Mountain Valley Stream Biological Conditions EA Report													
Project Name H-600 Pipeline			eline	e Spread A AFE 124300129		9	Spread	H-	H-600 Pipeline Spread A				
Contractor Precision				Report # 260			0						
Environmental Auditor Devin Jen Date/Time 9/25/2023 1:							25/2023 1:15	5 PM					
Stream ID S-K67				Crossing	Start Date	9/2	25/2023	Cross	ing Comple	etio	n Date 9/30	0/2023	
Mi	Milepost 34.28			Pre-Con Assessment Date 9/25/2023			Post-Con Assessment Date 9/30			0/2023			
Station 180		1809+8	37		Bankfull Width		10.	.0	Riffle:Pool Complexes P		resent?	No	
State		WV			Stream Classification Intermittent					!			
С				303(d) Impairment Listing N/A									
Resource Post-Crossing Conditions													
1	Were all applicable resource specific crossing conditions satisfied?							N/A					
'	Time o	Time of Year Restrictions (TOYR)? N/A Mussel Relocation? N/A											
2	This qu	This question is not applicable in WV.											
3	Which crossing methods were utilized during the stream crossing? (If so select one or more) Dam & Pump Flume Cofferdam Conventional Bore Horizontal Directional Drill (HDD) Bore												
4	Was the top 1-foot (12-inches) of streambed substrate segregated and stockpiled separate from trench spoils?						Yes						
5	Was excess material not needed for backfill removed and disposed of in an upland area?							Yes					
6	Was the top 12-inches of backfill made with clean native stream substrate?						Yes						
7	Was the pre-construction survey data utilized during restoration in attempt to re-establish pre-construction contours?						Yes						
8	Were any field modifications to the stream implemented by project or regulatory personnel to address potential drainage or bank restoration limitations?						No						
9	Were impervious trench breakers/plugs properly installed within 25-feet of top-of-bank to prevent subsurface erosion to or from the resource area?						Yes						
10	Was permanent seed and stabilization material (straw or matting) applied to riparian areas and stream banks prior to re-establishing flow to the impact area of the channel?						Yes						
11	Was the time of disturbance minimized by conducting resource work continuously to completion?						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							N/A						
14	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					
15		ninant Mud/Silt		Тур	e (select one):Bedro	ock, Boulder	(>10	"), Cobble (2-	-10"), Gra	vel (0.1-2"), Sa	nd	Cobble (2-10")	Cobble (2-10")
16	Channel Conditions:Rating: 1-Optimal (80-100% stable banks), 2-Sub-optimal (60-80% stable banks), 3-Marginal (40-60% stable banks), 4-Poor (20-40% stable banks), 5-Severe (0-20% stable banks, highly eroded or unvegetated banks						5						
17	Riparian Buffer Zone within ROW and ≤50 ft. from Stream Top-of-Bank: Rating: 1-Optimal (60-100% heavy vegetative cover), 2-Sub-optimal (30-60% mixed vegetated coverage), 3-Marginal (<30% vegetative coverage), 4-Poor (Mowed/maintained area or farmland, impervious area, sparsely vegetated coverage, etc.)						4						

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AFE	124300129	Date/Time	9/25/2023 1:15 PM	Report	# 260	
	Biological Co	nditions Co	ntinued		Pre-Con	Post-Con
18	Instream Habitat Conditions: Examples: Varied substrate sizes, varied combination of water velocities & depths, presence of woody/leafy debris, stable substrate with low amount of mobile particles, low embeddedness, shade protection, undercut banks, root mats, Varied combination of water velocities, submerged aquatic vegetation Rating: 1-Optimal (Habitat conditions present in >50% of resource), 2-Suboptimal (Habitat conditions in 30-50% of resource), 3-Marginal (Habitat conditions in 10-30% of resource), 4-Poor (Habitat conditions in 0-10% of resource)					3
19	Channel Alterations: Examples: Straighte along banks, concrete/gabions/concrete block, r agricultural impacts Rating: 1-Negligible (unalte channel alterations), 3-Moderate (40-80% of	manmade emba ered/natural stre	nkments, constrictions w/in channel, li am), 2-Minor (20-40% of resource dis	vestock or rupted by	1	1

Additional Notes

9/25/2023

The crew removed the top 12 inches of the stream substrate as well as the streambank topsoil. A dam and pump were placed to ensure that the flow would not be impeded. The crew began excavation of the trench.

9/26/2023

The crew continued to excavate the trench, added sandbags, and positioned the pipe in the area of the stream crossing.

9/27/2023

The crew added more sandbags and repositioned the pipe. The welders successfully welded the section in the area of the stream crossing.

9/28/2023

The crew added pea gravel, built the trench breakers, added AquaBlok, and began backfilling in the area of the stream crossing.

9/29/2023

The crew continued to backfill in the area of the stream crossing.

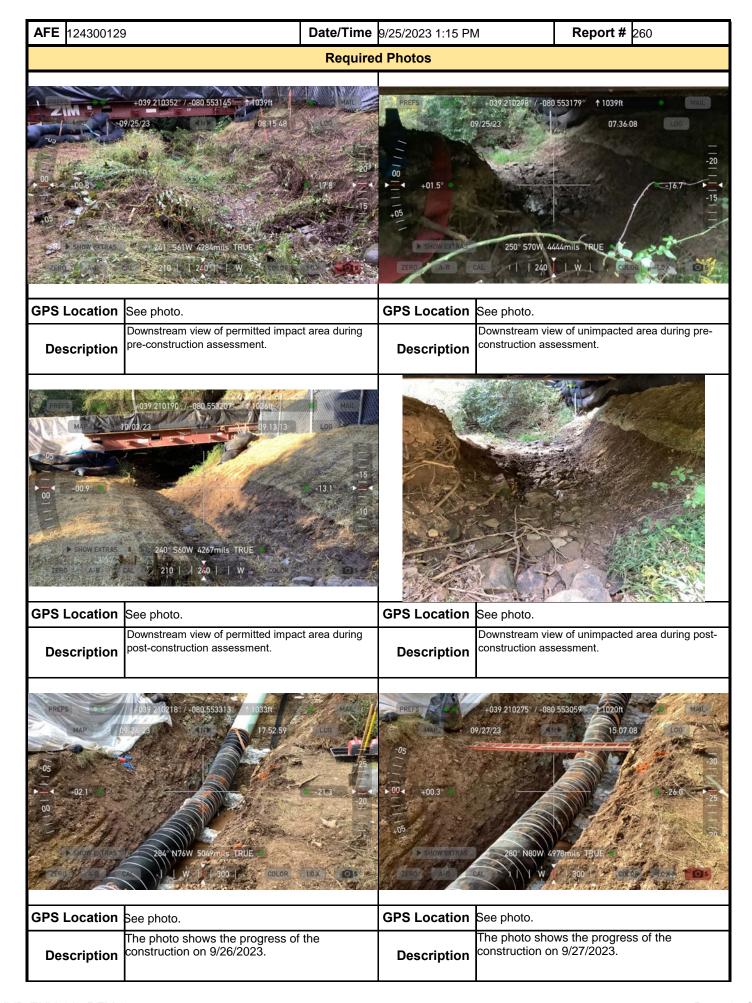
9/30/2023

The stream substrate was replaced, and the stream was restored to pre-construction contours. Conditions 16 and 17 were given a rating of 5 and 4, respectively, due to the lack of vegetation in the disturbed permitted impact area following the completion of the crossing and restoration. The disturbed area has been seeded with the appropriate permanent seed mix and/or planted with bare-root saplings (as required) in accordance with Appendix B: Restoration Work Plan of the Mountain Valley Pipeline Comprehensive Stream and Wetland Monitoring, Restoration and Mitigation Framework.

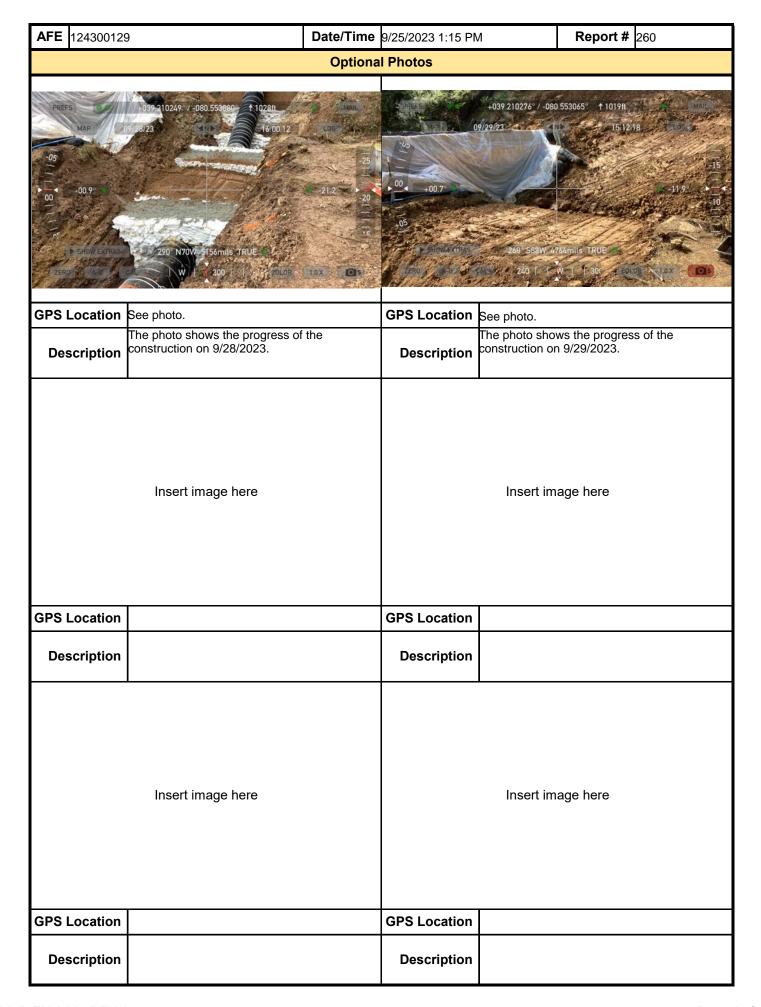
In accordance with the Mountain Valley Pipeline Comprehensive Stream and Wetland Monitoring, Restoration and Mitigation Framework, this independent report was completed to document the on-site monitoring of instream invertebrate and fisheries resources during all construction activity related to waterbody and wetland crossings, and document instream conditions and any impacts to the resources.

Name	Signature	Company	Date
Devin Jen	Da 1	ERM	10/3/2023

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