Mountain Valley Wetland Biological Conditions EA Report							
Project Name H-600 Pipeline		Spread E	AFE 124300134	1 Spread	H-600 Pipeline	600 Pipeline Spread E	
	Contractor Price Gregory		•	Report #	42		
Enviro	nmental Auditor Kristin Duty	Date/Time 9/6/2023 8:17			AM		
Wetl	and ID W-L13	Crossing Start Date 10/2/2023 Crossing Completion Date		t ion Date 10/	13/2023		
Milepost 147.00		Pre-Con Assessment Date 9/6/2023 Post-Con Asses		Post-Con Assessm	nent Date 10/13/2023		
Station 7761+60		Cowardin Classification PEM Wetland Impact Area(acres)0.03				316	
	State WV						
County Greenbrier							
	Were equipment mats or o	Resource Post-Cro other suitable methods utilize			ize soil		
1	compaction and disturban					N/A	
2		on removed prior to initiating				Yes	
3	Was the top 1-foot (12-inc	hes) of wetland soil segrega	ted and stockp	iled separate from tre	ench 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?					
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	1 11					Yes	
9	Was equipment/timber matting removed from the wetland area properly by vertically lifting, and not pulling through the impact area?					N/A	
10	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 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?						
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		
	Wetland Saturation: A	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

Pre-Construction Notes

Pre-Constuction Meeting - 9/5/2023

Timber mat in place prior to assessment.

17. No recharge and soils are not saturated

10/2/2023 - First 12" of wetland topsoil removed (Photo 1) and segregated in upland area (Photo 2). Trenching ongoing.

10/3/2023 - 10/4/2023 - Excavation of trench continued (Photo 3). Pipe in upland area exposed.

10/5/2023 - Section of pipe lowered into trench through aquatic resource (Photo 4).

10/6/2023 - 10/9/2023 - Placement of padding in trench. Welding, x-ray, coating, and sandblasting ongoing outside of aquatic resource.

10/10/2023 - Placement of additional padding in trench. Began backfilling of aquatic resource area (Photo 5) and construction of trench breakers.

10/11/2023 - 10/12/2023 - Completed construction of trench breakers (Photo 6). Wetland topsoil restored in area identified by survey (Photo 7). P1 fence installed to protect resource from additional work being completed in the vicinity of resource.

10/13/2013 - Topsoil seeded in restored wetland resource (Photo 8).

Post Construction Notes

- 1., 9. Equipment was not used in resource, all work from adjacent area. No use of timber mats in aquatic resource necessary.
- 17. Water did not recharge in post construction test pit.
- 18. 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 mat remains 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
Kristin Duty	Kristin Diety	Potesta	10/13/2023

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Optional Photos								
Elegation Application (Application of the Application of the Applicati	E 3/8/mis frue (12)		Annual Control of the	confidence to the confidence t				
GPS Location			GPS Location					
Description	Photo 3: Trench completed throug resource and upland pipe exposed		Description	Photo 4: Lowering pipe resource area.	into trench in aquatic			
Dajnes Limit File Sci 100 2 Poglicion 6037 93903 i di All Judes (2A/Oti Effort Catum. WGS-84 Azimuth/Bearing 168-512 Elevation Angle - 102 Zoom 10X W-L13 AND ADJACENT PA Mguntain Valley	A RE		The man see that the bound of t	TIAL TRENCH BREAKERS AND BACKGILL				
GPS Location	See Photo		GPS Location	See Photo				
	Photo 5: Sifting and backfilling of t aquatic resource area.	rench in		Photo 6: Construction of adjacent to aquatic reso				
Position 03%53(70 of 07%) articles 20,081% S 10th Oaten W65 8. Azamba Bearing 245 566 Elevation Angle 80,3 Horaron Angle 90,2 Zoom 10% W-L13 TOPSOIL RESTORAT Mountain Valley	NON AND THE PLANS		ironina 130 79389 / 308 Altitude 24381 t 112 til Datum W05-84 Azimuth/Bearing 191 S11 Elevation Angle - 10.2 Horizon Angle - 10.2 Horizon Angle - 10.3 Mounthing Valley Va					
GPS Location		do and	GPS Location		atland resource			
Description	Photo 7: Survey verifying final gra- location of restored (topsoiled) we resource.		Description	Photo 8: Seeding of we	enanu resource.			

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