Mountain Valley PIPELINE LL Wetland Biological Conditions EA Report								
Project Name H-600 Pipeline		e Spread F	AFE 12430013	Spread	H-600 Pipeline	600 Pipeline Spread F		
	Contractor Price Gregory	,	Report # 114					
Enviror	nmental Auditor Charles Hade	Date/Time 10/30/2023 3:			53 PM			
Wetla	and ID W-A13	Crossing Start Da	te 11/1/2023	Crossing Complet	ion Date 11/	n Date 11/29/2023		
Milepost 182.90		Pre-Con Assessment Da	te 10/30/2023	Post-Con Assessm	ent Date 11/	ıt Date 11/29/2023		
Station 9657+32		Cowardin Classification PEM Wetland Impact Area(acres)0.2			991			
	State WV							
С	County Monroe							
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	e existing vegetation removed prior to initiating land disturbance within the resource?						
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?							
7	Was wetland topsoil replaced and temporarily seeded?							
8	Was permanent seed applied to unsaturated wetlands?							
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?							
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. Biological Conditions Pre-Con					No Post-Con		
47	Wetland Saturation: Are	surface waters, the water table, an		uration				
17	present? (Select Yes or No) 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)				Yes 2			
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.)					3		

vegetative coverage, etc.)

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Additional Notes

Pre-Construction Notes

Pre-Construction Meeting - 10/30/2023

- 17. Soil saturation present; no standing water or groundwater recharge observed in soil test pit.
- 19. Vegetation cleared prior to construction.

ROW crosses wetland in two locations.

Timber mat travel lane in place.

- 11/1/2023 Top 12 inches of topsoil excavated (Photo 1) in first portion of the aquatic resource crossing. Topsoil was segregated and stored in work area. Plastic covering added on top of topsoil storage pile as well as signage.
- 11/2/2023 Bored for blasting. Constructed and inserted trench box in aquatic resource area. Placed blasting mats. Blasted through aquatic resource area.
- 11/3/2023 Bored for additional blasting (Photo 2). Blasted through aquatic resource area.
- 11/4/2023 Bored for additional blasting. Blasted through access road and portion of aquatic resource area. Excavating started across road and steel plates and mats placed across road.
- 11/6/2023 Pumping water from aquatic resource area. Excavated additional topsoil which was segregated and stored in work area. Excavated trench in aquatic resource area. Placed trench box in aquatic resource. Placed sandbag "pillows" in trench (Photo 3). Removed temporary bridge. Placed pipe in trench. Welding ongoing. Replaced temporary bridge.
- 11/7/2023 Excavated trench in upland. X-ray. Sandblasting. Coating. Finished excavating trench at first portion of aquatic resource crossing.
- 11/8/2023 Jeeped pipe both within and outside of aquatic resource area. Removed temporary bridge to access road. Prepped trench box for pipe to go in trench. Placed sandbag "pillows" in trench for padding. Survey onsite. Added rock shield. Moved and placed pipe in trench (Photo 4). Welding.
- 11/9/2023 Began backfilling up to the access road crossing. Constructed trench breakers. X-ray. Backfill up to access road completed. Survey shot edge of aquatic resource to make sure trench breaker was not in wetland, about 20 feet outside wetland. Sandblasting and coating. Backfilling of aquatic resource and access road.
- 11/10/2023 Excavated top 12 inches of topsoil in another section of wetland. Began excavating trench. Removed trench box. Bored for blasting. Blasting.
- 11/11/2023 Survey staked-out ditch line before additional excavation in aquatic resource. Excavation of trench in aquatic resource (Photo 5).
- 11/13/2023 Began placing sandbag "pillows" in trench. Moved pipe to trench by side-boom. Lowered pipe down into trench. Welding and x-ray.
- 11/14/2023 Sanding, coating, and backfilling with padding material in aquatic resource area ongoing.
- 11/15/2023 Backfilled with padding material. Backfilled with subsoil.
- 11/16/2023 Boring for blasting in another portion of the aquatic resource. Subsoil added to trench in other portion of aquatic resource. Adding jute to portion of wetland. Survey shooting pipe location. Blasting. Excavating trench through newly opened portion of aquatic resource. Putting topsoil back on completed section of aquatic resource. Installing P1 fencing to protect restored aquatic resource (Photo 6).
- 11/17/2023 Sandbags added to trench through aquatic resource. Brought pipe to trench by side-boom. Lowered pipe into trench. Heated up pipe for weld. Welding.
- 11/18/2023 X-ray on site for previous days' weld. Sandblasted, coated, and backfilled. Survey onsite shooting pipe location.
- 11/20/2023 Seed added to areas of aquatic resource that have been topsoil restored. Backfilled other areas of trench. Removed trench box from bell hole. Continued to backfill.
- 11/21/2023 Rain. No work in resources. Amounts in some areas exceeded 1.0 inch.
- 11/22/2023 Completed backfilling. Contoured and added topsoil to remaining open wetland resources (Photo 7).
- 11/24/2023-11/28/2023 No work in aquatic resource.
- 11/29/2023 Seed added to remaining aquatic resource areas (Photo 8).

Post Construction Notes

Aquatic resource excavated and restored in phases reducing overall time each section was open.

- 17. Saturated soils.
- 19. Crossing has recently been restored. These areas will be monitored until 80% vegetative cover is achieved. Areas that do not have 80% vegetative cover within 30 days will be reseeded.

Timber mat bridge 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
Charles Haden	Chilles Hoden	Potesta & Associates	11/29/2023

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AFE 124300135 **Date/Time** 10/30/2023 3:53 PM Report # 114 **Optional Photos GPS Location** GPS Location See Photo See Photo Photo 3: Sandbag "pillows" in trench for Photo 4: Placing porting of pipe in trench in aquatic resource area. padding. **Description** Description GPS Location | See Photo **GPS Location** See Photo Photo 6: Installing P1 fencing along a restored Photo 5: Excavating trench in aquatic resource. section of aquatic resource. Description Description GPS Location | See Photo **GPS Location** See Photo Photo 7: Spreading topsoil across a portion of Photo 8: Aquatic resource seeded. the aquatic resource area. **Description Description**

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