Wetland Biological Conditions EA Report									
Pı	roject Name H-600 Pipeline	Spread A	<b>AFE</b> 12430012	9 Spread H-	600 Pipeline Spread A				
Contractor Precision Report # 54									
Enviror	nmental Auditor Devin Jen			Date/Time 9/1	18/2023 11:	34 AM			
Wetla	and ID W-K43	Crossing Start Da	ate 9/18/2023	Crossing Completio	npletion Date 10/28/202				
Milepost 31.38		Pre-Con Assessment Date 9/18/2023 Post-Con Assessment Date 10		nt Date 10/	28/2023				
Station 1656+92		Cowardin Classification PEM Wetland Impact Area(acres)0.20				086			
State WV									
С	County Harrison								
Resource Post-Crossing Conditions  Were equipment mats or other suitable methods utilized under heavy equipment to minimize soil									
1	compaction and disturband		zed under neavy	equipment to minimize	SOII	Yes			
2	<del>† '</del>	on removed prior to initiating	g land disturban	ce within the resource?		Yes			
3	Was the top 1-foot (12-inc	hes) of wetland soil segreg	ated and stockp	iled separate from tren	ch spoils?	Yes			
4	Was excess material not r	needed for backfill removed	and disposed o	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?					Yes			
7	Was wetland topsoil replaced and temporarily seeded?					Yes			
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?					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	the corrective actions implemented in the Comments section and include additional photos.								
4-	Wetland Saturation: Are s	Biological Condition surface waters, the water table, ar		uration	Pre-Con	Post-Con			
17	present? (Select Yes or No)				Yes	Yes			
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			

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## **Additional Notes**

#### 9/16/2023

The pre-construction meeting was held and pre-construction assessment took place. -D. Jenn

#### 9/21/2023

The contractor removed the topsoil from the stream/wetland complex and stockpiled it in a designated upland area and began work on sheetpiling installation. -A. Dunn

# 9/22/2023-10/5/2023

The contractor continued work on installation of the sheet piling and dewatering of groundwater as necessary. -A. Dunn, M. Kastan

#### 10/6/2023-10/9/2023

The contractor worked on excavating the trench through the stream/wetland complex. -M. Kastan

# 10/10/2023-10/17/2023

The contractor worked on installing the pipe through the stream/wetland complex, including welding, x-ray, and coating. -M. Kastan

## 10/18/2023-10/26/2023

The contractor worked on backfilling the trench and removing sheetpiling in the stream/wetland complex. -M. Kastan, M. Huber

#### 10/27/2023

Weather mostly cloudy with a high of 75 degrees Fahrenheit. Crew removed sheet piling and began restoration of W-K43. Only a small portion of the wetland was completed before the end of the day. Silt fencing was placed at the stopping point to prevent any erosion of wetland topsoil overnight.

# M. Huber 10/28/2023

The contractor finished removing all remaining sheetpiling and the restoring the of original 12" of segregated wetland topsoil to the wetland area and graded it to the correct contour. Erosion and sediment controls were then installed around the wetland.

#### Post-construction assessment

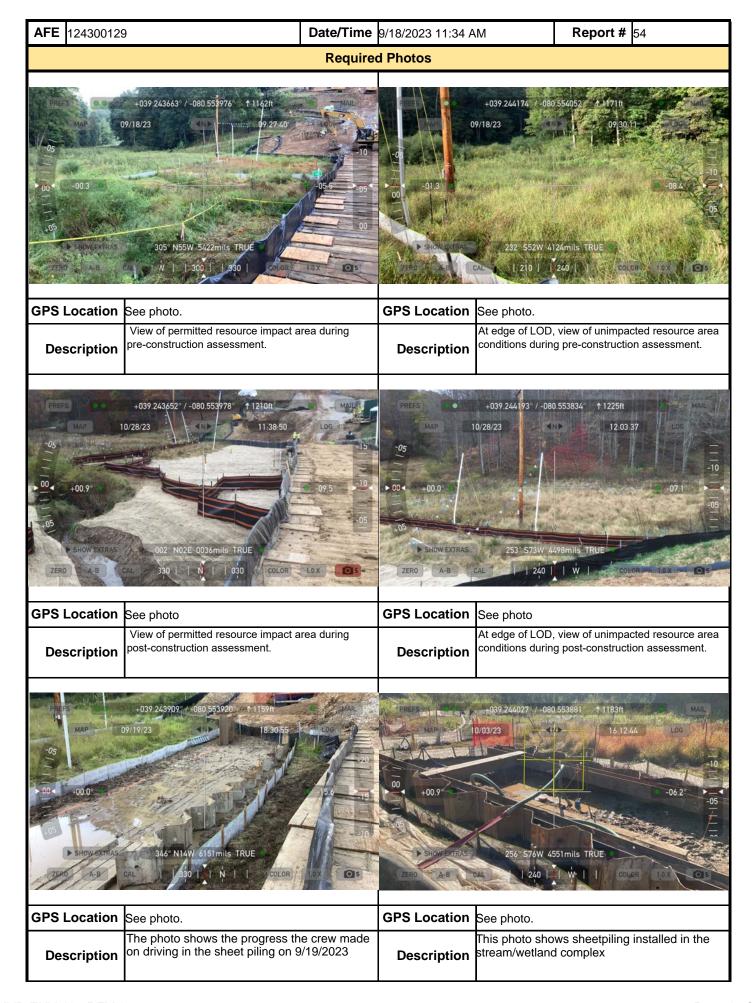
Conditions 18 and 19 were given a rating of 4 due to the of vegetation in the disturbed permitted impact area following the completion of the restoration. The W-K43 PEM topsoils have been properly stabilized and the disturbed area has been seeded with the appropriate permanent seed mix in accordance with Appendix B: Restoration Work Plan of the Mountain Valley Pipeline Comprehensive Stream and Wetland Monitoring, Restoration and Mitigation Framework.

M. Huber

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	
Devin Jen	Hother Hohe	ERM	10/28/2023	

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