Mountain Valley Wetland Biological Conditions EA Report								ŧ		
Project Name H-600 Pipeline			e Spread F	AFE 124300135		Spread	Spread H-600 Pipeline Spread F			
	Contr	ractor Price Gregory			·		Report #	104	ŀ	
Enviro	nmental	Auditor Tim Ferguson	Date/Time 10/26/2023 12:				:34 PM			
Wetland ID W-UV4			Crossing Start Date 10/31/2023 Crossing Completion Date			Date 11/9	9/2023			
Milepost 1		155.73	Pre-Con Assessment Date 10/26/2023 Post-		Post-C	Con Assessment Date 11/9			9/2023	
Station 8222+54		8222+54	Cowardin Classificati	ion	PSS	Wetla	nd Impact Ar	ea((acres)0.08	885
	State	W∨								
C	County Greenbrier									
	1.47		Resource Post-Cr							
1	Were equipment mats or other suitable methods utilized under heavy equipment to minimize soil compaction and disturbance in wetlands?						Yes			
2		the existing vegetation removed prior to initiating land disturbance within the resource?						Yes		
3	Was t	he top 1-foot (12-inc	ches) of wetland soil segreg	jate	d and stockpi	led sep	parate from tr	enc	h spoils?	Yes
4	Was e	excess material not i	needed for backfill removed	d an	d disposed o	f in an	upland area?			Yes
5	Was t	he top 12-inches of	backfill made with clean na	tive	wetland tops	oil?				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	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?								
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?									
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 Post Con				
4-	Wetla	nd Saturation: Are	Biological Condition surface waters, the water table, ar		overall soil satu	ration			Pre-Con	Post-Con
17	present? (Select Yes or 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)					3				
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				

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Additional Notes

Pre-Construction Notes

Pre-Construction Meeting - 10/26/2023

- 17. Saturated soils in wetland test pit (Photo 1).
- 19. Outside growing season. Plant die-back and coverage by leaf debris.
- 10/31/2023 Minor precipitation in previous 24 hours (<0.1 inches). Top 12 inches of wetland topsoil removed (Photo 2). Topsoil segregated and stored in upland area (Photo 3). Light rain. Excavation of trench and hammering in resource area. Drilling for blasting through aquatic resource and placement of blasting mats. Blasting. Welding ongoing outside of aquatic resource area.
- 11/1/2023 Light Snow. Pumping from trench in aquatic resource area. Preparation for second series of blast (Photo 4). Second blast. Welding and coating ongoing outside of aquatic resource area.
- 11/2/2023 Pumping from trench in aquatic resource area. Drilling and hammering of rock in aquatic resource area. Trench excavation and spoil relayed to upland area.
- 11/3/2023 Pumping from trench in aquatic resource area. Drilling and hammering of rock in aquatic resource area. Trench excavation and spoil relayed to upland area. Coating of pipe ongoing outside of aquatic resource area.
- 11/4/2023 Pumping from trench in aquatic resource area. Drilling and hammering of rock in resource area. Trench excavation and spoil relayed to upland area. Sandbag bedding placed in pipe (Photo 5). Prepping to move pipe. Finish applying rock shield. Transport and lower pipe into trench in aquatic resource area.
- 11/6/2023 Pumping from trench in aquatic resource area. Pipe adjustments. Welding and x-ray outside of aquatic resource area.
- 11/7/2023 Pumping from trench in aquatic resource area. Cutting pipe. Welding, sandblasting, coating, and x-ray outside of resource area.
- 11/8/2023 Trench breakers installed. Backfilling around trench breakers (Photo 7). Shaker bucket used for padding. Sand blasting and coating outside of aquatic resource area. Survey onsite to evaluate aquatic resource elevations.
- 11/9/2023 Restored wetland subsoil and topsoil (Photo 8). Survey onsite and survey completed. Wetland seeded. Wetland restoration completed.

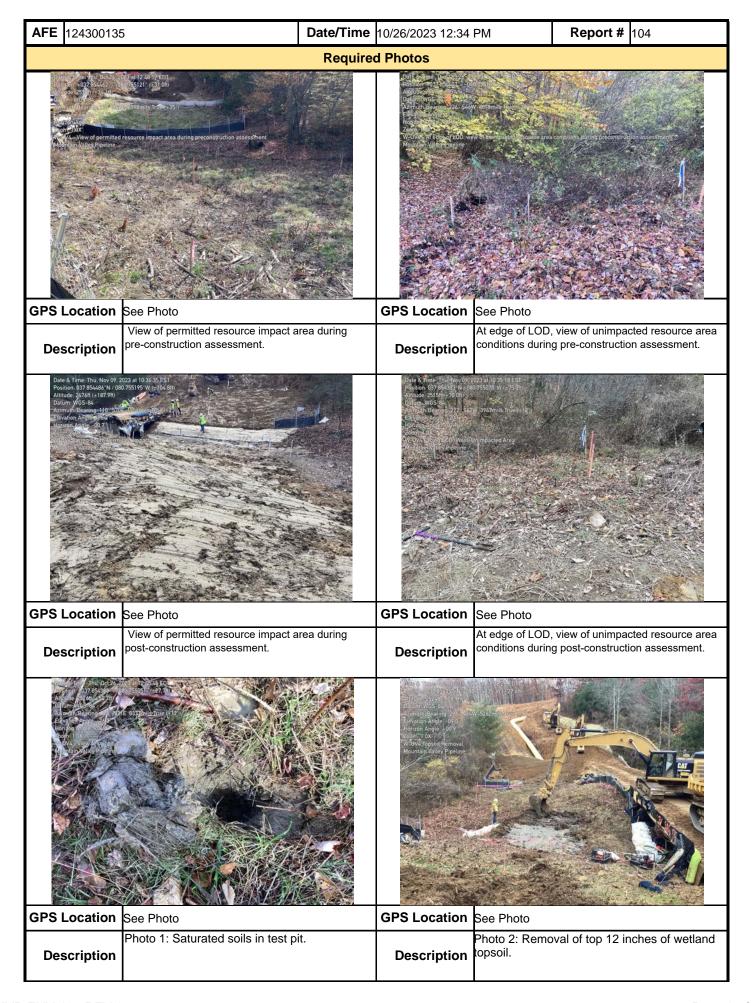
Post Construction Notes

- 17. No recharge or saturated soils in wetland test pit.
- 19. Crossing and riparian areas have been recently restored. These areas will be monitored until 80% vegetative coverage has been achieved and areas that do not have 80% vegetative cover within 30 days will be reseeded. Timber mats remain in place for travel lane.

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
Tim Ferguson	6	Potesta & Associates, Inc.	11/9/2023

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AFE 124300135 **Date/Time** | 10/26/2023 12:34 PM Report # 104 **Optional Photos** GPS Location See Photo **GPS Location** See Photo Photo 4: Prepping (drilling) for second blast. Photo 3: Wetland topsoil segregated in upland **Description** Description GPS Location | See Photo GPS Location See Photo Photo 5: Sandbags in trench for pipe bedding. Photo 6: Lowering pipe into trench. **Description Description** GPS Location See Photo **GPS Location** See Photo Photo 7: Trench breakers and backfilling with Photo 8: Restoring wetland topsoil. padding dirt. Description **Description**

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