



June 2019 Project Report

## I-64 HAMPTON ROADS BRIDGE-TUNNEL EXPANSION

Proj. No. 0064-M06-032  
Report #3



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Issue date: July 25, 2019

# 1. Executive Summary

## 1.1 Reporting Period

This report, prepared by the Virginia Department of Transportation (the Department), provides an overview of accomplishments and activities for the Hampton Roads Bridge-Tunnel Expansion project (the Project) from May 19, 2019 – June 22, 2019. The Design-Builder for the Project is Hampton Roads Connector Partners (HRCP), a consortium that includes Dragados, Vinci, Flatiron, and Dodin Campenon Bernard.

The current reporting period has been aligned with HRCP's fiscal-month structure, on which the Project's design-build schedule updates and invoiced construction progress are based. In the future, these reporting periods will close on the Saturday on or preceding the 24th of each month.

## 1.2 Project Accomplishments

- HRCP received VDOT approval on the Design Quality Management Plan (DQMP) and the landside Geotechnical Exploration Plans.
- HRCP advanced its work on the Nationwide Permit (NWP6), Materials Management, and Virginia Pollutant Discharge Elimination System (VPDES) documentation. HRCP completed and submitted the NWP6 application to the agencies; submitted the draft Sampling and Analysis Plan (SAP) to agencies and held a webinar; and evaluated treatment processes and chemical constituents for potential additives.

## 1.3 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

## 1.4 Schedule

- The second Limited Notice to Proceed (LNTP2), following submittal of the project's Corps of Engineers, Virginia Department of Environmental Equality (DEQ) and Virginia Marine Resources Commission (VMRC) Permits Applications, is currently scheduled for September 29, 2019.
- Full Notice to Proceed (NTP), following receipt of the Project's Corps of Engineers, Virginia DEQ and VMRC permits, is scheduled for October 10, 2020.
- Final completion remains as scheduled for November 1, 2025.

- 3.3% of the contract time has progressed to date.

## 1.5 Budget and Cost

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- Project budget overview:

Total project budget:	\$3,861,997,227
Total charges for efforts to date:	\$54,756,989
Remaining project budget:	\$3,807,240,238

- Design-build contract overview (through June 2019 payment application):

Total contract amount:	\$3,299,997,227
Total charges for efforts to date:	\$54,756,989
Total work orders:	\$0

- Design-build progress to date (through June 2019 payment application):

Overall:	1.66%
Mobilization:	10.8%
General Requirements (incl. Project Management):	1.43%
Design:	6.45%
Physical Progress:	0%

## 1.6 Environmental Management

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During this reporting period HRCP made the following strides towards obtaining environmental clearances covering the supplemental geotechnical work and roadway, bridge, and tunnel construction:

- HRCP provided a preliminary Sampling and Analysis Plan (SAP) to the regulatory agencies and conducted an agency webinar on May 22, 2019.
- HRCP submitted an application for the Project's Corps of Engineers, Virginia DEQ and VMRC permits on May 28, 2019 for the supplemental geotechnical exploration program.
- HRCP held a monthly regulatory agency meeting on May 29, 2019 to present preliminary information on the project.
- On June 18, 2019, HRCP made a presentation to VDOT that focused on the marine construction portion of the project, depicting construction phases, temporary work platforms, and maintenance of traffic structures they currently anticipate for the project.

## 1.7 Quality

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- HRCP received VDOT approval of the DQMP.
- Quality audits were completed on 18 packages as of June 22, 2019.

## 1.8 Operations

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- Shoulder closures were implemented for setting aerial targets for survey and establishing boring locations for geotechnical exploration.
- HRCP will be implementing lane closures within the project corridor to support field activities including survey and geotechnical exploration.

## 1.9 Safety

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- VDOT, VDOT consultants, contractors, and DB Team members joined together for a safety briefing to review safety procedures before aerial survey work commenced in the project corridor.
- Daily safety meetings are held on site with all staff working on site present.
- All personnel are urged to use caution entering/exiting the islands in live traffic.

## 1.10 DBE & SWAM Business Activities

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- VDOT's Civil Rights personnel met with HRCP to discuss compliance requirements.
- Civil Rights and HRCP hosted its first Civil Rights Workshop Meeting on May 20, 2019.
- A DBE/SWaM outreach event is planned in Hampton in September 2019.

## 1.11 Public Outreach

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- Members of VDOT's HRBT Expansion Team have participated in more than 50 outreach events to date.
- Of specific note in this period, the following presentations were made:
  - May 22 – Project Update to members of Hampton City County
  - May 29 – Hampton University
  - May 30 – Informational Meeting with City of Norfolk

## 2. Project Accomplishments

### 2.1 Overview and Look Ahead

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#### Milestones

HRCP continues to meet with permitting agencies to coordinate efforts and stay on target for the next LNTP milestone.

#### Project Management Plans

HRCP is currently developing Project Management Plans to support a timely, quality project delivery. The draft Design Quality Management Plan was approved this period. The Instrumentation and Monitoring Plan was submitted on June 14, 2019.

#### Geotechnical Investigation

HRCP received approval on the landside Geotechnical Exploration Plans. The layout of geotechnical boring sites for Norfolk Landside was completed this period. Drilling operations and laboratory testing for soil classification is ongoing.

#### Environmental Permitting

Environmental permit coordination continues as discussions with the agencies are occurring weekly and monthly. The next scheduled monthly status meeting is June 28, 2019. A pre-application meeting with relevant permit agencies has been targeted for July 10, 2019 where HRCP will present the overall project and the full range of temporary and permanent environmental impacts estimated for the project. The pre-application meeting will include at a minimum the USACE, VDOT, VDEQ, VMRC, and Virginia Institute of Marine Science (VIMS).

#### Third Party Coordination

Post-award coordination with the U.S. Navy and the Federal Highway Administration (FHWA) started in April and is ongoing. Recognizing the importance of timely, appropriate coordination, HRCP is working to hire a “Navy Coordinator” in continuing to work through access and coordination matters. FHWA participates in weekly coordination meetings with VDOT and HRCP.

## 3. Project Schedule

### 3.1 Schedule Status

#### Baseline Schedule

The current schedule reflects the longest path for the project through the South Island portal for the new tunnel. This schedule details work within the initial 180 days of the project, identifies milestones, and identifies the longest path to substantial and final completion. HRCP will submit the Project Baseline Schedule to VDOT on July 11, 2019.

#### Permitting Schedule

The Project's Corps of Engineers, Virginia DEQ and VMRC permits include multiple administrative documents, including the Coastal Zone Management (CZM) consistency determination, the USACE Section 404/10 permit, USACE Section 408 permit, the VDEQ water protection permit, and the VMRC subaqueous land permit.

HRCP plans to submit a comprehensive permitting schedule in the next reporting period to detail the preparation, submission, and permitting processes for the above-referenced actions. A pre-application consultation with all the concerned agencies is scheduled for July 10, 2019, while the full Project's Corps of Engineers, Virginia DEQ and VMRC permits package (including the Section 408 request) is to be submitted in early September 2019.

HRCP's goal is to obtain the Project's Corps of Engineers, Virginia DEQ and VMRC permits in Spring 2020. During this process, the project is scheduled to be ready for USACE Public Notice in September 2019.

## Key Dates

The following table depicts key milestone dates outlined in the contract requirements. Currently, these dates are based on HRCP's Preliminary Baseline Schedule. This table will be updated to reflect these dates and used as a benchmark to track milestone achievements.

Key Dates	Contract Requirement	HRCP Preliminary Baseline Schedule	HRCP Baseline Schedule	Actual
<b>LNTP1</b>		April 12, 2019		April 12, 2019
<b>LNTP2</b>		September 29, 2019		
<b>LNTP3</b>		October 9, 2019		
<b>NTP</b>		October 10, 2020		
<b>Substantial Completion</b>	September 1, 2025	June 27, 2025		
<b>Final Completion</b>	November 1, 2025	November 1, 2025		

### 3.2 Longest Path

The longest-path activities for the Project schedule include:

- Construction General Permit
- Construction of the South Island launching pit for the Tunnel Boring Machine (TBM)
- Assembly of the TBM in the launching pit
- TBM mining of the new tunnel
- Finishes in the tunnels
- Commissioning and integration tests for the tunnel

### 3.3 Impact Analysis

Several elements of work are near-critical and could affect Project progress if they are not addressed diligently. The Department and HRCP are closely monitoring these activities.

The following work elements have been identified as near critical with less than one month of float:

- Project's Corps of Engineers, Virginia DEQ and VMRC permits preparation process

- Design of South Portal
- TBM design, procurement, fabrication, and delivery
- Bored tunnel design
- Manufacturing of tunnel segments
- Tunnel mechanical, electrical, and plumbing design and installation

Submitting the Project's Corps of Engineers, Virginia DEQ and VMRC permits will allow LNTP2 and LNTP3 to be issued. LNTP2 enables procurement of the TBM, while LNTP3 allows commencement of construction work for the launching pit and ground improvement on South Island. Receipt of the Project's Corps of Engineers, Virginia DEQ and VMRC permits will allow full NTP for the Project.

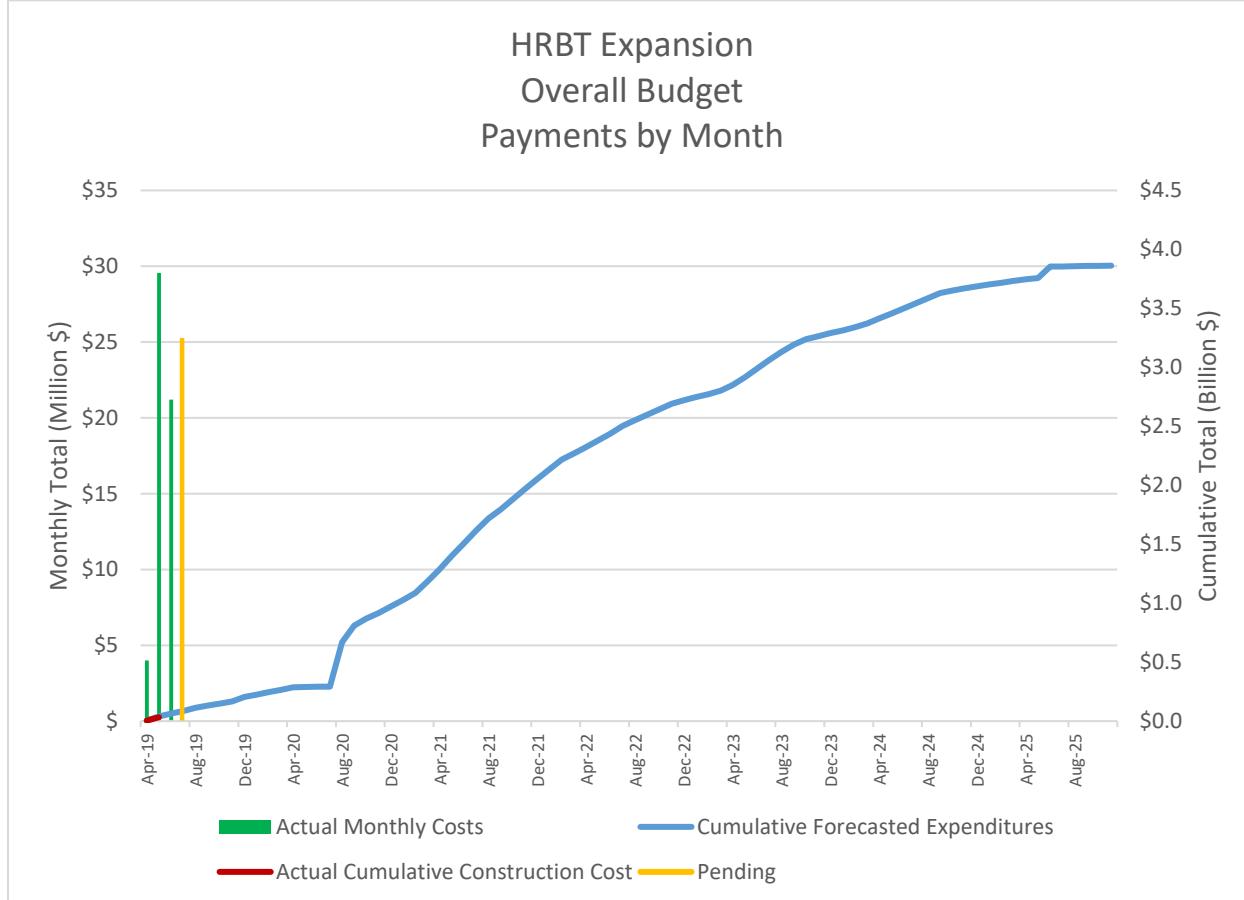


## 4. Budget and Cost

### 4.1 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 CA (monthly maximum cumulative compensation amount).

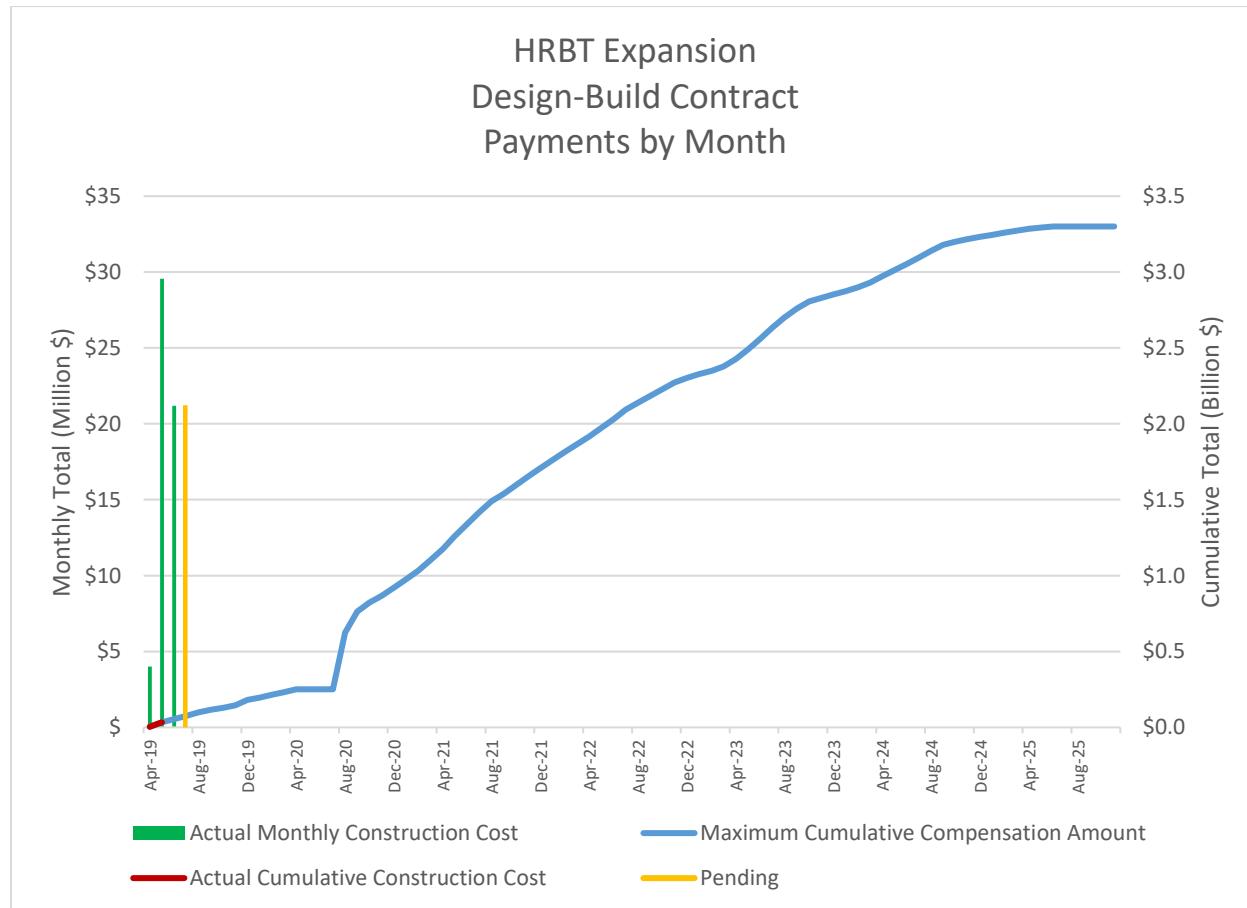
	Amount this period:	Total to Date:	Total Budget:	Total Remaining Budget:	Percent Spent To-date:
<b><u>Comprehensive Agreement</u></b>					
Construction	\$21,192,587	\$54,756,989	\$3,299,997,227	\$3,245,240,238	1.66%
<b><u>Owner Costs</u></b>					
Administration	\$0	\$0	\$122,000,000	\$122,000,000	0.00%
Right of Way	\$0	\$0	\$15,000,000	\$15,000,000	0.00%
No-Excuses Incentive	\$0	\$0	\$90,000,000	\$90,000,000	0.00%
Contingency	\$0	\$0	\$335,000,000	\$335,000,000	0.00%
<b>Total</b>	<b>\$21,192,587</b>	<b>\$54,756,989</b>	<b>\$3,861,997,227</b>	<b>\$3,807,240,238</b>	<b>1.42%</b>



## 4.2 Design-Build Cost Status

The construction budget and planned cost have been established based on the maximum cumulative compensation amount. For this period, the following tasks are associated with the invoiced expenditures (actual construction cost):

- Mobilization at LNTP1
- Bonds and insurance
- Project management
- Design surveys
- Environmental permitting
- Geotechnical investigation
- Design work for permitting



## 4.3 Budget by Funding Source

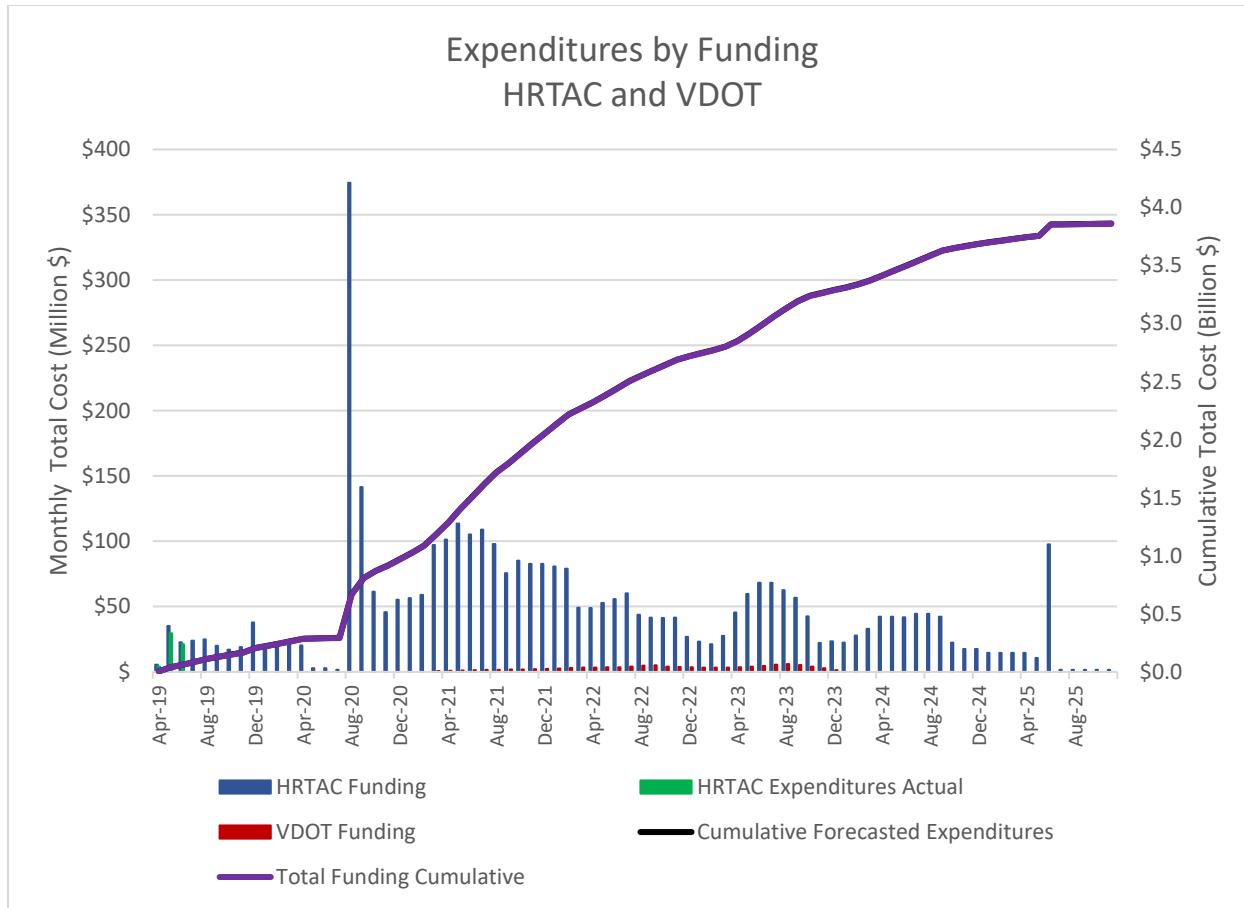
The budget for expenditures by funding source is based on the terms and conditions of Article 3 (Project Funding) and Exhibit 5 of the PAFA. This section outlines planned expenditures by both HRTAC and VDOT. The cost curve has been developed based on the monthly maximum cumulative compensation amount in the CA and will be updated as HRCP refines its design, construction means-and-methods, activity sequences, and project resourcing.

### 4.3.1 HRTAC and Smart Scale

	Amount this period:	Total to Date:	Total Budget Including Smart Scale:	Total Remaining Budget:	Percent Spent To-date:
<b><u>Comprehensive Agreement</u></b>					
<b>Construction</b>	\$21,192,587	\$54,756,989	\$3,204,569,251	\$3,149,812,262	1.71%
<b>Owner Costs</b>					
<b>Administration</b>	\$0	\$0	\$118,472,054	\$118,472,054	0.00%
<b>Right of Way</b>	\$0	\$0	\$15,000,000	\$15,000,000	0.00%
<b>No-Excuses Incentive</b>	\$0	\$0	\$90,000,000	\$90,000,000	0.00%
<b>Contingency</b>	\$0	\$0	\$325,428,276	\$325,428,276	0.00%
<b>Total</b>	<b>\$21,192,587</b>	<b>\$54,756,989</b>	<b>\$3,753,469,581</b>	<b>\$3,698,712,592</b>	<b>1.46%</b>

### 4.3.2 VDOT

	Amount this period:	Total to Date:	Total Budget:	Total Remaining Budget:	Percent Spent To-date:
<b><u>Comprehensive Agreement</u></b>					
<b>Construction</b>	\$0	\$0	\$95,427,976	\$95,427,976	0.00%
<b>Owner Costs</b>					
<b>Administration</b>	\$0	\$0	\$3,527,946	\$3,527,946	0.00%
<b>Right of Way</b>	\$0	\$0	\$0	\$0	0.00%
<b>No-Excuses Incentive</b>	\$0	\$0	\$0	\$0	0.00%
<b>Contingency</b>	\$0	\$0	\$9,571,724	\$9,571,724	0.00%
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$108,527,646</b>	<b>\$108,527,646</b>	<b>0.00%</b>



#### 4.4 Contingency

- 0 work orders to date
- \$0 material price adjustments (asphalt, steel, & fuel) to date

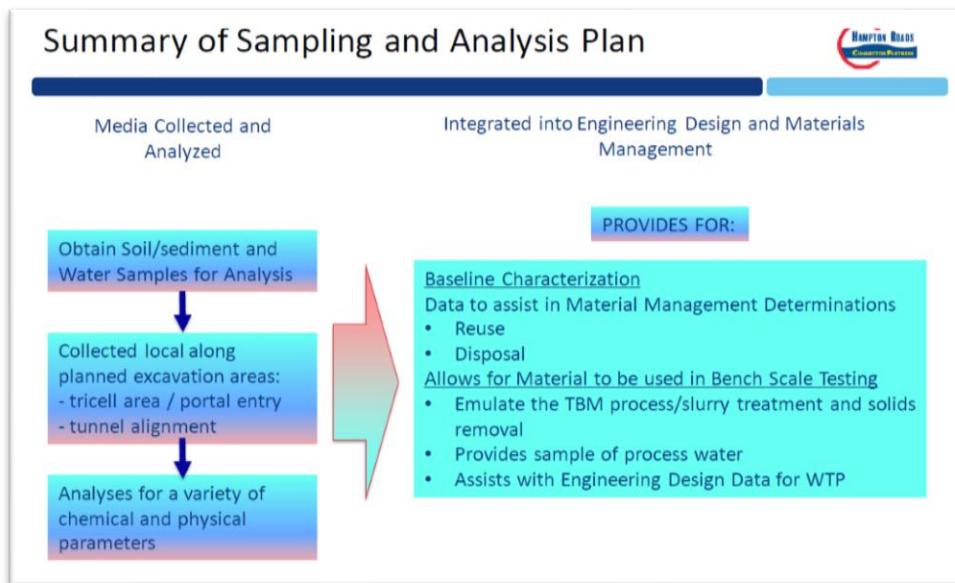
## 5. Environmental Management

HRCP submitted an application for the Project's Corps of Engineers, Virginia DEQ and VMRC permits on May 28, 2019 for the supplemental geotechnical exploration program. The Corps of Engineers will conduct reviews of this application with the intent to provide Section 408 approval and authorization of the exploratory work under Nationwide Permit 6 (Survey Activities). The only other authorization required for this geotechnical work comes through the VMRC. VMRC will issue a public notice and request comments from State agencies prior to issuance of a Subaqueous Bottoms permit pursuant to Chapter 12, Title 28.2 of the Code of Virginia.

Other accomplishments included holding a monthly regulatory agency meeting to present preliminary information on the project. The goal of these monthly meetings is to identify key regulatory issues raised by the regulatory agencies, which can then become a focal point for HRCP during the upcoming months as they prepare the Project's primary Corps of Engineers, Virginia DEQ and VMRC permits covering the roadway, bridge, and tunnel construction elements. HRCP continues to develop their methodology for assessing existing habitat conditions, especially those around the North and South Islands since the majority of the project impacts will be located in these two areas.

HRCP provided a preliminary Sampling and Analysis Plan (SAP) to the regulatory agencies and conducted an agency webinar on May 22, 2019. HRCP was seeking input from the agencies on the testing and analysis program being developed to support the design of the onsite treatment plant that will handle the effluent generated during the boring/construction process.

The HRCP team also made a presentation to the VDOT team on June 18, 2019 that focused on the marine construction portion of the project, depicting construction phases, temporary work platforms, and maintenance of traffic structures they currently anticipate for the project.



## 6. Operations

Field activities began this period to support scope validations efforts. Shoulder closures were implemented for setting aerial targets for survey and establishing boring locations for geotechnical exploration. A weekly coordination meeting was established between VDOT and HRCP to provide a lookahead of upcoming field activities and ensure concurrent activities are properly coordinated. All field work and traffic impacts are being reported through VDOT's Lane Closure Advisory Management System (LCAMS), which provides a method to collaborate traffic operations across the region.



## 7. DBE & SWaM Business Activities

During this reporting period, VDOT's Civil Rights Division met with project personnel to discuss compliance requirements pertaining to programs for DBE/SWaM, Equal Opportunity Contractor, labor and On-the-Job Training (OJT). The project has an assigned 12% DBE and 20% SWaM goals, along with an OJT goal of 80 trainees.

VDOT and HRCP hosted their first Civil Rights Workgroup Meeting on May 20, 2019, as an update on firms being utilized for participation credit on the project and submitted required documents for review.

VDOT and HRCP continue to meet with small businesses interested in working on the project. Among other outreach initiatives, HRCP attended VDOT's Transportation DBE Advisory Committee (TDAC) Quarterly Meeting held on June 11 at the Business Opportunity Workforce Development Center (BOWD). TDAC is comprised of DBE firms, representatives of VDOT, FHWA, Virginia Transportation Construction Alliance, Virginia Small Business and Supplier Diversity, and the prime contracting/consulting community. HRCP's DBE Coordinator, Malcolm Kates, was introduced and provided the group with an overview of the project.

Discussions also continued with HRCP in hosting another outreach event on September 11, 2019 for the industry to learn more about contracting opportunities on the project for small and disadvantaged businesses.

## 8. Public Outreach

Public Outreach continued in May and June with a project update to members of Hampton City Council on May 22.

On May 29, Project Director Jim Utterback and Communications Manager Paula Miller met with Hampton University's Associate Vice President Bill Thomas. Thomas shared ideas for ways HU might partner with the project team to engage students and faculty in the expansion, including providing names of faculty members who may be interested in assisting from an educational perspective.

On May 30, Utterback met with Norfolk City Manager Doug Smith, Assistant City Manager Wynter Benda, HRTAC Executive Director Kevin Page, HRTPO Executive Director Robert Crum, HRTPO Deputy Executive Director Mike Kimbrel and Norfolk's Assistant Director of Transportation Amy Inman to discuss project concerns along the Norfolk corridor.

A similar informational meeting with Hampton's City Manager and Deputy City Manager was held in early June and was also attended by Jim Utterback, Kevin Page, Robert Crum, Mike Kimbrel and Paula Miller.

Project Director Jim Utterback was the keynote speaker at the annual banquet for the Virginia Section of the Institute of Transportation Engineers, held in Virginia Beach. Utterback was also a panelist at the June International Bridge, Tunnel and Turnpike Association's Maintenance and Roadway Workshop in Norfolk where he presented about the project.



## 9. Project Media

HRCP and VDOT Civil Rights and Communications Teams are actively planning for the September 11, 2019 DBE/SWaM outreach event to be held at the Hampton Roads Convention Center. Secretary of Transportation Shannon Valentine and VDOT Commissioner Steve Brich have confirmed their attendance along with officials from the project and partnership teams.



VDOT, VDOT consultants, contractors, and DB Team members joined together to review safety procedures before aerial survey work commenced in the project corridor.

