)	Ground	
1/25/2025	Nansemond	A 1-inch non-potable water (NPW) line, suppling a temporary scrum screen, fractured due to freezing conditions. An estimated 144 gallons of NPW were lost from the time leak was discovered, at 18:10, until isolation of the system, at 18:15. The released NPW was captured by	5	The NPW line was secured by closing the supply valve inside.	144	144	Non-Potable Water (NPW)	Storm drain, retention pond	

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Date	Location	Description/Cause	Duration of Event (minutes)	Corrective Action	Estimated Quantity Discharged (gallons)	Estimated Quantity to State Waters (gallons)	Type of Overflow	Receiving Water	Comments
		the storm drain on Plant site and sent to the retention pond.							
1/25/2025	Williamsburg	The Gravity Belt thickened (GBT) sludge sample line was frozen from the extreme low temperatures, causing a fracture in the line. When the line thawed out, the sludge flow filled the basement with 4-inches of sludge and the sump pumps failed to come on. The solids seeped beneath the back door of the basement and flowed down the hill towards Grove Creek.	46	The Plant Operator caught the spill and quickly dammed up the back door to prevent any more sludge from leaving the building. The Operator got the sump pumps working and started pumping down the sludge in the basement and promptly started exterior cleanup. Hepaco was mobilized to start cleanup efforts in the creek bottom.	5400	1500	GBT thickened sludge	Ground/ grove creek/ marsh	
2/14/2025	Atlantic	Aeration tank #5 was found to be leaking mixed liquor out of an expansion joint for the tank.	210	Staff worked as quickly as possible to get the tank out of service in order to repair the damaged joint. The tank was empty as of 02/18/25 and repairs will be made ASAP. Staff was able to contain the spill shortly after discovery. with the use of pumps. The pumps contained the spill throughout its duration.	75	50	Mixed Liquor	ground	
2/19/2025	Nansemond	Hose left running in Polymer building sump location overcame the capacity of the sump and approximately <100 gallons total escaped the building and trickled down the street toward the storm drain in a two to three inch path. No indication of NPW making it into the BMP ditch as the concrete pipe leading from the storm drain was dry.	1	Turned hose off, pumped out sump, and cleaned area with Vac Truck.	100	50	Non-Potable Water (NPW)	ground	
2/19/2025	Nansemond	Contractors were excavating in a site East of the new Switch Gear Room and struck our Secondary and Contact Tank Scum Line that leads to the Grit channel. All spilled process fluids were contained within the excavation.	14	Contractors immediately notified Plant Staff, who assisted in locating the isolation valves for this location and securing the line. Sump pumps were immediately dropped into the excavation and the spill was pumped	9600	100	Secondary Scum	ground	

Table 6-1. Detailed Listing of HRSD Treatment Plant Unusual Discharges (July 1, 2024 to June 30, 2025)

Date	Location	Description/Cause	Duration of Event (minutes)	Corrective Action	Estimated Quantity Discharged (gallons)	Estimated Quantity to State Waters (gallons)	Type of Overflow	Receiving Water	Comments
				into the Sanitary Drain System and then followed up by the Vac truck to remove the remaining small puddles. Approximate size of excavation 18'x12'x6', which filled more than half way.					
2/26/2025	James River	When the plant operator started a grit pump after a generator test run, a section of pipe at a wye connection failed, discharging and estimated 400 gallons of grit discharge onto the ground.	3	The pump was secured and the wye along with damaged portion of pipe was replaced.	400	250	Grit Discharge	ground/storm drain	
3/7/2025	James River	At 00:17, Raw Influent (RWI) was observed flowing in the street toward the Administration building. The operator determined the flow was coming from the second floor of the headworks building. Upon entering the building, flow was noticed coming out of the influent well. The step screen in service was heard to be moving, however no screenings were observed, alluding to a large blockage. It is thought that a potential blockage was the cause of the overflow. All water was lost to a storm drain, entering the Warwick River.	11	Screens 1 and 3 were placed in service manually. Headworks levels returned to normal. The number 2 step screen was taken out of service to inspect and clear any blockage.	98700	98700	Raw Influent (RWI)	ground to storm drain to Warwick River	
3/11/2025	Boat Harbor	HRSD staff used approximately 33 gallons of non-potable water (NPW) to hose down approximately 2 gallons of primary sludge, resulting in approximately 25 gallons of NPW to enter a storm drain.	7	The storm drain was subsequently covered with protective matting to prevent any further NPW from entering the system.	35	25	Non-Potable Water (NPW)	Storm drain to James River	
3/25/2025	Williamsburg	A loss of power to the distributed control system (DCS) cabinet during routine maintenance resulted in the outfall valves failing closed. The contact tank level rose over the short outfall weir for 5 minutes resulting in 29,100 gallons passing through the short outfall.	5	Power was restored and outfall valves were opened back up.	29100	29100	Final Effluent (FNE)	James River	

Table 6-1. Detailed Listing of HRSD Treatment Plant Unusual Discharges (July 1, 2024 to June 30, 2025)

Date	Location	Description/Cause	Duration of Event (minutes)	Corrective Action	Estimated Quantity Discharged (gallons)	Estimated Quantity to State Waters (gallons)	Type of Overflow	Receiving Water	Comments
3/26/2025	James River	The three influent screens failed at one time until no screens were operating. The influent bypass opened automatically to prevent an overflow, as programmed. The operator reset the three screens locally and closed the bypass, leaving the bypass in a local/manual condition. The three screens failed again but the bypass did not open due to the valve being left in a local/manual condition, causing an overflow of the influent flow at the headworks building. Approximately half of the overflow water left the plant via a storm drain, with the remainder soaking into the ground on-site.	2	The bypass was quickly reopened to stop the overflow until the screens could be reset. We addressed the need to leave emergency bypass equipment in auto with the operator. The #1 screen was found to have a bad bearing and was taken out of service for repairs. The #2 screen had the no-speed sensor adjusted to lower the fail sensitivity.	12700	12700	Raw Influent (RWI)	ground and storm drain to Warwick River	
4/20/2025	Boat Harbor	A manhole on the southwest corner of the treatment plant was discovered to have overflowed sometime between the hours of 04:00 and 09:45. The manhole carries domestic waste (DW) and scum from secondary clarifiers. The overflow had already ceased when discovered but it was noticed that some material had made it into the adjacent creek via a storm drain, which feeds to the James River.	8	While the active overflow had already stopped, a mat has been placed over the storm drain grating, to prevent any more spills from entering the storm drain/creek. The manhole was approximately 75% cleaned as of 4/23/25.	200	200	Scum/Solids & Domestic Waste	Creek to James River	
5/31/2025	Nansemond	A non-potable water (NPW) valve was stuck in an open position, which filled the wetwell. The pumps did not start up as they should have when the water level increased. A total of approximately 8,000 gallons of chlorinated NPW was spilled with approximately 3,000 gallons recovered, and approximately 5,000 gallons lost to the ground and storm drain.	2	The valve was secured and the pumps were started manually.	8000	5000	Non-Potable Water (NPW)	Ground/ Storm Drain	
6/18/2025	Boat Harbor	Sodium hypochlorite (hypo) was found on the ground in the soil next to the contact tank coming from a tubing vault at 06:35 on the morning of June 18th. The flow of hypo coming from the vault saturated the ground and flowed down to the asphalt and along	5	Lead operator secured all offline suction and discharge pump valves, and hypo line valves to ensure no hypo could make it to those lines. The storm drains were blocked off, 65 gallons of hypo were recovered by	175	25	Sodium Hypochlorite	asphalt, curb, ground	

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Date	**Location**	**Description/Cause**	**Duration of Event (minutes)**	**Corrective Action**	**Estimated Quantity Discharged (gallons)**	**Estimated Quantity to State Waters (gallons)**	**Type of Overflow**	**Receiving Water**	**Comments**
		the curb of the backroad. The problem is believed to have started the day before on June 17th and had been caused by an operator pumping against a closed valve causing the band clamps on the hypo tubing to give way. The leak likely began as a maintenance operator used the line around 14:15 on June 17th to prime a final pump and smelled hypo but did not see any leaks at that time. When the tubing vault filled and eventually overflowed it was discovered the following morning and the lead operator secured the suction and discharge valve of the hypo pump and lines for flushing, stopping the leak.		pump, approximately 10 gallons was recovered using oil absorbants, and another 75 gallons was recovered in soild removal.					

*NPW – Non-potable water (treated effluent)

Table 6-2. Detailed Listing of HRSD SSOs (July 1, 2024 to June 30, 2025)

Date and Time of Incident	Location	Sewer System Component	Potential Receiving Waters	Spilled In Jurisdiction	SSO Classification	Description of Incident from SSORS	SSO Duration	Action Taken and Explanation of SSO	Discharge Quantity (gallons)**	Amount Reaching State Waters (gallons)**	DEQ IR	Occurred in previous five years at same location
8/6/2024 3:00:00 PM	79 East College Place	NF-133-887	Ground to Hampton River	Hampton	Infrastructure	During a site visit HRSD staff noticed a sinkhole in the ground. After further investigation it was determine that the sink hole was over top of HRSD's 30-inch Reinforced Concrete Cylinder Pipe and there was missing pipe wall on the top of the pipe observed. There was evidence on the ground around the sinkhole of a past spill but not one during or recent to the site visit. The amount released can not be quantified.	0 hour(s) 0 minute(s)	Constructed a temporary containment system and pumped flow into a manhole near the failure. HRSD has active construction activities via CIP projects in the area to remove this line from service.	Quantity could not be estimated as it was not an active spill	Quantity could not be estimated as it was not an active spill	SSORS#2025-T-106463	No
9/19/2024 1:16:00 PM	3711 Big Bethel Road	NF-024-2400	Ground / Ditch	York	Damage by Others	Contractor was performing conduit install via boring when they struck the HRSD force main (FM) and punctured the side of HRSD's pipe. The contractor did not take the necessary excavation precautions as required by VA 811 law.	10 hour(s) 4 minute(s)	Isolated the force main and diverted flow from YRTP to JRTP to perform repair. A 30x12 saddle was installed over the 1" hole, which was then backfilled and paved. The site was cleaned up, and lime was applied to areas contaminated with wastewater.	15,100	750	SSORS#2025-T-106478	No
9/26/2024 10:49:00 AM	9373 Guinea Road	NF-184-2088	Ground / Ditch to Thorntons Creek	Gloucester	Damage By Others	Bridgeman Civil (BC) was performing work at YR6617 in preparation for planned valve replacement work. A piece of heavy equipment ran over the 2" vent pipe connected to YR6617-3 resulting in a failure.	8 hour(s) 1 minute(s)	Bridgeman Civil (BC) utilized pump and haul trucks to contain sewage and completed repair. The site was cleaned.	5,052	505	SSORS#2025-T-106481	No
11/19/2024 9:30:00 AM	1136 Lawnes Neck Drive	LPT-1013-2	Ground / Ditch to Lawnes Creek / James River	Isle of Wight	Infrastructure	Interceptor Crews were performing maintenance activities; when they were removing the blow-off tube, a PVC glued coupling came undone, resulting in a spill.	3 hour(s) 0 minute(s)	HRSD staff inserted a DC plug to slow the leak until the Vactor truck arrived. A repair was completed, the site was cleaned of debris, and lime was applied to affected areas.	350	300	SSORS#2025-T-106503	No
12/18/2024 11:34:00 AM	Northeast corner of the intersection of Monroe Place and Magnolia Run	SF-041-9069	Gutter pan to storm inlet to Lafayette River	Norfolk	Infrastructure	HRSD received a call from the contractor working on the LASSI pump station project that sewage was coming out of the pavement at the intersection of Monroe Place and Magnolia Run. They noticed on a site visit related to the project.	2 hour(s) 16 minute(s)	The force main causing the problem was serving only Richmond Crescent PS and discharged to a manhole approximately 10 feet away from the apparent point of failure. Staff shut off Richmond Crescent PS and called a pump and haul contractor. When the spill stopped, Interceptors mobilized and exposed the force main. The condition of the force main was in poor condition and showed significant wall loss. A section of pipe was replaced.	850	750	SSORS#2025-T-106525	No

Table 6-2. Detailed Listing of HRSD SSOs (July 1, 2024 to June 30, 2025)

Date and Time of Incident	Location	Sewer System Component	Potential Receiving Waters	Spilled In Jurisdiction	SSO Classification	Description of Incident from SSORS	SSO Duration	Action Taken and Explanation of SSO	Discharge Quantity (gallons)**	Amount Reaching State Waters (gallons)**	DEQ IR	Occurred in previous five years at same location
12/31/2024 3:40:00 PM	1000 Cedar Road	SF-209-7025	Gutter pan draining to stormwater pond / Bells Mill Creek	Chesapeake	Infrastructure	A line fracture allowed approximately 138 gallons of raw wastewater to spill onto the road and into adjacent gutter pan before it was contained.	15 hour(s) 50 minute(s)	Spill was contained and is being pumped continuously until repairs can be completed. On 01/01/2025, HRSD crews open cut Cedar Road and installed a repair clamp on the damaged pipe. Flow was contained 12/31/2024 04:49 PM with the release ending 1/1/25 at 7:30AM. Pump and haul and sandbags were used to contain the release.	1,000	138	SSORS#2025-T-106534	Yes
2/11/2025 6:49:00 PM	612 N Hope Street	MH-NG-160-27107	Storm drain to Mill Creek / James River / Chesapeake Bay	Hampton	Capacity-Weather Related	The MH at Hope and Yukon overflowed when wet weather/rainfall increased system flows.	3 hour(s) 45 minute(s)	Responded to the site to verify the problem. Contacted the contractor for Willard PS and Hampton 'K' improvements about the bypass system operation. Informed that the bypass system had been removed due to the completion of work. HRSD personnel opened a closed downstream valve required for the bypass system. After the valving operations were completed, the overflow stopped within minutes. HRSD personnel also pulled rags from the Willard influent. The site was cleaned up of rags and debris.	36,035	36,035	SSORS#2025-T-106554	Yes
2/26/2025 6:30:00 AM	1228 Richmond Crescent	SS-PS-124	Gutter pan to storm inlet to Edgewater Haven to Lafayette River to Elizabeth River	Norfolk	Infrastructure	Station checkers were on site to check on bypass pump operation at Richmond Crescent and found sewage bubbling from ground adjacent to recent EPC repair dig site. Bubbling was only happening during emergency pump runs and dwindled when pumps were not running.	3 hour(s) 30 minute(s)	Crews established vactor rotation (8:45 AM) to pick up sewage leaking from ground and called for pump and haul trucks so that station could be shut down at which point crew began excavating. Thinking issue could be recent repair, crews dug at the EPC repair location and then chased leak to the mainline valve 30ish-feet away. Valve bonnet bolts were found to be in poor condition and crews witnessed that when station ran, bonnet separated from valve body allowing sewage to leak. Bolts were replaced by crew.	55	34	SSORS#2025-T-106567	No
3/5/2025 5:31:00 PM	612 N Hope Street	MH-NG-160-27107	Storm drain to the Chesapeake Bay	Hampton	Capacity-Weather Related	The manhole overflowed due to increased system flow caused by an extreme wet weather event on 03/05/25. Willard pump station (PS), and surrounding service area, received in excess of 2 inches of rainfall over a 2-hour period.In a 45-minute period, rainfall totals at Bridge St. Tide Gate recorded approximately 1.2 inches of rain.	2 hour(s) 59 minute(s)	HRSD staff verified that the Willard pump station was operating properly, and pulled rags from the wet well bar screen. Staff continued to monitor the overflow throughout the duration. Debris were removed and lime was spread on the affected ground.	21,110	21,110	SSORS#2026-T-106574	Yes

Table 6-2. Detailed Listing of HRSD SSOs (July 1, 2024 to June 30, 2025)

Date and Time of Incident	Location	Sewer System Component	Potential Receiving Waters	Spilled In Jurisdiction	SSO Classification	Description of Incident from SSORS	SSO Duration	Action Taken and Explanation of SSO	Discharge Quantity (gallons)**	Amount Reaching State Waters (gallons)**	DEQ IR	Occurred in previous five years at same location
3/5/2025 6:25 PM	360 Ivy Home Road	MH-NG-142-2371	Storm drain to the Chesapeake Bay	Hampton	Capacity-Weather Related	The manhole overflowed due to increased system flow caused by an extreme wet weather event. Victoria pump station, and surrounding service area, received in excess of 2 inches of rainfall over a 2-hour period. In a 45-minute period, rainfall totals at Bridge St. Tide Gate recorded approximately 1.2 inches of rain.	2 hour(s) 20 minute(s)	HRSD staff verified the Victoria pump station was operating properly and monitored the overflow for the duration of the event. Debris were removed and lime was spread on the affected ground.	9,000	9,000	SSORS#2026-T-106575	Yes
3/5/2025 6:45 PM	79 East College Place	NF-133-887	Drainage ditch to the Hampton River	Hampton	Capacity-Weather Related	The standpipe overflowed due to increased system flow associated with a severe wet weather event, and was further exacerbated by the significant amount of rags and debris accumulating on the bar screens. Bridge St. pump station, and surrounding service area, received in excess of 2 inches of rainfall over a 2-hour period. In a 45-minute period, rainfall totals at Bridge St. Tide Gate recorded approximately 1.2 inches of rain.	3 hour(s) 15 minute(s)	HRSD personnel verified that the Bridge Street pump station was operating normally. Additionally, staff pulled rags from the wet well bar screen and monitored the overflow. Debris were removed and lime was spread on the affected ground.	20,640	20,640	SSORS#2025-T-106573	No
3/07/2025 8:40:00 AM	601 S Battlefield Boulevard	SF-184	Storm drain to Cooper's ditch	Chesapeake	Infrastructure	A 16-inch Asbestos Cement (AC) force main pipe experienced a failure, leading to raw wastewater seeping from the ground, and begin to filling a commercial parking lot. The wastewater began to exit via a storm drain leading to a waterway. The issue was found to be a damaged full circle clamp and an approximate 9-inch x 3-inch hole in the pipe at the 3 o'clock position. The hole and damage to a repair clamp were approximately 1-foot away from each other. The cause of the damage was not apparent.	34 hour(s) 42 minute(s)	HRSD staff is working to divert flow and isolate the break for repairs. Vac trucks are being utilized to recover as much water as possible. On Friday, 3/07/2025, crews directed flows to a City sanitary sewer manhole on Ashley Road and started a pump and haul truck rotation to pick up errant flows, and to clean up spill areas. Interceptor crews contacted Bridgeman Civil and formulated an approach to remedy the spill. Work was scheduled for Saturday night, as it required a diversion along with several valve operations, and extensive planning was needed to execute the associated work. The damaged pipe and repair clamp were removed and a new piece of pipe was sleeved in.	453,300	101,830	SSORS#2026-T-106576	No

Table 6-2. Detailed Listing of HRSD SSOs (July 1, 2024 to June 30, 2025)

Date and Time of Incident	Location	Sewer System Component	Potential Receiving Waters	Spilled In Jurisdiction	SSO Classification	Description of Incident from SSORS	SSO Duration	Action Taken and Explanation of SSO	Discharge Quantity (gallons)**	Amount Reaching State Waters (gallons)**	DEQ IR	Occurred in previous five years at same location
4/09/2025 1:30 PM	On Curlew Drive Immediately East of the intersection of Curlew Drive and Kidd Boulevard	SF-116	Storm drain and direct input into Nosehs Creek, with connection to the Elizabeth River.	Norfolk	Damage By Others	A contractor working in the area struck a 16" force main pipeline. The City of Norfolk Department of Utilities contacted HRSD at approximately 13:30 to report the event. The current flow from the force main is approximately 250-300 gallons per minute of raw wastewater.	6 hour(s) 0 minute(s)	HRSD is working with appropriate utilities to assure safety of site and utilize five pump and haul trucks to remove what materials possible. HRSD is expected to begin excavation and diversion of flow after an emergency Miss Utility ticket clears at 16:45. HRSD staff was able to isolate the involved force main, ceasing the SSO, at 19:30 on April 9, 2025. Estimated unrecovered spill volume is 100-125K gallons of raw wastewater. The repair was ongoing as of 23:04 on April 9, 2025. FINAL UPDATE: HRSD crews finalized repairs of the damaged pipe at 01:30 on 04/10/25. The final estimated volume lost is 85,200 gallons of raw wastewater, with the remainder being collected by a rotation of pump and haul trucks. The affected area was washed down, debris was removed, and lime was spread.	85,200	85,200	SSORS#2026-T-106590	No
4/13/2025 9:29:00 AM	908 Norview Avenue	SF-076	Storm drain to Wayne Creek, Elizabeth River Tributary	Norfolk	Infrastructure	Staff found a failure on an eight-inch cast iron (CI) discharge force main coming from the Norview Avenue Pump Station. The pipeline was installed in 1955. After further investigation, staff found a sharply deflected joint that appeared to have settled over time.	4 hour(s) 34 minute(s)	Staff immediately contacted the On-call pump and haul contractor to service the Norview Avenue Pump Station while it was shut down. On Monday, April 14, staff excavated the site, reported the issue, and removed the failed joint. The joint was replaced with a five-foot section of pipe sleeved in on both sides. Staff also used a vactor truck to recover as much standing sewage and clean up the area.	570	470	SSORS#2026-T-106591	No

7. PLANNED ACTIVITIES FOR FY 2026

HRSD will be continuing the overall program outlined in the Consent Decree in FY 2026. The following sub-sections provide specifics on this work.

7.1 Flow, Pressure, and Rainfall Monitoring Program

7.1.1 Implementation of the FPR Monitoring Plan

Although not required by the Consent Decree, HRSD intends to continue to collect data from flow, pressure, and rainfall sensors in FY 2026, and plans to continue to operate a portal to allow access for the Localities to the HRSD flow, pressure, and rainfall data from the FPR sites (AVEVA PI server data). In FY 2026, HRSD may modify the network and delete and/or relocate some monitoring points.

7.2 Condition Assessment Plan

HRSD will continue to implement the approved Rehabilitation Action Plan.

7.3 Interim System Improvements

HRSD completed all required Interim System Improvements as of November 1, 2018.

7.4 Management, Operations, and Maintenance Program

7.4.1 Implementation of MOM Program

HRSD will continue to implement its MOM Program, including MOM-related Condition Assessment activities.

7.4.2 Quantitative Performance Measures

In FY 2026, HRSD will continue tracking the performance measures to assess the program. This will include the list of six measures that are subject to stipulated penalties per Paragraph 34 of the Consent Decree.

7.5 Regional Wet Weather Management Plan

HRSD began implementation prior to the 5th Amendment being approved by the court on February 8, 2022.

7.6 Short Term Wet Weather Operational Plan

HRSD will continue to implement the approved plan with periodic updates.

7.7 SSO Emergency Response Plan

HRSD will continue to implement its approved SSO Response Plan. An annual update to the plan has been posted to the www.hrsd.com website .

7.8 Consultation with Localities

HRSD will continue to actively participate and facilitate a wide variety of consultation activities in FY 2026. These activities include:

- Periodic meetings of the Capacity Team to discuss RWWMP implementation and other Consent Decree issues;
- Periodic briefings of the Directors' of Utilities Committee to share progress on compliance with the Consent Decree and MOA; and
- Maintain EPA Consent Decree | HRSD.com website to provide documents to the regional Capacity Team.

7.9 Public Participation

HRSD will have an annual information meeting and publish a newsletter by the next anniversary of the Date of Entry, February 23, 2026. Information and approved plans continue to be posted to HRSD's website which is accessible to the public.

7.10 Reporting

HRSD will prepare Quarterly Reports and a Semi-Annual Report in addition to this Annual Report in FY 2026. HRSD continues to publish post-storm analysis for qualifying storms and submit those reports to EPA/DEQ as part of the quarterly report submittal.

8. FORESEEABLE ISSUES RELATED TO UPCOMING COMPLIANCE DEADLINES AND MILESTONES

HRSD continues to experience significant headwinds in completing a handful of Consent Decree projects. Real estate acquisition, railroad easement permitting, and lengthy locality approvals have created extended design phases beyond what could be reasonably anticipated by HRSD. HRSD sent a Force Majeure Notice on August 6th, 2024 identifying unanticipated delays which will likely impact our ability to meet certain Rehab Action Plan (RAP) Phase II completion deadlines. HRSD received a response from the Agencies on September 27, 2024 and provided additional details to EPA/DEQ on Feb 26, 2025 and received confirmation that the request was under review. HRSD believes that its requested changes constitute minor modifications.

9. SIGNIFICANT ISSUES THAT REQUIRE A CHANGE IN THE CONSENT DECREE REQUIREMENTS

HRSD sent a letter regarding "HRSD Proposed Integrated Plan Update Via VDEQ Consent Order" on July 22, 2025. HRSD requests EPA's assistance in enabling new water quality improvement projects through an updated integrated planning approach allowing better prioritization of future HRSD investments. HRSD requests that EPA, along with VDEQ, support termination of the historically successful - but now outdated - federal Consent Decree and transition to an updated VDEQ Consent Order. Under the new Consent Order, in addition to continuing to address regional wet weather sewer capacity and asset management for HRSD's sewer system, HRSD would commit to major new capital projects that would provide superior public health and water quality benefits in Hampton Roads Virginia and the Chesapeake Bay. This approach advances cooperative federalism principles and administrative and workforce efficiencies by taking advantage of the different strengths of EPA, VDEQ, and HRSD. It will also provide a significant additional opportunity for HRSD ratepayers and stakeholders to provide input on HRSD proposals and priorities.

After 15 years of successful federal Consent Decree implementation, it is time to transition HRSD to State enforcement. HRSD has accomplished the vast majority of its requirements under the federal consent decree. Moreover, the SSOs that HRSD has experience over the past 3-5 years have all been due to pipe/equipment failures or intense storms – all of which are beyond HRSD's control. The federal Consent Decree serves no meaningful purpose going forward.

10. IDENTIFICATION OF CHANGES IN KEY PERSONNEL DIRECTLY RESPONSIBLE FOR COMPLIANCE ACTIVITIES

None noted.

APPENDIX A. PROJECT CERTIFICATION FORMS

HRSD
Sustainable, Innovative Wastewater Treatment

2389 G Avenue
Newport News, VA 23602
757.460.2261
hrsd.com

Rehabilitation Action Plan Projects
Verification of Completion

As required by Section VIII of the Third Amended Consent Decree dated May 30, 2015, a set of Rehabilitation Action Plan projects have been identified that must be completed according to the schedule in that document. For capital projects in excess of 1,000,000, Paragraph 87a of the Consent Decree requires that verification be made by a Professional Engineer that the project was completed satisfactorily.

Through April 23, 2025 the following projects have been completed satisfactorily and consistent with the scope provided to the EPA and DEQ in the Consent Decree:

Ref No.	CIP No.	Project Name	Project Cost	Completion Date
BH-R12	BH014600	46th Street Diversion Rehab Replacement	$9,844,728.44	April 30, 2025

Hereby verified by

Jeffrey Layne, PE (No. 0402032946)
Director of Design and Construction, North Shore
Hampton Roads Sanitation District

Cleaning wastewater every day for a better Bay.

Rehabilitation Action Plan Projects
Verification of Completion

As required by Section VIII of the Third Amended Consent Decree dated May 30, 2015, a set of Rehabilitation Action Plan projects have been identified that must be completed according to the schedule in that document. For capital projects in excess of $1,000,000, Paragraph 87a of the Consent Decree requires that verification be made by a Professional Engineer that the project was completed satisfactorily.

Through April 30, 2025, the following projects have been completed satisfactorily and consistent with the scope provided to the EPA and DEQ in the Consent Decree:

Ref No.	CIP No.	Project Name	Project Cost	Completion Date
BH-R12	BH-014610	46th Street Diversion Sewer Rehabilitation/Replacement HII-NNS	$3,297,529.30	April 30, 2025

Hereby verified by

Jeffrey Layne, PE (No. 0402032946)
Director of Design and Construction, North Shore
Hampton Roads Sanitation District

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HRSD
Sustainable, Innovative Wastewater Treatment

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Rehabilitation Action Plan Projects
Verification of Completion

As required by Section VIII of the Third Amended Consent Decree dated May 30, 2015, a set of Rehabilitation Action Plan projects have been identified that must be completed according to the schedule in that document. For capital projects in excess of $1,000,000, Paragraph 87a of the Consent Decree requires that verification be made by a Professional Engineer that the project was completed satisfactorily.

Through June 30, 2025, the following projects have been completed satisfactorily and consistent with the scope provided to the EPA and DEQ in the Consent Decree:

Ref No.	CIP No.	Project Name	Project Cost	Completion Date
CE-R6	CE011300	Birchwood Trunk 24”/30” Force Main at Independence Boulevard Replacement Phase II	$4,430,920	5/16/2025

Hereby verified by

Laura Kirkwood

Laura Kirkwood, PE (No. 0402057866)
Director of Design and Construction, South Shore
Hampton Roads Sanitation District

HRSD
Sustainable, Innovative Wastewater Treatment

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Rehabilitation Action Plan Projects
Verification of Completion

As required by Section VIII of the Third Amended Consent Decree dated May 30, 2015, a set of Rehabilitation Action Plan projects have been identified that must be completed according to the schedule in that document. For capital projects in excess of 1,000,000, Paragraph 87a of the Consent Decree requires that verification be made by a Professional Engineer that the project was completed satisfactorily.

Through April 23, 2025 the following projects have been completed satisfactorily and consistent with the scope provided to the EPA and DEQ in the Consent Decree:

Ref No.	CIP No.	Project Name	Project Cost	Completion Date
YR-R2	YR010300	Foxwood, Woodland Rd & Foxhill Rd Gravity Sewer Rehab	$5,438,701.11	April 23, 2025
GN-R8	GN015300	Int System Valve Replacements Phase I	$2,840,483.66	April 26,2025

Hereby verified by

Jeffrey Layne, PE (No. 0402032946)
Director of Design and Construction, North Shore
Hampton Roads Sanitation District

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Rehabilitation Action Plan Projects
Verification of Completion

As required by Section VIII of the Third Amended Consent Decree dated May 30, 2015, a set of Rehabilitation Action Plan projects have been identified that must be completed according to the schedule in that document. For capital projects in excess of 1,000,000, Paragraph 87a of the Consent Decree requires that verification be made by a Professional Engineer that the project was completed satisfactorily.

Through May 1, 2025 the following projects have been completed satisfactorily and consistent with the scope provided to the EPA and DEQ in the Consent Decree:

Ref No.	CMMS/CIP No.	Project Name	Project Cost	Completion Date
GN-R10	GN018600	North Shore Galvanic Cathodic Protection Rehabilitation	$665,267	5/1/2025
GN-R10	GN018800	South Shore Galvanic Cathodic Protection Rehabilitation Phase II	$281,087	5/1/2025
GN-R10	CMMS WO#2467362	RAP2-North Trunk INT/ NF-178/ W5037-2	$17,925	12/31/2023
GN-R10	CMMS WO#2468988	RAP-2 Elizabeth River Crossing (VIP)/ SF-228/ VIP1107, VIP1108	$15,862	5/31/2023
GN-R10	CMMS WO#2467362	RAP-2 Kingsmill IFM INT FM/ NF-172, NF-173, NF-174/ W1004A-1,2,3; W1004E-5,6,7,8; W1004I-3	$199,157	5/1/2025

Hereby verified by

Bruce Husselbee

Bruce W. Husselbee, PhD, PE, BCEE, DBIA

Chief Engineer

May 28, 2025

HRSD
Sustainable, Innovative Wastewater Treatment

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Virginia Beach, VA 23471-0911
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August 20, 2025

Rehabilitation Action Plan Projects
Verification of Completion

As required by Section VIII of the Third Amended Consent Decree dated May 30, 2015, a set of Rehabilitation Action Plan projects have been identified that must be completed according to the schedule in that document. For capital projects in excess of $1,000,000, Paragraph 87a of the Consent Decree requires that verification be made by a Professional Engineer that the project was completed satisfactorily.

Through August 19, 2025, the following project has been completed satisfactorily and consistent with the scope provided to the EPA and DEQ in the Consent Decree:

Ref No.	CIP No.	Project Name	Project Cost	Completion Date
VIP-R9	VP014800	Lee Avenue-Wesley Street Horizontal Valve Replacement	$ 9,039,299	May 5, 2025

COMMONWEALTH OF VIRGINIA
JEFFREY H. SCARANO
Lic. No. 44133
8/20/25
PROFESSIONAL ENGINEER

Hereby verified by

Jeffrey Scarano, PE (No. 044143)
Director of Design and Construction, Special Projects
Hampton Roads Sanitation District

APPENDIX B. REGIONAL SS SYSTEM CAPACITY RELATED SSOS

Table B-1. Regional SS System Capacity Related SSOs (July 1, 2024 to June 30, 2025)								
Date and Time of Incident	**Location**	**Sewer System Component**	**Jurisdiction**	**SSORS ID**	**Description of Incident from SSORS**	**Corrective Action from SSORS**	**Quantity from SSORS (gallons)**	**Comments* and Response**
9/27/2024 6:00:00 PM	5349 Rockingham Drive	LS 6-1	James City	106484	Spill due to heavy rain/intensity and pressures - 2.37 inches	When the rain tapered off, pressures in the system dropped and extraneous flow reduced and the pumps were able to keep up with the flow. -----October 1, 2024 11:14 AM-----	3,193	Service area impacted by Hurricane Helene. Significant wet weather event covered the pump station service area with over 1.5 inches of rain. Nearby rain gauge registered a 1yr RRI (3hr). Locality described wet weather event of 2.37 inches.
9/27/2024 6:30:00 PM	76-Z Carlton Court	PS #9	Williamsburg	106482	High force main pressure was keeping station from pumping	Pump station was monitored and HRSD was contacted in hope of providing some relief. -----September 27, 2024 08:06 PM-----	3,450	Service area impacted by Hurricane Helene. Significant wet weather event covered the pump station service area with over 1.5 inches of rain. Nearby rain gauge registered a 1- to 2-yr RRI (1hr).
3/5/2025 6:00:00 PM	2213 Shell Road	Manhole @ 2213 Shell Road	Hampton	106571	Sanitary sewer overflow is based on the high HRSD Claremont station on Chesapeake Avenue.	Contacted HRSD -----March 6, 2025 09:59 AM-----	11,300	Significant wet weather event covered the pump station service area with over 2 inches of rain. Nearby rain gauge registered a 2- to 5-year RRI (2hr).
3/5/2025 6:00:00 PM	163 Lasalle Avenue	Lasalle	Hampton	106572	Sanitary sewer overflow is based on the high HRSD Claremont station on Chesapeake Avenue.	Called HRSD -----March 6, 2025 10:02 AM-----	6,350	Significant wet weather event covered the pump station service area with over 2 inches of rain. Nearest rain gauge registered a 2- to 5-year RRI (2hr).
3/16/2025 10:28:00 PM	115 Depot Street	LS 6-8	James City	106584	Spill due to heavy rain/high intensity and pressures	When rain tapered off, pressures in the system dropped and the extraneous flow reduced to the point where the pumps were able to keep up with the flow. JCSA is working with HRSD to resolve high pressure issues according to RWWMP. -----March 18, 2025 03:24 PM-----	43,256	Significant wet weather event covered the pump station service area with over 3 inches of rain. Nearby rain gauge registered a 1- to 2-year RRI (12hr).
4/11/2025 11:20:00 AM	115 Depot Street	LS 6-8	James City	106593	Spill due to heavy rain/intensity and pressures - 1.89 inches	When the rain tapered off, pressures in the system dropped and extraneous flow reduced and the pumps were able to keep up with the flow. -----April 14, 2025 09:57 AM-----	66,794	Significant wet weather event covered the pump station service area with over 2 inches of rain. Locality described wet weather event of 1.89 inches.

Table B-1. Regional SS System Capacity Related SSOs (July 1, 2024 to June 30, 2025)

Date and Time of Incident	Location	Sewer System Component	Jurisdiction	SSORS ID	Description of Incident from SSORS	Corrective Action from SSORS	Quantity from SSORS (gallons)	Comments* and Response
4/11/2025 1:16:00 PM	5349 Rockingham Drive	LS 6-1	James City	106592	Spill due to heavy rain/intensity and pressures -1.89 inches	When the rain tapered off, pressures in the system dropped and extraneous flow reduced and the pumps were able to keep up with the flow. -----April 14, 2025 09:54 AM-----	10,660	Significant wet weather event covered the pump station service area with over 2 inches of rain. Locality described wet weather event of 1.89 inches.
5/13/2025 10:56:00 AM	5349 Rockingham Drive	LS 6-1	James City	106611	Wastewater Diluted with storm water/ground water. Amount of overflow unknown but estimated wastewater component based on typical dry weather flow is 4618.3 gallons for spill duration.	When the rain tapered off, pressures in the system dropped and extraneous flow reduced and the pumps were able to keep up with the flow. -----May 14, 2025 01:26 PM-----	4,618	Significant wet weather event covered the pump station service area with approximately 3 inches of rain. Nearby rain gauge registered a 1-year RRI (1hr).
5/13/2025 11:08:00 AM	179 Red Oak Landing	LS 4-8	James City	106610	Wastewater Diluted with storm water/ground water. Amount of overflow unknown but estimated wastewater component based on typical dry weather flow is 1384.76 gallons for spill duration.	When the rain tapered off, pressures in the system dropped and extraneous flow reduced and the pumps were able to keep up with the flow. -----May 14, 2025 01:23 PM-----	1,385	Significant wet weather event covered the pump station service area with over 2.5 inches of rain.
5/13/2025 11:38:00 AM	115 Depot Street	LS 6-8	James City	106612	Wastewater Diluted with storm water/ground water. Amount of overflow unknown but estimated wastewater component based on typical dry weather flow is 26480.9 gallons for spill duration.	When the rain tapered off, pressures in the system dropped and extraneous flow reduced and the pumps were able to keep up with the flow. -----May 14, 2025 01:30 PM-----	26,481	Significant wet weather event covered the pump station service area with approximately 3 inches of rain.
6/14/2025 7:20:00 PM	3500 Blaine Street	Pump Station	Portsmouth	106619	(Heavy Rain) Station wet well was under water do to ditch overflowing from rainwater (330,000 would be the worst Possible that would have overflow in that duration of time)	There was nothing to do until water drain down -----June 16, 2025 11:04 AM-----	330,000	Significant wet weather event covered the pump station service area with over 3 inches of rain. Nearby rain gauges registered a 10-year RRI (1hr) and 25-year (1hr).

**Comments have been added for the Annual Report that were not part of the SSORS original report*
The remainder of the table is a subset of raw data extracted from SSORS