	Stream Biological Conditions EA Report								
P	Project Name H-600 Pipeline		e Spread A	Spread A AFE 124300129		)	Spread	H-600 Pipeline	e Spread A
	Contractor	Precision		Report # 9			9		
Enviro	nvironmental Auditor Samantha Felix Date/Time 7/16/2023 7:49					9 AM			
Stre	eam ID <sub>S-A118</sub>	}	Crossing Start Date 7/7/2023 Crossing Completion Date				tion Date 7/1	3/2023	
Mi	Milepost 5.53		Pre-Con Assessment Da	t Date 7/6/2023 Post-Con Assessment Date 7/			ment Date 7/1	4/2023	
S	Station 291+98	3	Bankfull Width (	ft.)	t.) 1.0 Riffle:Pool Complexes Present?		s Present?	No	
	StateWV		Stream Classification		Intermittent				
C	County Wetzel		303(d) Impairment Listi	303(d) Impairment Listing Not impaired					
	-		Resource Post-Cro	oss	ing Conditio	ns			
1	Were all app	licable resou	rce specific crossing conditi	ons	s satisfied?				N/A
	Time of Year	Restrictions	(TOYR)? <u>N/A</u> Mussel	Re	location? <u>N</u> /	<u>A</u> F	ish Relocatio	n?	
2	This question	n is not applic	cable in WV.						
3	Which crossin Dam & Pump		ere utilized during the stream concerning the stream convention conventi convention convention convention convention conv				or more) irectional 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					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)? No								
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	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")				
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 1   unvegetated banks 1					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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	Biol	ogical Conditions Continued		Pre-Con	Post-Con		
18	Instream Habitat Conditions depths, presence of woody/leafy deb shade protection, undercut banks, ro vegetation Rating: 1-Optimal (Habita 30-50% of resource), 3-Marginal (Ha of resource)	1	1				
19	Channel Alterations:Example along banks, concrete/gabions/cond agricultural impacts Rating: 1-Neg channel alterations), 3-Moderate	1	1				
		Additional Notes					
Pre-Co	onstruction						
Weath	er was sunny and 85° F at time of	picture taking.					
The permitted work area stream is an unnamed tributary to Price Run. The stream channel is wider towards the south/upstream end of the right-of-way (ROW) and is skinnier towards the northern/downstream end of the ROW near the temporary equipment crossing. The banks are heavily vegetated with herbaceous plants.							
The str	eam is bordered on the southeas	t side by wetland W-A27 and a steep hill on th	ne northwest side.				
Post-C	onstruction						
Weath	er was cloudy and 79° F at time o	f picture taking.					
Stream has been 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 disturbed permitted impact area following completion of the crossing and restoration. The streambanks have been properly stabilized and the disturbed area have 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.							
There was a considerable stormwater event that occurred after restoration of the stream and wetland. The restored stream channel remained stable during and after the storm.							
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	Da	ate		
Saman	tha Felix	Jan the Ven ERM	1	7/17/	2023		

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		Require	d Photos			
GPS Location	39.502294, -80.523569		GPS Location			
Description	Downstream view of permitted impact pre-construction assessment.	ct area during	Description	Downstream vie construction ass	w of unimpacted area during pre- essment.	
GPS Location	39.502324, -80.523568		GPS Location			
Description	Downstream view of permitted impact area during post-construction assessment.		Description	Downstream view of unimpacted area during p construction assessment.		
	Insert image here			Insert im	age here	
GPS Location			GPS Location			
Description			Description			

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Optional Photos					
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GPS Location		GPS Location			
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