



June 2021  
Monthly Project Report

## I-64 HAMPTON ROADS BRIDGE-TUNNEL EXPANSION

Report 27

Project No. 0064-M06-032



## Table of Contents

<b>1. Executive Summary .....</b>	<b>1</b>
1.1 Overview .....	1
1.2 Priorities .....	1
1.3 Key Updates .....	2
<b>2. Project Schedule .....</b>	<b>6</b>
2.1 Schedule Status .....	6
2.2 Longest Path .....	6
2.3 Impact Analysis .....	7
<b>3. Project Budget .....</b>	<b>8</b>
3.1 Overall Budget .....	8
3.2 Design-Build Contract Cost Status .....	9
3.3 Budget by Funding Source .....	10
3.4 Contingency .....	12
<b>4. Environmental .....</b>	<b>14</b>
<b>5. Construction .....</b>	<b>15</b>
5.1 Area 1: Hampton Landside .....	16
5.2 Area 2: Marine Work .....	16
5.3 Area 3: Tunnels and Islands .....	18
5.4 Area 4: Norfolk Landside .....	20
<b>6. Operations .....</b>	<b>21</b>
<b>7. Quality .....</b>	<b>22</b>
<b>8. Safety .....</b>	<b>23</b>
<b>9. Civil Rights &amp; DBE/SWaM Business Opportunities .....</b>	<b>24</b>
<b>10. Public Outreach &amp; Media .....</b>	<b>26</b>

**Issue Date: July 9, 2021**

Prepared by:  
Virginia Department of Transportation

[www.hrbtexpansion.org](http://www.hrbtexpansion.org)

## 1. Executive Summary

### 1.1 Overview

This report provides an overview of accomplishments and activities for the Hampton Roads Bridge-Tunnel Expansion Project from May 23, 2021 – June 19, 2021. The Design-Builder for the project is Hampton Roads Connector Partners (HRCP), a consortium that includes lead contractors Dragados, Vinci, Flatiron, and Dodin Campenon Bernard, with lead designers HDR and Mott MacDonald.

The current reporting period is aligned with HRCP's fiscal-month structure, on which the project's design-build schedule updates and invoiced construction progress are based. Reporting periods typically close on the Saturday on or preceding the 24th of each month.

During this reporting period, the following project accomplishments were recorded:

- The design of the project continues to progress, with 65% of the project construction plans approved as Released for Construction (RFC).
- South Island Progress:
  - 87% of the slurry wall panels necessary to begin excavation of the South Island TBM launch pit are complete.
- North Island Expansion Progress:
  - HRCP completed the bund enclosing the fill area to elevation 5.0'.
  - Continued Island fill placement (4.5 out of 9 sections complete for phase 1 – bottom of Bay to elevation 5.0').
- Substantially completed construction of the N1 temporary construction trestle.
- HRCP continued permanent pile driving operations for the North EB Trestle.
- HRCP began permanent pile driving operations for the South Trestle.
- HRCP began fill operation at the east abutment for the Bay Ave bridge.
- Mobilized equipment in preparation for abutment excavation at the Evans St bridge.
- Two (2) enrollees graduated from the On-the-Job Training (OJT) program.

### 1.2 Priorities

The Department's priorities for the Project are to achieve the following objectives:

- To provide mobility enhancements and travel-time reliability along the Project corridor.
- To minimize Project impacts on adjacent communities.
- To improve transportation operations and safety throughout the Project corridor.
- To develop public infrastructure in a financially responsible manner.



## 1.3 Key Updates

### Project Schedule

Schedule updates for this reporting period include:

- HRCP is currently on track to achieve the Substantial Completion on time with the contract milestone of September 1, 2025.
- HRCP is currently on track to achieve Final Completion on time with the contract milestone of November 1, 2025.
- Approximately 32% of the estimated scheduled time has progressed to date.

### Project Budget

Updates through the preliminary June - 2021 payment application, including payment that is pending approval.

- Project budget overview:

Original total project budget:	\$	3,861,997,227
Total expenditures to date:	\$	971,730,333
Remaining project budget:	\$	2,890,266,894

- Design-build contract overview:

Design-build contract original amount:	\$	3,299,997,227
Net change orders:	\$	17,094,947
Exercised options:	\$	73,454,414
Design-build contract sum to date:	\$	3,390,546,588
Expenditures to date:	\$	927,568,321
Remaining design-build contract amount:	\$	2,462,978,267

- Design-build progress to date:

<b>Overall:</b>	<b>27.46%</b>
Project Management:	26.84%
Design:	76.44%
Physical Construction Progress:	12.31%

## Environmental

During this reporting period, HRCP took the following steps in support of environmental management for the project:

- HRCP completed the final noise report and the Cultural Resources Technical Memorandum.
- HRCP continued the use of dogs and handlers to encourage birds to nest away from the project site.
- A loggerhead sea turtle was spotted within the North Island Expansion lagoon. The sea turtle left the lagoon and the bund was closed on June 17, 2021.
- Another cannonball was encountered by the South Island hydromill operations. The Department of Historic Resources responded that the cannonball was not eligible for listing with the National Register of Historic Places (NRHP) and that no further coordination was necessary.

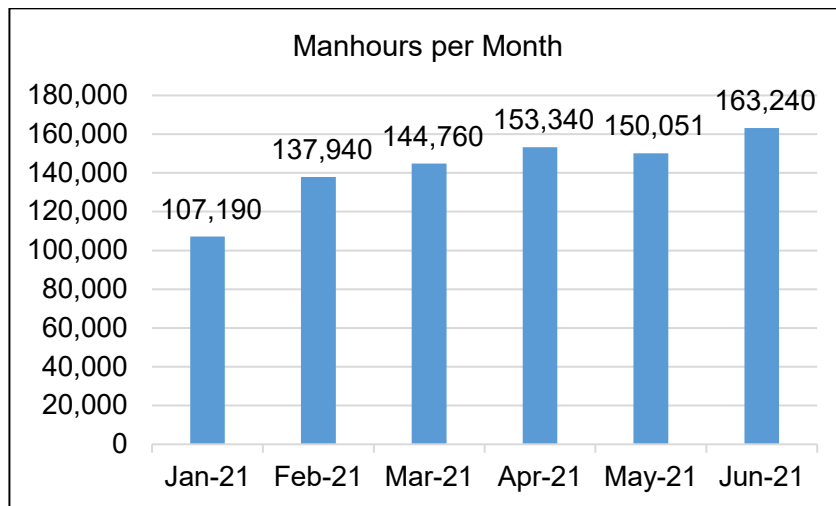
## Construction

Progress updates for this reporting period include:

- Hampton Landside
  - Completed outside shoulder work for I-64 EB.
  - Began temporary sidewalk work at Mallory St.
- Marine Works
  - Continued construction on the S1 temporary construction trestle at the North Shore of Willoughby Spit.
  - Began permanent pile driving operations for the South Trestle.
  - Substantially completed construction of the N1 temporary construction trestle.
  - Began excavation of the abutment and commenced preparations for pile driving operations for the N2 temporary construction trestle.
  - Continued permanent pile driving operations for the North EB Trestle.
  - Completed excavation for Bent 1 piles at the South EB MOT Trestle.
  - Continued placement of perimeter stone for expansion of the North Island.
  - Continued placement of island fill material.
- Tunnels and Islands
  - 87% of the slurry wall panels necessary to begin excavation of the South Island TBM launch pit are complete.
  - Began coring operations for the deep soil mixing field trial program.
  - Continued installing guide walls for tunnel approach structure on the South Island.
  - Continued installing piezometers and dewatering wells on the South Island to support TBM Launch Pit.
- Norfolk Landside
  - Began fill operation at the East Abutment for the Bay Ave bridge.
  - Continued construction of the Oastes Creek Temporary Work Trestle.

- Continued mainline shoulder work and temporary drainage construction in Norfolk.
- Mobilized equipment in preparation for abutment excavation at the Evans St bridge.

The number of construction manhours worked each month is provided by HRCP and is current as of June 30, 2021:



**Project Manhours to Date:**  
1,899,700

## Operations

The following operations activities took place during this reporting period:

- HRCP completed lane shifts and barrier installation in Hampton to accommodate initial construction phases in the median.
- HRCP completed a traffic shift on the Mallory Street bridge and temporarily eliminated center left-turn lanes.
- HRCP implemented a long-term detour on West Evans St. Temporary detours were implemented at the West Bay Ave on-ramp.
- VDOT and HRCP held the Quarterly Concept of Operations Meeting, with a focus in tunnel systems.
- Initiated coordination with VDOT facilities for hurricane preparations.

## Quality

Quality updates for this reporting period include:

- VDOT reviewed 29 Construction Quality Management Plan (CQMP) updates this period.
- VDOT continues to track Owner's Independent Assurance (OIA) and Owner's Verification Sampling and Testing (OVST) requirements and conducts testing as needed.
- VDOT continues to monitor HRCP's material book records for compliance.

## Safety

Safety procedures and activities during this reporting period include:

- VDOT conducts routine safety site visits to promote safe work zones and ensure HRCP's Safety Program is functioning.
- The following safety performance indicator information is provided by HRCP and is current as of June 30, 2021. HRCP is performing better than the national averages.
  - Total Recordable Incidence Rate: 1.68 (National Average: 2.8)
  - Lost Time Incidence Rate: 0.00 (National Average: 1.1)

## Civil Rights & DBE/SWaM Business Opportunities

As of this reporting period, HRCP has awarded a total of **241** subcontracts, subconsultant agreements, and purchase orders to DBE/SWaM certified firms for a total of **\$324.7 million**, towards a project goal of \$394.5 million. There are several new contracts currently in negotiation.

- VDOT conducted eighteen (18) formal DBE Commercially Useful Function reviews on active construction firms.
- Two (2) enrollees graduated from the On-the-Job Training (OJT) program.
- HRCP continued to promote its "Community First" Outreach.
- HRCP was the featured business during the Conference for Minorities for Transportation Officials (COMTO) Hampton Roads Chapter's Monthly meeting.

## Public Outreach & Media

Public outreach and project media updates provided by VDOT and HRCP for this reporting period are as follows:

- HRBT Expansion Project Communications team sent the May/June 2021 Newsletter
- HRBT Expansion Project team presented to the Willoughby Civic League
- HRBT Expansion Project Communications team released the June HRBT Tunnel Talk: Marine Construction
- Bi-weekly HRBT Expansion Communications team meeting included the Cities of Hampton and Norfolk
- HRBT Expansion Project Communications team presented to the American Legion Post 35
- Media Release: HRBT Expansion Project Achieved Key Milestone as the Tunnel Boring machine is Completed

## 2. Project Schedule

### 2.1 Schedule Status

The following table depicts key milestone dates outlined in the contract requirements. This table will be updated to reflect these dates and used as a benchmark to track milestone achievements and has been updated as of the current submitted schedule. The dates below are reflective of the most recent submitted schedule update, which is the Schedule of Record compared with Schedule Update 22.

	Contract Requirement	Schedule of Record Dates	May 2021 (Update 22)	Actual
<b>NTP</b>		Sep 9, 2020	Sep 11, 2020	Sep 11, 2020
<b>Substantial Completion</b>	Sep 1, 2025	Aug 27, 2025	Sep 1, 2025	
<b>Final Completion</b>	Nov 1, 2025	Nov 1, 2025	Nov 1, 2025	

### 2.2 Longest Path

The longest path to achieve the completion date of the Project Schedule Update 22 is driven by the following activities:

- South Portal Launching Pit Slurry Walls Construction Panels, Capping Beam Cell 2 East, Excavation Ph 1,2,3
- South Portal Cell 1 Base Slab Concrete Works
- Assembly of the Tunnel Boring Machine (TBM) in the launching pit
- TBM drive in High Occupancy Toll (HOT) Tunnel
- TBM U-turn
- TBM drive in General Purpose (GP) Tunnel
- TBM Disassembly
- South Portal Cut & Cover Structures Phase 4 Cell 1
- South Portal MEP
- Tunnel GP-Site Integration Acceptance
- Tunnel Commissioning and Systems Integration
- Substantial Completion



## 2.3 Impact Analysis

---

Several elements of work are near-critical and could affect schedule performance if they are not addressed diligently. VDOT and HRCP are closely monitoring these activities. The following work elements have been identified as critical or near critical, meaning there is less than one month of float in the Schedule Update 22:

- South MOT Trestle RFC Design
- North N2 Temporary Trestle Procurement
- North & South Trestle Doka cap platform
- South WB MOT Temporary Trestle Procurement
- North Trestle EB Pile Caps
- South Site Tower Crane - Foundation & Installation
- South Site Jet Grout Report Preparation
- South Portal Launching Pit Slurry Walls Construction Panels
- South Portal Capping Beam Cell 3, Cell 2-West, Cell 1
- South Portal Dewatering
- South Portal Installation of Stiffening Columns & Struts
- South Portal U-Wall Guiding Walls, Slurry Walls Cell 4
- Willoughby Trestle EB Spans 10-72 Test Piles
- North N2 Temporary Trestle
- North Trestle EB Zone 1 Pier Caps & N Trestle WB Zone 6 Piles and Pier Caps
- South Trestle Utilities Planning & Design
- Segment 3 Phase 2 Roadway General Earthwork

### 3. Project Budget

#### 3.1 Overall Budget

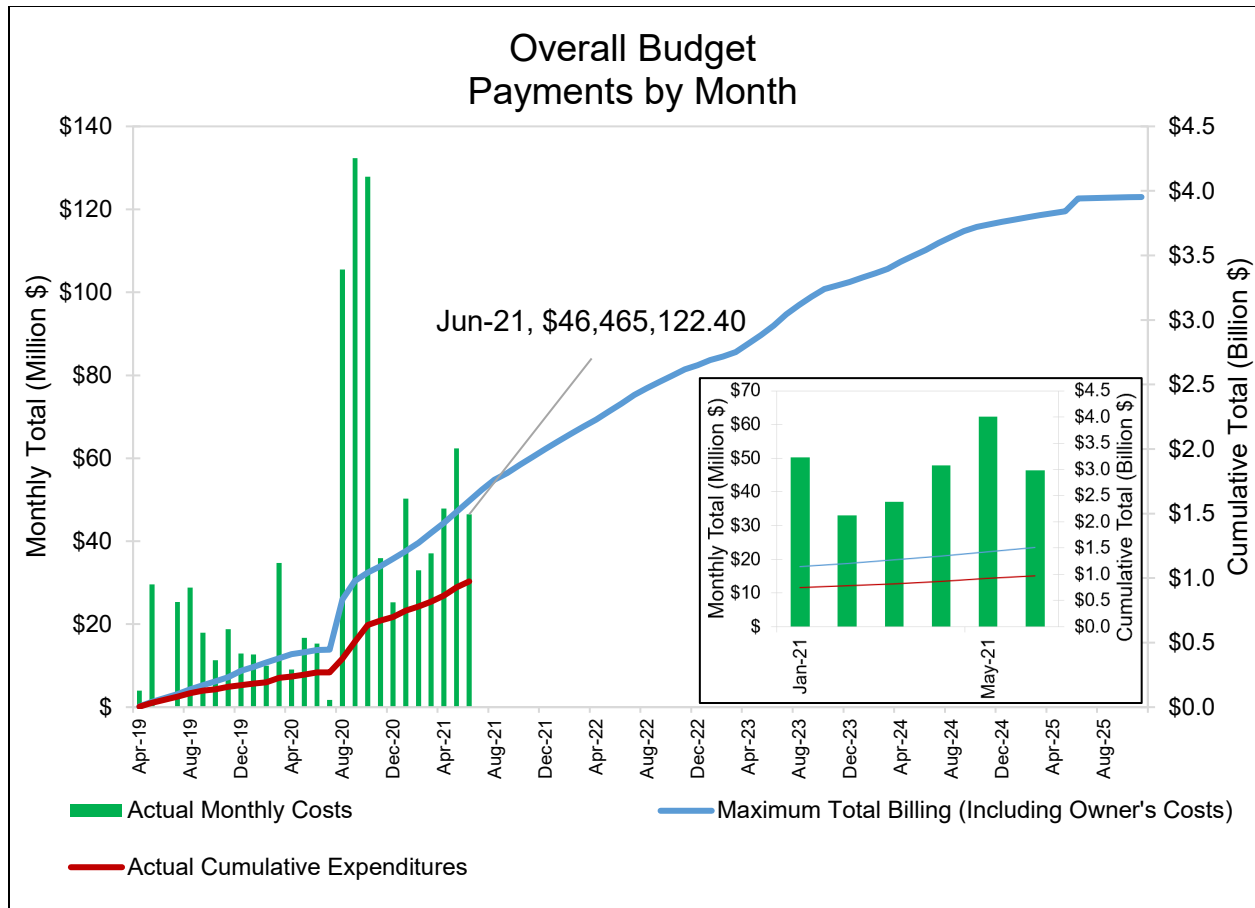
The overall budget outlined in this report is based on the terms and conditions of Article 3 (Project Funding) in the Project Agreement for Funding and Administration (PAFA). The cost curve is based on Exhibit 6 of the Comprehensive Agreement (monthly maximum cumulative compensation amount).

*Note - The following payment is pending for the preliminary June - 2021 payment application.*

	Amount this Period:	Total to Date:	Original Total Budget:	Total Remaining Budget:	Percent To-date:
<b>Comprehensive Agreement</b>					
Construction	\$45,662,478.49	\$927,568,321.16	\$3,299,997,227.00	\$2,372,428,905.84	28.11%

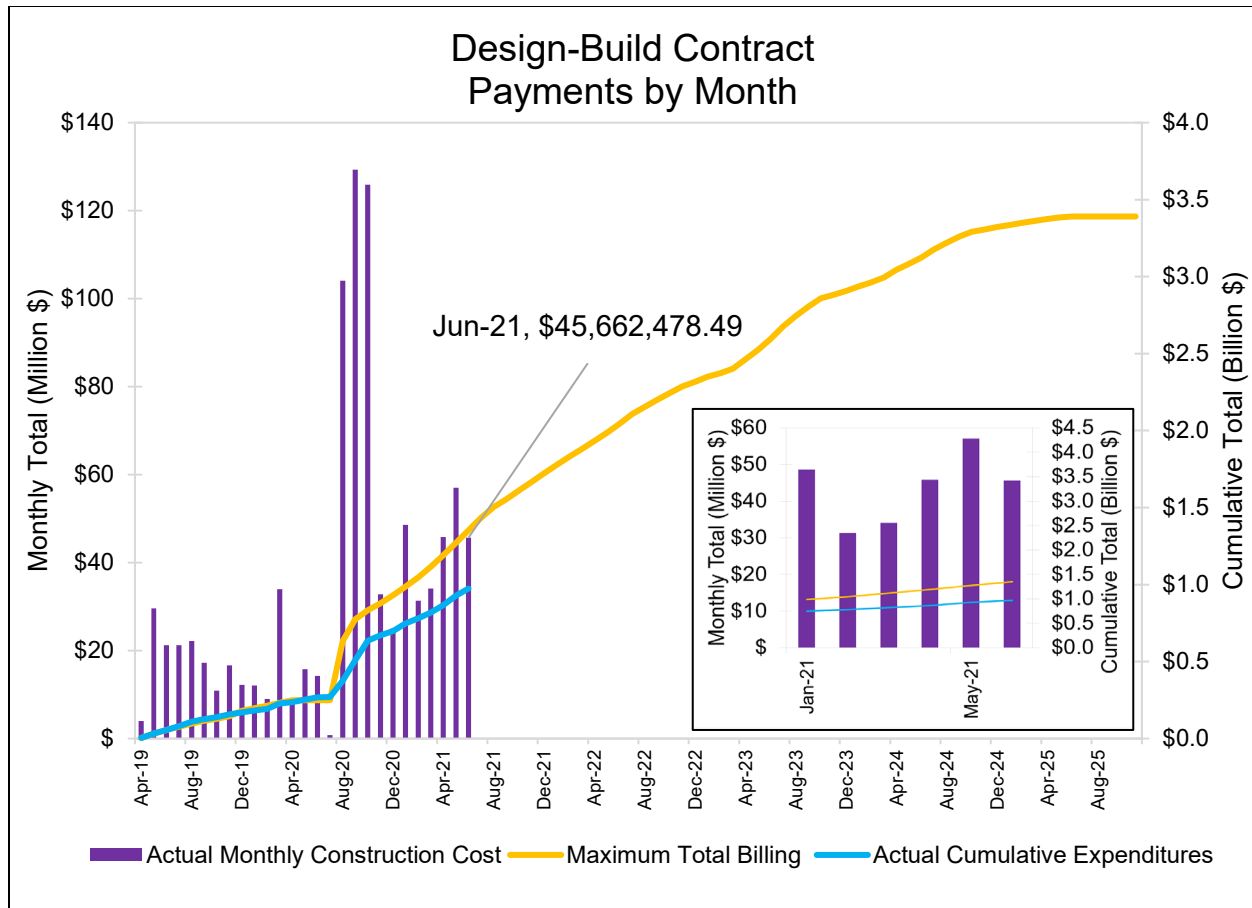
*Note - The following are the administration, right of way, no-excuses incentive, and contingency costs paid through the April - 2021 payment application.*

<b>Owner Costs</b>					
Administration	\$606,010.01	\$29,831,499.81	\$122,000,000.00	\$92,168,500.19	24.45%
Right of Way	\$5,114.90	\$6,492,177.94	\$15,000,000.00	\$8,507,822.06	43.28%
No-Excuses Incentive	\$0.00	\$0.00	\$90,000,000.00	\$90,000,000.00	0.00%
Contingency	\$191,519.00	\$7,838,333.76	\$335,000,000.00	\$327,161,666.24	2.34%
<b>Total</b>	<b>\$46,465,122.40</b>	<b>\$971,730,332.67</b>	<b>\$3,861,997,227.00</b>	<b>\$2,890,266,894.33</b>	<b>25.16%</b>



### 3.2 Design-Build Contract Cost Status

The construction budget and planned cost have been established based on the maximum cumulative compensation amount. For this period, the invoiced expenditures (actual construction contract cost) cover the activities noted in this report.



### 3.3 Budget by Funding Source

The budget for expenditures by funding source is based on the terms and conditions of Article 3 (Project Funding) and Exhibit 5 of the PAFA. This section outlines planned expenditures of both HRTAC and VDOT funds. The cost curve has been developed based on the monthly maximum cumulative compensation amount in the Comprehensive Agreement and will be updated as HRCP refines its design, construction means-and-methods, activity sequences, and project resourcing. Amounts this period reflect amounts paid for Construction, Engineering, Administration, Right of Way, and Contingency between May 23, 2021 – June 19, 2021.

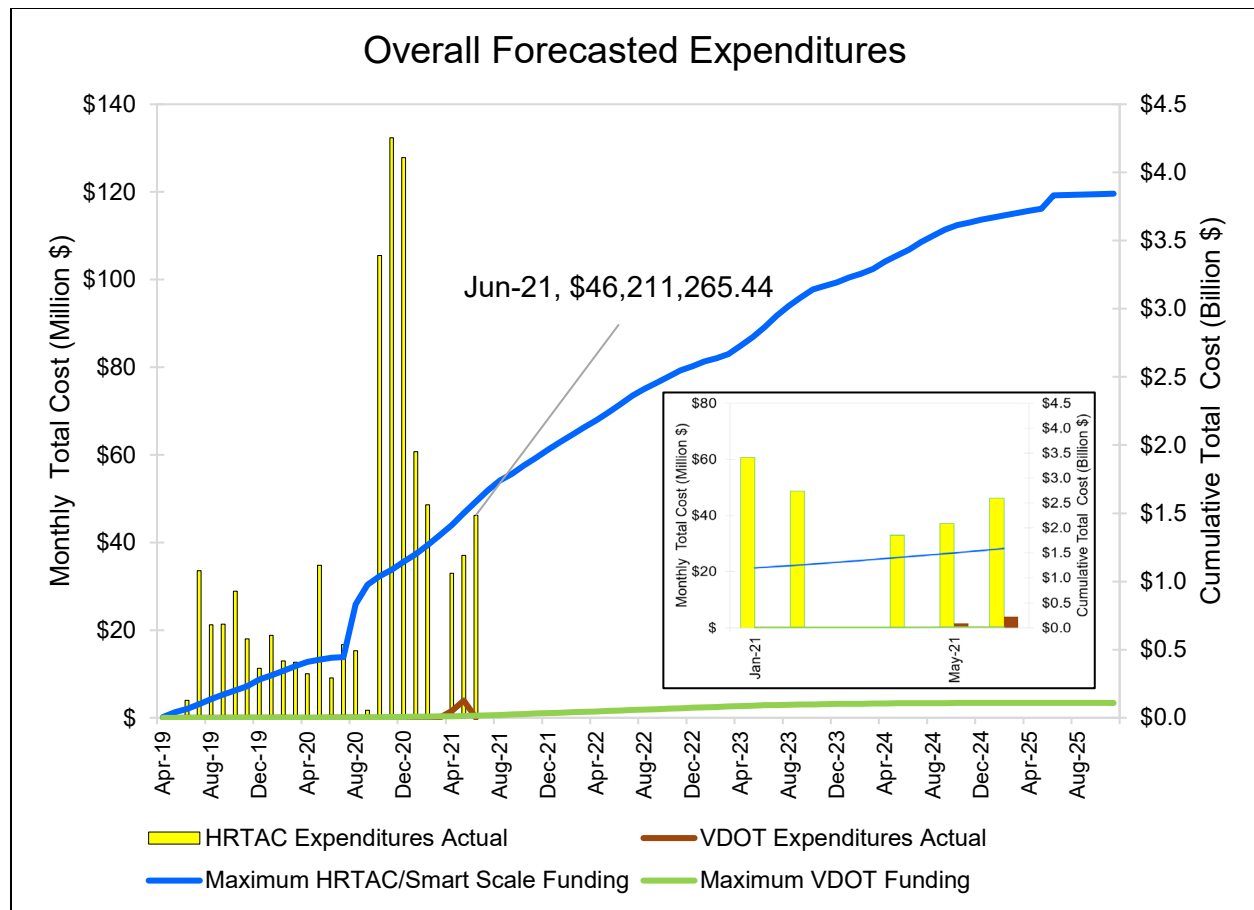
### 3.3.1 HRTAC and Smart Scale

	Amount Spent this Period:	Total Spent to Date:	Original Total Budget Including Smart Scale:	Total Remaining Budget:	Percent Spent To-date:
<b><u>Comprehensive Agreement</u></b>					
<i>Construction</i>	\$44,311,960.00	\$825,213,629.44	\$3,204,569,251.00	\$2,379,355,621.56	25.75%
<b><u>Owner Costs</u></b>					
<i>Administration</i>	\$1,892,604.02	\$27,394,548.48	\$118,472,054.00	\$91,077,505.52	23.12%
<i>Right of Way</i>	\$6,701.42	\$6,480,062.90	\$15,000,000.00	\$8,519,937.10	43.20%
<i>No-Excuses Incentive</i>	\$0.00	\$0.00	\$90,000,000.00	\$90,000,000.00	0.00%
<i>Contingency</i>	\$0.00	\$4,143,414.76	\$325,428,277.00	\$321,284,862.24	1.27%
<b><u>Total</u></b>	<b>\$46,211,265.44</b>	<b>\$863,231,655.58</b>	<b>\$3,753,469,581.00</b>	<b>\$2,890,237,926.42</b>	<b>23.00%</b>

### 3.3.2 VDOT

	Amount Spent this Period:	Total Spent to Date:	Original Total Budget:	Total Remaining Budget:	Percent Spent To-date:
<b><u>Comprehensive Agreement</u></b>					
<i>Construction</i>	\$0.00	\$3,655,027.85	\$95,427,976.00	\$91,772,948.15	3.83%
<b><u>Owner Costs</u></b>					
<i>Administration</i>	\$0.00	\$623,514.00	\$3,527,946.00	\$2,904,432.00	17.67%
<i>Right of Way</i>	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
<i>No-Excuses Incentive</i>	\$0.00	\$0.00	\$0.00	\$0.00	0.00%
<i>Contingency</i>	\$0.00	\$0.00	\$9,571,724.00	\$9,571,724.00	0.00%
<b><u>Total</u></b>	<b>\$0.00</b>	<b>\$4,278,541.85</b>	<b>\$108,527,646.00</b>	<b>\$104,249,104.15</b>	<b>3.94%</b>





### 3.4 Contingency

#### Contract Changes

	Description	Date	Value	Time
CO-1	Department's Acquisition of Willoughby Staging Area	2/11/2020	\$ (3,000,000.00)	0 days
CO-2	Minor Revisions to Technical Requirements	3/18/2020	\$ -	0 days
CO-3	Tunnel Approach Structure Support of Excavation Requirements Refinement	4/28/2020	\$ -	0 days
CO-4	Dispute Resolution Board (DRB) Allowance	5/12/2020	\$ 200,000.00	0 days
CO-5	North Island Armor Stone Value Engineering Change Proposal (VECP)	4/28/2020	\$ (2,011,117.50)	0 days
CO-6	Exit Ramp at Bayville Avenue	5/29/2020	\$ 46,906.29	0 days
CO-7	Minor revisions to the Technical Requirements	7/16/2020	\$ -	0 days
CO-8	Zero Spread Drainage	9/16/2020	\$ 3,239,212.24	0 days
CO-9	Roadway and Bridge Scope Validation Issues	9/4/2020	\$ 15,516,248.00	0 days

CO-10	Slurry Walls as Permanent Structures	8/28/2020	\$ -	0 days
CO-12	Road and Bridge Lighting Requirements	8/27/2020	\$ 2,495,000.00	0 days
CO-13	Bridge Repair Work-Exercise Option	10/9/2020	\$ 73,454,313.00	0 days
CO-14	Trestle Barrier Form Liner elimination	7/29/2020	\$ (99,571.80)	0 days
CO-15	South Island Ground Improvement Value Engineering Change Proposal (VECP)	9/17/2020	\$ (5,338,000.00)	0 days
CO-17	Westbound ITT Reduced Instrumentation	10/30/2020	\$ (184,277.50)	0 days
CO-18	Willoughby Bay Bridge Barriers	9/10/2020	\$ -	0 days
CO-19	GeoPak Version Software Updates	8/3/2020	\$ -	0 days
CO-21	Material Price Adjustment for Asphalt Materials	2/26/2021	\$ -	0 days
CO-22	South Island Asbestos Conduits	9/16/2020	\$ 81,973.93	0 days
CO-23	Island & Tunnel Baseline Monitoring Requirements	7/22/2020	\$ -	0 days
CO-24	Construction Water Supply	9/10/2020	\$ (609,157.27)	0 days
CO-25	Solids Handling Pumps Requirements	11/12/2020	\$ -	0 days
CO-26	Mass Notification Independent System Requirements	11/12/2020	\$ -	0 days
CO-27	Fixed Fire Fighting System Requirements	11/16/2020	\$ -	0 days
CO-28	Hot Lane Shoulder Width	3/29/2021	\$ 2,950,000.00	0 days
CO-30	Willoughby Bay Bridges Fender & Lighting Replacement	2/12/2021	\$ 1,495,000.00	0 days
CO-32	VCU Fisheries and SAV Mitigation Plan	4/16/2021	\$ (1,042,144.00)	0 days
CO-33	Tunnel Finishes Height	12/18/2020	\$ -	0 days
CO-38	H-Piles in Aggressive Soils	12/18/2020	\$ (47,541.00)	0 days
CO-39	Re-use of existing drainage pipes	4/20/2021	\$ (100,984.25)	0 days
CO-41	Wetland Mitigation Costs	4/26/2021	\$ 3,503,400.00	0 days
CO-45	HRCP Project Executive/Representative Change	5/24/2021	\$ -	0 days
<b>TOTAL</b>			\$ 17,094,947.14	0 days

### Material Price Adjustments

- No new activities.

### Miscellaneous

- No new activities.

## 4. Environmental

HRCP has completed or is performing several compliance tasks included in permit conditions:

**Permits** - HRCP submitted permit modification #4 to the agencies on May 26, 2021 and is awaiting final approval from the Corps of Engineers. The modification package did not require action from the Virginia Marine Resources Commission or Department of Environmental Quality.

**Noise Monitoring** - HRCP completed the final noise report and the Cultural Resources Technical Memorandum. These items were submitted on June 8, 2021 to VDOT for review. HRCP's Health and Safety Team continue to conduct noise monitoring for construction activities, with a focus on the Hampton and Norfolk shorelines that are adjacent to ongoing marine construction work.

**NOAA/Proposed Rule** - HRCP submitted a memorandum to NOAA on May 10, 2021 requesting that NOAA either extend the IHA, which is currently set to expire in July 2021, or authorize the remaining IHA activities under the recently approved LOA. On June 2, 2021 HRCP sent VDOT a summary of phone discussions with NOAA indicating that NOAA agreed that the LOA could be utilized to cover remaining IHA and LOA activities.

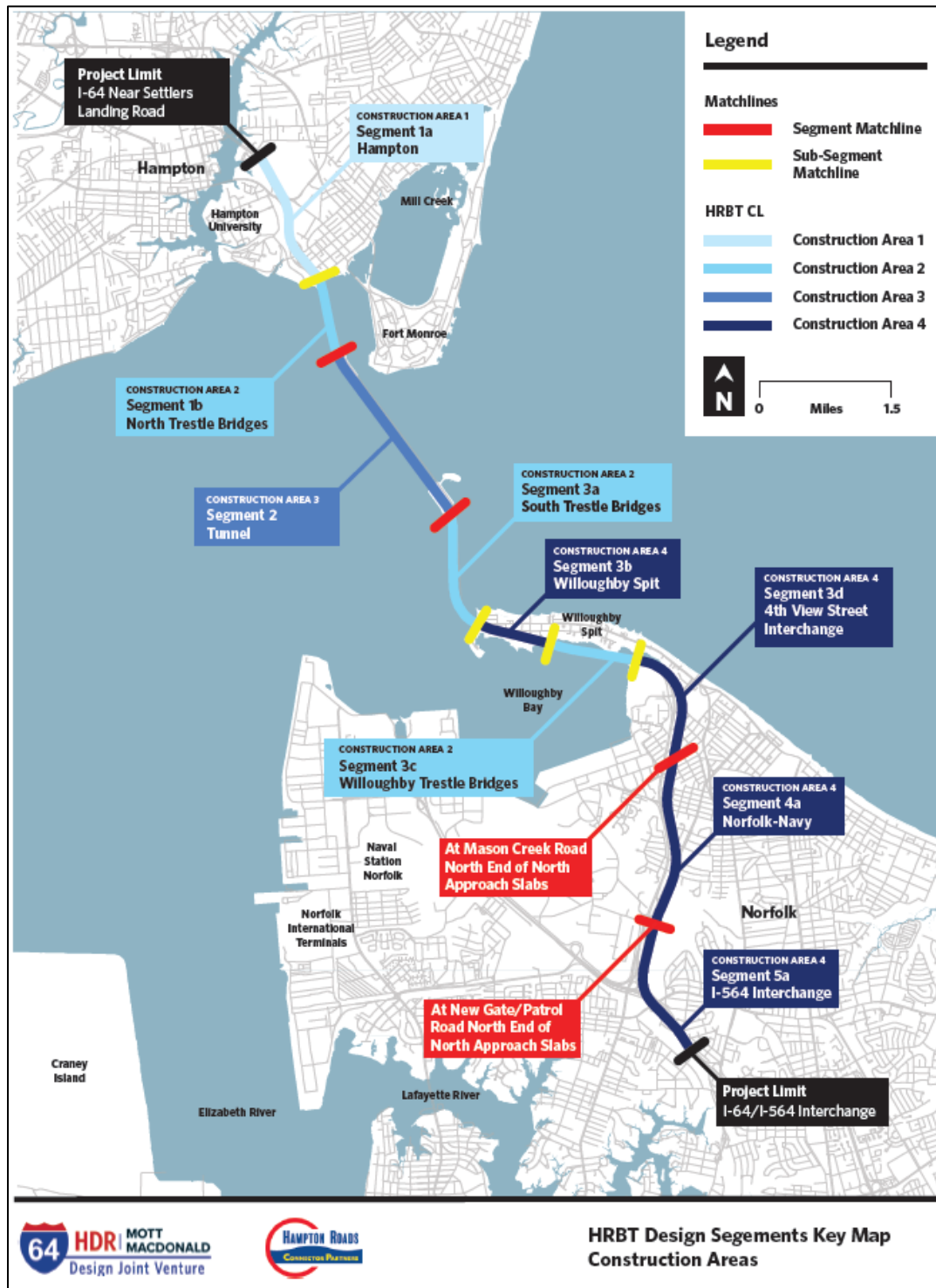
**Bird Mitigation** - HRCP continued the use of dogs to encourage birds to nest away from the project site.

**Marine Wildlife** - On June 4, 2021 HRCP completed the North Island expansion bund perimeter and enclosed the expansion area. Within several days of the bund completion, a loggerhead sea turtle was spotted within the expansion lagoon. After extensive agency coordination, it was decided to re-open the bund to allow the sea turtle to exit on its own accord. During the week of June 14, 2021, the sea turtle left the lagoon and the bund was closed on June 17, 2021.

**Archeological Discoveries** - On June 14, 2021, another cannonball was encountered by the South Island hydromill operations. Work was temporarily stopped while the cannonball was recovered by State and Federal Unexploded Ordnance (UXO) teams. On June 17, 2021, the Department of Historic Resources responded that the cannonball was not eligible for listing with the National Register of Historic Places (NRHP) and that no further coordination was necessary.

## 5. Construction

The figure below illustrates the project limits and the four construction areas throughout the project identified by HRCP.



## 5.1 Area 1: Hampton Landside

During the reporting period, HRCP performed the following work in Area 1:

**Pre-Phase Work** - Completed outside shoulder work for I-64 EB.

**Mallory St** - Began temporary sidewalk work. Installed barrier wall for Phase 1.



◀ **Mallory St**  
Temporary sidewalk work.

## 5.2 Area 2: Marine Work

During the reporting period, HRCP performed the following work in Area 2:

**S1 Temporary Construction Trestle** - Continued to drive piles, set beams, and install decking at the North Shore of Willoughby Spit. This trestle will be used for building the new permanent South Trestle.

**N1 Temporary Construction Trestle** - Substantially completed construction. This trestle will be used for building the new permanent North Trestle.

**N2 Temporary Construction Trestle** - Began excavation of the abutment and commenced preparations for pile driving operations.

**South EB MOT Trestle** - Completed excavation for Bent 1 piles.



**Permanent EB North Trestle** - Continued permanent pile driving operations for the North EB Trestle.

**Permanent South Trestle** - Set pile driving template, prebored, and drove piles for Bent 45.

**North Island Expansion Work** - Continued expansion of the North Island. Multiple crews are working at the north and south area of island fill to place small diameter stone (“bund”) to define the perimeter of the expanded island. Layers of progressively larger stone are being placed on the bayside of the smaller stone. HRCP achieved closure of the bund up to elevation 5.0’. Continued placement of soil fill material (4.5 out of 9 sections complete for phase 1 – bottom of Bay to elevation 5.0’).



◀ **North Island Expansion**

Crews preparing to close the bund.



◀ **North Island Expansion**  
Fill placement progress.

### 5.3 Area 3: Tunnels and Islands

During the reporting period, HRCP performed the following work in Area 3:

**South Island Slurry Wall Construction** - Slurry wall construction continued for the tri-cell TBM launching pit and work started on the tunnel approach rectilinear section slurry walls. As of June 19, 2021, 88 out of 101 slurry wall panels necessary to begin excavation of the South Island TBM Launch Pit are complete.

**South Island Guide Wall Installation** - Work continued on the guide wall installation for the tunnel approach structure walls. Completed phase 1 demolition on the north end guide walls in preparation for top slab.

**South Island TBM Conveyor & Quay Installation** - Completed conveyor pile driving operations and began work on pile caps. Completed offshore quay pile driving operations and began mobilization for sliding template.

**South Island Ground Improvement Operations** - Began coring operations for the deep soil mixing field trial program.

**South Island Instrumentation and Monitoring (I&M) Installation** - Continued installation of piezometers for the I&M program, 41 piezometers have been installed to date. Work began on the installation of the dewatering wells at the South Island, a total of 10 dewatering wells have been installed to date.

**South Island Sheet Pile Isolation Walls** - Work continued on the installation of sheet pile isolation walls on the west side of the Tricell to provide support for the excavation to install the cap beams.



◀ **South Island**  
Overview



◀ **South Island**  
Tandem reinforcing cage lift for "Y" panel.



## 5.4 Area 4: Norfolk Landside

During the reporting period, HRCP performed the following work in Area 4:

**Oastes Creek Temporary Work Trestle** - Continued construction to provide access for bridge-widening work.

**Mainline Work in Norfolk** - Began median shoulder widening from 4<sup>th</sup> View to Bay Ave. Completed shoulder leveling and rumble strip removal for Segment 3 EB. Completed initial temporary drainage construction in the median between 4<sup>th</sup> View and Bay Ave for I-64. Began temporary drainage construction in the median between Bay Ave and Patrol Rd.

**Bay Ave Bridge** - Began installing barrier wall on the EB on-ramp. Began fill operation at the East Abutment.

**Evan St Bridge** - Installed erosion control measures along I-64 EB in Norfolk between the Evan St Bridge and the Bayview Blvd Bridge. Mobilized equipment for excavation of Abutments.

**4<sup>th</sup> View** - Began installing construction entrance.



◀ **Mainline Work in Norfolk**  
Median widening between 4<sup>th</sup> View and Bay Ave.

## 6. Operations

Operations activities include shoulder and lane closures, creation and maintenance of intelligent transportation system (ITS) architecture, other maintenance within the corridor, coordination with existing VDOT Operations, and communication with the Hampton Roads Harbor Tunnels (HRHT) facility staff. The following operations activities occurred during this reporting period:

**Shoulder and Lane Closures** - Conducted maintenance of equipment for tunnel baseline I&M, installation of I&M equipment, shoulder strengthening/leveling, median drainage work, corridor surveying, and routine maintenance activities.

**Hampton Lane Shifts** - Shoulder strengthening and leveling began in Hampton. HRCP completed lane shifts and barrier installation in both directions to accommodate initial construction phases in the median.

**Mallory Bridge Replacement** - Initial works continued to support the Mallory Street Bridge replacement, including upgrades for temporary pedestrian detours, ramp shoulder strengthening, and resetting of guardrail. Completed a traffic shift on the Mallory Street Bridge and temporarily eliminated center left-turn lanes.

**Long Term Lane Closures** - Implemented on Bay Avenue in Norfolk to facilitate access to a staging area for the widening of the Oastes Creek Bridge.

**Detours** - Implemented long term at West Evans St. to facilitate bridge widening. Also implemented temporary detours on the West Bay Ave on-ramp for bridge widening work.

**Quarterly Concept of Operations Meeting** - Held meeting on June 3, 2021 with the design and operation groups. The focus of this meeting was on tunnel systems (cameras, signs, lane control signals, etc.).

**Hurricane Preparations** - Initiated coordination with VDOT facilities for hurricane preparedness. Discussed potential outfalls for dewatering operations that do not impact ongoing HRCP construction operations should the flood gates need to be closed.

**Routine Management** - HRCP performed routine incident management and maintenance operations within the corridor. VDOT continues to monitor HRCP's approved maintenance management plan for compliance.



## 7. Quality

Quality updates for this reporting period include:

**Construction Quality Management Plan (CQMP) Updates** - VDOT reviews as part of final “Released for Construction” (RFC) design packages. There were 29 updates reviewed this period. The CQMP updates include specific testing and inspection plans for the work shown in the corresponding RFC plans and a staffing matrix showing quality assurance and quality control staffing for the work.

**Quality Management System Plan (QMSP)** - VDOT continues to engage HRCR in discussions on HRCR’s implementation of their QMSP and the effectiveness of the plan.

**Quarterly Updates of Quality Plans** - HRCR submitted the quarterly updates of the Quality Management System Plan, Construction Management Quality Plan, and the Design Quality Management Plan. VDOT completed the review and returned each plan with comments.

**Tunnel Quality Plan** - HRCR updated VDOT on the status of the next version of the Tunnel Quality Plan and will submit it for VDOT review by June 30<sup>th</sup>.

**Material Book Records** - HRCR completed the update of the material book records in response to VDOT’s first audit of the material notebook. HRCR will submit those records with the appropriate signatures in order for VDOT to close that audit. HRCR has also submitted the records for the next two volumes. VDOT audited these records and sent comments back to HRCR. VDOT also conducted a monthly review of the current records.

**Routine Quality Activities** - Conducted reviews of deficiencies and nonconformance reports (NCRs) and coordinated with the resident engineers for acceptance of root causes and dispositions of deficiencies. Conducted reviews of QA and QC records for accuracy and quality issues. Coordinated documentation reviews through VDOT’s Material Department.

## 8. Safety

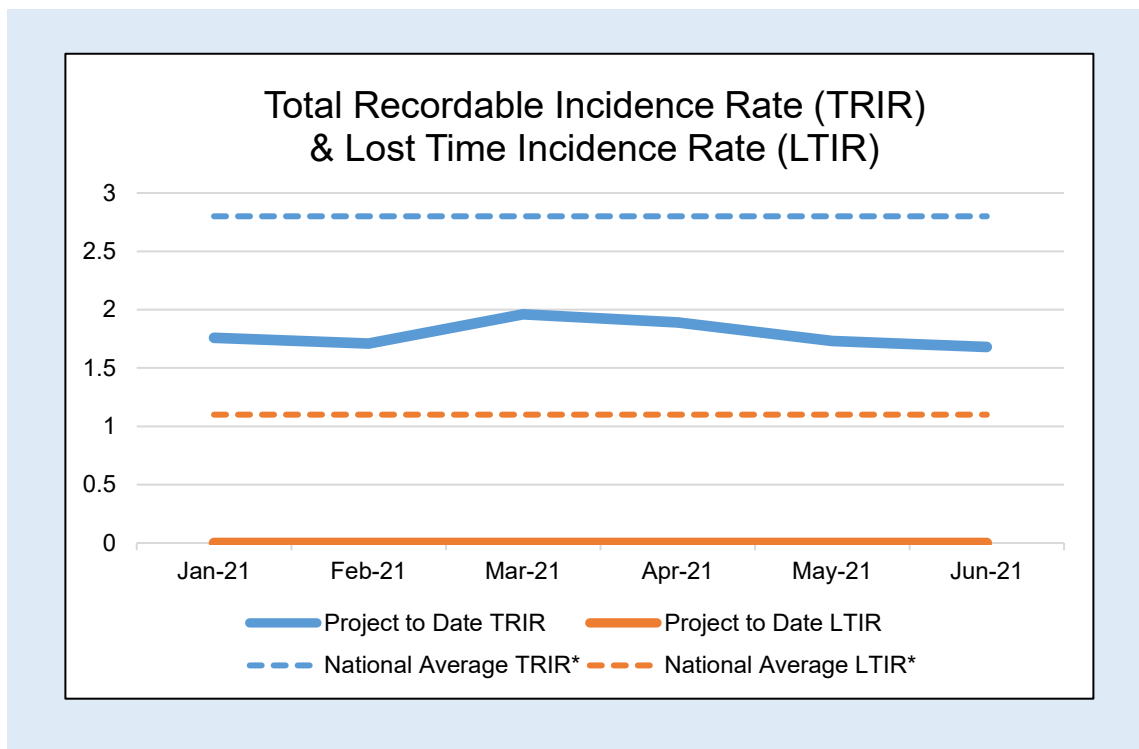
Safety procedures and activities during this reporting period include:

**COVID-19 Policies** - Pursuant to guidelines and recommendations received from the Commonwealth of Virginia, the mask mandate has been lifted for vaccinated personnel. New procedures also allow for in-person meetings. HRCP is monitoring these new policies.

**Safety Site Visits** - VDOT continued to conduct routine site visits to promote safe work zones.

**New Programs & Meetings** - HRCP has implemented the “See, Act, Share” program for employees to report safety concerns on site. Hurricane preparatory meetings were held on site with coordination with VDOT and HRCP personnel.

**Safety Performance Indicators** - The following safety performance indicator information is provided by HRCP and is current as of June 30, 2021. HRCP is performing better than the national averages.



*\*National averages are from the Bureau of Labor Statistics, US Department of Labor – 2019 Data for Construction Industry, Published November 4, 2020.*

## 9. Civil Rights & DBE/SWaM Business Opportunities

As of this reporting period, HRCP has awarded a total of **241** subcontracts, subconsultant agreements, and purchase orders to DBE/SWaM certified firms for a total of **\$324.7** million, towards a project goal of \$394.5 million. There are several new contracts currently in negotiation.

### Compliance Activities

- ✓ VDOT-HRBT Civil Rights Compliance Team met on June 2 & 16, 2021 to discuss civil rights compliance matters that may require HRCP's attention and any upcoming reporting requirements due. These meetings are held bi-weekly.
- ✓ VDOT and HRCP teams meet monthly to provide updates in all areas of civil rights pertaining to HRCP's agreement with VDOT. As VDOT's Compliance Team monitors the work of subcontractors performing on the project, a total of eighteen (18) formal DBE Commercially Useful Function reviews have been conducted on active construction firms.

### Workforce Development Activities

- VDOT and HRCP met on June 3, 2021, with representatives of STOP Inc, a community-based organization serving both the Hampton Roads and Accomack-Norhampton Planning Districts offering economic solutions for families and individuals in the areas of education, employment, housing, and health for low to moderate wage earners. The introductory meeting provided an opportunity to showcase employment and small business opportunities available on the HRBT project.
- HRCP made progress towards achieving the 80 OJT contract goal and remains committed to exceeding it. Two (2) enrollees graduated from the OJT program with two (2) candidates approved during this period for a total of six (6) currently active candidates in the training program.
- HRCP currently has two hundred fifty-four (254) professional staff and one hundred ninety-three (193) craft personnel working on the project. HRCP has exceeded its EEO workforce participation goals with minorities representing 54% (27.1% contract goal) and women representing 12% (6.9% contract goal).
- HRCP continued to promote its "Community First" Outreach by sharing all career and OJT employment opportunities to community partners. Employment opportunities can be found at <https://corehr.hrcloud.com/hrcpjv/#/jobs>.

### Business Development Activities

- VDOT reviewed HRCP's ongoing procurement opportunities and discussed various DBE/SWaM vendor work categories that may be interested and capable of fulfilling the proposed requirements.
- VDOT contacted DBE firms under contract with HRCP to promote resources available through its BOWD Center and Readiness Tool to become eligible to receive federal supportive services financial assistance. Discussions were held with BOWD service providers about the types of training and technical assistance recommended for the thirty-four (34) firms that completed the assessment tool.

- HRCP was the featured business during the Conference of Minority Transportation Officials (COMTO) Hampton Roads Chapter's Monthly Meeting held on June 14, where HRCP's EEO Specialist gave a formal presentation about the Project. VDOT shared information about its upcoming Virtual DBE Training Symposium scheduled for June 29.
- Other business development events attended included the following:
  - May 24, 2021 - Black Brand Quarterly Corporate Roundtable
  - May 25, 2021 - VDSBSD SWaM Certification Workshop
  - May 26, 2021 - U.S. DOT Next Steps for Small Business Contract Readiness
  - May 26, 2021 - Southern Opportunity & Resilience (SOAR) Fund for Small Business Owners in Virginia Event
  - May 27, 2021 - Metropolitan Washington Airports Authority & VDSBSD Small Business Outreach Certification & Doing Business Event
  - June 10, 2021 - VA Asian Chamber of Commerce, ProcureConnect Mid-Atlantic Buyer Forum

## 10. Public Outreach & Media

The following public outreach and project media activities occurred in this period:

### Public Outreach

- June 4, 2021 - HRBT Expansion Project Communications team sent the [May/June 2021 Newsletter](#)
- June 10, 2021 - HRBT Expansion Project team presented to the Willoughby Civic League
- June 10, 2021 - HRBT Expansion Project Communications team released the June HRBT Tunnel Talk: [Marine Construction](#)
- June 11, 2021 - Bi-weekly HRBT Expansion Communications team meeting included the Cities of Hampton and Norfolk
- June 11, 2021 - HRBT Expansion Project Communications team presented to the American Legion Post 35

### Media

- May 24, 2021 – Media Release: [HRBT Expansion Project Achieved Key Milestone as the Tunnel Boring machine is Completed](#)

**Visit our website to view more information:**  
[www.hrbtexpansion.org](http://www.hrbtexpansion.org)