

WETLAND BIOLOGICAL CONDITIONS ENVIRONMENTAL AUDITOR REPORT

Version 2.2



Wetland ID: W-D7-PEM	Crossing Start Date: 12/12/2023	Crossing Completion Date: 12/16/2023
Milepost: 248.8	Pre-Con Assessment Date: 12/04/2023	Post-Con Assessment Date: 12/20/2023
Station: 13146+55	Cowardin Classification: PSS (PEM, PFO, PSS, POW)	Wetland Impact Area (sq ft.): 692.6
County: Franklin		

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: Are surface waters, the water table, and/or overall soil saturation present? (Select Yes or No)	Yes	Yes
18.	Resource Alterations: Are the wetland soil conditions visibly disturbed? Examples: Livestock presence, haul roads, farm traffic, drain tiles, recent mowing/clear cutting, recent excavating/disking of soils, etc. Rating: 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)	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: 1-Optimal (60-100% heavy vegetative cover), 2-Suboptimal (30-60% mixed vegetative coverage), 3-Marginal (<30% vegetative coverage), 4-Poor (Mowed/maintained area or farmland, impervious area, sparsely vegetative coverage, etc.)	3 - Marginal	3 - Marginal

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Comments/Remarks

El on-site is Austin Malnar.

12/04/23- The pre-construction meeting and the pre-construction assessment was completed. Survey staked the wetland boundaries at the pre-construction meeting. The wetland topsoil will be placed on geotech and timber mats and segregated from the stream substrate. The dewatering structure will be built in a work box area outside of the 50-foot buffer. The Coming In Side (C.I.S.) is considered a steep slope area and will be stabilized with Kerlex daily to prevent erosion. - S. Frost

12/05/23- No work was conducted in the resource. The environmental crew was onsite to install erosion control devices (EDC) and the dewatering structure. No impacts to the biological conditions were observed. - S. Frost

12/06/23- No work in the resource. Construction of the dewatering structure was completed. Loose end excavation on the Going Away Side (G.A.S.) has begun. Welding of the stream section of the pipe in an upland area has begun. No impacts to the resource were observed. - S. Frost

12/07/23- No work in the resource. Trenching outside of the 50-foot buffer on the G.A.S. of the resources. Welding, X-ray, coating, and jeeeping continues on the stream section of the pipe in the upland area. No impacts to the resource were observed. - S. Frost

12/08/23- No work in the resource. Trenching was completed. Pipe padding was installed, and the pipe was installed in the trench outside of the 50-foot buffer on the G.A.S. Partial backfill began outside of the 50-foot buffer. Welding, x-ray, coating, and jeeeping continues on the stream section of the pipe in the upland area. No impacts to the resource were observed. - S. Frost

12/09/23- No work in the resource. Backfilling was completed outside of the 50-foot buffer. Final welds, x-ray, coating, and jeeeping were completed on the stream section of pipe. The travel lane on the ROW was kept closed due to an impending rain event and steep slope restrictions. All the ECDs are in place to prevent erosion during the rain event. No impacts to the resource were observed. - S. Frost

12/11/23- No work in the resources. The top 12-inches of topsoil in the 50-foot buffer were removed and segregated in an upland area. Preparations are underway to begin resource crossing on 12/12/23. No impacts to the resources were observed. - S. Frost

12/12/23- The top 12-inches of wetland topsoil was removed and segregated in an upland area on geotech and timber mats. The segregated topsoil was stabilized and labeled. Trenching has begun and the subsoil was relayed to an upland area and stockpiled for backfilling. Preparations for lowering in the stream section of pipe were made. ECDs were installed along the edge of the

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wetland and trench to prevent erosion and/or potential impacts. Flumes were installed to replace the use of pumps. No impacts to the biological conditions were observed. - S. Frost


12/13/23- Trenching continues. The welding rigs were installed in preparation for the PI and stream section of pipe to be laid into the trench and tied in on the G.A.S. Lowering in of the 90-degree turning PI outside of the 50-foot buffer and welding began. No impacts to the biological conditions were observed. - S. Frost

12/14/23- The resource section of pipe was laid into the trench and welding began on the G.A.S. outside of the 50-foot buffer. No impacts to biological conditions were observed. - S. Frost

12/15/23- X-ray was started for the PI weld. Trench breakers were installed on the C.I.S. of the resources. Backfilling of the subsoil began outside of the 10-foot buffer. X-rays on the G.A.S were completed. The subsoil backfill was completed. Restoration will begin on 12/16/23. No impacts to the biological conditions were observed. - S. Frost

12/16/23- Survey shot grade to restore the wetland topsoil. The top 12-inches of topsoil was replaced and contoured to final grade. Seed and clean straw was applied to the topsoil for stabilization. No impacts to biological conditions were observed. No unauthorized discharges were observed or reported during construction. - S. Frost

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.

<p><i>This report was written by</i></p>	<p align="center">Summer Frost <hr/><i>Print Name</i></p>	<p align="center"> <hr/><i>Signature</i></p>	<p align="center">12/20/2023 <hr/><i>Date</i></p>
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Required Photos

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

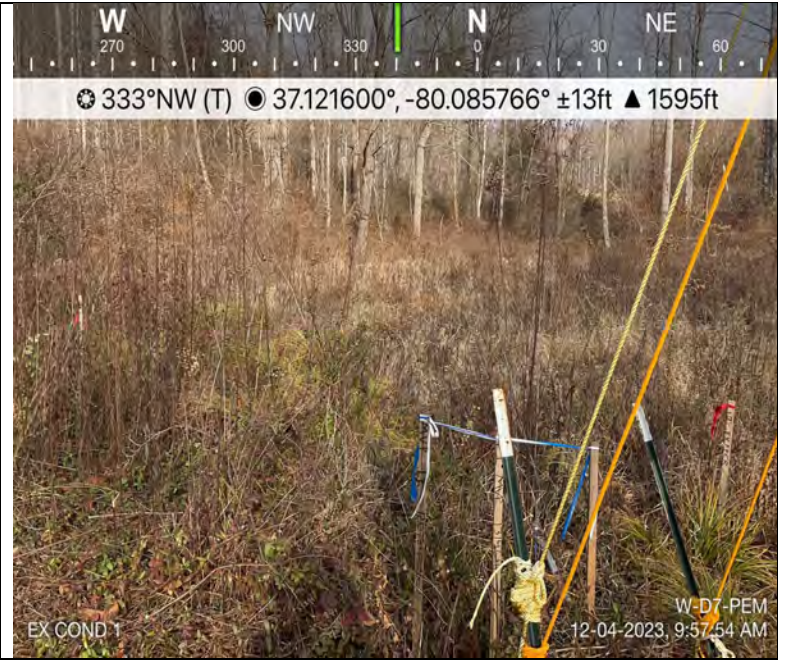


Photo Description: At edge of LOD, view of unpermitted resource area conditions during pre-construction assessment.



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.

Optional Additional Photos

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Photo Description: An overview of the dewatering structure.



Photo Description: Removal of top 12-inches of wetland topsoil.



Photo Description: Segregated and stabilized wetland topsoil.



Photo Description: Survey shooting the final grade for wetland topsoil restoration.