

WETLAND BIOLOGICAL CONDITIONS ENVIRONMENTAL AUDITOR REPORT

Version 2.2



Wetland ID: W-B24-PEM	Crossing Start Date: 12/14/2023	Crossing Completion Date: 01/02/2024
Milepost: 245.9	Pre-Con Assessment Date: 11/24/2023	Post-Con Assessment Date: 01/02/2024
Station: 12992+93	Cowardin Classification: PEM (PEM, PFO, PSS, POW)	Wetland Impact Area (sq ft.): 4491.04
County: Roanoke		

Item #	Resource Crossing Conditions	N/A	YES	NO
1.	Were equipment mats or other suitable methods utilized under heavy equipment to minimize soil compaction and disturbance in wetlands?		X	
2.	Was the existing vegetation removed prior to initiating land disturbance within the resource?		X	
3.	Was the top 1-foot (12-inches) of wetland soil segregated and stockpiled separate from trench spoils?		X	
4.	Was excess material not needed for backfill removed and disposed of in an upland area?		X	
5.	Was the top 12-inches of backfill made with clean native wetland topsoil?		X	
6.	Were standard decompaction practices (disking, plowing, cultivating, tilling, or incorporation of organic matter into the topsoil horizon) implemented prior to applying seed?		X	
7.	Was wetland topsoil replaced and temporarily seeded?		X	
8.	Was permanent seed applied to unsaturated wetlands?		X	
9.	Was equipment/timber matting removed from the wetland area properly by vertically lifting, and not pulling through the impact area.		X	
10.	Were impervious trench breakers/plugs properly installed within 25-feet of the resource to prevent subsurface erosion to or from the resource area?		X	
11.	Was the pre-construction survey data provided and utilized during restoration in attempt to maintain the original surface hydrology, and were contours re-established to pre-construction conditions to maintain overland flow patterns?		X	
12.	Have civil surveys been scheduled to verify as-built conditions meet pre-construction conditions in accordance with the project Mitigation Framework and federal/state permit requirements?		X	
13.	Was the time of disturbance minimized by conducting resource work continuously to completion?		X	
14.	Does the post-construction square footage of wetland area appear to be restored to meet or exceed the pre-construction area square footage?		X	
15.	Are bareroot saplings required and/or scheduled to be planted for the dormant season (10/1 – 4/30) in PFO classified wetlands?	X		
16.	Did any unauthorized discharges to unpermitted resources occur during the crossing? If so, explain the corrective actions implemented in the Comments section and include additional photos.			X

Item #	Biological Conditions	Pre-Con	Post-Con
17.	Wetland Saturation: <i>Are surface waters, the water table, and/or overall soil saturation present? (Select Yes or No)</i>	No	No
18.	Resource Alterations: <i>Are the wetland soil conditions visibly disturbed?</i> Examples: <i>Livestock presence, haul roads, farm traffic, drain tiles, recent mowing/clear cutting, recent excavating/disking of soils, etc.</i> Rating: <i>1-Negligible (undisturbed/natural resource), 2-Minor (20-40% of resource disturbed by alterations), 3-Moderate (40-80% of resource disturbed), 4-Poor (>80% of resource disturbed)</i>	1 - Negligible	1 - Negligible
19.	Is vegetation present within the permitted impact area prior to disturbance? (Pre-Con) Are areas properly seeded and stabilized after restoration? (Post-Con) Rating: <i>1-Optimal (60-100% heavy vegetative cover), 2-Sub-optimal (30-60% mixed vegetative coverage), 3-Marginal (<30% vegetative coverage), 4-Poor (Mowed/maintained area or farmland, impervious area, sparsely vegetative coverage, etc.)</i>	2 - Suboptimal	1 - Optimal

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Comments/Remarks

11/24/23: The Pre-Construction meeting was held and the Pre-Construction assessment was completed. MVP EI on-site is Chris Seymour & Precision Foreman is Sam Grey. This resource is being crossed in conjunction with resources S-B21 and W-B24-PSS. The preexisting dewatering structure was turned parallel to the ROW to make more space for extending the trench pit. -A. Thorpe

11/25/23: Part of W-B24-PSS was topsoiled to expose the top of the pipe for engineering access. -A. Thorpe

11/26/23: Survey came out and verified wetland and stream staking. Dewatering structure continues to function properly. -A. Thorpe

11/27/23: The preexisting bore pit was partially backfilled to reroute the timber mat bridge for easier equipment access. -A. Thorpe

11/28/23 & 11/29/23: Construction activity continues on the B25 crossings up the ROW before beginning this crossing. -A. Thorpe

11/30/23: E&S tasks were completed to prepare for the coming rain. -A. Thorpe

12/1/23: Half rain out / half upland workday. No work activity performed in the resources. -N. Phillip

12/2/23: The rest of the timber mats were removed from W-B24-PSS and the area was stabilized with straw. -A. Thorpe

12/4/23-12/13/23: Construction activity continues up the ROW in W-B25-PEM-1. A. Thorpe

12/14/23: Another informal Pre-Construction meeting was held to refresh the plan for this crossing. The CIS buffer was stripped and then the topsoil from W-B24-PEM was removed and segregated separate from trench spoils. Equipment mats were placed on the stripped wetland to remove the CIS 10 foot buffer for S-B21, which is part of W-B24-PEM. The stream bed substrate was removed and segregated. The other half of the topsoil for W-B24-PSS was removed (the first half was removed on 11/25/23) as well as the GAS 10 foot buffer for S-B21. Trench excavation then began through all 3 resources. -A. Thorpe

12/15/23: Excavation was completed and the GAS trench box was installed in W-B24-PSS. The ditch line was padded and the pipe was lowered in. Welding began. -A. Thorpe

12/16/23: QA/QC was completed on the weld. The pipe was padded with dirt and the stream section was completely backfilled with subsoil. The impervious trench breaker on the GAS was constructed with bentonite bags. The resource areas were prepped for the coming rain. -A. Thorpe

12/18/23: Subsoil backfill was completed and the top 12-inches of fill was made of clean, native wetland topsoil that was decompacted after being placed. Survey verified the final grade and the topsoil was seeded with wetland mix and stabilized with straw. CFS was placed along the boundary. S-B21 was also completely restored and restoration of W-B24-PSS will be completed after the trench box is removed. -S. Frost

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12/19/23: Restoration continues within W-B24-PSS. Excavation of the upland trench begins within the CIS buffer. The CIS trench breaker for W-B24-PEM is still needed and will be constructed once the upland pipe section is tied in. -A. Thorpe

12/20/23: The upland trench was completely excavated. The pipe will be lowered in tomorrow. -A.Thorpe

12/21/23: The pipe was lowered into the ditch and welding began. -A. Thorpe

12/22/23: Welding and QA/QC continues. The CIS TB will be constructed once welds are finalized after the holiday break. -A. Thorpe

12/23/23-12/26/23: Construction activity was halted for the holiday break. -A. Thorpe

12/27/23: Construction activity was halted for unfavorable weather conditions. -A. Thorpe

12/28/23: Upland maintenance from rain events and repairs to E&S controls from the rain event. Preparing for the final weld. -A. Thorpe

12/29/23: Finalized the weld. -A. Thorpe

12/30/23: The weld was X-rayed, coated, and jeepled. Padding and backfilling subsoil began in the trench closest to the W-B25-PSS-2 boundary. -A. Thorpe

12/31/23: The impervious trench breaker on the CIS was constructed with bentonite bags. Subsoil backfill was completed. -A. Thorpe

1/2/23: Topsoil was returned to the CIS 50-foot buffer and stabilized. The Post-Construction assessment and Post-Construction photos were completed. No impacts to biological conditions or unauthorized discharges were observed during the crossing activities. -A. Thorpe

In accordance with the Mountain Valley Pipeline Consent Decree, dated October 11, 2019, this independent report was completed to document the on-site monitoring of instream invertebrate and fisheries resources during all construction activity related to waterbody and wetland crossings, and document instream conditions and any impacts to the resources.

This report was written by	Alessandra Thorpe <hr style="width: 80%; margin: 0 auto;"/> <i>Print Name</i>	 <hr style="width: 80%; margin: 0 auto;"/> <i>Signature</i>	01/06/2024 <hr style="width: 80%; margin: 0 auto;"/> <i>Date</i>
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Required Photos



Photo Description: View of permitted resource impact area during pre-construction assessment.



Photo Description: At edge of LOD, view of unpermitted resource area conditions during pre-construction assessment.



Photo Description: View of permitted resource impact area during post-construction assessment.

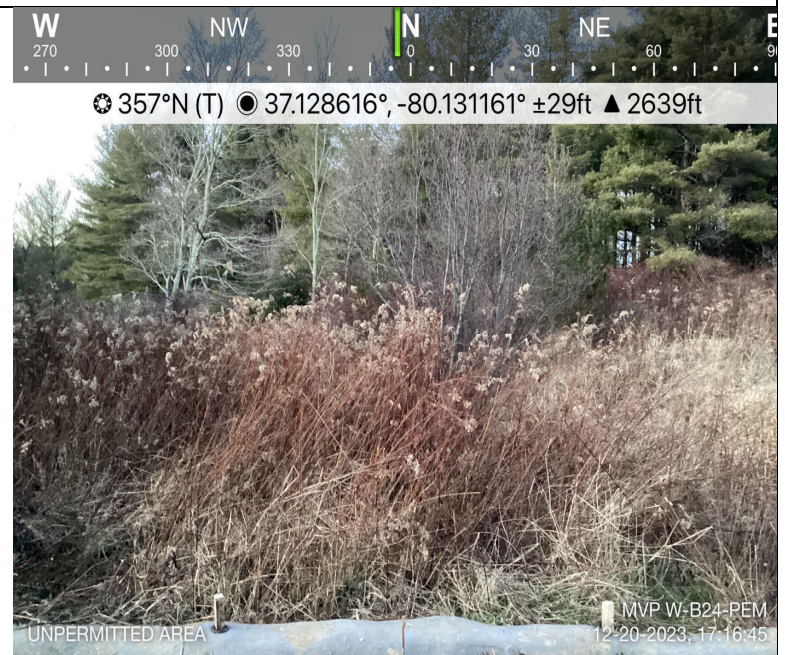


Photo Description: At edge of LOD, view of unpermitted resource area conditions during post-construction assessment.

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Optional Additional Photos

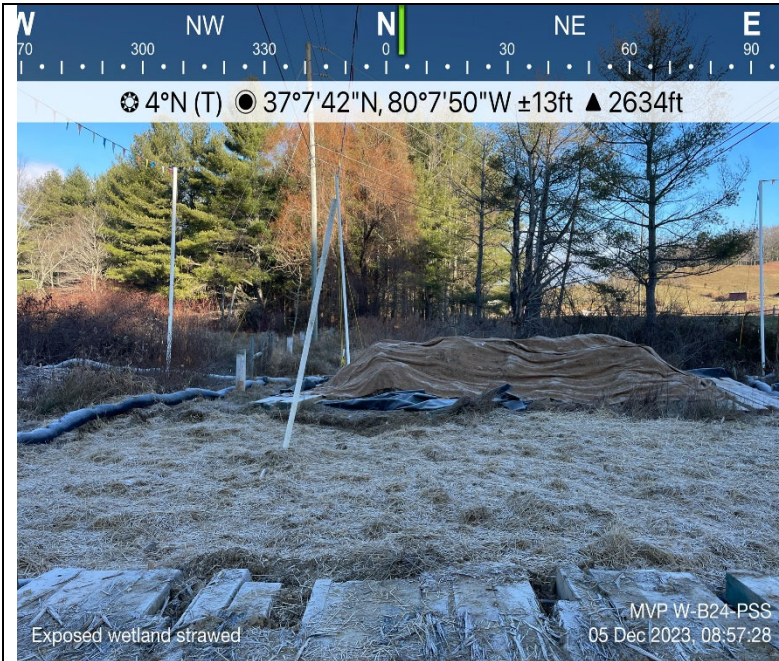


Photo Description: Wetland topsoil stockpiles stabilized with straw matting.



Photo Description: Subsoil backfill in wetland impact area.

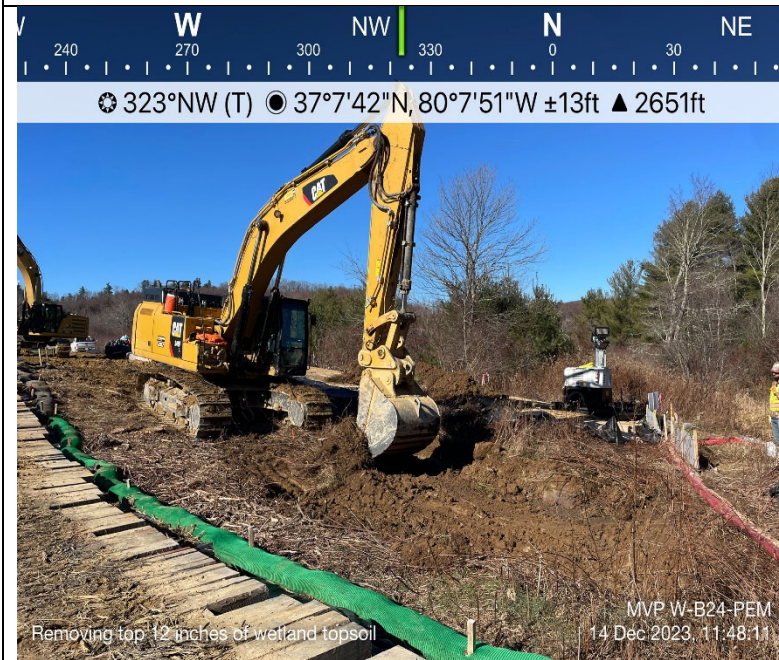


Photo Description: Removal of top 12-inches of wetland topsoil from within impact area.



Photo Description: Restored wetland impact area.