Mountain Valley Stream Biological Conditions EA Report													
Project Name H-600 Pipeline				eline	e Spread F AFE 12430013		124300135	5	Spread	H-6	00 Pipeline	Spread F	
Contractor Price Gregory			Price Greg	gory	•				Report #	31			
Enviror	invironmental Auditor Allyson Kincaid Date/Time 8/9/2023 2:27						2023 2:27	PM					
Stream ID S-L2			•		Crossing Start Date 8/15/2023 Cro			Cross	ossing Completion Date 8/17			7/2023	
Mi	Milepost 172.17				Pre-Con Assessment Date 8/9/2023			Post-	Post-Con Assessment Date 8/17			7/2023	
S	Station 9090+58			Bankfull Width (ft.) 6.3		Riffle:Pool Complexes Present?			No				
	State WV			Stream Classification	1	Inte	rmittent						
С	County Summers				303(d) Impairment Listing No								
Resource Post-Crossing Conditions													
1	Were all applicable resource specific crossing conditions satisfied?							N/A					
	Time o	of Year	Restriction	ons ((TOYR)? <u>N/A</u> Musse	l Re	loca	ition? <u>N</u>	<u>'A</u>				
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 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	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						
								Post-Con					
15	Predor (<0.1"),			тур	oe (select one):Bedrock, Bou	der (>10"), Cobble (2-	10"), Gra	avel (0.1-2"), Sa	ind	Gravel (0.1-2")	Gravel (0.1-2")
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						4						
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.)						3						

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	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)					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	manmade emba ered/natural stre	nkments, constrictions w/in channel, li am), 2-Minor (20-40% of resource dis	ivestock or rupted by	1	1	

Additional Notes

Pre-Construction Notes

*Bankfull width measured at OHWM

15. Predominate substrate type taken from the average size in the ROW from underneath the timber at bridge to the US edge of stream.

18. Low habitat score due to lack of stream flow

8-9-2023

PCM with PGI at 1400.

Discussions on proposed process on tying in pipe once laid down into stream.

Pre-construction site assessment completed.

Day 1 (8-15-2023)

Prep site for stream crossing, no flow.

Segregate 12" stream substrate in Maruka (Photo 1).

Trench/hammer/removal of soil and rock (Photo 2).

Day 2 (8-16-2023)

Trench through resource (Photo 3), pipe bedding installed, and pipe lowered into trench (Photo 4).

Day 3 (8-17-2023)

Sifted and placed trench pipe bedding/fill (Photo 5).

Installed trench breakers (Photo 6) and surveyed

Backfilled (Photo 7), shaped bed and banks, replaced top 12 inches of stream substrate in channel (Photo 8).

Encompasses surveyed thalweg and OHWM and fine-tuned restored contours.

Stream banks seeded and curlex installed.

Post construction assessment completed.

Post Construction Notes

16., 17. Crossing and riparian areas have been recently restored. These areas will be monitored until 80% vegetative cover is achieved. Areas that do not have 80% vegetative cover within 30 days will be reseeded.

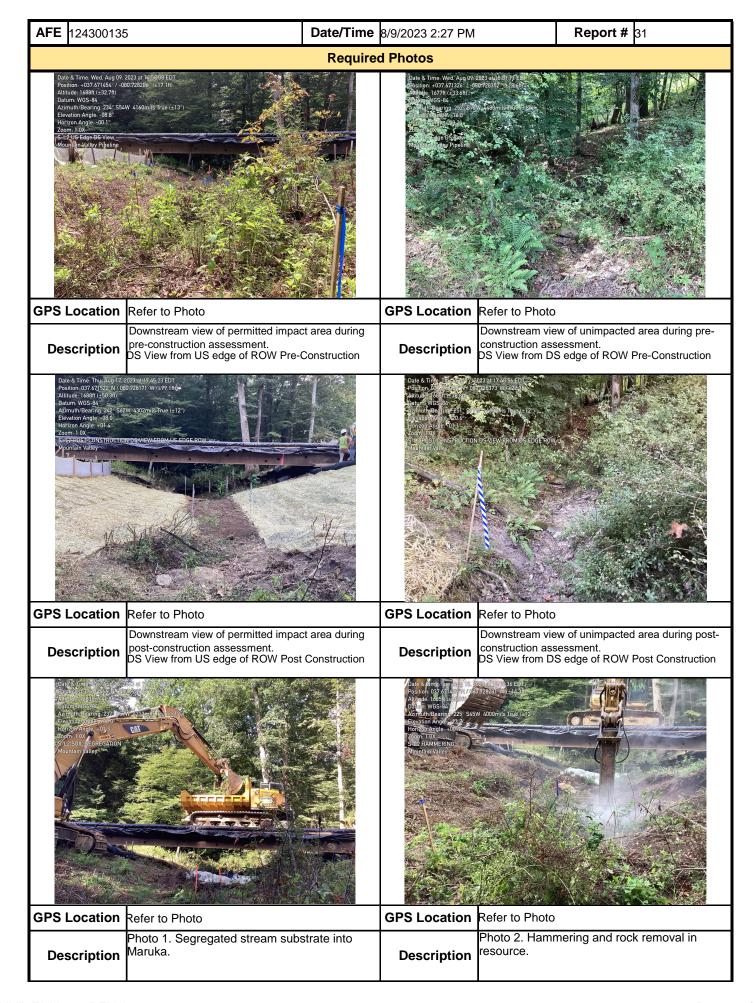
18. Low habitat score due to lack of stream flow.

Bridge 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
Allyson Kincaid		POTESTA	8/17/2023

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