



August 2021
Monthly Project Report

I-64 HAMPTON ROADS BRIDGE-TUNNEL EXPANSION

Report No. 29

Project No. 0064-M06-032



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Prepared by:

Virginia Department of Transportation

www.hrbtexansion.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 July 25, 2021 – August 21, 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 80% of the project construction plans approved as Released for Construction (RFC).
- Casting of the demonstration tunnel liner segments is in progress at the Cape Charles facility.
- South Island Progress:
 - All of the slurry wall panels in the TBM Tricell Launch Pit are complete.
 - The first concrete sections of capping beams completed at the TBM Launch Pit.
- North Island Expansion Progress:
 - Continued Island fill placement (7 out of 8 sections complete to elevation +5.0').
 - Began placement of fill material in elevations +5.0' to +12.0'.
- Continued permanent pile driving operations for the North Eastbound and South Trestle.
- Continued construction of the Evans St bridge, Willoughby Bay Bridge, and Oastes Creek Bridge for Eastbound widening. Began construction of the Bayview Blvd bridge for Eastbound widening.
- Completed construction of the Willoughby Bay Temporary Work Trestle for Eastbound widening.
- HRCP has exceeded work-force participation goals by achieving 11% female participation and 46% minority participation on the project to date.

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:

- HRCF is reporting Substantial Completion in accordance with the contract milestone of September 1, 2025.
- HRCF is reporting Final Completion in accordance with the contract milestone of November 1, 2025.
- Approximately 35% of the scheduled time has elapsed to date.

Project Budget

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

- Project budget overview:

Original total project budget:	\$	3,861,997,227
Total expenditures to date:	\$	1,050,543,292
Remaining project budget:	\$	2,811,453,935

- Design-build contract overview:

Design-build contract original amount:	\$	3,299,997,227
Net change orders:	\$	17,244,947
Exercised options:	\$	73,454,414
Design-build contract sum to date:	\$	3,390,696,588
Expenditures to date:	\$	1,001,716,016
Remaining design-build contract amount:	\$	2,388,950,572

- Design-build progress to date:

Overall:	29.66%
Project Management:	29.95%
Design:	79.82%
Physical Construction Progress:	14.35%

Environmental

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

- HRCP submitted additional information in support of permit modification request #5 to the agencies on August 4, 2021.
- HRCP received approval from DEQ to reuse the top 20 feet of the South Island Launch Pit excavation as fill material for the North Island expansion.
- FHWA has responded that they have no additional comments on HRCP's Final Noise Analysis.
- HRCP completed their 2021 inspections of bridge structures for the presence of bat species and found no indications of bat usage.
- HRCP continued the use of dogs and handlers to encourage birds to nest away from the project site.
- HRCP held a meeting with DEQ staff on August 12, 2021 to review the air permit applications for the North and South Island's temporary generators.

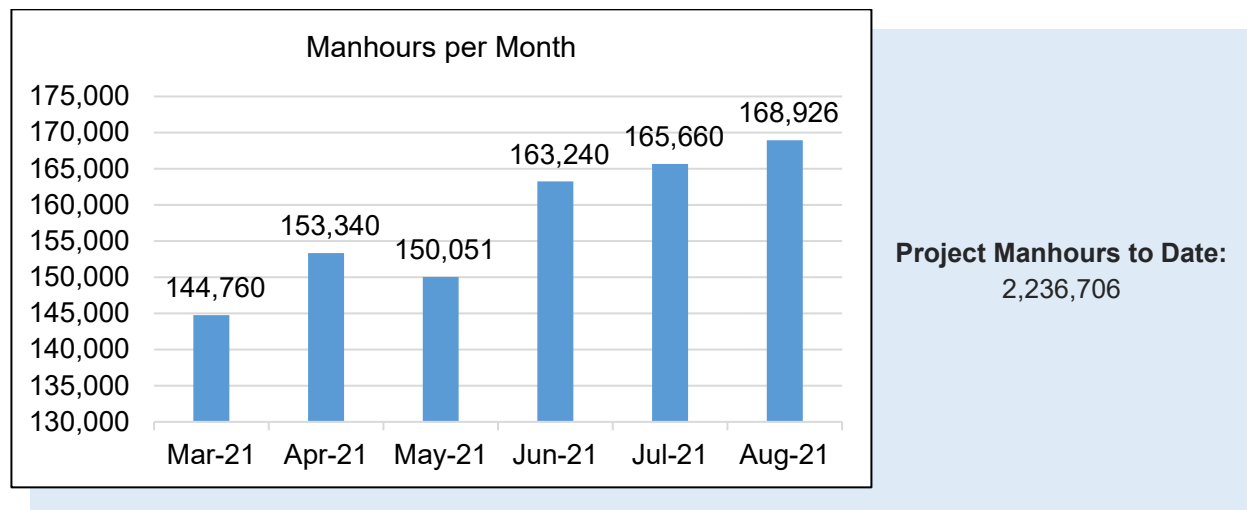
Construction

Progress updates for this reporting period include:

- Hampton Landside
 - Continued temporary sidewalk work at Mallory St intersections.
- Marine Works
 - HRCP also received Top Hats (flat plates welded to the head of the piles for platform and beam support) and began preparation for installation at the South MOT Eastbound Trestle.
 - Continued permanent pile driving operations for the North Eastbound Trestle and South Trestle.
 - Mobilized an additional crane and continued pile driving operations for the North Temporary Construction Trestles.
 - Continued expansion of the North Island and began production vibrocompaction of soil fill material.
- Tunnels and Islands
 - slurry wall panels in the TBM Tricell Launch Pit are complete.
 - Placed the first concrete sections of capping beams in the TBM Launch Pit.
 - Continued ground improvement deep soil mixing and jet grouting operations on the South Island.
 - Continued work on pile caps and the conveyor system superstructure.
 - Completed installation of dewatering wells in the TBM Launch Pit.
 - Began placement of the first section of the TBM Slurry Treatment Plant slab.

- Norfolk Landside
 - Began installing scupper drains in the existing bridge deck at Bay Avenue.
 - Completed installing scupper drains for the existing Eastbound bridge deck at Oastes Creek.
 - Began construction of the Bayview Blvd Bridge for Eastbound widening.
 - Continued construction of the Willoughby Bay Bridges, Oastes Creek Bridge, and Evans St Bridge for Eastbound widening.
 - Completed the Willoughby Bay Temporary Work Trestle for Eastbound widening.

The number of construction manhours worked each month is provided by HRCP and is current as of August 31, 2021:



Operations

The following operations activities took place during this reporting period:

- Implemented a long-term lane closure on Bayview Blvd to facilitate bridge widening.
- Implemented additional lane shifts along I-64 around I-564 in Norfolk.
- Installed traffic barrier wall near the Willoughby area in Norfolk.
- Completed parapet demolition and pedestrian fence installation at the Mallory St. Bridge.
- Initiated a weekly Intelligent Transportation System (ITS) meeting with HRCP.

Quality

Quality updates for this reporting period include:

- VDOT reviewed 7 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 and audit 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 August 31, 2021.
 - Total Recordable Incidence Rate: 1.88 (National Average: 2.8)
 - Lost Time Incidence Rate: 0.09 (National Average: 1.1)

Civil Rights & DBE/SWaM Business Opportunities

To date, HRCP has awarded **252** subcontracts, subconsultant agreements, and purchase orders. Contract awards represent a total of **\$345 million** to active DBE/SWaM firms on the project.

- HRCP's contract goals for female trade participation is 6.9% and minority trade participation is 27%. HRCP has achieved 11% for female participation and 46% for minority participation on the project to date, exceeding established workforce participation goals.
- HRCP continues to make progress towards its 80-employee On-the-Job Training goal. Two (2) enrollees graduated (with another pending VDOT's final review), eight (8) enrollees are active, and six (6) enrollees are pending interviews by VDOT.
- HRCP's Major Hiring Campaign launched in July 2021 concluded earlier this month.
- There were several business outreach events that HRBT participated in to promote contracting opportunities and resources available for DBE/SWaM vendors, including events hosted by CVMSDC, the City of Virginia Beach, and USDOT/SBA.

Public Outreach & Media

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

- Outreach event at the "Music by the Bay" Summer Concert at Continental Park at Fort Monroe in Hampton.
- Bi-Weekly Communication Team Meeting with the Cities of Hampton and Norfolk.
- Community outreach event at the Buckroe Beach Farmers Market in Hampton.
- Three news articles through 13 News Now and WAVY 10.

2. Project Schedule

2.1 Schedule Status

The following table depicts key milestone dates outlined in the contract requirements. This table will be 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 24.

	Contract Requirement	Schedule of Record Dates	July 2021 (Update 24)	Actual
NTP		Sep 9, 2020	Sep 11, 2020	Sep 11, 2020
Substantial Completion	Sep 1, 2025	Aug 27, 2025	Sep 1, 2025	
Final Completion	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 24 is driven by the following activities:

- South Portal Launching Pit Capping Beam Cell 1,2,3
- South Portal Launching Pit Excavation Phase 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 Mechanical, Electrical, and Plumbing (MEP) Activities
- GP Tunnel Testing and Acceptance
- Commissioning and Testing of all Systems (Roadway, Bridges, Structures, Tunnels)
- 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 24:

- South Portal Launching Pit Stiffening Columns & Struts
- South Portal Temporary Headwall Partial Excavation
- South Portal Slurry Walls Cell 4,5,6,7
- South Portal Jet Grout-Break-in/out
- South MOT EB & WB Temporary Trestle Procurement
- North Trestle EB Zone 1,3
- South Trestle EB/WB Zone 2, EB MOT Zone 3, WB MOT Zone 4
- Segment 3 Roadway Work
- North Portal Receiving Pit

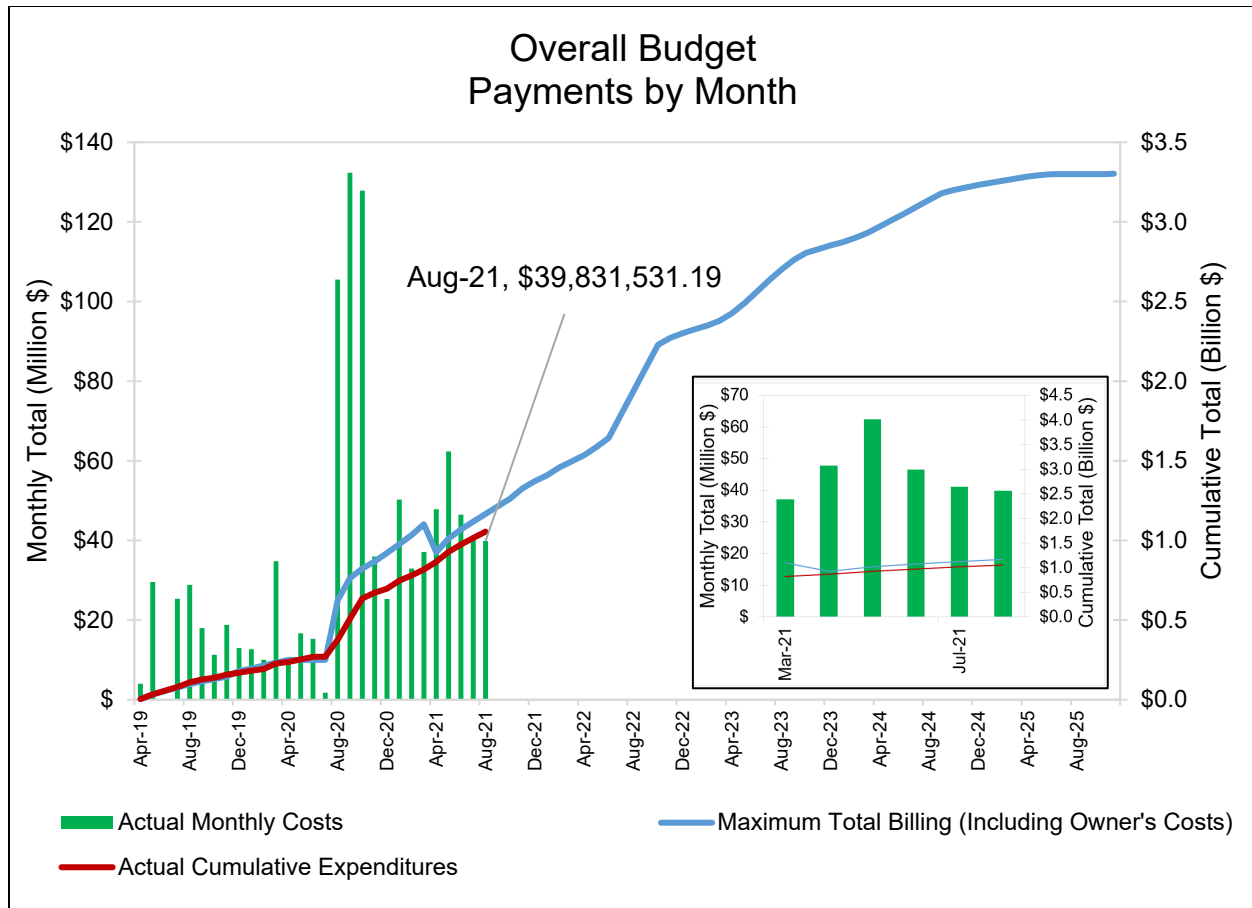
3. Project Budget

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 Amounts this Period are pending and inclusive of the preliminary August 2021 payment application.

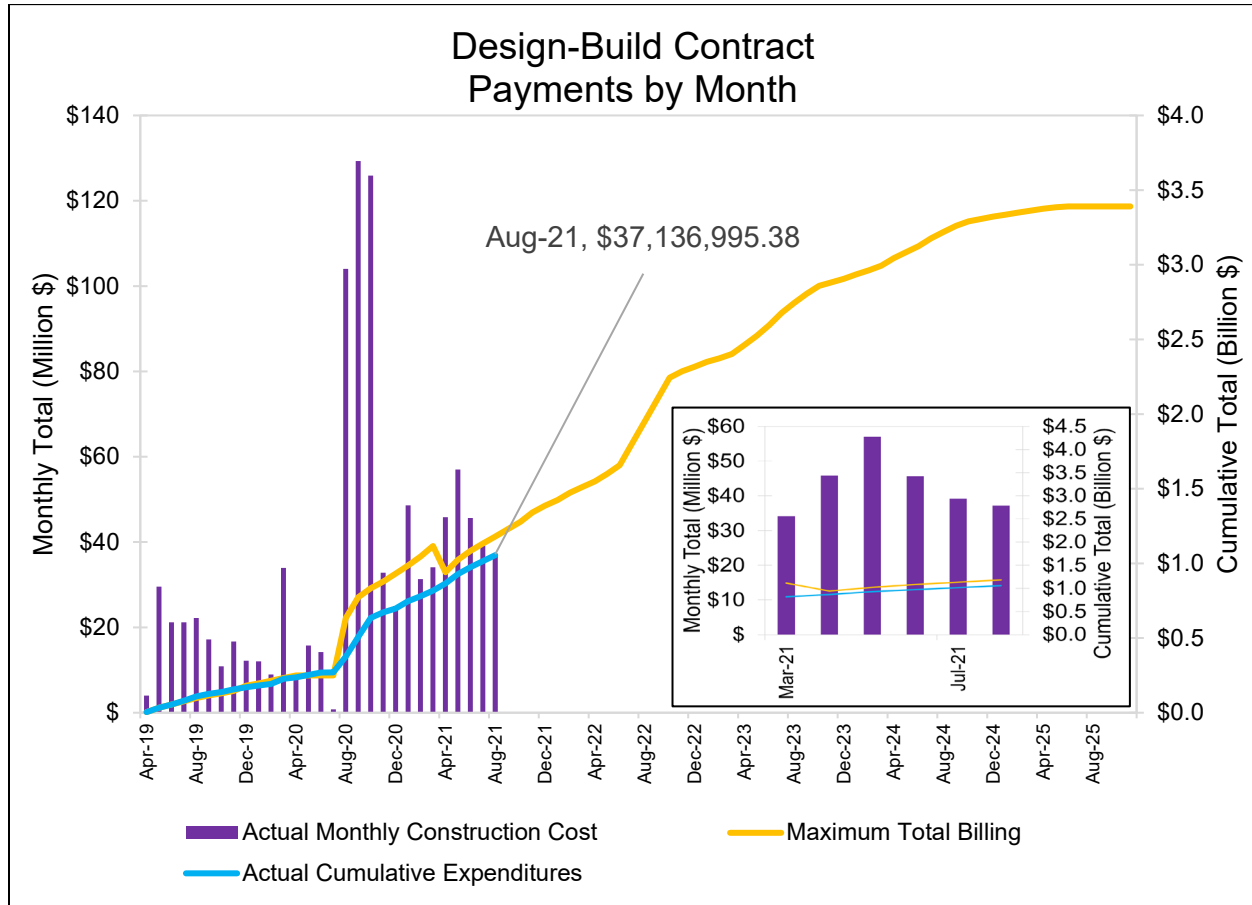
	Amount this Period:	Total to Date:	Original Total Budget:	Total Remaining Budget:	Percent To-date:
<u>Comprehensive Agreement</u>					
Construction	\$37,136,995.38	\$1,001,716,015.81	\$3,299,997,227.00	\$2,298,281,211.19	30.36%
<u>Owner Costs</u>					
Administration	\$1,973,870.81	\$33,764,021.65	\$122,000,000.00	\$88,235,978.35	27.68%
Right of Way	\$15,447.50	\$6,519,703.47	\$15,000,000.00	\$8,480,296.53	43.46%
No-Excuses Incentive	\$0.00	\$0.00	\$90,000,000.00	\$90,000,000.00	0.00%
Contingency	\$705,217.50	\$8,543,551.26	\$335,000,000.00	\$326,456,448.74	2.55%
Total	\$39,831,531.19	\$1,050,543,292.19	\$3,861,997,227.00	\$2,811,453,934.81	27.20%



**The Maximum Total Billing (Including Owner's Costs) is now showing an adjustment in May 2021 due to the executed Change Order #40 - Update Maximum Cumulative Cost Curve.*

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.



**The Maximum Total Billing (Including Owner's Costs) is now showing an adjustment in May 2021 due to the executed Change Order #40 - Update Maximum Cumulative Cost Curve.*

3.3 Budget by Funding Source

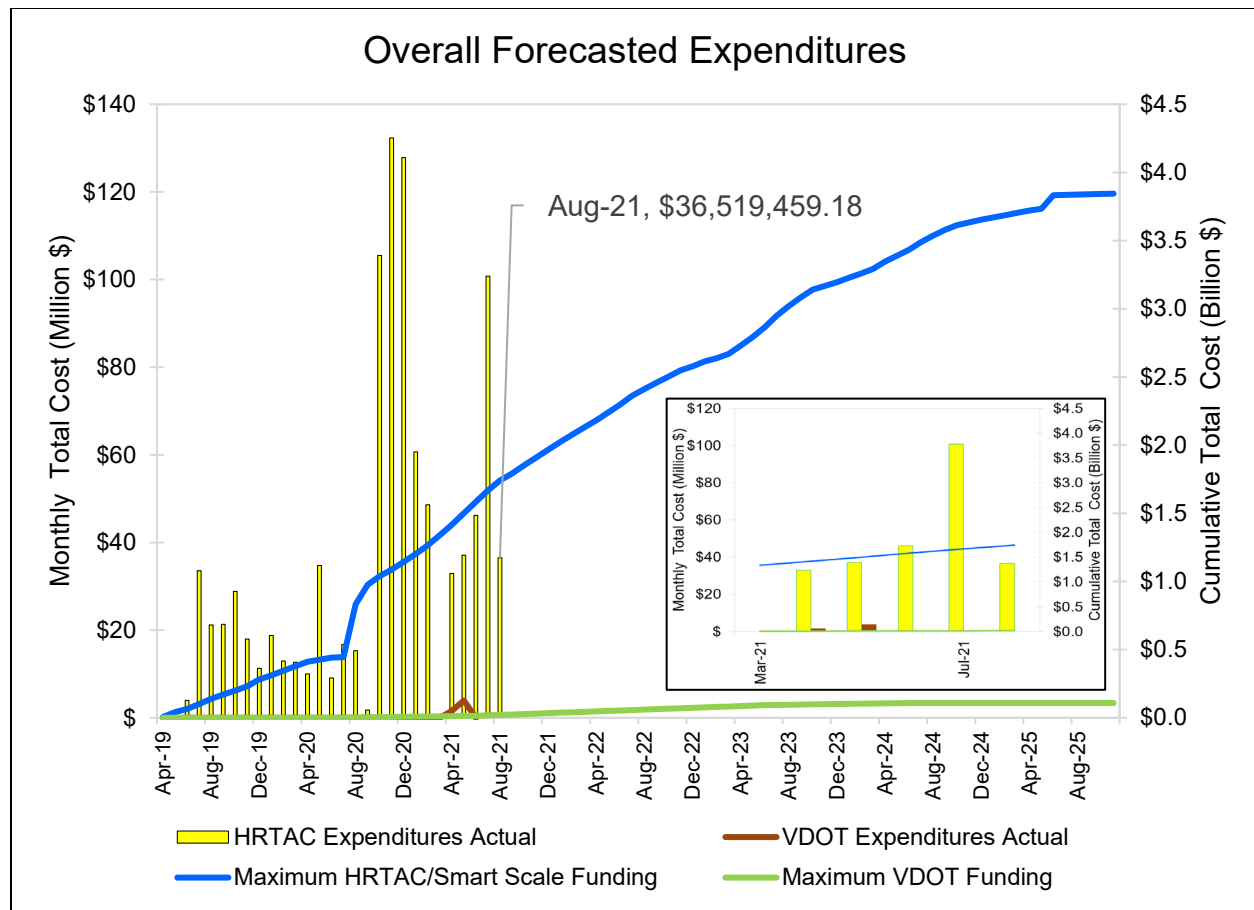
The budget for expenditures by funding source is based on the terms and conditions of Article 3 (Project Funding) and Exhibit 5 of the PAFA. This section outlines planned expenditures of both HRTAC and VDOT funds. The cost curve has been developed based on the monthly maximum cumulative compensation amount in the Comprehensive Agreement and will be updated as HRCF 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 July 25, 2021 – August 21, 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:
<u>Comprehensive Agreement</u>					
<i>Construction</i>	\$35,908,334.27	\$960,060,857.16	\$3,204,569,251.00	\$2,244,508,393.84	29.96%
<u>Owner Costs</u>					
<i>Administration</i>	\$606,010.01	\$29,831,499.81	\$118,472,054.00	\$88,640,554.19	25.18%
<i>Right of Way</i>	\$5,114.90	\$6,492,177.94	\$15,000,000.00	\$8,507,822.06	43.28%
<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%
<u>Total</u>	\$36,519,459.18	\$1,000,527,949.67	\$3,753,469,581.00	\$2,752,941,632.33	26.66%

3.3.2 VDOT

	Amount Spent this Period:	Total Spent to Date:	Original Total Budget:	Total Remaining Budget:	Percent Spent To-date:
<u>Comprehensive Agreement</u>					
<i>Construction</i>	\$2,511,145.50	\$6,503,348.76	\$95,427,976.00	\$88,924,627.24	6.81%
<u>Owner Costs</u>					
<i>Administration</i>	\$60,575.47	\$685,156.47	\$3,527,946.00	\$2,842,789.53	19.42%
<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>	\$487,015.64	\$487,015.64	\$9,571,724.00	\$9,084,708.36	5.09%
<u>Total</u>	\$3,058,736.61	\$7,675,520.87	\$108,527,646.00	\$100,852,125.13	7.07%



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-16	Navy Security Fencing Design	7/15/2021	\$ 150,000.00	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-40	Update Maximum Cumulative Cost Curve	7/15/2021	\$ -	0 days
CO-41	Wetland Mitigation Costs	4/26/2021	\$ 3,503,400.00	0 days
CO-43	Hybrid Trestle Beam Design	7/2/2021	\$ -	0 days
CO-44	SCADA Control of Deluge Valves	7/27/2021	\$ -	0 days
CO-45	HRCP Project Executive/Representative Change	5/24/2021	\$ -	0 days
CO-46	Tunnel Sprinkler Heads Material Change	7/28/2021	\$ -	0 days
CO-49	HRCP Senior Representative Change	7/2/2021	\$ -	0 days
TOTAL			\$ 17,244,947.14	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 responded to agency comments related to permit modification #5 on August 4, 2021. Virginia Marine Resources Commission (VMRC) provided e-mail authorization of the changes on August 17, 2021. HRCP is awaiting approval from the Corps and DEQ. HRCP also held a meeting with DEQ staff on August 12, 2021 to review the air permit applications for the North and South Island's temporary generators. HRCP submitted additional information to DEQ regarding detailed generator information and continues to work through permitting requirements related to this equipment.

Noise Monitoring - HRCP completed the final noise report and the Cultural Resources Technical Memorandum. FHWA completed their review of the noise report and had no additional comments. The Virginia Department of Historic Resources (DHR) provided comments on the Cultural Resources Technical Memorandum that are under review by VDOT staff. 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.

National Oceanic Atmospheric Administration (NOAA)/Proposed Rule - On July 10, 2021 the NOAA Incidental Harassment Authorization (IHA) expired and all remaining pile driving activities are being covered by the Letter of Authorization (LOA), which is valid through April 1, 2026.

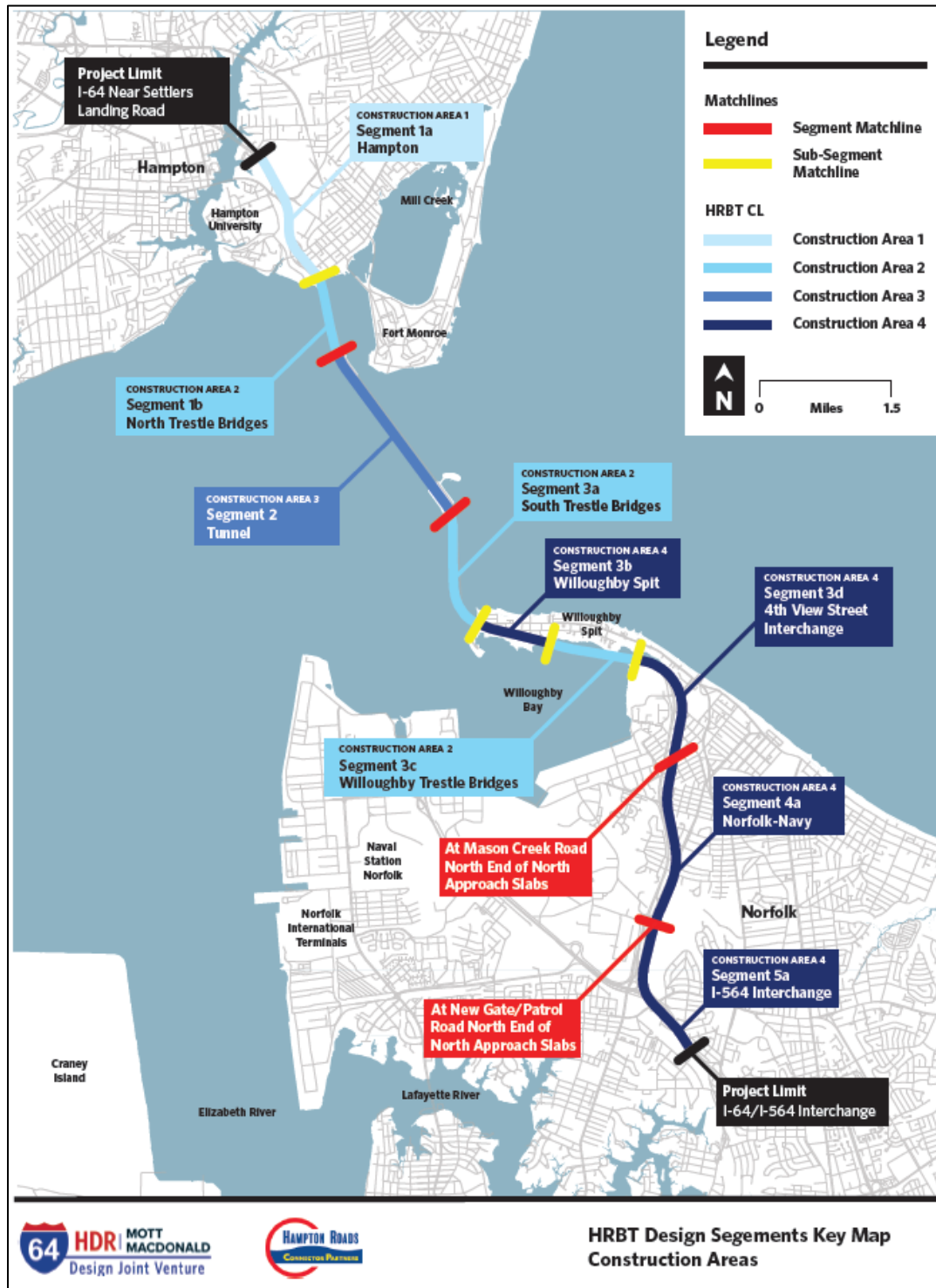
Bird Mitigation - HRCP continued the use of dogs and handlers to encourage birds to nest away from the project site.

Bat Inspections - HRCP completed their 2021 inspections of bridge structures to determine whether these structures are being utilized by bats. The 2021 inspections found no indications of bat usage and a final report is in preparation.

Archeological Discoveries - No new archaeological discoveries occurred during the reporting period. Coordination with DHR occurred on the cannonballs discovered on July 19 and 20, 2021, and they were determined to be ineligible for listing with the National Register of Historic Places (NRHP).

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:

Mallory St - Continued temporary sidewalk work, temporary signals, and ITS work at intersections. HRCP is in progress of widening Mallory Ramps.

5.2 Area 2: Marine Work

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

North 1 Temporary Construction Trestle - Mobilized an additional crane to this location.

North 2 Temporary Construction Trestle - Continued pile driving operations.

Permanent Eastbound North Trestle - Continued pile driving operations.

South 1 Temporary Construction Trestle - Production was limited due to known sunken vessel obstruction. HRCP preparing to remove the sunken vessel.

South Eastbound MOT Trestle - Continued pile driving operations. HRCP also received Top Hats (flat plates welded to the head of the piles for platform and beam support) and began preparation for installation.

Permanent South Trestle - Continued pile driving operations.

North Island Expansion Work - Continued placement of soil fill material (7 out of 8 sections complete for phase 1 – elevation +5.0'). HRCP began placing NIR stone items from elevation +5.0' to +12.0'. HRCP continued removing armor stone from the west side of the existing North Island in advance of future tunnel and portal work. Additionally, HRCP has completed 3 out of 8 sections for production vibrocompaction.



◀ **South Trestle**
Pile driving.



◀ **North Island Expansion**
Last sections of fill operation.

5.3 Area 3: Tunnels and Islands

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

South Island

Slurry Wall Construction - As of August 21, 2021, all of the slurry wall panels in the TBM Launch Pit are complete. Continued construction of the slurry wall panels for the tunnel approach section, with 20 out of 45 panels complete.

TBM Conveyor & Quay Installation - Continued work on pile caps and the conveyor system superstructure. Continued constructing the gantry structure for the offshore quay piles. Began driving the remaining piles for the TBM quay at the interface between the onshore and offshore piles.

TBM Slurry Treatment Plant - Placed concrete for the first section of the foundation slab.

Ground Improvement Operations - Continued production deep soil mixing and production jet grouting for the break in/break out block.

Dewatering Wells - Completed installing dewatering wells within the TBM Launch Pit.

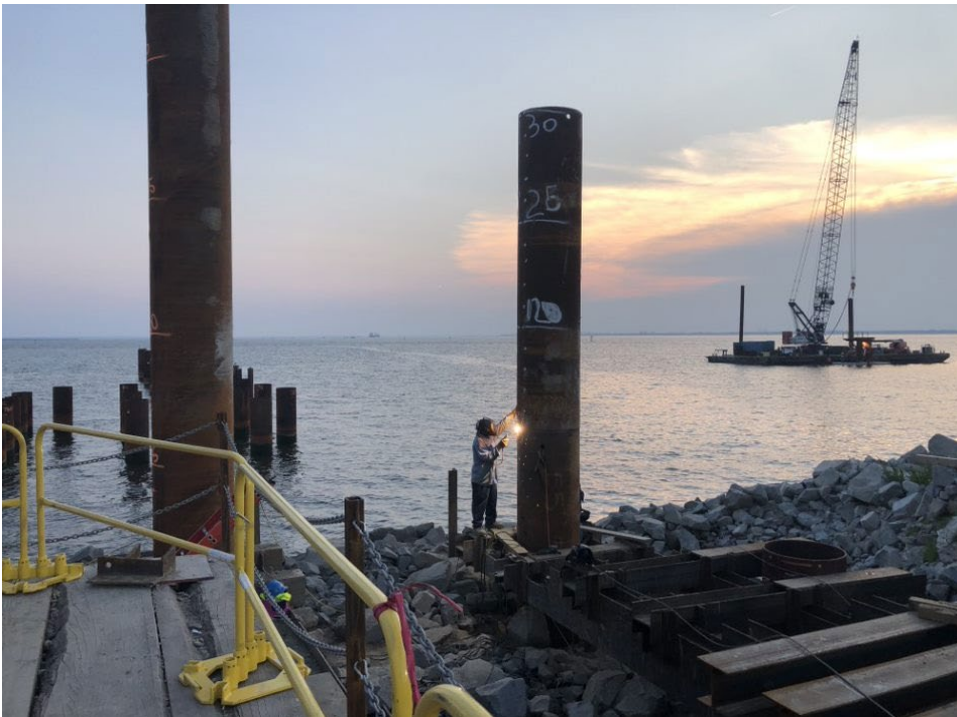
Capping Beams - Continued demolition of slurry wall panel tops and rebar installation for capping beams at the TBM Launch Pit. Placed first sections of capping beams.

Tower Crane Installation - Completed work on the tower crane foundation.



◀ **South Island**

Placement of concrete for capping beam.



◀ **South Island**

TBM Quay pile splicing activity.

5.4 Area 4: Norfolk Landside

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

Bay Avenue - Began installing scupper drains in the existing bridge deck.

Bayview Blvd Bridge - Began excavation and template installation for Eastbound widening pile driving at Pier 1.

Bayville Rd - Completed initial clearing adjacent to I-64 Eastbound along Bayville Rd between the Eastbound exit ramp and the Bayville overpass.

Evans St Bridge - Completed pile driving operations for Piers 1 and 2 Eastbound widening. Began construction of footings for Piers 1 and 2.

4th View - Continued initial clearing and erosion and sediment control measures for the area around 4th View.

Oastes Creek Trestle - Continued pile driving for Eastbound widening. Began casting operations for precast concrete pile caps at the off-site yard. Completed scuppers for the existing Eastbound bridge deck.

Willoughby Bay Temporary Work Trestle - Completed Eastbound Temporary Work Trestle.

Willoughby Bay Trestle - Continued pile driving for Eastbound widening.



◀ **Bay Avenue**
Installation of scupper drains



◀ **Oastes Creek**
Pile Driving

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 Work & Maintenance - Conducted maintenance of survey equipment used for tunnel baseline I&M, installation of I&M equipment, shoulder strengthening/leveling, median drainage work, corridor surveying, and routine maintenance activities.

Long-Term Lane Closures - Continued on Bay Avenue in Norfolk to facilitate access to a staging area for the widening of the Oastes Creek Bridge. A center turn lane closure also continued at the Mallory St Bridge. Implemented a long-term lane closure on Bayview Blvd to facilitate bridge widening.

Hampton Lane Shifts - No new activities.

Norfolk Lane Shifts - Implemented additional lane shifts for Segment 5. Installed barrier wall in Segment 3.

Mallory St Bridge - Continued initial works to support the Mallory St Bridge replacement, including upgrades for temporary pedestrian detours, ramp shoulder strengthening, resetting of guardrail, and interstate lane closures. Completed parapet demolition and pedestrian fence installation.

Detours - Continued long-term detour at West Evans St. to facilitate bridge widening. Also continued temporary detours on the West Bay Ave on-ramp for bridge widening work.

Meetings - Held the Quarterly Concept of Operations (ConOps) meeting, where traffic cameras, radio communications, and server networking items were discussed. Also implemented a weekly ITS meeting with HRCP to discuss any issues and upcoming activities.

Maintenance Management - HRCP performed routine incident management and maintenance operations within the corridor. VDOT continues to monitor HRCP's performance with respect to the approved maintenance management plan.

7. Quality

Quality updates for this reporting period include:

Construction Quality Management Plan (CQMP) Updates - VDOT reviews these updates as part of final “Released for Construction” (RFC) design packages and “Notice of Design Change” (NDC) packages. There were 7 updates reviewed this period. These updates included 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.

Independent Assurance (IA) Testing Activities - VDOT continues to monitor HRCP’s QA and QC material testing. VDOT has also performed Independent Testing and Verification Testing on materials per the frequency of testing requirements and coordinates with VDOT Materials Department for shop inspections as required. This testing includes oversight of the HRCP Precast Yard.

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

Quarterly Updates of Quality Plans - HRCP submitted the quarterly updates of the Quality Management System Plan, Construction Management Quality Plan, and the Design Quality Management Plan for the second quarter of 2021. VDOT completed the reviews of these documents and returned them to HRCP.

Tunnel Quality Plan - HRCP continues to update to their Tunnel Quality Plan and address VDOT’s comments. The focus of the plan is the quality procedures needed to begin precast production of the tunnel lining segments. This production is scheduled to begin in September 2021.

Material Book Records - VDOT has completed and closed audits of two volumes of material book records. HRCP continues to submit records for subsequent volumes of material books according to the established audit schedule. VDOT has audited those books and HRCP is responding to the audit comments. 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

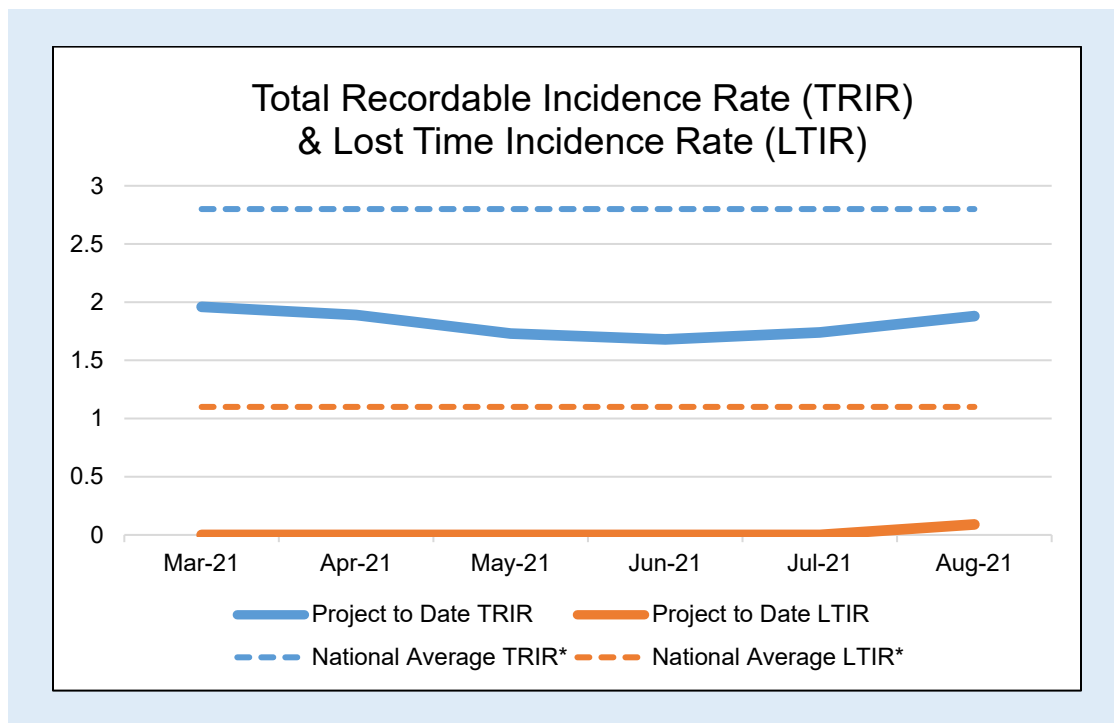
Safety procedures and activities during this reporting period include:

COVID-19 Policies - Pursuant to guidelines and recommendations received from the Commonwealth of Virginia, the mask mandate has been lifted for vaccinated personnel. With the Delta Variant case increase around the United States, VDOT and HRCP continue to monitor COVID-19 recommendations for project personnel.

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

Additional Safety Measures - VDOT and HRCP continue to monitor Tropical storms for weather threats to the project. HRCP also implemented daily safety training modules for employees to increase safety awareness.

Safety Performance Indicators - The following safety performance indicator information is provided by HRCP and is current as of August 31, 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

To date, HRCP has awarded **252** subcontracts, subconsultant agreements and purchase orders. No additional agreements were awarded during this period for certified DBE/SWaM certified firms. There was a slight increase in contract awards for a total of **\$345 million** to active DBE/SWaM firms on the project.

Compliance Activities

- VDOT-HRBT Civil Rights Compliance Team met on August 17, 2021 to discuss civil rights compliance matters on the project. Discussions included the introduction of a Virtual Subcontractor On-boarding Program with an overview of safety protocols, invoice submissions, and key project contacts. HRCP also discussed DBE/SWaM Compliance Training held on August 1 and EEO Compliance Training for staff held on August 20.
- As a federal reporting requirement, HRCP reported to VDOT its annual employment data due every July. This included each active subcontractor, representing the total project workforce of journey-level personnel, apprentices, and on-the-job trainees by job categories and gender. HRCP's contract goals are 6.9% for female trade participation and 27% for minority trade participation. The Contractor has achieved female participation of 11% and 46% for minority participation on the project to date, which exceeds established contract goals.

Workforce Development Activities:

- HRCP continued to make progress towards its 80-employee On-the-Job Training (OJT) contract goal. To date, two (2) enrollees graduated (with another pending VDOT's final review), eight (8) enrollees are active, and six (6) enrollees are pending interviews by VDOT.
- HRCP launched a new jobs website (www.HRCPJobs.com) last month, which included the release of a series of announcements that aired on WAVY TV 10, FOX 43, The Hampton Roads Show, print ads in *Your Coffee News* and the *New Journal & Guide* from July through early August.
- During this period, the HRBT team participated in the following employment outreach events:
 - August 10, 2021 - Virginia Employment Commission, Super Tuesday Virtual Hiring Event
 - August 14, 2021 - Beacon Light Civic League, Job & Health Fair
 - August 18, 2021 - City of Hampton, Get Hired Event

Business Opportunity Activities:

- Business development events attended during the reporting period included:
 - August 2 & 3, 2021 - Carolinas-Virginia Minority Supplier Development Council, Building a Growth Mindset
 - August 4, 2021 - City of Virginia Beach, Industry Day
 - August 5, 2021 - USDOT & SBA Community Resource Expo
- HRCP & VDOT continue to make plans for the Annual HRBT DBE/SWaM Opportunity Conference scheduled for October 27, 2021.

10. Public Outreach & Media

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

Public Outreach

- July 29, 2021 - HRBT Expansion Project Communications Team community outreach event at the “Music by the Bay” Summer Concert at Continental Park at Fort Monroe in Hampton



- August 5, 2021 – HRBT Expansion Project Team provided a project progress update to Hampton University
- August 13, 2021 - Bi-weekly HRBT Project Communications Team Meeting with the Cities of Hampton and Norfolk
- August 14, 2021 - HRBT Expansion Project Communications Team community outreach event at the Buckroe Beach Farmers Market in Hampton



Media

- July 25, 2021 - 13 News Now: [ODU's Pym brings teamwork from the basketball court to engineering](#)
- August 13, 2021 - WAVY 10: [You've seen the ongoing HRBT expansion project construction, but what about the people behind it?](#)

Visit our website to view more information:
www.hrbtexpansion.org