Mountain Valley PIPELINE LLC Wetland Biological Conditions EA Report							
P	roject Name H-600 Pipeline	e Spread E	AFE 124300134	4 Spread	H-600 Pipeline	ne Spread E	
	Contractor Price Gregory Report # 78				78		
Enviro	nmental Auditor Dan Miller			Date/Time	10/6/2023 9:1	1 AM	
Wetla	and ID W-L11	Crossing Start Da	te 10/6/2023	Crossing Complet	tion Date 10/	14/2023	
Mi	ilepost 147.53	Pre-Con Assessment Da	te 10/6/2023	Post-Con Assessm	Assessment Date 10/		
S	Station 7789+40	Cowardin Classification PEM Wetland Impact Area(acres)0.01					
	State WV						
C	County Greenbrier						
	IM/ara aguinmant mata ar	Resource Post-Cro			ina anil		
1	compaction and disturban	other suitable methods utiliz ce in wetlands?	ed under neavy	equipment to minim	ize soii	N/A	
2	Was the existing vegetation	on removed prior to initiating	land disturband	ce within the resource	e?	Yes	
3	Was the top 1-foot (12-inc	ches) of wetland soil segrega	ited and stockp	iled separate from tr	ench spoils?	Yes	
4	Was excess material not r	needed for backfill removed	and disposed o	f 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?					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	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	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 Root Con		
4-	Wetland Saturation: Are s	Biological Conditions surface waters, the water table, and		uration	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)				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-Constuction Meeting - 10/5/2023

Timber mat in place prior to assessment.

17. No recharge and soils are not saturated.

10/7/2023 - Wetland topsoil was removed(Photo 1), segregated and stored separately in an upland area (Photo 2). Excavation of trench started and finished in resource area (Photo 3).

10/9/2023 - Sifting bedding into trench. Pipe lowered into trench (Photo 4). Cutting and welding of pipe in trench outside of aquatic resource area.

10/10/2023 - Additional pipe lowered into trench outside of resource area. Cutting and welding of pipe in trench outside of aquatic resource area.

10/11/2023 - Welding ongoing outside of aquatic resource area.

10/12/2023 - Survey evaluated elevations of pipe through aquatic resource area. No realignment needed. Welding, x-ray, coating, and sandblasting on-going on both ends of pipe in trench (outside of resource area). Began backfilling and construction of first trench breaker completed.

10/13/2023 - Additionally welding and coating of pipe in trench. Backfilling of trench and construction of section trench breaker (Photo 5). Resource area brought to elevation (Photo 6) and survey staked wetland boundaries.

10/14/2023 - Light rain overnight. Control points for wetland corrected. Resource area contoured. Wetland soils restored (Photos 7 and 8). Additional work continued outside of resource area, but wetland restoration complete.

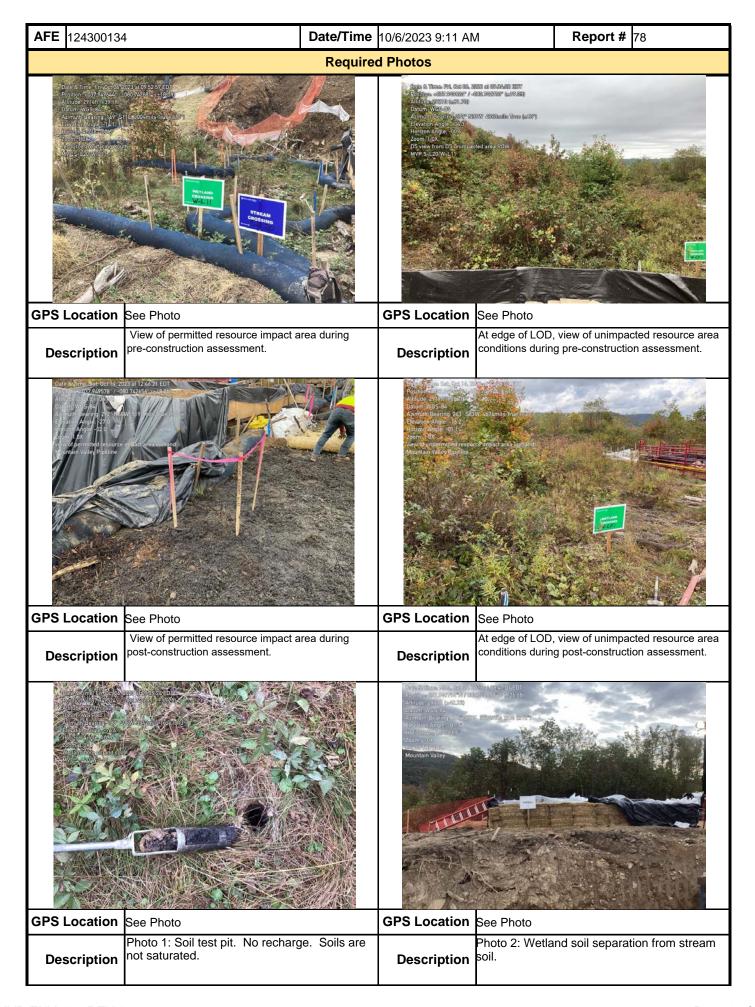
Post Construction Notes

- 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	
Dan Miller	DMiller	Potesta	10/14/2023	

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		Optiona	l Photos			
Date & Time Mon Ost 07 2 Parisment 37 - 92-75 A. N. De Anticle - 20 3 du - 27 4n 1 Datum W55-86 - 27 minut Béaring 176 - 502 Elevation Angle - 92 3 Horizon Angle - 92 3 Zoom - 10X S - 120 - RENCH GOING AW Meuntain Valley	0.7 / 10 / 10 / 10 / 10 / 10 / 10 / 10 / 1		Chapter 4 and Ch	28 A 8 11 (29.3.0 BBV (59.5.0.00) (A 24) 6 mil s Tree (512.7)		
GPS Location			GPS Location			
Description	Photo 3: Trench excavated throu resource area.	gh aquatic	Description	Photo 4: Movin	ig pipe to place	e in trench.
Calle & Time and the 18 years of the 18 years	TOUR ENT TO THE TOUR ENT TO		Datum WGS-84 Azimut-Bearing 317 N/3 Elevation Angle - 31 I Zoom 1 0X resource backfilled prior to	N 5636mils True (= 12)		
GPS Location			GPS Location			
Description	Photo 5: Backfilling of trench aro breaker.	und trench	Description	Photo 6: Aquat to topsoil resto	ic resource are ration.	ea backfilled. Prior
Oale & Time Committee of the Committee o	To all of the case		Celebra Timen, Barra Barra Line Line Vision and Celebra George Cel			
GPS Location			GPS Location			
Description	Photo 7: Returning wetland topso	oil.	Description	Photo 8: Resto work).	ring wetland to	ppsoil (shovel

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