



Wetland Biological Conditions EA Report

Project Name	H-600 Pipeline Spread D	AFE	124300132	Spread	H-600 Pipeline Spread D
Contractor	Precision	Report #	103		
Environmental Auditor	Todd Grant			Date/Time	10/26/2023 9:57 AM
Wetland ID	W-111a	Crossing Start Date	10/24/2023	Crossing Completion Date	10/27/2023
Milepost	127.00	Pre-Con Assessment Date	10/24/2023	Post-Con Assessment Date	10/28/2023
Station	6705+58	Cowardin Classification	PEM	Wetland Impact Area(acres)	0.0579
State	WV				
County	Nicholas				

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)	No		No
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

10/24/2023 - The top 12" of soil was stockpiled on plastic inside the wetland boundary on the non-working side of the ditch. The subsoil was relayed up the right of way (ROW) and stockpiled separately in an upland area, while welding operations were being conducted on top of the hill along the access road.


10/25/2023 Ditching operations continued on the coming in side (CIS) of wetland W-I11a. Large piles of boulders were being hammered and relocated up the ROW to make space for spoil piles. The trench was padded with sandbags, while welding and x-ray activities continued on the top of the hill. Coating and rock shields were applied to the pipe in preparation for lowering in. The contractor lowered in the pipe across wetland W-I11a and stream S-I41, then started constructing trench breakers and padding pipe.

10/26/2023 Padding and backfilling of the ditch was completed through wetland W-I11a between the trench breakers at Sta. #6705+68 and Sta. #6706+32. The top 12" of wetland soil was replaced and the contractor made all efforts to contour the area without over compacting the soil. Survey confirmed that all elevations and contours met preconstruction specifications, while an environmental crew started installing super silt fence.

10/27/2023 – An environmental crew completed the installation of super silt fence across the ROW at the wetland boundaries to complete the wetland crossing.

Biological conditions 18 and 19 were given a rating of 4 due to the lack of vegetation in the disturbed permitted impact area following the crossing and restoration efforts. Wetland W-I11a PEM topsoil 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
Todd Grant		SWCA	10/28/2023

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Required Photos

			
GPS Location	See photo above	GPS Location	See photo above
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 photo above	GPS Location	See photo above
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 photo above	GPS Location	See photo above
Description	View of the removal and segregation of the top 12 inches of wetland soil.	Description	View of the contractor excavating ditch through wetland W-111a.

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Optional Photos

			
GPS Location	See photo above	GPS Location	See photo above
Description	View of the ditch through wetland W-111a.	Description	View of segregated wetland topsoil.
			
GPS Location	See photo above	GPS Location	See photo above
Description	View of the pipe lowered in through wetland W-111a.	Description	View of the pipe in wetland W-111a being padded at the CIS trench breaker.
			
GPS Location	See photo above	GPS Location	See photo above
Description	View of the top 12" of wetland soil being replaced.	Description	View of the contractor environmental crew installing super silt fence at wetland boundaries.