\	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 # 79)				
Enviror	Environmental Auditor Samantha Felix Date/Time 8/21/2023 10:									9 AM				
Stream ID S-A3a				Crossing Start Date 8/18/2023 Crossing Completion					on Date 8/20/2023					
Milepost 0.81				Pre-Con Assessment Date 8/17/2023 Post-Con Assessmen						nt Date 8/20	0/2023			
S	Station 42+62			Bankfull Width (ft.) 9.0		Riffle:Pool Complexes Present?			No					
	State	WV			Stream Classification Intermittent									
С	ounty	Wetzel			303(d) Im	pairment List	ing	No						
	-					ource Post-C			Conditio	ons				
1	Were	all app	licable res	sourc	ce specific	crossing condi	tion	s sa	itisfied?					N/A
'	Time o	Time of Year Restrictions (TOYR)? N/A Mussel Relocation? N/A												
2	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 X 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?						o address	N/A					
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	Are bareroot saplings required and/or scheduled to be planted for the dormant season (10/1 - 4/30)?						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							
	Biological Conditions Pre-Con								Post-Con					
15	Predominant Substrate Type (select one):Bedrock, Boulder (>10"), Cobble (2-10"), Gravel (0.1-2"), Sand (2-10") (<0.1"), Mud/Silt/Clay						Cobble (2-10")	Cobble (2-10")						
16	Margina	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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	Pre-Con	Post-Con				
18	Instream Habitat Conditions: Examples: depths, presence of woody/leafy debris, stable sushade protection, undercut banks, root mats, Varvegetation Rating: 1-Optimal (Habitat conditions) 30-50% of resource), 3-Marginal (Habitat condition of resource)	eddedness, ic onditions in	1	4		
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	nanmade 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

8/17/23 - Pre-construction meeting for crossing S-A3a. Pre-construction assessment conducted and pictures were taken. -S.Felix

8/18/23 - Commenced crossing waterbody after installation of dam and pump. The 12" of waterbody substrate was segregated and stockpiled in a designated upland area separate from the other soil. Trench excavation was completed by the end of the day. -S. Felix

8/19/23 - The pipe was welded and installed, contractor began to backfill the trench with subsoil and compacted it. -S. Felix

8/20/23 - The crew finished backfilling and compacting the subsoil in the morning and then added the 12" of previously segregated waterbody substrate back onto the stream bank and stream bed to match pre-construction contours. All large rocks that were removed prior to construction were put back in place by the crew using pre-construction pictures as a guide. -S.Felix

Numbers 16, 17, and 18 were rated "severe", "poor", and "severe" (respectively) due to lack of vegetation in the disturbed permitted impact area following the completion of the crossing and restoration efforts. The S-A3a stream bank and stream bed substrates 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.

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
Samantha Felix	Jank Tell	ERM	8/21/2023

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