Mountain Valley Stream Biological Conditions EA Report													
Project Name H-600 Pipeline			eline	Spread D	Α	FE	124300132	2	Spread	H-6	600 Pipeline	Spread D	
Contractor Precision				Report # 496			96						
Environ	Environmental Auditor Kyle Gillow Date/Time 2/2/2024 9:10							AM					
Stream ID S-147				Crossing Sta	rt Date	2/2	/2024	Cross	ing Comple	etio	n Date 2/6/	/2024	
Milepost 118.		118.30			Pre-Con Assessment Date		1/3	1/2024	Post-Con Assessment Date 2/7			/2024	
Station		6246+36			Bankfull Width (ft.) 2.0			Riffle:Pool Complexes Present?			No		
State		WV			Stream Classification		Intermittent		.				
С	ounty	Nichola	ıs		303(d) Impairment	303(d) Impairment Listing No							
					Resource Pos	-Cros	sin	g Conditio	ons				
1	Were	all app	licable res	sour	ce specific crossing co	ndition	s sa	atisfied?					N/A
-	Time o	of Year	Restrictio	ons ((TOYR)? <u>N/A</u> Mus	sel Re	loc	ation? _ 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												
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		ninant Mud/Silt		Тур	e (select one):Bedrock, E	Boulder (>10	'), Cobble (2-	-10"), Grav	vel (0.1-2"), Sa	nd	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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	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)	eddedness, ic onditions in	1	2		
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

2/2/24 - The top 12" of soil between the high water marks was placed in super sacks, and stockpiled just upstream. With minimal flow in the stream, a flume/dam and pump around conveyance system were setup and used throughout the crossing on an as needed basis. After excavation was complete the trench was lined with sandbags prior to lowering in and making the first tie-in welds on the going away side (GAS) of S-I47.

2/3/24 – The welds on the GAS of the stream were x-rayed and coated while welding operations were conducted on the coming in side(CIS) of S-I47. By the end of the day, both trench breakers were installed on either side of S-I47 and the CIS welds were x-rayed and coated prior to the beginning of padding and backfilling through the stream.

2/4/24 - No work was conducted on Sunday.

2/5/24 – Backfilling continued through the feature in preparation for final grade. The environmental crew began installing the super silt fence at the 10' buffers on both the CIS and GAS of the feature.

2/6/24 – The top 12" of the stream substrate was restored and all elevations and contours were verified by civil survey to pre-construction specifications. The environmental crew finished seeding and installing curlex inside the 10" buffer zones on both the coming in and going away sides of the feature. The dam and pump around were removed with the feature continuing to have minimal flow.

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	
Kyle	e Gillow	In In	SWCA	2/7/2024	

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AFE Date/Time 2/2/2024 9:10 AM 124300132 Report # 496 **Optional Photos** 02/02/2024 10:35:59 +38.284178,-80.685980 38.284281,-80.68588 8° N S-I47 (Dur_KG) S-I47 (Dur_KG) GPS Location See caption in photo. **GPS Location** See caption in photo. Crew bagging stream substrate to be Crew trenching through feature. segregated and stored up ROW from feature. **Description** Description)2/02/2024 12:46:03 -38.284176,-80.68584 02/03/2024 10:08:22 +38.284700,-80.685840 233° SW S-I47 (Dur_KG) S-I47 (Dur_KG) **GPS Location GPS Location** See caption in photo. See caption in photo. Crew lowering section through feature. Crew making the tie in weld on the coming in side of the feature. **Description** Description +38.284250,-80.6 S-147 (Dur_KG) S-I47 (Dur KG) GPS Location See caption in photo. **GPS Location** See caption in photo. Crew backfilling feature inside of the trench Crew installing the top 12" of stream substrate back in between the ordinary high water marks. breakers. **Description Description**

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