Commonwealth of Virginia

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

www.deq.virginia.gov

Stefanie K. Taillon
Secretary of Natural and Historic Resources

Michael S. Rolband, PE, PWD, PWS Emeritus
Director

23 December 2025

Transcontinental Gas Pipe Line Company, LLC
Attn: Joseph Dean
2800 Post Oak Boulevard
Suite 600
Houston, TX 77056

SENT VIA EMAIL: joseph.dean@williams.com

Re: Joint Permit Application No. 25-1277
Southeast Supply Enhancement Project
Pittsylvania County, Virginia
Final VWP Individual Permit

Dear Mr. Dean:

Pursuant to the VWP Permit Program Regulation 9VAC25-210 of the Virginia Administrative Code and § 401 of the Clean Water Act (33 U.S.C. § 1341), the Virginia Department of Environmental Quality (DEQ or department) has enclosed the VWP individual permit for the above-referenced project.

This permit is valid for ten (10) years from the date of issuance. A permit extension may be necessary if any portion of the authorized activities or any permit requirement (including compensatory mitigation provisions) is not complete at the end of the permit term. The permit term, including any extensions, cannot exceed fifteen (15) years. An extension of the permit may be requested through written notification to the DEQ.

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have **thirty (30) calendar days** from the date of service (the date you actually received this decision or the date it was e-mailed to you, whichever occurred first) within which to file with the Director, Department of Environmental Quality, a notice of appeal in accordance with the Rules of the Supreme Court of Virginia. In the event that this decision is served on you by mail, three (3) days are added to that period. Refer to Part 2A of the Rules of the Supreme Court of Virginia for additional requirements governing appeals from administrative agencies.

Alternatively, an owner may request a formal hearing for the formal taking of evidence upon relevant fact issues under Section 2.2-4020 of the Administrative Process Act. A petition for a formal hearing must meet the requirements set forth in Procedural Rule No. 1 - Public and Formal Hearing Procedures (9VAC25-230 *et seq.*). In cases involving actions of the department, such petition must be filed within **thirty (30) calendar days** after notice of such decision is sent to such owner by certified mail.

Please contact Michael J. Mussomeli at (804) 659-1986 or at michael.mussomeli@deq.virginia.gov if you have any questions.

Respectfully,

Trisha Beasley

Trisha Beasley
Director of Operations
Virginia Department of Environmental Quality
P.O. Box 1105
Richmond, VA 23218

Enclosures: Permit Cover Page, Part I - Special Conditions, Part II - General Conditions, Attachment 1- *VWP Permit Construction Status Update Form*, Attachment 2-*Monthly VWP Permit Inspection Checklist*, Appendix A- Impact Maps (separate electronic transmittal), Appendix B- Virginia Time of Year Restrictions, Appendix C- Limit of Disturbance Greater than 75 Feet in Resource

cc (via email): Joshua Henry, Williams, Inc.
Christie Blevins, Wetlands Studies and Solutions, Inc.
Steven VanderPloeg, USACE
Melanie Davenport, DEQ
jpa.permits@mrc.virginia.gov

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VWP Individual Permit Number 25-1277
Effective Date: 12-23-2025
Expiration Date: 12-22-2035

VIRGINIA WATER PROTECTION PERMIT ISSUED PURSUANT TO THE STATE WATER CONTROL LAW AND SECTION 401 OF THE CLEAN WATER ACT

In compliance with § 401 of the Clean Water Act, as amended (33 USC § 1341) and the State Water Control Law and regulations adopted pursuant thereto, the Virginia Department of Environmental Quality (DEQ) has determined that this VWP permit will comply with water quality requirements, will protect instream beneficial uses, will not violate applicable water quality standards, and will not cause or contribute to a significant impairment of state waters or fish and wildlife resources. In issuing this VWP permit, the department has not taken into consideration the structural stability of any proposed activities.

Permittee: Joseph Dean – Transcontinental Gas Pipe Line Company, LLC

Address: 2800 Post Oak Boulevard
Houston, TX 77056

Project Name: Southeast Supply Enhancement Project

Project Location: Pittsylvania County, Virginia (36.541640° N, -79.633178° W to Transco Village)

Project Description: The project will construct a forty-two (42)-inch diameter natural gas pipeline approximately 26.8 miles in length from the Virginia/North Carolina state line (36.541640°, -79.633178°) to Transco Village in Pittsylvania County, Virginia. The project is a component of the upgrade of existing and proposed gas pipeline facilities between Virginia and North Carolina. The use of existing, improved, and new access roads, and contractor yards will also be required for the Project. Additional ancillary facilities and piping, such as mainline valves (MLVs), cathodic protection, communication facilities, and internal inspection devices (e.g. pig launchers and receivers) will be necessary to support the Project. The project includes a permittee-responsible mitigation site, also located in Pittsylvania County.

Authorized Surface Water Impacts:

1. This permit authorizes total surface water impacts as follows:
   - Conversion impacts of 0.64-acres of palustrine forested (PFO) wetlands to palustrine emergent (PEM) wetlands, 0.48-acre of PFO wetlands to palustrine scrub-shrub (PSS) wetlands, and 0.01-acre of PSS wetlands to PEM.
   - Temporary impacts to 10.99 acres of PEM, 0.11-acre of PSS, and 1.81 acres of PFO.
   - Temporary impacts to 0.95-acre of palustrine open water (POW).

- Temporary impact to 3,497 linear feet (LF) of perennial stream, 1,661 LF of intermittent stream, and 758 LF of ephemeral stream.

2. DEQ authorizes surface water impacts as identified in Table 1 below.

Table 1

Impact Type	Surface Water Type	Authorized Impact Amount	
		Acre(s)	Linear Feet
Permanent	Palustrine Forested Wetland (PFO)	0.00	N/A
	Palustrine Scrub-Shrub Wetland (PSS)	0.00	N/A
	Palustrine Emergent Wetland (PEM)	0.00	N/A
	Palustrine Open Water (POW)	0.00	N/A
	Stream Channel	0.00	0
	Subtotal	*0.00*	*0*
Conversion	PFO to PEM	0.64	N/A
	PFO to PSS	0.48	N/A
	PSS to PEM	0.01	N/A
	Subtotal	*1.13*	*N/A*
Temporary	PFO	1.81	N/A
	PSS	0.11	N/A
	PEM	10.99	N/A
	POW	0.95	N/A
	Stream Channel	1.00	5,916
	Subtotal	*14.86*	*5,916*
TOTAL		15.99	5,916

3. Authorized surface water impacts shall be as depicted on the impacts map entitled *Attachment 21C – Overall Wetlands and Waters of the U.S. (WOTUS) Impact Map* (Appendix A), dated June 2025, revised August 2025, received on 6 June 2025 with revisions received through 6 August 2025.

Approved Compensation:

The permittee shall compensate for the authorized surface water impacts through the following:

1. Compensation for wetland conversion impacts shall be provided through the creation of 1.13 acres of palustrine forested wetlands. Development of a final mitigation plan in accordance with Part I.X shall be based upon the approved conceptual mitigation plan entitled *Cherrystone Wetland Mitigation Site – Concept Design*, dated June 2025, revised 26 June 2025, received on 6 June 2025 with revisions received 6 August 2025. Voluntary compensatory mitigation may be offered by the permittee as part of this site, through credit purchase(s), or a combination thereof.

Table 2.

	Mitigation Ratio	Impact area (acres)	Credits Required
PFO Conversion to PSS	1:1	0.48	0.48
PFO Conversion to PEM	1:1	0.64	0.64
PSS Conversion to PEM	1:1	0.01	0.01
TOTAL			**1.13**

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The permitted activity shall be in accordance with this Permit Cover Page, Part I - Special Conditions, and Part II - General Conditions.

Trisha Beasley

23 December 2025

Trisha Beasley
DEQ Director of Operations

Part I – Special Conditions

A. Authorized Activities

1. This permit authorizes total surface water impacts as follows:

   - Conversion impacts of 0.64-acres of palustrine forested (PFO) wetlands to palustrine emergent (PEM) wetlands, 0.48-acre of PFO wetlands to palustrine scrub-shrub (PSS) wetlands, and 0.01-acre of PSS wetlands to PEM.
   - Temporary impacts to 10.99 acres of PEM, 0.11-acre of PSS, and 1.81 acres of PFO.
   - Temporary impacts to 0.95-acre of palustrine open water (POW).
   - Temporary impact to 3,497 linear feet (LF) of perennial stream, 1,661 LF of intermittent stream, and 758 LF of ephemeral stream.

2. DEQ authorizes surface water impacts as identified in Table 1 below.

Table 1

Impact Type	Surface Water Type	Authorized Impact Amount	
		Acre(s)	Linear Feet
Permanent	Palustrine Forested Wetland (PFO)	0.00	N/A
	Palustrine Scrub-Shrub Wetland (PSS)	0.00	N/A
	Palustrine Emergent Wetland (PEM)	0.00	N/A
	Palustrine Open Water (POW)	0.00	N/A
	Stream Channel	0.00	0
	Subtotal	*0.00*	*0*
Conversion	PFO to PEM	0.64	N/A
	PFO to PSS	0.48	N/A
	PSS to PEM	0.01	N/A
	Subtotal	*1.13*	*N/A*
Temporary	PFO	1.81	N/A
	PSS	0.11	N/A
	PEM	10.99	N/A
	POW	0.95	N/A
	Stream Channel	1.00	5,916
	Subtotal	*14.86*	*5,916*
TOTAL		15.99	5,916

3. Authorized surface water impacts shall be as depicted on the impacts map entitled *Attachment 21C – Overall Wetlands and Waters of the U.S. (WOTUS) Impact Map* (Appendix A), dated June 2025, revised August 2025, received on 6 June 2025 with revisions received through 6 August 2025.

4. The permittee shall conduct authorized activities as described in the Joint Permit Application dated June 2025, received 6 June 2025, and additional information materials received through 6 August 2025. Any changes to the authorized activities or impacts map that affect permitted areas shall be submitted to DEQ immediately upon determination that changes are necessary, and DEQ approval shall be required prior to implementing the changes.

5. Surface water impacts resulting from the compensation activities authorized by the approved final compensatory mitigation plan submitted in accordance with Part I.H are authorized under this permit. The permittee shall include a summary of the type and acreage/linear feet of impacts and proposed compensation for these impacts in the final compensation plan. Any additional impacts resulting from the proposed compensation site construction shall be approved by DEQ prior to construction. These additional impacts shall be compensated for, as required by DEQ.

6. The permittee shall notify the DEQ of any changes in authorized impacts to surface waters or any changes to the design or type of construction activities in surface waters authorized by this permit. DEQ approval shall be required prior to implementing the changes. Any additional impacts, modifications, or changes shall be subject to individual permit review and/or modification of this permit.

B. Permit Term

1. This permit is valid for **ten (10) years** from the date of issuance. A permit extension may be necessary if any portion of the authorized activities or any permit requirement (including compensatory mitigation provisions) is not complete at the end of the permit term. The permit term, including any extensions, cannot exceed fifteen (15) years.

2. The permittee shall notify DEQ in writing at least 180 calendar days prior to the expiration of this permit if an extension or new issuance will be requested.

C. Standard Project Conditions

1. The activities authorized by this permit shall be executed in such a manner that any impacts to beneficial uses are minimized. As defined in § 62.1-44.3 of the Code, "beneficial use" means both instream and off stream uses. Instream beneficial uses include, but are not limited to, the protection of fish and wildlife habitat, maintenance of waste assimilation, recreation, navigation, and cultural and aesthetic values. The preservation of instream flows for purposes of the protection of navigation, maintenance of waste assimilation capacity, the protection of fish and wildlife resources and habitat, recreation, cultural and aesthetic values is an instream beneficial use of Virginia’s waters. Off stream beneficial uses include, but are not limited to, domestic (including public water supply), agricultural uses, electric power generation, commercial, and industrial uses.

2. No activity shall substantially disrupt the movement of aquatic life indigenous to the water body, including those species which normally migrate through the area, unless the primary purpose of the activity is to impound water.

3. Flows downstream of the project area shall be maintained to protect all uses.

4. The activity shall not impede the passage of normal or expected high flows and any associated structure shall withstand expected high flows.

5. Continuous flow of perennial springs shall be maintained by the installation of spring boxes, French drains, or other similar structures.

6. This permit does not constitute, convey, or imply authority to any permittee to unlawfully or incidentally take any threatened or endangered species that is protected by Virginia laws or regulations, pursuant to § 3.2-1000 through -1011; § 29.1-563 through -570; and 4VAC15-20 *et seq*. The permittee shall coordinate with the U.S. Fish and Wildlife Service (USFWS) regarding effect determinations for federally listed threatened or endangered species and shall adhere to recommendations made by USFWS (e.g. time-of-year restrictions, monitoring, avoidance and minimization measures, mitigation, etc.).

7. In accordance with recommendations from the Virginia Department of Wildlife Resources (DWR) the permittee shall comply with the following conditions:
   a) For the Federally-proposed and State-endangered tricolored bat (*Perimyotis subflavis*), the permittee shall adhere to the following time-of-year restriction: No tree clearing shall occur between 1 April and 15 November of any year;
   b) For the protection of the Federally-proposed and State-endangered tricolored bat, removal of structures shall be limited to 16 November to 31 March of any year. If not feasible, a limited number of structures may be removed between 1 April to 14 November of any year following negative emergence counts conducted the night prior to removal. Structures showing signs of bat use during emergence counts may only be removed between 16 November and 31 March of any year. Results of emergence counts shall be provided to DWR and DEQ;
   c) For the protection of the Federally-proposed and State-endangered tricolored bat, no blasting shall occur within 150 feet of any structure proposed for removal that showed signs of bat use during emergence counts until the structure can be removed between 16 November and 31 March of any year. The permittee shall avoid blasting within 150 feet of five (5) inaccessible or unsurveyed culverts during the winter hibernation and torpor season (16 November to 31 March of any year);
   d) For the State-endangered Roanoke logperch (*Percina rex*), the permittee shall adhere to the following time-of-year restriction: No instream work in the Dan River and Cascade Creek or tributaries within one (1) mile of aforementioned surface waters shall occur between 15 March and 30 June of any year; and
   e) For general warmwater fisheries (spawning) the permittee shall adhere to the following time-of-year restriction: No instream work shall occur between 15 April and 15 July of any year in streams identified in the attached table entitled *Virginia Time of Year Restrictions – Southeast Supply Enhancement Project – Eden Loop* (Appendix B).

8. All excavation, dredging, or filling in surface waters shall be accomplished in a manner that minimizes bottom disturbance and turbidity.

9. All in-stream activities shall be conducted during low-flow conditions whenever practicable.

10. Erosion and sedimentation controls shall be placed prior to clearing and grading and maintained in good working order to minimize impacts to state waters. These controls shall remain in place until the area is stabilized and shall then be removed.

11. All construction, construction access, and demolition activities associated with this project shall be accomplished in a manner that minimizes construction materials or waste materials from entering surface waters, unless authorized by this permit. Wet, excess, or waste concrete shall be prohibited from entering surface waters.

12. All fill material placed in surface waters shall be clean and free of contaminants in toxic concentrations or amounts in accordance with all applicable laws and regulations.

13. Measures shall be employed at all times to prevent and contain spills of fuels, lubricants, or other pollutants into surface waters.

14. Machinery or heavy equipment in temporarily impacted wetlands shall be placed on mats or geotextile fabric, or other suitable means shall be implemented, to minimize soil disturbance to the maximum extent practical. The use of matting shall be composed of natural/organic materials such as coir fiber, jute, and/or burlap. Mats, fabrics, or other measures shall be removed as soon as the work is complete in the temporarily impacted wetland.

15. Stream channel restoration activities shall be conducted in the dry or during low flow conditions. When site conditions prohibit access from the streambank or upon prior authorization from the Department of Environmental Quality, heavy equipment may be authorized for use within the stream channel. The equipment shall be stationed on cobble bars or causeways.

16. Virginia Water Quality Standards shall not be violated in any surface waters as a result of the project activities.

17. All non-impacted surface waters and any required buffers associated with compensation areas that are within the project or right-of-way limits, and that are within fifty (50) feet of any project activities, shall be clearly flagged or demarcated for the life of the construction activity within that area. The permittee shall notify all contractors and subcontractors that *no activities are to occur in these marked areas*.

18. All required notifications and submittals shall include the project name and permit number. Unless directed in writing by DEQ subsequent to the issuance of this permit, submittals shall be electronically submitted to michael.mussomeli@deq.virginia.gov or mailed to the attention of the VWP project manager at the Department of Environmental Quality-Central Office, Virginia Water Protection Program, P.O. Box 1105, Richmond, Virginia 23218.

19. All reports required by this permit and other information requested by DEQ shall be signed by the permittee or a person acting on the permittee's behalf, with the authority to bind the permittee. A person is a duly authorized representative only if *both* criteria below are met. If a representative authorization is no longer valid because of a change in responsibility for the overall operation of the facility, a new authorization shall be immediately submitted to DEQ.
    a. The authorization is made in writing by the permittee.
    b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, superintendent, or position of equivalent responsibility. A duly authorized representative may thus be either a named individual or any individual occupying a named position.

20. All submittals shall contain the following signed certification statement:

    "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel

properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

21. Any fish kills or spills of fuels or oils shall be reported to DEQ immediately upon discovery at (540) 562-6700, brroprep@deq.virginia.gov. If DEQ cannot be reached, the spill or fish kill shall be reported to the Virginia Department of Emergency Management (VDEM) at 1-800-750-8845 or the National Response Center (NRC) at 1-800-424-8802. Any spill of oil as defined in § 62.1-44.34:14 of the Code of Virginia that is less than twenty-five (25) gallons and that reaches, or that is expected to reach, land only is not reportable, if recorded per § 62.1-44.34:19.2 of the Code of Virginia and if properly cleaned up.

22. DEQ shall be notified in writing within twenty-four (24) hours or as soon as possible on the next business day when potential environmentally threatening conditions are encountered which require debris removal or involve potentially toxic substances. Measures to remove the obstruction, material, or toxic substance or to change the location of any structure are prohibited until approved by DEQ.

D. Stream Modifications, Including Intake/Outfall Structures

1. Redistribution of existing stream substrate for erosion control purposes is prohibited.

2. Material removed from the stream bottom shall not be deposited into surface waters unless otherwise authorized in this permit.

3. Riprap bank stabilization and riprap aprons for outfalls shall be of appropriate size and design to minimize impacts to state waters.

4. For streambank protection activities, structures and backfill shall be placed as close to the streambank as practical, while still avoiding and minimizing impacts to surface waters to the maximum extent practical. No material shall be placed in excess of the minimum necessary for erosion protection.

5. Asphalt and materials containing asphalt or other toxic substances shall not be used in the construction of submerged sills, breakwaters, dams, or weirs.

6. Any outfall structure shall be constructed and maintained to prevent downstream sediment deposition, erosion, or scour that may be associated with normal flow and any expected storm flows. Construction shall include the use of an appropriately sized riprap outlet protection apron at the outfall site.

E. Installation of Utilities and Temporary Impacts

1. This pipelines project is subject to § 62.1-44.15:21 J.2 and shall be constructed in a manner that minimizes temporary and permanent impacts to state waters and protects water quality to the

maximum extent practicable, including by the use of applicable best management practices that the Department determines to be necessary to protect water quality.

2. No activity shall cause more than minimal adverse effect on navigation or flows in accordance with the Virginia Stormwater Management Handbook Chapter 7.4, C-ENV-04 Utility Stream Crossing.

3. All utility line work in surface waters shall be performed in a manner that minimizes disturbance in each area. Temporarily disturbed surface waters shall be restored in accordance with this Permit, Virginia Water Protection Permit regulations, and the approved stream and wetland restoration plan (*Restoration Framework*), unless otherwise authorized by this permit.

4. Material resulting from trench excavation may be temporarily sidecast into wetlands not to exceed a total of ninety (90) calendar days, provided the material is not placed in a manner such that it is dispersed by currents or other forces.

5. The trench for a utility line cannot be constructed in a manner that drains wetlands (e.g., backfilling with extensive gravel layers creating a French drain effect).

6. Temporary disturbances to wetlands, stream channels, and/or stream banks during project construction activities shall be avoided and minimized to the maximum extent practicable.

7. All materials (including fill, construction debris, excavated materials, and woody materials, that are temporarily placed in wetlands, in stream channels, or on stream banks) shall be placed on mats or geotextile fabric, shall be immediately stabilized to prevent the material or leachate from entering surface waters, and shall be entirely removed within thirty (30) calendar days following completion of that construction activity. After removal, disturbed areas shall be returned to original contours, shall be stabilized, and shall be restored to the original vegetated state in accordance with the stream and wetland restoration plan (*Restoration Framework*) to be approved by the Department.

8. Temporary in-stream construction features such as cofferdams shall be made of non-erodible materials.

9. All temporarily disturbed wetland areas shall be restored to their original elevations and contours. The restoration work shall be completed as approved by DEQ in the stream and wetland restoration plan (*Restoration Framework*).

10. All temporarily impacted streams and stream banks shall be restored to their original elevations and contours. All temporarily impacted wetlands shall be restored to their pre-construction conditions. The restoration, as defined in 9VAC25-210-10, shall be completed as approved by DEQ in the stream and wetland restoration plan (*Restoration Framework*). The *Restoration Framework* shall be approved by DEQ in writing prior to initiating impacts authorized by this Permit. Any revisions to the *Restoration Framework* shall be submitted for DEQ review and approval prior to implementing the revision(s). The *Restoration Framework* shall include:
    a. A pre-construction wetland and stream assessment, including contours, elevations, stream geomorphology, vegetation survey and other information sufficient to establish baseline conditions at each temporary impact area.
    b. Temporary impact area restoration methods.

c. Re-vegetation plan.
d. Criteria for successful restoration.
e. A monitoring schedule and report format to document attainment of success criteria.
f. A corrective action strategy for areas not meeting the success criteria.
g. A supplemental compensatory mitigation strategy addressing temporal loss of stream and wetland functions.

11. The permittee shall limit the width of the 100-foot limit of disturbance to seventy-five (75) feet at surface water crossings, except in the thirteen (13) locations identified in the attached table "*Limit of Disturbance Greater than 75 Feet in Resource*" (Appendix C).

12. The permittee shall not commence any instream activity associated with an open cut crossing in a stream with flowing water if instream activity for another open cut crossing undertaken by the permittee or a third party is underway on the same stream within 200 linear feet upstream or downstream of the limits of disturbance of the planned crossing. For the purpose of this this special condition, "instream activity" begins with the installation of a cofferdam or diversion of streamflow in preparation for an open cut crossing and continues until the streamflow is restored at the crossing location.

F. Road Crossings

1. Access roads authorized by this permit shall be constructed to minimize the adverse effects on surface waters to the maximum extent practicable and to follow as near as possible pre-construction contours and elevations.

2. Installation of pipes and road crossings shall occur in the dry via the implementation of cofferdams, sheet piling, stream diversions, or other similar structures.

3. Fording of streams shall not occur without prior authorization from DEQ.

4. All surface waters temporarily affected by a road crossing shall be restored to their original elevations immediately following the removal of that particular temporary crossing. Temporary access roads shall be restored to preconstruction conditions and contours following activity completion.

5. At crossings of streams, pipes and culverts must be installed to maintain low flow conditions. Temporary installations must be removed in their entirety and the crossing site restored to pre-installation conditions. Permanent installations shall be countersunk at both inlet and outlet ends of the pipe or culvert, unless otherwise specifically approved by DEQ on a case-by-case basis, and as follows: The requirement to countersink does not apply to wetland crossings; extensions or maintenance of existing pipes and culverts that are not countersunk; floodplain pipes; culverts being placed above ordinary high water; pipes and culverts being placed on bedrock; or pipes and culverts required to be placed on slopes 5.0% or greater. Bedrock encountered during construction must be identified and approved in advance of a design change where the countersunk condition cannot be met. Pipes and culverts twenty-four (24) inches or less in diameter shall be countersunk three (3) inches below the natural stream bed elevations, and pipes and culverts greater than twenty-four (24) inches shall be countersunk at least six (6) inches below the natural stream bed elevations. Hydraulic

capacity shall be determined based on the reduced capacity due to the countersunk position. In all stream crossings appropriate measures shall be implemented to minimize any disruption of aquatic life movement.

6. When countersinking culverts in streams, the permittee shall install the structure and any riprap or ancillary features in a manner to ensure reestablishment of the stream channel within fifteen (15) days post construction. When installing culverts in any surface water, the permittee shall install the culvert and ancillary features in a manner that will maintain the pre-construction hydrologic regime. Surface water depth within the impact area shall be consistent with depths upstream and downstream of the impact area.

7. Stream bottom elevations at road crossings shall be measured at the inlet and outlet of the proposed structure and recorded prior to construction and within one week after the completion of construction to ensure that the design elevations were met. This information shall be recorded on the *Monthly VWP Permit Inspection Checklist* (Attachment 2) completed after crossings are installed.

G. Stormwater Management Structures

1. Any outfall and overflow structures shall be constructed and maintained to prevent downstream sediment deposition, erosion, or scour that may be associated with normal flow and any expected storm flows. Construction shall include the use of an appropriately sized riprap outlet protection apron at the outfall site.

2. Maintenance excavation shall follow the stormwater management plan approved by the Virginia Stormwater Management Program Authority and shall not exceed the original contours or designated maintenance areas of the facility.

3. Draining of a stormwater management facility shall be performed by a method that prevents downstream sediment deposition, erosion, or scour.

H. Project Construction Monitoring and Submittals (Impact Sites)

1. The permittee shall submit written notification at least **ten (10) calendar days** prior to the initiation of land disturbance or construction activities in permitted areas. The notification shall include preconstruction photographs, projected schedule for initiating and completing work at each permitted impact area.
   a. Preconstruction photographs shall be taken at each impact area prior to initiation of activities within impact areas.
   b. Photographs shall depict the impact area and the nonimpacted surface waters immediately adjacent to and downgradient of each impact area.
   c. Each photograph shall be labeled to include the following information: permit number, impact area number, date and time of the photograph, name of the person taking the photograph, photograph orientation, and photograph subject description.

2. Site inspections shall be conducted **once every calendar month** and recorded on the *Monthly VWP Permit Inspection Checklist* (Attachment 2) by the permittee or the permittee's qualified designee

during active construction within authorized surface water impact areas. Monthly inspections shall be conducted in the following areas: all authorized permanent and temporary impact areas; all avoided surface waters, including wetlands, stream channels, and open water; surface water areas within 50 feet of any land disturbing activity; and all on-site areas designated for permanent preservation. The *Monthly VWP Permit Inspection Checklist* (Attachment 2) shall be completed in its entirety for each monthly inspection and shall be kept on-site and made available for review by DEQ staff upon request during normal business hours.

3. The *VWP Permit Construction Status Update Form* (Attachment 1) enclosed with this permit shall be completed in June and December of every year for the duration of this permit. The *VWP Permit Construction Status Update Form* (Attachment 1) shall include reference to the VWP permit authorization number and one of the following statements for each authorized surface water impact location:
   a. Construction activities not yet started;
   b. Construction activities started;
   c. Construction activities started but are currently inactive, or;
   d. Construction activities complete.

4. The *VWP Permit Construction Status Update Form* (Attachment 1) shall be submitted and must be received by DEQ no later than 10 January and 10 July of every year.

5. The permittee shall notify DEQ within twenty-four (24) hours of discovering impacts to surface waters including wetlands, stream channels, and open water that are not authorized by this permit. The notification shall include photographs, estimated acreage and/or linear footage of impacts, and a description of the impacts.

6. The permittee shall submit written notification of completion within thirty (30) calendar days after the completion of all activities in all permitted impact areas authorized under this permit.

7. The permittee shall reimburse the Department for costs associated with inspection and management services being provided by a third-party contractor that will include two (2) full-time inspectors to ensure compliance with permit conditions and erosion and sediment control measures. The third-party inspections shall occur along the construction right-of-way daily. Inspectors shall submit inspection reports on a basis approved by the Department and shall report incidences of discharges and noncompliance directly to the Department.

8. The permittee shall reimburse the Department for costs to fund continuous water quality monitoring by the United States Geological Service (USGS). The USGS will conduct water quality monitoring of certain surface waters at locations to be determined by the Department, per a signed contract with USGS.

I. Compensatory Mitigation – Permittee-Responsible Wetland Compensation

Standard Conditions

1. The permittee shall submit a final compensation plan (Final Plan) to DEQ prior to initiating work in the impact areas authorized by this permit. The Final Plan shall include, at minimum, all the

information provided in the conceptual compensatory mitigation plan (Conceptual Plan) entitled *Cherrystone Wetland Mitigation Site – Concept Design*, dated June 2025, revised 26 June 2025, received on 6 June 2025 with revisions received 6 August 2025. The permittee shall compensate for permanent wetland impacts through the on-site creation and wetland enhancement that would result in 1.13 acres of palustrine forested wetlands. Voluntary compensatory mitigation may be offered by the permittee as part of this site, through credit purchase(s), or a combination thereof.

Table 2.

	Mitigation Ratio	**Impact area (acres)**	**Credits Required**
PFO Conversion to PSS	1:1	0.48	0.48
PFO Conversion to PEM	1:1	0.64	0.64
PSS Conversion to PEM	1:1	0.01	0.01
TOTAL			**1.13**

2. The permittee is responsible for meeting all components of the compensatory mitigation requirements associated with this permit. This responsibility can only be transferred if and when the permit is transferred to another party and then only to the new permit recipient.

3. The Final Plan, as prepared in accordance with this VWP permit, shall be approved by DEQ prior to any construction activity in permitted impact areas. DEQ shall have sixty (60) calendar days to review and either provide written comments to the permittee or approve the Final Plan. The Final Plan as approved by DEQ shall be an enforceable requirement of this permit. Any change to the approved Final Plan must be submitted to DEQ for approval prior to implementing the change.

4. Construction of compensation sites shall be initiated within 180 days of commencing impacts authorized in this permit. The activities approved in the Final Plan shall be completed within one (1) year of initiating work in authorized impact areas.

5. Planting of woody plants shall occur when vegetation is normally dormant, unless otherwise approved in the Final Plan.

6. The vegetation used shall be native species common to the area, shall be suitable for growth in local wetland or riparian conditions, and shall be from areas within the same or adjacent U.S. Department of Agriculture Plant Hardiness Zone or Natural Resources Conservation Service Land Resource Region as that of the project site.

7. Herbicides or algicides shall not be used in or immediately adjacent to the compensation site without prior authorization by DEQ. All vegetation removal shall be done by manual means, unless authorized by DEQ.

8. Point sources of stormwater runoff shall be prohibited from entering any compensation site prior to treatment by appropriate best management practices (BMPs). Appropriate best management practices may include sediment traps, grassed waterways, vegetated filter strips, debris screens, oil and grease separators, or forebays.

9. All nonimpacted surface waters and designated upland buffers that are within the compensation site limits, that are within fifty (50) feet of any compensation site activities, and that are within the project or right-of-way limits shall be clearly flagged or marked for the life of the construction activity within that area. Open water areas should be marked as practicable. The permittee shall notify all contractors and subcontractors that no activities are to occur within these marked areas.

10. DEQ shall be notified in writing within twenty-four (24) hours or as soon as possible on the next business day when unusual or potentially complex conditions are encountered which require debris removal or involve potentially toxic substances. Measures to remove the obstruction, material, or toxic substance or to change the location of any structure are prohibited until approved by DEQ.

Compensation Site Construction: Tasks, Monitoring, and Submittals

11. The permittee shall submit a Final Plan to DEQ prior to initiating work in the impact areas authorized by this permit, which shall include all the information provided in the Conceptual Plan and, at a minimum, the following information:
    a) The goals and objectives of the Final Plan, how the proposed wetland compensation is replacing/enhancing/preserving wetland acreage and functions, the components of the compensation expressed in acres (rounded to the nearest 100th acre) and square footage, the proposed vegetation types, and the wetland classification.
    b) Wetland delineation confirmation, data sheets, and survey-located wetland maps for existing surface waters areas on the compensation site, and any collectible information on reference wetlands adjacent to or near the compensation site.
    c) A location map, including the compensation site boundaries, the latitude and longitude (to the nearest second) at the center of the compensation site, and the watershed name and the fourth order subbasin, as defined by the hydrologic unit boundaries of the National Watershed Boundary Dataset, in which the compensation site is located.
    d) Provide the end date and start of the growing season, as defined below.
        i. For the purpose of this determination, the growing season is defined as the period in which the twenty-four (24)-hour average temperatures are expected to be above 28°F in five (5) out of ten (10) years); or,
        ii. Define the period during which the soil temperature at the project locations is greater than biological zero: (41°F) at a depth of fifty (50) cm (19.7 inches), if such data is available.
    e) A site access plan, including plan to restore any temporary impacts associated with site access and construction.
    f) A monitoring plan, with defined goals.
    g) A drawing(s) depicting the location of photo-monitoring stations, monitoring wells, soil sampling points, and reference wetlands (if available).
    h) Define monitoring plot/transect vegetative sampling method and sizing.
    i) Monitoring wells shall be proposed at a minimum density of three (3) per acre in nontidal wetland compensation site(s) (hydrology monitoring may not be required at tidal wetland compensation sites). The Final Plan shall include specific details on the monitoring wells, monitoring device, and monitoring methodology.
        i. For groundwater and precipitation-driven sites in non-riverine systems, historic groundwater elevation data, if available, or the proposed location of groundwater monitoring wells to collect these data.
    j) The proposed success criteria.

k) An abatement and control plan for undesirable plant species.
l) A planting scheme and schedule, including but not limited to, the plant species, wetland indicator status and sizing to be planted, zonation, and acreage of each vegetation type proposed.
m) A soil preparation and amendment plan addressing both topsoil and subsoil conditions, permeability, and the need for soil amendments and/or structural modification (i.e., surface scarification or tilling).
n) Grading and Erosion and Sediment Control plans.
o) A construction, recordation, and Final Plan implementation schedule.
p) A draft of the intended protective mechanism(s), in accordance with 9VAC25-210-116 B.2, such as, but not limited to, a conservation easement held by a third party in accordance with the Virginia Conservation Easement Act (§10.1-1009 *et seq.* of the Code of Virginia) or the Virginia Open-Space Land Act (§10.1-1700 *et seq.* of the Code of Virginia), a duly recorded declaration of restrictive covenants, or other protective instrument. The draft intended protective mechanism(s) shall contain the information below:
    i. A provision for access to the site; and
    ii. The following minimum restrictions: no ditching, land clearing, or discharge of dredge or fill material, and no activity in the area designated as compensatory mitigation area with the exception of maintenance; corrective action measures; or DEQ-approved activities described in the approved Final Plan or approved long-term management plan (LTMP).
q) A LTMP and financial assurance plan that identifies a long-term steward and adequate financial assurances for long-term management in accordance with the current standard for mitigation banks and in-lieu fee program sites. The financial assurance plan shall include a cost estimate sufficient to construct, maintain, and replace the Final Plan activities.

12. Photographs of existing conditions shall be taken prior to the commencing activities at the compensation site. Photographs at the compensation site shall not be required until land disturbance or construction activities are initiated on the compensation site. Photographs shall be taken at a height of approximately five (5) to six (6) feet and from fixed-point stations, preferably at the same location as that of each planned monitoring well. Photographs shall be taken in each of the four cardinal directions (north, east, south, and west). Permanent markers shall be established to ensure that the same locations on the site are used for future monitoring events. Each photograph taken shall be labeled with the permit number, the name of the compensation site, the photo station number, the photograph orientation, the date and time of the photograph, the name of the person taking the photograph, and a brief description of the photograph subject. This information shall be provided as a separate attachment to each photograph, if necessary.

13. DEQ shall be notified in writing at least ten (10) calendar days prior to the initiation of activities at the compensation site. The notification shall include a projected schedule of activities, Final Plan implementation, and construction completion.

14. After the wetland compensation site reaches final grades but prior to planting, the permittee shall submit a post-grading survey to DEQ. The survey shall be conducted by a licensed land surveyor and certified by a licensed surveyor, licensed professional engineer, or licensed landscape architect. The survey shall document spot elevations (in feet above mean sea level) that are within plus or minus 0.2 of a foot (2.5 inches) of the elevations indicated in the site construction grading plan. Post-grading elevations for the compensation site shall be sufficient to ensure that wetland hydrology will be achieved on the site to support the goals and objectives of the approved Final

Plan. DEQ shall have thirty (30) calendar days to review the survey and provide comments to the permittee.

15. Photographic monitoring of compensation site construction shall be required at the end of each month during construction to document that construction activities are being performed in manner to prevent impacts to adjacent surface waters. Photographic monitoring shall be conducted by the following method:
    a) Photographs shall be taken at a height of approximately five (5) to six (6) feet and from fixed-point stations, preferably at the same location as that of each planned monitoring well. Photographs shall be taken in each of the four (4) cardinal directions (north, east, south, and west). Permanent markers shall be established to ensure that the same locations on the site are used for future monitoring events. Each photograph taken shall be labeled with the permit number, the name of the compensation site, the photo station number, the photograph orientation, the date and time of the photograph, the name of the person taking the photograph, and a brief description of the photograph subject. This information shall be provided as a separate attachment to each photograph, if necessary.
    b) For temporary disturbances to surface waters, the permittee shall conduct photographic monitoring after the temporary disturbance activity is complete in order to document that the area has been restored in compliance with these permit conditions.

16. Compensation site construction monitoring reports shall be submitted within thirty (30) calendar days of each monitoring event. The reports shall include the following, as appropriate:
    a) A summary of construction progress, including any problems encountered and the proposed corrective actions or DEQ-approved corrective actions taken.
    b) Properly labeled photographs as detailed in Part I.I.12. The first construction monitoring report shall include the photographs taken at the compensation site prior to initiation of land disturbance or construction activities at the compensation site.

Success Criteria

17. The wetland compensation site as identified in the Conceptual Plan Conceptual Compensation Plan *Cherrystone Wetland Mitigation Site – Concept Design*, dated June 2025, revised 26 June 2025, received on 6 June 2025 with revisions received 6 August 2025, and as identified in any subsequent Final Plan approved by DEQ for this permit, shall meet the following success criteria:
    a) Success is required to be met across the entire wetland creation compensation area, with monitoring locations randomly selected via an appropriate method. Monitoring locations shall be representative of each distinct resource type (i.e., zonation). All means or averages of plot data must apply to each distinctly homogenous area, with the number of sampling points and frequency of observation sufficient to allow for appropriate statistical inference. In the event that the monitoring does not accurately reflect the conditions of the entire site, additional monitoring will be required.
    b) The site shall be inundated (flooded or ponded) or the water table is less than or equal to twelve (12) inches below the soil surface for greater than or equal to fourteen (14) consecutive days during the growing season every monitoring year. Site hydrology shall not exceed surficial inundation tolerances of the planted vegetation species. Hydrology shall be demonstrated via the use of monitoring wells at a minimum density of three (3) monitoring wells per acre at

nontidal wetland compensation site(s). In situations of inundation, the depth of inundation is to be reported at each monitoring well location.

c) Wetland vegetation shall meet all of the following criteria, as applicable based on defined end-resource type:

Wetland Vegetation Success Criteria	
END RESOURCE TYPE	***VEGETATION CRITERIA***
• **Non-tidal Forested Wetlands** • **Upland Buffers**	A density of 400 woody living stems per acre greater than 12 inches in height in monitoring periods 1, 2, and 3 shall be maintained.
• **Non-tidal Forested Wetlands** • **Upland Buffers**	A density of 400 woody living stems per acre and greater than 24 inches in height in monitoring years 4 and 5 shall be maintained.
• **Non-tidal Forested Wetlands** • **Upland Buffers**	A density of 400 woody living stems per acre and greater than 36 inches in height in monitoring year 7.
• **Non-tidal Forested Wetlands** • **Upland Buffers**	The 400 woody stems shall be comprised of only native tree and shrub species, of which not less than 50% shall be native tree species.
• **Non-tidal Forested Wetlands** • **Upland Buffers**	All woody species criteria shall be achieved at minimum in the last two monitoring years without supplemental planting. Woody stem counts include living, vigorous woody stems both planted and volunteer.
• **Non-tidal Forested Wetlands** • **Upland Buffers**	Native non-invasive herbaceous plant coverage shall be at least 60% by the end of the first growing season, and at least 80% each monitoring year thereafter. Any seeds used for plant establishment should conform to the Virginia Seed Law (Sections 3.1-262 Code of Virginia) and Virginia Seed Regulations (2 VAC 5-290-10 et seq) and shall be free of tall fescue, Bermuda grass, and other allelopathic turf grass species, as well as plant species on the Virginia Department of Conservation and Recreation's Invasive Plant Species list. This list of invasive plants may be found at https://www.dcr.virginia.gov/natural-heritage/invsppdflist**.**
• **Non-tidal Forested Wetlands** • **Upland Buffers**	No more than 5% aerial cover and/or cumulative areas larger than 0.25 acre in size dominated by invasive species may be present in each cell, field, or block. Invasive species are identified on the Virginia Department of Conservation and Recreation's Invasive Plant Species list. This list of invasive plants may be found at https://www.dcr.virginia.gov/natural-heritage/invsppdflist**.**
• **Non-tidal Forested Wetlands**	Woody stems must present wetland vegetation dominance, defined as a vegetation community where more than 50% of all dominant species are facultative ("FAC") or wetter using "routine delineation methods" as described in the "Corps of Engineers Wetland Delineation Method," Technical Report 87-1 ("1987 Manual") or the Eastern Mountain and Piedmont Regional Supplement must be achieved.
• **Non-tidal Forested Wetlands**	Emergent vegetation must present wetland vegetation dominance, defined as a vegetation community where more than 50% of all dominant species are facultative ("FAC") or wetter using "routine delineation methods" as described in the "Corps of Engineers Wetland Delineation Method," Technical Report 87-1 ("1987 Manual") or the Eastern Mountain and Piedmont Regional Supplement must be achieved.

d) Soil Success Criteria shall be evaluated for wetland creation areas located on non-hydric soils. In that event, the following success criteria shall be followed:

i. For fine textured soils (silts, clays, loams), positive indicators of hydric soil formation must be demonstrated within twelve (12) inches of the soil surface. Groundwater monitoring may be used as a positive indicator for all monitoring years after reaching the final grade, in which case, wells must demonstrate free water within twelve (12) inches of the surface for fifteen (15) consecutive days during the growing season.
ii. For coarse textured (sandy) surface soils (A horizon), positive indicators of hydric soil formation must be demonstrated within six (6) inches of the soil surface. Groundwater monitoring may be used as a positive indicator for all monitoring years after reaching the final grade, in which case, wells must demonstrate free water within six (6) inches of the surface for fifteen (15) consecutive days during the growing season.
iii. Positive indicators of hydric soil formation may include redoximorphic features including, but not limited to redox concentrations, redox depletions, reduced matrices, positive tests with alpha, alpha-dipyridyl reagent, or other field indicators contained in the Field Indicators of Hydric Soils of the U.S.
iv. A complete soil morphologic description shall be documented pre- and post-construction and at the 3rd, 4th, 5th and 7th monitoring year to document changes in overall soil morphology, particularly the development of redoximorphic features over time (such as a reduction in matrix chroma or development of redox depletions), to demonstrate that soils at the site have achieved hydric soil conditions. At a minimum, soil profiles to a depth of eighteen (18) inches shall be described at a distance of ten (10) to thirty (30) feet from each monitoring well.

18. Final release of the site shall be contingent upon approval by DEQ and USACE of all defined success criteria being met, and the determination that the site has: i) successfully resulted in the restoration of the defined acreage of wetland and associated buffer; ii) site-wide vegetation coverage of relative uniformity; and iii) trees of sufficient height as to afford a measure of temporal replacement.

Success Monitoring Requirements

19. Monitoring activities shall occur during the growing season, and during the 1st, 2nd, 3rd, 4th, 5th, and 7th monitoring year, and shall adhere to the following:
    a. The 1st monitoring period shall be the 1st growing season after the completion of grading and planting.
    b. If all success criteria have not been met in any monitoring year, then a monitoring report shall be required for each consecutive year until two sequential annual reports indicate that all criteria have been successfully satisfied. This shall be required regardless of the monitoring year.
    c. The monitoring period shall be extended for adherence to all applicable success criteria defined in these permit conditions, to include additional monitoring years if all success criteria are not met the final two (2) monitoring years.
    d. For any year in which planting is conducted, monitoring of vegetation shall take place at least six (6) months following planting.

20. Visual observations shall be conducted and descriptions provided with each monitoring report in narrative form along with documentation by ground level photographs, taken facing north, south, east and west, from defined photo-monitoring stations located in the vicinity of each vegetation monitoring plot/transect and monitoring well. Permanent markers for the photo-monitoring stations

at each monitoring well shall be established to ensure that the same locations (and view directions) are monitored in each monitoring period.

21. Hydrology monitoring shall be conducted each monitoring period during the growing season to demonstrate achievement of the hydrology performance criterion for either sixty (60) days of continuous automated monitoring or eight (8) consecutive weekly measurements *(actual monitoring may be of longer duration, as needed, to obtain verification of wetland hydrology)*. For surface saturation driven systems located on top of a clayey substrate, soil saturation measurement devices may be used in lieu of groundwater wells and other secondary hydrology indicators to determine groundwater elevations and/or hydro period in these wetlands areas. Specific details on the soil saturation measurement device and location or groundwater monitoring wells shall be provided in the Final Plan for DEQ and USACE approval.

22. Soil morphologic observations shall be conducted pre- and post-construction and at the 3rd, 7th, and 10th year following construction to document changes in overall soil morphology. The assessment shall include the location of soil samples, which shall be within ten (10) to (30) feet of each monitoring well. The assessment shall include a complete soil profile down to eighteen (18) inches and observations of overall soil characteristics indicative of hydric soils, including but not limited to redox depletions or reduction in matrix chroma.

23. Vegetative monitoring plots/transects shall assess a minimum of 10% of the mitigation site and there shall be at least one (1) monitoring plot/transect per resource type/zonation.
    a. Transects shall cross the wetland or buffer area with a width not less than five (5) feet for woody plants and one (1) foot for herbaceous species.
    b. Appropriate methods shall be used to randomly locate vegetative monitoring plots/transects within sample areas (transects with random number generators, GIS-randomization methods, etc.).
    c. Plots/transects shall be re-established in new random locations each year, unless otherwise authorized by DEQ.

24. The following vegetation data shall be collected along each transect or within each plot during monitoring events, as applicable based on resource type/zonation:
    a. In monitoring years 1, 2, and 3, number of living woody stems and species composition of stems greater than or equal to twelve (12) inches.
    b. In monitoring years 4 and 5, number of living woody stems and species composition of stems greater than or equal to twenty-four (24) inches.
    c. In monitoring year 7, number of stems and species of living wood stems greater than or equal to thirty-six (36) inches.
    d. The following parameters are to be calculated based on woody stems (as applicable based on resource type/zonation) that meet prescribed height requirements within a given monitoring year:
        i. Percentage of woody stems comprised of volunteers;
        ii. Number of stems, percentage of herbaceous coverage, and the species composition of for both woody and herbaceous vegetation across all vegetative strata; the percentage dominant FAC or wetter; and an inventory of all dominant vegetation species for woody and herbaceous vegetation;
        iii. Number, species, and percent cover of invasive plants; and,

iv. Number of dead stems total, number of dead stems per species, estimated survival rate total, and estimated survival rate per species (as a percentage) of plantings.

Reporting

25. A Success Criteria Report shall be submitted to DEQ by 31 December for the years in which a monitoring report is required, including the final monitoring year, as identified in the approved Final Plan. The reports shall provide all monitoring data and necessary analyses demonstrating the site's performance in meeting the defined success criteria.
    a. The first report shall include an as-built survey conducted by a licensed surveyor, for the wetland compensation area, including the acreage and spot elevations throughout the compensation area, and as defined by Part I.I.11.
    b. The first report and all subsequent reports shall include the following, at a minimum:
        i. A general description of the compensation site, including a site location map and the location photo-monitoring stations, visual markers, vegetative monitoring plots/transects, soil sampling points, monitoring wells, and if applicable, reference wetlands;
        ii. The number, species and location and any plantings during the current monitoring year;
        iii. A detailed narrative summarizing the condition of the compensation site;
        iv. Any maintenance activities that occurred;
        v. Results of required vegetation monitoring;
        vi. Results of hydrological monitoring;
        vii. Soil assessment profiles and observations - describe the soil profile, including a table with the following for each soil profile: depth, color, texture, horizon, matrix color, redoximorphic features, redox color, and redox feature abundance, and field indicators of hydric soil;
        viii. Visual assessment observations and photographs; and,
        ix. Analysis and conclusion as to whether the site is meeting the defined success criteria and meeting the goals and objectives of the Final Plan.
        x. The following certification statement: " I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."
    c. Within sixty (60) calendar days of the completion of the entire monitoring cycle, including any time extensions for corrective action, a wetland boundary survey shall be conducted by a licensed land surveyor or a licensed professional engineer, and shall be based upon the results of monitoring data for soils, vegetation, and hydrology. A calculation shall be made of the total acreage of each wetland type. The boundary and acreage per wetland type shall be shown on the most recent version of the compensation site design plan sheet(s), which shall be submitted with the final monitoring year's report.

Corrective Action

26. In the event that any success criteria are not met in any given year, corrective action shall be required. A Corrective Action Plan (CAP) shall be submitted to DEQ for approval prior to or with the next required monitoring report. The CAP shall clearly identify all deficiencies, describe specific corrective actions, and include a schedule of corrective action activities. Once the CAP is approved by DEQ, it shall be implemented within the time frames approved in the CAP.

    If supplemental planting, invasive species control, or hydrologic modifications are required at any time after the completion of the 2nd monitoring period, monitoring shall continue for each consecutive year until two (2) annual sequential reports indicate that success has been achieved without corrective action.

27. Significant Corrective Action: In the event that the monitoring identifies a significant failure of the site to meet defined success criteria, DEQ shall be notified within thirty (30) days of the observation, and a revised CAP shall be submitted to DEQ within sixty (60) days of the observation for review and approval. In the event that Significant Corrective Action is required, the monitoring term shall begin at Year 1 the following growing season. Significant Corrective action is defined as any of the following *during or after* the 3rd growing season or monitoring event:
    a. Having to replant as a result of greater than 50% mortality of planted woody stems, or the density of woody stems greater than twelve (12) inches in height are less than 200 living stems per acre;
    b. Having to alter hydrology or planting scheme because vegetative communities are not dominated by facultative (FAC) or wetter species; or,
    c. Having to alter hydrology controls to meet wetland hydrology.

28. If the success criteria specified in the Final Plan or in any CAP are not achieved by the end of the *last* monitoring period, and DEQ determines that additional corrective action cannot sufficiently address the reasons for such failures, then the permittee shall submit to DEQ for review and approval, within thirty (30) days of such determination, a proposal to purchase mitigation bank credits or in-lieu fee program credits to provide compensatory mitigation for 1.13 acres of wetland impact. The permittee shall purchase 1.13 mitigation bank credits or in-lieu fee program credits, as approved by DEQ in accordance with this condition, within thirty (30) days.

Long-Term Management and Site Protection

29. The site shall be protected in perpetuity. The protective instrument shall contain:
    a. A provision for DEQ access to the site.
    b. The following minimum restrictions: no ditching, land clearing, or discharge of dredge or fill material, and no activity in the area designated as compensatory mitigation area with the exception of maintenance; corrective action measures; or DEQ-approved activities described in the approved Final Plan or approved long-term management plan (LTMP).

30. Proof of recordation shall be submitted to DEQ prior to commencing impacts in surface waters. The permittee is responsible for ensuring that the survey or plat is in accordance with the application materials. Proof of recordation shall include the recorded survey or plat and a GIS-compatible shapefile(s). The final survey or plat shall be certified by a professional engineer or licensed land surveyor. The recorded easement survey or plat shall be signed and sealed by a Land Surveyor or

Professional Engineer licensed in the Commonwealth of Virginia and shall contain a minimum of two (2) coordinate pairs (grid ticks or property/easement corners) per sheet. The GIS-compatible shapefile(s) shall:

a. be referenced to the Virginia Coordinate System of 1983, South Zone, U.S. Survey Feet (FIPS 4501 or 4502);
b. contain a projections (.prj) file for each shapefile;
c. be closed polygons with attribute data detailing the county of recordation, recorded deed acreage, date of recordation, and protective mechanism number or deed book and page number; or,
d. be as otherwise coordinated with DEQ.

31. Prior to the commencement of initiating impacts to surface waters, the Permittee shall submit proof to DEQ and USACE that the Financial Assurances have been executed.

32. Prior to the commencement of initiating impacts to surface waters, the Permittee shall submit the approved LTMP. The Permittee must comply with all requirements as defined in the LTMP, included as a component of the Final Plan.

33. The Permittee must comply with the Financial Assurance Plan as defined in the Financial Assurances component of DEQ-approved Final Plan.

Part II – General Conditions

A. Duty to Comply

The permittee shall comply with all conditions and limitations of the VWP permit. Nothing in this chapter shall be construed to relieve the permittee of the duty to comply with all applicable federal and state statutes, regulations, toxic standards, and prohibitions. Any VWP permit violation or noncompliance is a violation of the Clean Water Act and State Water Control Law and is grounds for enforcement action, VWP permit termination, VWP permit revocation, VWP permit modification, or denial of an application for a VWP permit extension or reissuance.

Nothing in this VWP permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

B. Duty to Cease or Confine Activity

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the activity for which a VWP permit has been granted in order to maintain compliance with the conditions of the VWP permit.

C. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any impacts in violation of the VWP permit that may have a reasonable likelihood of adversely affecting human health or the environment.

D. VWP Permit Actions

A VWP permit may be modified in whole or in part, revoked and reissued, extended, transferred, or terminated in accordance with 9VAC25-210-180 of the Virginia Administrative Code.

1. During the drafting and authorization of a permit modification, only those conditions to be modified shall be addressed with preparing a draft modified permit. VWP permit terms and conditions of the existing permit shall remain in full force and effect during the modification of the permit.

2. This VWP permit may be modified upon the request of the permittee or upon department's initiative when any of the following developments occur:

    a. When new information becomes available about the project or activity covered by the VWP permit, including project additions or alterations, that was not available at VWP permit issuance and would have justified the application of different VWP permit conditions at the time of VWP permit issuance;

b. When a change is made in the promulgated standards or regulations on which the VWP permit was based;

c. When changes occur that are subject to "reopener clauses" in the VWP permit; or

d. When developments applicable to surface water withdrawals occur as specified in 9VAC25-210-380 of the Virginia Administrative Code.

3. When this VWP permit authorizes surface water withdrawals, it may be modified when any of the following developments occur:

   a. When the department determines that minimum instream flow levels resulting directly from the permittee's withdrawal of surface water are detrimental to the instream beneficial use, existing at the time of permit issuance, and the withdrawal of surface water should be subject to further net limitations or when an area is declared a surface water management area pursuant to §§ 62.1-242 through 62.1-253 of the Code of Virginia, during the term of the VWP permit.

   b. Significant changes to the location of the surface water withdrawal system are proposed such that the Department of Environmental Quality determines a new review is warranted due to the potential effect of the surface water withdrawal to existing beneficial uses of the new location.

   c. Changes to the permitted project or the surface water withdrawal, including increasing the storage capacity for the surface water withdrawal, that propose an increase in the maximum permitted withdrawal volumes or rate of withdrawal or that cause more than a minimal change to the instream flow requirements with potential to result in a detrimental effect to existing beneficial uses.

   d. A revision to the purpose of the surface water withdrawal that proposes to include a new use or uses that were not identified in the permit application or a modification of the existing authorized use or uses such that the use description in the permit application and permit is no longer applicable. Examples of uses include, but are not limited to agricultural irrigation, golf course irrigation, public water supply, manufacturing, and electricity generation.

4. When the permittee has submitted a timely and complete application for reissuance of an existing VWP individual permit, but through no fault of the permittee, the department does not reissue or reissue with conditions a VWP individual permit or the department does not provide notice of its tentative decision to deny the application before an existing VWP individual permit expires, the conditions of the expiring VWP individual permit shall be administratively continued in full force and effect until the effective date of a reissued permit or the date on which the deparment denies the application. Timely application shall be a minimum of 180 days for an individual permit or a minimum of 270 days for an individual permit for a surface water withdrawal, unless otherwise specified in the existing permit.

5. Any permittee desiring to continue a previously permitted activity after the expiration date of this VWP permit shall apply for and obtain a new permit or, if applicable, shall request an extension in accordance with 9VAC25-210-180 of the Virginia Administrative Code. Any permittee with an effective VWP permit for an activity that is expected to continue after the expiration date of the VWP permit, without any change in the activity authorized by the VWP permit other than as may be allowed under 9VAC25-210-180, shall submit written notification requesting an extension. The permittee must file the request ninety (90) days prior to the expiration date of the VWP permit. VWP permit modifications shall not be used to extend the term of a VWP permit beyond fifteen (15) years from the date of original issuance. When a permit term, other than that of an Emergency Virginia Water Protection Permit, is less than fifteen (15) years, an extension of the permit terms and conditions may be granted in accordance with 9VAC25-210-180. Emergency Virginia Water Protection Permits shall not exceed a duration of one year or shall expire upon the issuance of a regular Virginia Water Protection Permit, whichever comes first.

6. This VWP permit may be transferred to a new permittee only by modification to reflect the transfer, by revoking and reissuing the permit, or by automatic transfer. Automatic transfer to a new permittee shall occur if the current permittee: a) Notifies the department of the proposed transfer of the permit and provides a written agreement between the current and proposed permittees containing the date of transfer of VWP permit responsibility, authorization, and liability to the new permittee; and b) the department does not within fifteen (15) days notify the existing permittee of its intent to modify the VWP permit.

7. After notice and opportunity for a formal hearing pursuant to § 62.1-44.15:02 of the Code of Virginia, a VWP permit can be terminated for cause. Reasons for termination for cause are as follows:

   a. Noncompliance by the permittee with any condition of the VWP permit;

   b. The permittee's failure in the application or during the VWP permit process to disclose fully all relevant facts or the permittee's misrepresentation of any relevant facts at any time;

   c. The permittee's violation of a special or judicial order;

   d. A determination by the department that the permitted activity endangers human health or the environment and can be regulated to acceptable levels by VWP permit modification or termination;

   e. A change in any condition that requires either a temporary or permanent reduction or elimination of any activity controlled by the VWP permit; and

   f. A determination that the permitted activity has ceased and that the compensation for unavoidable adverse impacts has been successfully completed.

8. The department may terminate this permit without cause when the permittee is no longer a legal entity due to death, dissolution, or when a company is no longer authorized to conduct business in the Commonwealth. The termination shall be effective thirty (30) days after notice of the proposed termination is sent to the last known address of the permittee or registered agent, unless the permittee objects within that time. If the permittee does object during that period, the department shall follow the applicable procedures for termination under § 62.1-44.15:25 of the Code of Virginia and 9VAC25-230 of the Virginia Administrative Code.

9. This VWP permit may be terminated by consent, as initiated by the permittee. The permittee shall submit a request for termination by consent within thirty (30) days of completing or canceling all permitted activities and all required compensatory mitigation requirements. When submitted for project completion, the request for termination by consent shall constitute a notice of project completion. The director may accept this termination on behalf of the department. The permittee shall submit the following information:

   a. Name, mailing address, and telephone number;

   b. Name and location of the activity;

   c. The VWP permit number; and

   d. One of the following certifications:

      i. For project completion: "I certify under penalty of law that all activities and any required compensatory mitigation authorized by a VWP permit have been completed. I understand that by submitting this notice of termination that I am no longer authorized to perform activities in surface waters in accordance with the VWP permit, and that performing activities in surface waters is unlawful where the activity is not authorized by a VWP permit, unless otherwise excluded from obtaining a permit. I also understand that the submittal of this notice does not release me from liability for any violations of this VWP permit."

      ii. For project cancellation: "I certify under penalty of law that the activities and any required compensatory mitigation authorized by this VWP permit will not occur. I understand that by submitting this notice of termination that I am no longer authorized to perform activities in surface waters in accordance with the VWP permit, and that performing activities in surface waters is unlawful where the activity is not authorized by a VWP permit, unless otherwise excluded from obtaining a permit. I also understand that the submittal of this notice does not release me from liability for any violations of this VWP permit, nor does it allow me to resume the permitted activities without reapplication and issuance of another permit."

      iii. For events beyond permittee control, the permittee shall provide a detailed explanation of the events, to be approved by DEQ, and the following certification statement: "I certify under penalty of law that the activities or the required compensatory mitigation authorized by this VWP permit have changed as the result of events beyond my control (see attached). I understand that by submitting this notice of termination that I am no longer authorized to perform activities in surface waters in accordance with the VWP permit, and that performing activities in surface waters is unlawful where the activity is not authorized by a VWP permit, unless otherwise excluded from obtaining a permit. I also understand that the submittal of this notice does not release me from liability for any violations of this VWP permit, nor does it allow me to resume the permitted activities without reapplication and issuance of another permit.

E. Inspection and Entry

Upon presentation of credentials, the permittee shall allow the department or any duly authorized agent of the department, at reasonable times and under reasonable circumstances, to conduct the actions listed in this section. For the purpose of this section, the time for inspection shall be deemed reasonable during regular business hours. Nothing contained herein shall make an inspection time unreasonable during an emergency.

1. Enter upon any permittee's property, public or private, and have access to, inspect and copy any records that must be kept as part of the VWP permit conditions;

2. Inspect any facilities, operations or practices (including monitoring and control equipment) regulated or required under the VWP permit; and

3. Sample or monitor any substance, parameter, or activity for the purpose of ensuring compliance with the conditions of the VWP permit or as otherwise authorized by law.

F. Duty to Provide Information

The department may request (i) such plans, specifications, and other pertinent information as may be necessary to determine the effect of an applicant's discharge on the quality of state waters or (ii) such other information as may be necessary to accomplish the purposes of this chapter. Any owner, permittee, or person applying for a VWP permit or general permit coverage shall provide the information requested by the department.

G. Monitoring and Records Requirements

1. Monitoring of parameters, other than pollutants, shall be conducted according to approved analytical methods as specified in the VWP permit. Analysis of pollutants will be conducted according to 40 CFR Part 136 (2017), Guidelines Establishing Test Procedures for the Analysis of Pollutants.

2. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

3. The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart or electronic recordings for continuous monitoring

instrumentation, copies of all reports required by the VWP permit, and records of all data used to complete the application for the VWP permit, for a period of at least three (3) years from the date of permit expiration. This period may be extended by request of the department at any time.

4. Records of monitoring information shall include:

   a. The date, exact place and time of sampling or measurements;

   b. The name of the individuals who performed the sampling or measurements;

   c. The date and time the analyses were performed;

   d. The name of the individuals who performed the analyses;

   e. The analytical techniques or methods supporting the information such as observations, readings, calculations and bench data used;

   f. The results of such analyses; and

   g. Chain of custody documentation.

H. Property rights

The issuance of a VWP permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize injury to private property or any invasion of personal rights or any infringement of federal, state or local laws or regulations.

I. Reopener

This VWP permit may be reopened for the purpose of modifying the conditions of the VWP permit to meet new regulatory standards duly adopted by the board. Cause for reopening VWP permits includes, but is not limited to when the circumstances on which the previous VWP permit was based have materially and substantially changed, or special studies conducted by the department or the permittee show material and substantial change, since the time the VWP permit was issued and thereby constitute cause for VWP permit modification or revocation and reissuance.

J. Compliance with State and Federal Law

As to the permitted activity(ies), compliance with a VWP permit constitutes compliance with the VWP permit requirements of the Law and regulations.

K. Severability

The provisions of this VWP permit are severable.

L. Oil and Hazardous Substance Liability

Nothing in this VWP permit shall be construed to preclude the institution of legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under § 311 of the Clean Water Act or §§ 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

M. Unauthorized Discharge of Pollutants

Except in compliance with a VWP permit, unless the activity is otherwise exempted or excluded, no person shall dredge, fill, or discharge any pollutant into, or adjacent to surface waters; withdraw surface water; otherwise alter the physical, chemical, or biological properties of state waters regulated under this chapter and make them detrimental to the public health, to animal or aquatic life, or to the uses of such waters for domestic or industrial consumption, for recreation, or for other uses; excavate in wetlands; or on or after 1 October 2001, conduct the following activities in a wetland:

1. New activities to cause draining that significantly alters or degrades existing wetland acreage or functions;

2. Filling or dumping;

3. Permanent flooding or impounding; or

4. New activities that cause significant alteration or degradation of existing wetland acreage or functions.

Attachment 1: VWP PERMIT CONSTRUCTION STATUS UPDATE FORM

Permit Issuance: 23 December 2025

Send to: michael.mussomeli@deq.virginia.gov

This form shall be submitted and received by DEQ no later than 10 January 10 and 10 July of every year for the duration of this VWP permit, *regardless of construction status*.

Date (check one):

☐ June____, ________

☐ December _____, __________

VWP Individual Permit No.: 25-1277

Project Name and Location: Southeast Supply Enhancement Project – Eden Loop

Status within each authorized surface water impact location, as identified on *Attachment 21C – Overall Wetlands and Waters of the U.S. (WOTUS) Impact Map*, received on 6 June 2025 with revisions received through 6 August 2025.

(Check one of the following status options for each impact number/location.)

Authorized impact location	Construction activities not started	Construction activities started	Construction activities started but currently not active	Does this impact involve culvert(s)[1]?	Construction activities complete[2]

[1] Provide spot elevations of the stream bottom within the thalweg at the beginning and end of the pipe or culvert, extending to a minimum of 10 feet beyond the limits of the impact, with completion of all culvert installations.

[2] If all construction activities and compensatory mitigation requirements are complete, the permittee completes and signs the Termination Agreement section below within 30 days of last authorized activity and/or compensation completion. A completed and signed Agreement serves as Notice of Project Completion (9VAC25-210-130.F).

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation.

Authorized Signature: ______________________________________ Date: ______________________

Print Name: ______________________________________ Title: ______________________________

Phone: ________________________ Email: ____

Impact Construction Status Table Continued

Additional Page					
Authorized impact number	**Construction activities not started**	**Construction activities started**	**Construction activities started but currently not active**	**Does this impact involve culvert(s)[1]?**	**Construction activities complete[2]**

TERMINATION AGREEMENT BY CONSENT – PROJECT COMPLETION

Permittee Legal Name: ____

Permittee Legal Address: ____

Permittee Email/Phone: ____

I hereby consent to the termination of VWP Individual Permit No. 25-1277.

"I certify under penalty of law that all activities and any required compensatory mitigation authorized by a VWP permit have been completed. I understand that by submitting this notice of termination that I am no longer authorized to perform activities in surface waters in accordance with the VWP permit, and that performing activities in surface waters is unlawful where the activity is not authorized by a VWP permit, unless otherwise excluded from obtaining a permit. I also understand that the submittal of this notice does not release me from liability for any violations of this VWP permit."

Signature of Permittee's Authorized Representative: ____________________________ Date: ____________

Print Name: ____________________________________ Title: ____________________________

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

Attachment 2: MONTHLY VWP PERMIT INSPECTION CHECKLIST

An inspection of all permitted impact areas, avoided waters and wetlands, and permanently preserved waters, wetlands and upland areas must be conducted at least once every month during active construction activities. Maintain this record on-site and available for inspection by DEQ staff.

Project Name	**VWP Permit No.**	**Inspection Date**
Southeast Supply Enhancement Project	25-1277	
Inspector Name & Affiliation	**Phone # & Email Address**	

Based on my inspection, this project (☐ is in compliance / ☐ is not in compliance) with the above-referenced VWP Permit and the authorized impact map entitled *Attachment 21C – Overall Wetlands and Waters of the U.S. (WOTUS) Impact Map*, received on 6 June 2025 with amendments received through 6 August 2025.

I certify that the information contained in this report is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

_______________________________ _______________________

Signature of Inspector Date

	In Compliance?				
PERMIT REQUIREMENT	**Yes**	**No**	**Not Applicable**	**Location, Description, Notes & Corrective Action Taken (use additional note space below if needed)**	**Date Completed**
Surface water impacts are limited to the size and locations specified by the permit. No sedimentation impacts and no impacts to avoided surface waters or preservation areas have occurred[1].	☐	☐	☐		
Within 50 feet of authorized activities, all remaining surface waters and mitigation (preservation) areas that are inside the project area are clearly flagged or marked to prevent unpermitted impacts.	☐	☐	☐		
Authorized temporary impact areas have been restored to original contours, stabilized, and planted or seeded with original wetland vegetation type within 30 days of completing work in each area.	☐	☐	☐		
E&S controls consistent with the Virginia ESC Handbook are present and maintained in good working order.	☐	☐	☐		
Exposed slopes/stream banks have been stabilized immediately upon completion of work in each impact area, in accordance with the Virginia ESC Handbook.	☐	☐	☐		
Heavy equipment is placed on mats/ geotextile fabric when working in temporary wetland impact areas. Equipment and materials removed immediately upon completion of work.	☐	☐	☐		
Construction activities are not substantially disrupting the movement of aquatic life.	☐	☐	☐		
New instream pipes and culverts on <5% slope have been installed to maintain low flow conditions and are countersunk at both ends as follows: ≤ 24” diameter: countersunk 3” > 24” diameter: countersunk 6” or more. Any variations were approved in advance by DEQ.	☐	☐	☐		

[1] If unauthorized impacts have occurred, you **must** email or fax a copy of this report to DEQ within 24 hours of discovery.
Email: michael.mussomeli@deq.virginia.gov Phone: (804) 659-1986

	In Compliance?				
PERMIT REQUIREMENT	**Yes**	**No**	**Not Applicable**	**Location, Description, Notes & Corrective Action Taken (use additional note space below if needed)**	**Date Completed**
Time-of-year restrictions are being adhered to.	☐	☐	☐		
For stream channelization or relocation, work in surface waters is being performed in the dry, with all flows diverted until the new channel is stabilized.	☐	☐	☐		
Water quality monitoring is being conducted during permanent stream relocations.	☐	☐	☐		
Streams and wetlands are free from any sheen or discoloration that may indicate a spill of oil, lubricants, concrete or other pollutants.[2]	☐	☐	☐		

Inspection Notes

[2] Any fish kills or spills of fuels or oils shall be reported to DEQ immediately upon discovery at (540) 562-6700, brroprep@deq.virginia.gov. If DEQ cannot be reached, the spill or fish kill shall be reported to the Virginia Department of Emergency Management (VDEM) at 1-804-750-8845 or the National Response Center (NRC) at 1-800-424-8802. Any spill of oil as defined in § 62.1-44.34:14 of the Code of Virginia that is less than 25 gallons and that reaches, or that is expected to reach, land only is not reportable, if recorded per § 62.1-44.34:19.2 of the Code of Virginia and if properly cleaned up.

Appendix A

Impact Maps

Appendix B

Virginia Time of Year Restrictions

Virginia Time Of Year Restrictions
Southeast Supply Enhancement Project - Eden Loop

Crossing #	Stream Full ID	Waterbody Name [1]	Nearest Milepost	HUC12	HUC Name	Latitude	Longitude	Flow Regime	Stream Designation[2]	Field Stream Width (LF)	Construction Activity [3]	DWR TOYR / Request
VA-E-2	L001-1-VA	UNT to Dan River	1387.1	30101030903	Trotters Creek-Dan River	36.544430	-79.630763	Intermittent	Class III, PWS	2	Dry Open Cut	Waiver Requested
VA-E-3	L002-1-VA	UNT to Dan River	1387.3	30101030903	Trotters Creek-Dan River	36.546109	-79.629023	Perennial	Class III, PWS	4	Dry Open Cut	Waiver Requested
VA-E-5	L004-1-VA	UNT to Dan River	1387.9	30101030903	Trotters Creek-Dan River	36.553022	-79.622342	Perennial	Class III, PWS	5	Dry Open Cut	Waiver Requested
VA-E-6	~~L124-1-VA~~	~~UNT to Dan River~~	~~M-0402 1388.2~~	~~30101030903~~	~~Trotters Creek-Dan River~~	~~36.556529~~	~~-79.617908~~	~~Intermittent~~	~~Class III, PWS~~	~~2~~	~~Dry Open Cut~~	Impact Avoided by LOD reduction
	L124-2-VA	UNT to Dan River	M-0402 1388.2	30101030903	Trotters Creek-Dan River	36.556136	-79.617554	Perennial	Class III, PWS	4	Dry Open Cut	Waiver Requested
	L130-1-VA	UNT to Dan River	M-0402 1388.2	30101030903	Trotters Creek-Dan River	36.556418	-79.618062	Intermittent	Class III, PWS	3	Dry Open Cut	Waiver Requested
VA-E-11	L140-1-VA	UNT to Dan River	1388.7	30101030903	Trotters Creek-Dan River	36.560679	-79.612797	Intermittent	Class III, PWS	2	Dry Open Cut	Waiver Requested
VA-E-12	L139-1-VA	UNT to Dan River	1389.1	30101030903	Trotters Creek-Dan River	36.565848	-79.607686	Perennial	Class III, PWS	1	Dry Open Cut	Waiver Requested
VA-E-13	L142-1-VA	UNT to Dan River	1389.2	30101030903	Trotters Creek-Dan River	36.567322	-79.606255	Perennial	Class III, PWS	8	Dry Open Cut	Waiver Requested
VA-E-14	L144-1-VA	UNT to Dan River	1389.5	30101030903	Trotters Creek-Dan River	36.570401	-79.603425	Intermittent	Class III, PWS	1	Dry Open Cut	Waiver Requested
VA-E-15	L146-1-VA	Trotters Creek	1389.8	30101030903	Trotters Creek-Dan River	36.574016	-79.599707	Perennial	Class III, PWS, R, AQ	26	Dry Open Cut/TMB with support	TOYR April 15 - July 15
VA-E-16	L149-1-VA	UNT to Trotters Creek	1389.8	30101030903	Trotters Creek-Dan River	36.573666	-79.599931	Ephemeral	Class III, PWS	1	Dry Open Cut	Waiver Requested
VA-E-17	L148-1-VA	UNT to Trotters Creek	1389.9	30101030903	Trotters Creek-Dan River	36.574001	-79.599409	Ephemeral	Class III, PWS	3	Dry Open Cut/TMB with support	Waiver Requested
VA-E-19	L150-1-VA	UNT to Trotters Creek	1390	30101030903	Trotters Creek-Dan River	36.576311	-79.597220	Intermittent	Class III, PWS	2	Dry Open Cut	Waiver Requested
	L151-1-VA	UNT to Trotters Creek	1390.1	30101030903	Trotters Creek-Dan River	36.576848	-79.596832	Ephemeral	Class III, PWS	3	Dry Open Cut	Waiver Requested
VA-E-21	L128-1-VA	UNT to Trotters Creek	1390.9	30101030903	Trotters Creek-Dan River	36.585935	-79.588836	Ephemeral	Class III, PWS	2	Dry Open Cut	Waiver Requested
VA-E-22	~~L126-1-VA~~	~~UNT to Trotters Creek~~	~~1391~~	~~30101030903~~	~~Trotters Creek-Dan River~~	~~36.586982~~	~~-79.587098~~	~~Intermittent~~	~~Class III, PWS~~	~~2~~	~~Dry Open Cut~~	Impact Avoided by LOD reduction
	L126-2-VA	UNT to Trotters Creek	1391	30101030903	Trotters Creek-Dan River	36.587251	-79.587453	Perennial	Class III, PWS	3	Dry Open Cut	Waiver Requested
	~~L127-1-VA~~	~~UNT to Trotters Creek~~	~~1391~~	~~30101030903~~	~~Trotters Creek-Dan River~~	~~36.587098~~	~~-79.587042~~	~~Perennial~~	Class III, PWS	~~2~~	~~Field Avoidance~~	Impact Avoided by LOD reduction
VA-E-23	L029-1-VA	UNT to Trotters Creek	1391.3	30101030903	Trotters Creek-Dan River	36.590460	-79.583666	Intermittent	Class III, PWS	3	Dry Open Cut	Waiver Requested
VA-E-24	L030-1-VA	UNT to Trayner Branch	1391.6	30101030903	Trotters Creek-Dan River	36.593945	-79.579770	Ephemeral	Class III, PWS	1	Dry Open Cut	Waiver Requested
VA-E-25	L040-1-VA	UNT to Trayner Branch	1391.8	30101030903	Trotters Creek-Dan River	36.596000	-79.577644	Perennial	Class III, PWS	5	Dry Open Cut	Waiver Requested
	L041-1-VA	UNT to Trayner Branch	1391.8	30101030903	Trotters Creek-Dan River	36.595990	-79.577468	Intermittent	Class III, PWS	2	Dry Open Cut	Waiver Requested
VA-E-26	L037-1-VA	Trayner Branch	1392.1	30101030903	Trotters Creek-Dan River	36.599247	-79.574698	Perennial	Class III, PWS	8	Dry Open Cut/TMB with support	Waiver Requested
	L038-1-VA	UNT to Trayner Branch	1392.1	30101030903	Trotters Creek-Dan River	36.599284	-79.574580	Ephemeral	Class III, PWS	2	Dry Open Cut	Waiver Requested
--	L036-1-VA	UNT to Trayner Branch	1392.5	30101030903	Trotters Creek-Dan River	36.603686	-79.570738	Perennial	Class III, PWS	3	Dry Open Cut	Waiver Requested
~~VA-E-27~~	~~L039-2-VA~~	~~UNT to Trayner Branch~~	~~1392.5~~	~~30101030903~~	~~Trotters Creek-Dan River~~	~~36.601909~~	~~-79.566830~~	~~Intermittent~~	~~Class III, PWS~~	~~1~~	~~Field Avoidance*~~	Impact Avoided by LOD reduction
VA-E-28	L033-1-VA	UNT to Trayner Branch	1392.7	30101030903	Trotters Creek-Dan River	36.606701	-79.568336	Perennial	Class III, PWS	3	Dry Open Cut	Waiver Requested
VA-E-29	L042-1-VA	UNT to Sandy River	M-0402 1393.3	30101031003	Lower Sandy River	36.613817	-79.562587	Perennial	Class III	3	Dry Open Cut	Waiver Requested
VA-E-30	L043-1-VA	UNT to Sandy River	M-0402 1393.6	30101031003	Lower Sandy River	36.617592	-79.559988	Ephemeral	Class III	1	Dry Open Cut	Waiver Requested
	L043-2-VA	UNT to Sandy River	M-0402 1393.6	30101031003	Lower Sandy River	36.617304	-79.559680	Intermittent	Class III	1	Dry Open Cut	Waiver Requested
VA-E-31	L044-1-VA	UNT to Hardys Creek	1394.2	30101031003	Lower Sandy River	36.623605	-79.553093	Intermittent	Class III	3	Dry Open Cut/TMB with support	Waiver Requested
VA-E-32	L045-1-VA	UNT to Hardys Creek	1394.6	30101031003	Lower Sandy River	36.628354	-79.548510	Intermittent	Class III	1	Dry Open Cut	Waiver Requested
VA-E-33	L018-1-VA	UNT to Hardys Creek	1395	30101031003	Lower Sandy River	36.632984	-79.544193	Ephemeral	Class III	2	Timber Mat	Waiver Requested
Sandy River HDD	L019-1-VA	UNT to Hardys Creek	1395	30101031003	Lower Sandy River	36.633689	-79.542930	Perennial	Class III	4	HDD - Field Avoidance	Impact avoided via HDD
	L020-1-VA	UNT to Hardys Creek	1395.1	30101031003	Lower Sandy River	36.633835	-79.542770	Ephemeral	Class III	2	HDD - Field Avoidance	Impact avoided via HDD
	L021-1-VA	Sandy River	1395.3	30101031003	Lower Sandy River	36.635899	-79.540385	Perennial	Class III	70	HDD - Field Avoidance	Impact avoided via HDD
	L022-1-VA	Hardys Creek	1397.1	30101031003	Lower Sandy River	36.636234	-79.541032	Perennial	Class III	22	HDD - Field Avoidance	Impact avoided via HDD
	L023-1-VA	Silver Creek	1397.3	30101031003	Lower Sandy River	36.637303	-79.539633	Perennial	Class III	26	HDD - Field Avoidance	Impact avoided via HDD
	L024-1-VA	UNT to Sandy River	1395.4	30101031003	Lower Sandy River	36.637247	-79.537927	Intermittent	Class III	4	HDD - Field Avoidance	Impact avoided via HDD
	L024-3-VA	UNT to Sandy River	1395.4	30101031003	Lower Sandy River	36.636553	-79.538655	Perennial	Class III	5	HDD - Field Avoidance	Impact avoided via HDD
	L024-2-VA	UNT to Sandy River	1395.5	30101031003	Lower Sandy River	36.637960	-79.537122	Ephemeral	Class III	2	HDD - Field Avoidance	Impact avoided via HDD
	L025-1-VA	UNT to Sandy River	1395.5	30101031003	Lower Sandy River	36.637453	-79.537610	Intermittent	Class III	2	HDD - Field Avoidance	Impact avoided via HDD
	L025-2-VA	UNT to Sandy River	1395.5	30101031003	Lower Sandy River	36.637526	-79.537476	Ephemeral	Class III	1	HDD - Field Avoidance	Impact avoided via HDD
	L046-1-VA	UNT to Silver Creek	1395.5	30101031003	Lower Sandy River	36.638307	-79.538442	Intermittent	Class III	4	HDD - Field Avoidance	Impact avoided via HDD
	L047-1-VA	UNT to Sandy River	1395.5	30101031003	Lower Sandy River	36.638035	-79.536953	Ephemeral	Class III	3	HDD - Field Avoidance	Impact avoided via HDD
VA-E-34	L050-3-VA	UNT to Sandy River	1395.8	30101031003	Lower Sandy River	36.641267	-79.533671	Intermittent	Class III	3	Dry Open Cut	Waiver Requested
VA-E-36	L032-1-VA	UNT to Silver Creek	1396.8	30101031003	Lower Sandy River	36.652389	-79.522672	Perennial	Class III	4	Dry Open Cut	Waiver Requested
VA-E-37	L031-1-VA	UNT to Silver Creek	1396.9	30101031003	Lower Sandy River	36.653784	-79.521156	Perennial	Class III	3	Dry Open Cut	Waiver Requested
VA-E-38	L015-1-VA	UNT to Silver Creek	1397.1	30101031003	Lower Sandy River	36.656004	-79.519797	Intermittent	Class III	6	Timber Mat	Waiver Requested
VA-E-39	L007-1-VA	UNT to Silver Creek	1397.3	30101031003	Lower Sandy River	36.657735	-79.518446	Perennial	Class III	10	Dry Open Cut/TMB with support	Waiver Requested
VA-E-42	L090-1-VA	UNT to Sandy Creek	1398.2	30101031004	Sandy Creek (West)-Dan River	36.668385	-79.507698	Intermittent	Class III	3	Dry Open Cut	Waiver Requested
VA-E-43	L095-1-VA	UNT to Sandy Creek	1398.7	30101031004	Sandy Creek (West)-Dan River	36.673776	-79.502362	Perennial	Class III	7	Dry Open Cut	Waiver Requested
VA-E-44	L104-1-VA	UNT to Sandy Creek	1399.5	30101031004	Sandy Creek (West)-Dan River	36.682322	-79.493304	Perennial	Class III	7	Dry Open Cut	Waiver Requested
VA-E-45	L066-1-VA	Sandy Creek	1400.1	30101031004	Sandy Creek (West)-Dan River	36.689258	-79.486575	Perennial	Class III, AQ	11	Dry Open Cut/TMB with support	TOYR April 15 - July 15
VA-E-46	L062-1-VA	UNT to Sandy Creek	1401	30101031004	Sandy Creek (West)-Dan River	36.699106	-79.476871	Perennial	Class III	11	Dry Open Cut	Waiver Requested
VA-E-47	L061-1-VA	UNT to Sandy Creek	1401.2	30101031004	Sandy Creek (West)-Dan River	36.702262	-79.473783	Perennial	Class III	2	Dry Open Cut	Waiver Requested

Date: 8/11/2025

Revised: 8/14/2025

Virginia Time Of Year Restrictions

Southeast Supply Enhancement Project - Eden Loop

Crossing #	Stream Full ID	Waterbody Name [1]	Nearest Milepost	HUC12	HUC Name	Latitude	Longitude	Flow Regime	Stream Designation[2]	Field Stream Width (LF)	Construction Activity [3]	DWR TOYR / Request
VA-E-48	L060-1-VA	UNT to Sandy Creek	1401.6	30101031004	Sandy Creek (West)-Dan River	36.706116	-79.469929	Perennial	Class III	3	Dry Open Cut	Waiver Requested
VA-E-49	L058-1-VA	UNT to Sandy Creek	1401.7	30101031004	Sandy Creek (West)-Dan River	36.708024	-79.468332	Perennial	Class III	4	Dry Open Cut	Waiver Requested
VA-E-51	L008-1-VA	UNT to White Oak Creek	1402.7	30101050103	White Oak Creek-Banister River	36.719376	-79.457216	Ephemeral	Class III	1	Dry Open Cut	TOYR April 15 - July 15
	L008-2-VA	UNT to White Oak Creek	1402.8	30101050103	White Oak Creek-Banister River	36.719962	-79.457177	Intermittent	Class III	3	Dry Open Cut	TOYR April 15 - July 15
	L009-1-VA	White Oak Creek	1402.8	30101050103	White Oak Creek-Banister River	36.720377	-79.456716	Perennial	Class III	8	Dry Open Cut/TMB with support	TOYR April 15 - July 15
	L011-1-VA	UNT to White Oak Creek	1402.8	30101050103	White Oak Creek-Banister River	36.720216	-79.457027	Intermittent	Class III	2	Dry Open Cut	TOYR April 15 - July 15
VA-E-52	L010-1-VA	UNT to White Oak Creek	1403	30101050103	White Oak Creek-Banister River	36.721824	-79.454824	Perennial	Class III	3	Dry Open Cut	Waiver Requested
VA-E-54	L012-1-VA	UNT to White Oak Creek	1403.6	30101050103	White Oak Creek-Banister River	36.729154	-79.446578	Perennial	Class III	3	Dry Open Cut	Waiver Requested
VA-E-55	L013-1-VA	UNT to White Oak Creek	1404.1	30101050103	White Oak Creek-Banister River	36.735044	-79.441247	Perennial	Class III	6	Dry Open Cut	Waiver Requested
	L014-1-VA	UNT to White Oak Creek	1404.1	30101050103	White Oak Creek-Banister River	36.734837	-79.441416	Perennial	Class III	10	Dry Open Cut/TMB with support	TOYR April 15 - July 15
VA-E-57	L162-1-VA	UNT to White Oak Creek	M-0388 1404.8	30101050103	White Oak Creek-Banister River	36.741819	-79.434116	Perennial	Class III	1	Dry Open Cut	Waiver Requested
VA-E-58	L111-1-VA	UNT to White Oak Creek	1405.1	30101050103	White Oak Creek-Banister River	36.746287	-79.430108	Intermittent	Class III	2	Dry Open Cut	Waiver Requested
VA-E-59	L082-1-VA	UNT to White Oak Creek	1405.7	30101050103	White Oak Creek-Banister River	36.753262	-79.423964	Perennial	Class III	3	Dry Open Cut	Waiver Requested
VA-E-60	L080-1-VA	UNT to White Oak Creek	1405.8	30101050103	White Oak Creek-Banister River	36.754454	-79.423293	Perennial	Class III	2	Dry Open Cut	Waiver Requested
VA-E-61	L079-1-VA	UNT to White Oak Creek	1406.1	30101050103	White Oak Creek-Banister River	36.757515	-79.420038	Ephemeral	Class III	3	Timber Mat	Waiver Requested
VA-E-63	L076-1-VA	UNT to White Oak Creek	1406.4	30101050103	White Oak Creek-Banister River	36.760503	-79.416994	Intermittent	Class III	3	Field Avoidance*	Field Avoidance
VA-E-64	L073-1-VA	UNT to White Oak Creek	1407.1	30101050103	White Oak Creek-Banister River	36.768674	-79.408603	Ephemeral	Class III	3	Dry Open Cut/TMB with support	Waiver Requested
VA-E-65	L072-1-VA	White Oak Creek	M-0307 1407.6	30101050103	White Oak Creek-Banister River	36.773038	-79.399872	Perennial	Class III	15	Dry Open Cut/TMB with support	TOYR April 15 - July 15
Banister HDD	L103-1-VA	Banister River	M-0307 1408.8	30101050103	White Oak Creek-Banister River	36.779396	-79.386112	Perennial	Class III	45	HDD - Field Avoidance	Impact avoided via HDD
~~--~~	~~L105-1-VA~~	~~UNT to Banister River~~	~~1409.4~~	~~30101050103~~	~~White Oak Creek-Banister River~~	~~36.793344~~	~~-79.382188~~	~~Ephemeral~~	~~Class III~~	~~1~~	~~Field Avoidance*~~	Impact Avoided by LOD reduction
VA-E-66	L107-1-VA	UNT to Banister River	1409.4	30101050103	White Oak Creek-Banister River	36.792602	-79.381594	Intermittent	Class III	1	Dry Open Cut	Waiver Requested
VA-E-67	L092-2-VA	UNT to Banister River	M-0307 1409.5	30101050103	White Oak Creek-Banister River	36.788363	-79.385939	Perennial	Class III	3	Dry Open Cut	Waiver Requested
VA-E-69	L110-1-VA	Cherrystone Creek	1410.9	30101050104	Cherrystone Creek	36.808343	-79.363897	Perennial	Class III	23	Dry Open Cut/TMB with support	TOYR April 15 - July 15
	L112-1-VA	UNT to Cherrystone Creek	1410.9	30101050104	Cherrystone Creek	36.808474	-79.363918	Ephemeral	Class III	1	Dry Open Cut	Waiver Requested
VA-E-70	L113-1-VA	UNT to Cherrystone Creek	1411.2	30101050104	Cherrystone Creek	36.812051	-79.359834	Intermittent	Class III	4	Dry Open Cut/TMB with support	Waiver Requested
VA-E-71	L115-1-VA	UNT to Cherrystone Creek	1411.5	30101050104	Cherrystone Creek	36.815483	-79.356024	Perennial	Class III	2	Dry Open Cut	Waiver Requested
VA-E-73	L119-1-VA	UNT to Little Cherrystone Creek	M-0402 1412.1	30101050104	Cherrystone Creek	36.821156	-79.349375	Intermittent	Class III	2	Dry Open Cut	Waiver Requested
VA-E-74	L120-1-VA	UNT to Little Cherrystone Creek	M-0402 1412.1	30101050104	Cherrystone Creek	36.821130	-79.349328	Intermittent	Class III	1	Dry Open Cut/TMB with support	TOYR April 15 - July 15
	L121-1-VA	Little Cherrystone Creek	M-0312 1412.3	30101050104	Cherrystone Creek	36.823870	-79.347775	Perennial	Class III	13	Dry Open Cut/TMB with support	TOYR April 15 - July 15
	L122-1-VA	UNT to Little Cherrystone Creek	M-0312 1412.4	30101050104	Cherrystone Creek	36.823805	-79.347367	Intermittent	Class III	2	Dry Open Cut	TOYR April 15 - July 15
	L123-1-VA	UNT to Little Cherrystone Creek	M-0312 1412.4	30101050104	Cherrystone Creek	36.823990	-79.347352	Intermittent	Class III	3	Dry Open Cut	TOYR April 15 - July 15
	~~L125-1-VA~~	~~UNT to Little Cherrystone Creek~~	~~M-0312 1412.4~~	~~30101050104~~	~~Cherrystone Creek~~	~~36.824480~~	~~-79.346553~~	~~Perennial~~	~~Class III~~	~~1~~	~~Field Avoidance~~	Impact Avoided by LOD reduction
VA-E-75	L084-1-VA	UNT to Little Cherrystone Creek	1412.7	30101050104	Cherrystone Creek	36.828188	-79.343262	Perennial	Class III	1	Dry Open Cut	Waiver Requested
	L164-1-VA	UNT to Little Cherrystone Creek	1413	30101050104	Cherrystone Creek	36.830844	-79.341271	Perennial	Class III	2	Dry Open Cut	Waiver Requested
VA-E-77	L164-2-VA	UNT to Little Cherrystone Creek	1413	30101050104	Cherrystone Creek	36.831306	-79.339559	Intermittent	Class III	2	Dry Open Cut	Waiver Requested
--	L182-1-VA	UNT to Cherrystone Creek	1410.4	30101050104	Cherrystone Creek	36.801830	-79.367312	Intermittent	Class III	14	PRM - Access Road/In-Kind Culvert Replacment	Waiver Requested

Notes:

[1] For identified streams without a NHD (National Hydrography Dataset) name, the identified stream was given the name "Unidentified Tributary (UNT)", of the first named receiving waterbody

[2] PWS: Public water supplies
Class III: Non-Tidal Waters (Coastal and Piedmont Zone)
R: Recreation
AQ: Aquatic life
All streams withing the LOD are considered warm water habitat (WWH).

[3] Dry Open Cut construction activities includes timber mats to facilitate the installation of the pipeline.

Additional Notes:

- No tree felling will occur from April 1 to November 15.
- Attempt to remove structures between November 16 - March 31. If not feasible, structures may be removed between April 1 - November 15 with emergence count surveys.
- The Project does not intersect tributaries within one stream mile upstream of Dan River and Cascade Creek.
- Avoid the use of synthetic plastic erosion control matting.
- Strike-through indicates avoidance through LOD reduction.
- For stream crossings less than 10 feet in width, Transco anticipates that each dry open cut crossing can be completed within 24 hours, where practicable. For stream crossings wider than 10 feet, Transco anticipates that each dry open cut crossing can be completed in under 48 hours ,where practicable. Due to constructability constraints, some streams will exceed the 24 or 48 hour timeframes. However, for all crossings, Transco will not initiate instream crossing construction until sufficient equipment and material is staged on site. Additionally, once construction commences, Transco will operate continuously until the instream work is completed.

Date: 8/11/2025

Revised: 8/14/2025

Appendix C

Limit of Disturbance Greater Than 75 Feet in Resource

Attachment 12

Limits of Disturbance Greater than 75 Feet in Resource

Southeast Supply Enhancement Project

Approximate Milepost	Environmental Feature ID (as applicable)	Feature Type	Justification
1388.41	E1-W224-VA	PEM	ATWS required to store excess spoil from the excavations for the installation of the PI's and the adjacent stream and wetland crossing. Additional material must be excavated for completion of the tie-ins at both of the adjacent PI locations. Transco is evaluating workspace refinements/ reassignments at this ATWS and will provide additional information in a supplemental filing.
1395.00	E1-L018-VA	Ephemeral	Expanded work area required for HDD entry site.
1395.00	E1-W042-VA	PEM	Expanded work area required for HDD entry site.
1397.22	E1-L007-VA	Perennial	ATWS is required to facilitiate installation of dam and pump for stream crossing and for restoration of stream.
1402.80	E1-L009-VA	Perennial	ATWS is required to facilitiate installation of dam and pump for stream crossing and for restoration of stream banks.
1402.80	E1-W024-VA	PFO	ATWS is required to facilitiate installation of dam and pump for stream crossing and for restoration of stream banks.
1403.00	E1-L010-VA	Perennial	ATWS is required for spoil storage adjacent to the steep slopes. The wetland is located at the base of a steep embankment that will be graded down for safe equipment access and pipeline installation. There is minimal space available for spoil storage up on top of the embankment, and spoil will need to be stored at the base of the hill.
1403.00	E1-W030-VA	PFO	ATWS is required for spoil storage adjacent to the steep slopes. The wetland is located at the base of a steep embankment that will be graded down for safe equipment access and pipeline installation. There is minimal space available for spoil storage up on top of the embankment, and spoil will need to be stored at the base of the hill.
1403.00	E1-W029-VA	PEM/PFO	ATWS is required for spoil storage adjacent to the steep slopes. The wetland is located at the base of a steep embankment that will be graded down for safe equipment access and pipeline installation. There is minimal space available for spoil storage up on top of the embankment, and spoil will need to be stored at the base of the hill.
M-0388 1404.7	E2-W272-VA	PEM/PSS/PFO/POW	ATWS required for the construction of the pond crossing.
M-0307 1407.53	E1-W131-VA	PFO	ATWS required to safely complete the railroad crossing, which is elevated, and immediately adjacent to the lower lying wetlands. There is a narrow strip of usable, upland area outside of the wetland boundary and outside of the railroad right of way in which to stage machinery, personnel, dewatering pumps, trenchboxes, welding equipment, etc, as well as spoils from the bore pit. The ATWS will be timber matted to reduce disturbance and minimize the risk of soil leaving the workspace. Utilization of this ATWS will minimize impacts (compaction) of the wetland travel lane via reduction of heavy equipment tracking back and forth through the travel lane to relay materials in and out of bore pit area.
1411.22	E1-L113-VA	Intermittent	ATWS is required for the large wetland and stream crossing in order to safely and efficiently store the excavated spoil materials and equipment to facilitate the crossings. Crossing of the large wetland and stream complex will require additional material handling, staging of mats and pumps, and workspace to store spoil for tie-in bellholes. The workspace was designed to maximize the use of existing cleared right of way and flat area.
1411.24	E1-W207-VA	PEM	ATWS is required for the large wetland and stream crossing in order to safely and efficiently store the excavated spoil materials and equipment to facilitate the crossings. Crossing of the large wetland and stream complex will require additional material handling, staging of mats and pumps, and workspace to store spoil for tie-in bellholes. The workspace was designed to maximize the use of existing cleared right of way and flat area.

Notes:

[a] ATWS setbacks from waterbodies and wetlands were carefully scrutinized to minimize impacts to the extent practicable. Direct impacts to waterbodies and wetlands were minimized through reductions to the construction ROW width; however, as a result, ATWS are required at a reduced offset from the environmental feature to facilitate the pipeline crossing. In certain locations, ATWS offsets have been reduced due to topographic constraints or pipeline crossovers.

Key:

N/A = Not Applicable