Mountain Valley Wetland Biological Conditions EA Report							
Р	roject Name H-600 Pipelin	e Spread C	AFE 12430013	1 Spread	H-600 Pipeline	e Spread C	
	Contractor Precision		·	Report #	155		
Enviro	nmental Auditor Jeffrey Arbog	ast	st <b>Date/Time</b> 12/14/2023 1			):51 AM	
Wetl	and ID W-B31	Crossing Start Date	<b>e</b> 12/14/2023	Crossing Comple	tion Date 12/	16/2023	
Milepost 97.82		Pre-Con Assessment Date 12/14/2023 Post-Con Assessment Date 1			nent Date 12/	16/2023	
5	Station 5164+82	Cowardin Classification PEM Wetland Impact Area(acres)				515	
	State WV						
C	County Webster						
	110/	Resource Post-Cro			:!!	1	
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 vegetati	Was the existing vegetation removed prior to initiating land disturbance within the resource?				Yes	
3						Yes	
4	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 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	subsurface erosion to or from the resource area?				See Below		
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	, , ,				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 Root Con		
4-	Wetland Saturation: Are	Biological Conditions surface waters, the water table, and		uration	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	

vegetative coverage, etc.)

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## **Additional Notes**

The alignment sheets indicate that the mainline crosses wetland W-B31 from station number 5164+82 to 5165+06.

Expanded notes for question 10: Survey verified that the bentonite trench breakers were installed at 8' from coming in side (CIS) and 9' from going away side (GAS) of the wetland at station numbers 5164+74 and 5165+15, respectively.

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-B31 topsoil was properly stabilized and 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.

12/14/2023: The upper 12 inches of topsoil were segregated and stockpiled alongside the trench 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.

12/15/2023: Ditch excavation was completed and the pipe section from the CIS loose end through the wetland was lowered in. Welding, x-ray, and coating operations were completed on the CIS loose end prior to the installing the bentonite trench breaker on the CIS of the wetland.

12/16/2023: The GAS bentonite trench breaker was installed prior to backfilling the trench with wetland subsoil. The wetland topsoil was replaced and survey verified that all elevations met preconstruction specifications. Silt fence was placed on the wetland boundaries and the approved wetland seed mix was applied.

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	Jeffey Orlogost	SWCA	12/16/2023

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