



Wetland Biological Conditions EA Report

Project Name	H-600 Pipeline Spread A	AFE	124300129	Spread	H-600 Pipeline Spread A
Contractor	Precision	Report #	53		
Environmental Auditor	Devin Jen			Date/Time	9/11/2023 8:57 AM
Wetland ID	W-K45	Crossing Start Date	9/11/2023	Crossing Completion Date	9/16/2023
Milepost	32.41	Pre-Con Assessment Date	9/11/2023	Post-Con Assessment Date	9/16/2023
Station	1711+25	Cowardin Classification	PEM	Wetland Impact Area(acres)	0.0401
State	WV				
County	Doddridge				

Resource Post-Crossing Conditions

1	Were equipment mats or other suitable methods utilized under heavy equipment to minimize soil compaction and disturbance in wetlands?	Yes
2	Was the existing vegetation removed prior to initiating land disturbance within the resource?	Yes
3	Was the top 1-foot (12-inches) of wetland soil segregated and stockpiled separate from trench spoils?	Yes
4	Was excess material not needed for backfill removed and disposed of in an upland area?	Yes
5	Was the top 12-inches of backfill made with clean native wetland topsoil?	Yes
6	Were standard decompaction practices (disking, plowing, cultivating, tilling, or incorporation of organic matter into the topsoil horizon) implemented prior to applying seed?	Yes
7	Was wetland topsoil replaced and temporarily seeded?	Yes
8	Was permanent seed applied to unsaturated wetlands?	Yes
9	Was equipment/timber matting removed from the wetland area properly by vertically lifting, and not pulling through the impact area?	Yes
10	Were impervious trench breakers/plugs properly installed within 25-feet of the resource to prevent subsurface erosion to or from the resource area?	Yes
11	Was the pre-construction survey data 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?	Yes
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?	Yes
13	Was the time of disturbance minimized by conducting resource work continuously to completion?	Yes
14	Does the post-construction square footage of wetland area appear to be restored to meet or exceed the pre-construction area square footage?	Yes
15	Are bareroot saplings required and/or scheduled to be planted for the dormant season (10/1 – 4/30) in PFO classified wetlands?	N/A
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.	No

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		4
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-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.)	1		4

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Additional Notes

9/11/2023
 The weather on 9/11/2023 had a high of 78°F and was partly cloudy, however, the weather fluctuated throughout the day. The crew removed the top 12 inches of wetland soil, as well as the top 12 inches of the abutting streambed substrate. The topsoil was segregated from the trench spoils. The crew began excavation on the trench.

9/12/2023
 The weather on 9/12/2023 had a high of 79°F and was partly cloudy, however, the weather fluctuated throughout the day. The crew continued excavation of the trench.


9/13/2023
 The weather on 9/13/2023 had a high of 74°F and was partly cloudy, however, the weather fluctuated throughout the day. The crew continued trench excavation, placed sandbags, and positioned the pipe in the area of the wetland crossing. The welding crew completed the weld to the north of the wetland crossing.

9/14/2023
 The weather on 9/14/2023 had a high of 72°F and was partly cloudy, however, the weather fluctuated throughout the day. The crew built trench breakers and added pea gravel in the area of the wetland crossing.

9/15/2023
 The weather on 9/15/2023 had a high of 74°F and was clear, however, the weather fluctuated throughout the day. The crew began backfilling in the area of the wetland crossing.

9/16/2023
 The weather on 9/16/2023 had a high of 75 °F and was clear, however, the weather fluctuated throughout the day. The contractor completed restoration of the wetland after backfilling and replacing segregated wetland topsoil. Conditions 18 and 19 were given a rating of 4 during the post-construction assessment due to the lack of vegetation in the disturbed permitted impact area following the completion of the crossing and restoration efforts. The W-K45 PEM wetland topsoils have been properly stabilized and the disturbed area has been seeded with the appropriate permanent seed mix in accordance with Appendix B: Restoration Work Plan of the Mountain Valley Pipeline Comprehensive Stream and Wetland Monitoring, Restoration and Mitigation Framework.

In accordance with the Mountain Valley Pipeline Comprehensive Stream and Wetland Monitoring, Restoration and Mitigation Framework, 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.

Name	Signature	Company	Date
Devin Jen		ERM	9/18/2023

Required Photos					
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GPS Location	See photograph.	GPS Location	See photograph.
Description	View of permitted resource impact area during pre-construction assessment.	Description	At edge of LOD, view of unimpacted resource area conditions during pre-construction assessment.



GPS Location	See photograph	GPS Location	See photograph
Description	View of permitted resource impact area during post-construction assessment.	Description	At edge of LOD, view of unimpacted resource area conditions during post-construction assessment.



GPS Location	See photograph.	GPS Location	See photograph.
Description	The photo taken on 9/12/2023 shows the progress of the trench excavation.	Description	The photo shows the pipe and sandbags placed in the area of the wetland crossing at the end of the workday on 9/13/2023.

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Optional Photos



GPS Location	See photograph.	GPS Location	
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Description	The photo shows the trench breakers and pea gravel in the area of the wetland crossing on 9/14/2023.	Description	The photo shows the progress of backfilling towards the end of the day on 9/15/2023.
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Insert image here	Insert image here
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GPS Location		GPS Location	
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Description		Description	
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Insert image here	Insert image here
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