<del>\</del>	Mo	unta V	ain Valley	Wetland Biological Conditions EA Report									
Project Name H-600 Pipeline			H-600 Pipeli	ne Spread D	Α	AFE 124300132		Spread	H-6	00 Pipeline Spread D			
	Contr	actor	Precision		Report # 100								
Enviro	nmental	Auditor	Jeffrey Arbo	gast	Date/Time 10/24/2023 10					:13 AM			
Wetland ID W-K23				Crossing Start [	Crossing Start Date 10/24/2023 Crossing Completion D				<b>Date</b> 10/2	28/2023			
Milepost 111.50				Pre-Con Assessment I	10/23/2023	Post-Con Assessment Date 10/			28/2023				
Station 5887+15			5	Cowardin Classification PEM Wetland Impact Area(acres)0.04							489		
	State WV												
	County Nicholas												
Resource Post-Crossing Conditions  Were equipment mats or other suitable methods utilized under heavy equipment to minimize soil													
1				r other suitable methods uti ance in wetlands?	lizec	l under heavy	equipn	nent to minin	nıze	SOII	Yes		
2	<del></del>	Was the existing vegetation removed prior to initiating land disturbance within the resource?						Yes					
3	Was t	he top 1	1-foot (12-i	nches) of wetland soil segre	gate	ed and stockpi	iled sep	parate from t	renc	h spoils?	Yes		
4	Was e	Was excess material not needed for backfill removed and disposed of in an upland area?							N/A				
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								Yes				
7								Yes					
8	Was p	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						See Below						
11	surfac	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 Yes 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						
	Wetla	nd Sati	uration: Ar	Biological Condition  e surface waters, the water table, a		r overall soil satu	ıration			Pre-Con	Post-Con		
17	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)							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.)								4				

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## **Additional Notes**

The erosion and sediment control plans indicates that the mainline crosses wetland W-K23 from station number 5887+15 to 5887+67.

Conditions 18 and 19 were given a rating of 4 due to the lack of vegetation in the disturbed permitted impact area following completion of the crossing and restoration efforts. Wetland W-K23 PEM topsoil has been properly stabilized and the disturbed area was 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.

Expanded notes for question 10: A concrete trench breaker was built 12' from the coming in side (CIS) at station number 5887+03. A bentonite trench breaker was built 12' from the going away side (GAS) at station number 5887+79, and verified by the onsite civil survey crew.

10/24/2023: The upper 12 inches of topsoil were segregated and stockpiled separately on geo-tech fabric within the wetland boundary (Ref. Appendix B: Restoration Work Plan – MVP Section 3.2). The native subsoil removed during trench excavation was stored separately in an upland area to be used as wetland backfill. A section of pipe extending from the CIS was lowered into the wetland and the loose end on the CIS was welded in place.

10/25/2023: Another section of pipe was lowered in and a weld made within the wetland boundary at station number 5887+49. The county road was cut and timber mats and road plates were used to build a temporary bridge.

10/26/2023: Crews padded the pipe and built concrete breakers off the Fire Tower Rd. edge, on the CIS of wetland W-K23. Flowable fill was placed under the road crossing. Outside of the wetland boundary, the tie in section of pipe on GAS was lowered in and one weld was made. Backfilling was started in an upland area outside of wetland W-F11 on the CIS side of the road crossing.

10/27/2023: The tie in weld was made and the road cut was rebuilt with stone. A bentonite trench breaker was built on the GAS of wetland W-K23. The last trench box was removed from the CIS of Fire Tower Rd. and the trench was backfilled.

10/28/2023: Backfilling of the wetland was completed with native subsoil. The wetland topsoil was replaced, and all elevations were verified by civil survey. The approved seed mix was applied before the silt fence was replaced on the wetland boundary.

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	
Jeffrey Arbogast	geffy about	SWCA	10/28/2023	

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