



# Wetland Biological Conditions EA Report

<b>Project Name</b>	H-600 Pipeline Spread B	<b>AFE</b>	124300130	<b>Spread</b>	H-600 Pipeline Spread B
<b>Contractor</b>	Precision	<b>Report #</b>	108		
<b>Environmental Auditor</b>	Samantha Felix			<b>Date/Time</b>	10/12/2023 4:13 PM
<b>Wetland ID</b>	W-J23	<b>Crossing Start Date</b>	10/13/2023	<b>Crossing Completion Date</b>	10/25/2023
<b>Milepost</b>	43.29	<b>Pre-Con Assessment Date</b>	10/11/2023	<b>Post-Con Assessment Date</b>	10/25/2023
<b>Station</b>	2285+79	<b>Cowardin Classification</b>	PEM	<b>Wetland Impact Area(acres)</b>	0.0130
<b>State</b>	WV				
<b>County</b>	Lewis				

### 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	<b>Wetland Saturation:</b> Are surface waters, the water table, and/or overall soil saturation present? (Select Yes or No)	No		No
18	<b>Resource Alterations:</b> Are the wetland soil conditions visibly disturbed? <b>Examples:</b> Livestock presence, haul roads, farm traffic, drain tiles, recent mowing/clear cutting, recent excavating/disking of soils, etc. <b>Rating:</b> 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	<b>Is vegetation present within the permitted impact area prior to disturbance? (Pre-Con)Are areas properly seeded and stabilized after restoration? (Post-Con)</b> <b>Rating:</b> 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**

10/11/23 - Pre-construction meeting for crossing W-J23. Pre-construction assessment conducted and pictures taken. -S.Felix

10/13/23 - Commenced crossing of wetland, 12" of wetland substrate was segregated and stockpiled in a designated upland area separate from the other spoil. Trench was excavated, and crew inserted pipe into the trench near the end of the day. -S.Felix

10/14/23 - Due to inclement weather later in the day, the crew did not do any work in the wetland. -S.Felix

10/16/23 - The crew repositioned the pipe and excavated more of the trench. -S.Felix

10/17-10/18 - The pipe was welded and x-rayed. -S.Felix

10/19/23 - Trench-breakers were installed in the trench and the pipe was coated. -S.Felix

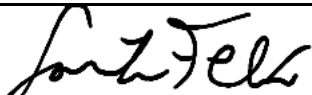
10/20-10/22 - Due to inclement weather, no construction took place in the wetland. -S.Felix

10/23-10/24 - The crew filled the trench with subsoil. -S.Felix

10/25/23 - The crew replaced the original 12" of segregated wetland topsoil to the wetland area and graded it to the correct contour. Erosion and sediment controls were then installed around the wetland. -S.Felix

Conditions 18 and 19 were given a rating of 4 during post-construction assessment due to lack of vegetation in the disturbed permitted impact area following the completion of the crossing and restoration efforts. The W-J23 substrate has 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
Samantha Felix		ERM	10/26/2023



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**Required Photos**



<b>GPS Location</b>	See above.	<b>GPS Location</b>	See above.
<b>Description</b>	View of permitted resource impact area during pre-construction assessment.	<b>Description</b>	At edge of LOD, view of unimpacted resource area conditions during pre-construction assessment.



<b>GPS Location</b>	See above.	<b>GPS Location</b>	See above.
<b>Description</b>	View of permitted resource impact area during post-construction assessment.	<b>Description</b>	At edge of LOD, view of unimpacted resource area conditions during post-construction assessment.



<b>GPS Location</b>	See above.	<b>GPS Location</b>	See above.
<b>Description</b>	Crew inserted pipe into trench after excavation.	<b>Description</b>	Pipe in ground.



**Optional Photos**



<b>GPS Location</b>	See above.	<b>GPS Location</b>	See above.
<b>Description</b>	Crew repositioned pipe and excavated more trench.	<b>Description</b>	The pipe section inside of the wetland was being welded.



<b>GPS Location</b>	See above.	<b>GPS Location</b>	See above.
<b>Description</b>	Trench breakers installed and pipe being coated.	<b>Description</b>	Crew filling trench with soil.



<b>GPS Location</b>	See above.	<b>GPS Location</b>	See above.
<b>Description</b>	Continuation of soil filling.	<b>Description</b>	Installing erosion controls.