Mountain Valley PIPELINE US Stream Biological Conditions EA Report														
Pr	Project Name H-600 Pipeline Spread F AFE 124300135 Spread H-600 Pipeline Spread F						-600 Pipeline	Pipeline Spread F						
Contractor Price Gregory									Report #	t 30	304			
Enviror	Environmental Auditor Allyson Kincaid Date/Time 10/23/2023 8							0/23/2023 8:	39 AM					
Stream ID S-I17				Crossing Start Date 10/23/2023 Crossing					ssing Compl	etic	on Date 10/	28/2023		
Mi	Milepost		162.62			Pre-Con Assessment Date 10/23/2023 Post-				t-Con Assessment Date 10/2			28/2023	
Station		8586+34		Bankfull Width (ft.) 5.8			Riffle	Riffle:Pool Complexes Present?			No			
State		VV		Stre	Stream Classification Ephemeral									
С	County Summers			303(d) Impairment Listing No										
Resource Post-Crossing Conditions														
1	Were	all appl	licable re	esour	rce spec	ific crossin	ıg conditi	ons	s satisfied?)				N/A
ı	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 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									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		е Тур	pe (selec	t one):Bedr	ock, Bould	er (>	>10"), Cobble	(2-10"), G	Gravel (0.1-2"), Sa	and	Mud/Silt/Cl ay	Mud/Silt/Cl ay
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							1						
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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AFE	124300135	Date/Time	10/23/2023 8:39 AM	Report	# 304	
	Biological Co	nditions Co	ntinued		Pre-Con	Post-Con
18	Instream Habitat Conditions: Examples: depths, presence of woody/leafy debris, stable su shade protection, undercut banks, root mats, Var vegetation Rating: 1-Optimal (Habitat conditions of resource), 3-Marginal (Habitat condition of resource)	ubstrate with low ied combination present in >50%	amount of mobile particles, low ember of water velocities, submerged aquation of resource), 2-Suboptimal (Habitat c	eddedness, ic onditions in	4	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	ivestock or rupted by	4	4

Additional Notes

Pre-Construction Notes

Pre-Construction Meeting - 10/21/2023

- 18. No stream flow. Defined bed and banks not evident, stream substrate is indistinguishable from surrounding topsoil (Photo 1).
- 19. Resource is located in the bed of a logging road. Banks and channel manmade.

Timber mat present prior to construction. OHMW width measured in the field.

10-23-2023 - No difference in OHWM and streambed; no survey data available to distinguish bed features. Dams for flume constructed upstream and downstream of the proposed crossing. Topsoil was excavated from OHWM to OHWM (Photo 2) and segregated in upland area (Photo 3). Welding, X-ray, coating and blasting occurring downslope out of aquatic resource buffer. Trenching begun around aquatic resource area; mats utilized to prevent compaction.

10-24-2023 - No flow. Excavation of trench in aquatic resource area (Photo 4) and downslope, sandbags placed in trench for pipe support, pipe lowered into trench (Photo 5).

10-25-2023 - No flow. Welding and X-ray outside of aquatic resource area.

10-26-2023 - No flow. Welding ongoing outside of aquatic resource area.

10-27-2023 - No flow. Trench breakers construction within 25 feet of aquatic resource area on both sides. Padding dirt added into trench (Photo 6). Welding and X-ray work completed in trench outside of aquatic resource. Backfilled occurred in aquatic resource area.

10-28-2023 - No flow. Additional padding dirt and backfilling into trench. Trench breaker construction completed. Additional backfill completed in aquatic resource area. Dams for flumes removed (no flow during crossing process). Survey onsite (Photo 7). Top 12 inches of topsoil was returned to aquatic resource area and adjusted as need to achieve proper elevations based on survey data. Aquatic resource was seeded (Photo 8) and curlex was applied for stabilization. Crossing remained dry throughout construction process.

Post Construction Notes

Site was an old logging road and grass covered prior to construction. The OHWM were the only survey data available. The substrate could not be differentiated from adjacent soils and bed and bank features were not present. Post construction channel was restored within the OHWM with segregated soils and then curlex was applied to promote stability while site revegetates.

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

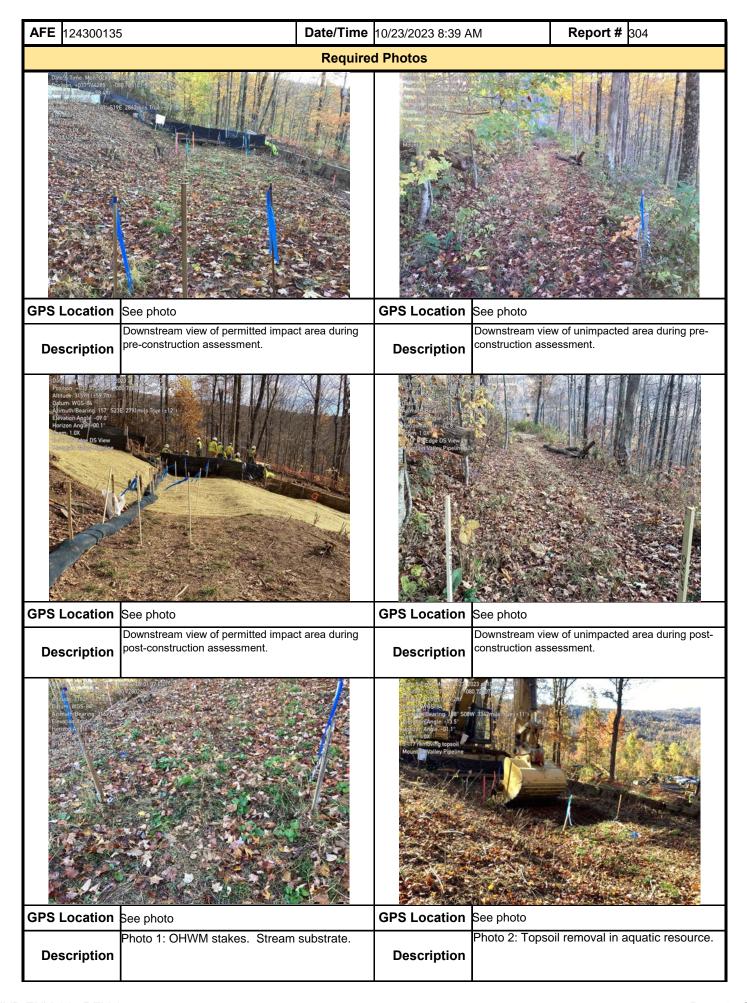
18. Low score partially due to lack of flow as well as lack of instream substrate and associated physical habitat.

19. Does not include timber mats that remain 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	10/28/2023

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AFE **Date/Time** 10/23/2023 8:39 AM Report # 304 124300135 **Optional Photos GPS Location** See photo **GPS Location** See photo Photo 3: Topsoil segregated and stored in Photo 4: Excavating trench through aquatic ıpland area. esource. **Description Description GPS Location GPS Location** See photo See photo Photo 6: Trench breaker in place; filling trench Photo 5: Lowering pipe into trench within with padding dirt. aquatic resource area. **Description Description** GPS Location See photo **GPS Location** See photo Photo 7: Surveying for topsoil elevations in Photo 8: Seeding in aquatic resource area. aquatic resource area. **Description Description**

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