Mountain Valley Stream Biological Conditions EA Report														
Project Name H-600 Pipeline			eline	e Spread D AFE 124300132			2	Spread	H-(H-600 Pipeline Spread D				
Contractor Precision				Report # 443					.3					
Environ	Environmental Auditor Kyle Gillow Date/Time 12/19/2023						/19/2023 10	:47 AM						
Stream ID S-H99				Crossing Start Date 12/19/2023 Crossing Completion Date						n Date 12/2	21/2023			
Milepost 115.99				Pre-Con Assessment Date 12/14/2023 Post-Con Assessment Date					nt Date 12/2	21/2023				
Station 612		124+1	6		Bankfull Width		t.)	4.0		Riffle:Pool Complexes Present?		resent?	No	
State W∀				Stream Clas	sification	F	Pereni	nial				•		
С	ounty N	lichola	S		303(d) Impair	ment Listi	ng	No						
Resource Post-Crossing Conditions														
1	Were al	ll appl	licable res	ourc	e specific cross	ing conditi	ons	satis	fied?					N/A
-	Time of	Year	Restriction	ns (ΓΟΥR)? <u>N/A</u>	Mussel	Rel	ocatio	n? <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													
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	Predom (<0.1"), M			Туре	e (select one):Be	drock, Bould	er (>	•10"), C	obble (2-	-10"), Gra	avel (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.)						4							

MVP-ENV-14 REV 1 Page 1 of 4

AFE	124300132	Date/Time	12/19/2023 10:47 AM	Report	# 443	
	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)	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	manmade emba ered/natural stre	nkments, constrictions w/in channel, li am), 2-Minor (20-40% of resource dis	ivestock or rupted by	1	2

Additional Notes

12/19/23 – Prior to any ground disturbance, a dam and pump around conveyance system were installed using a 2" submersible pump due to the low flow volume. The top 12" of stream substrate was placed into super sacks and stockpiled in an upland area during construction. Once trenching was completed, the trench was lined with interval spaced sandbags for the pipe to rest on. After the pipe that extended from the coming in side (CIS) loose end to 50' past the stream channel on the going away side (GAS) was lowered in, it was observed that the CIS end section of pipe would need to be cut out and re-engineered to make the tie in weld.

12/20/23 – After the CIS section of pipe was cut out, re-engineered, and lowered back into the ditch, welding operations began on the section closest to the stream on the CIS of the stream. Once the first weld was completed and in the process of making the tie in weld on the CIS loose end, trench breakers were installed on the CIS and GAS of the stream. Padding of the pipe and backfilling of the trench were completed to approximately 25' on either side of the stream channel by the end of the day.

12/21/23 - The top 12" of soil for the 10' buffer zones, stream banks, and stream channel were restored and verified by survey to pre-construction specifications. The proper seed mix and curlex were applied to the disturbed areas along the stream banks with silt fence at the 10' buffer zones on the CIS and GAS of the stream. The pump around conveyance system was removed and the streams natural flow was re-established. The stream channel and banks were secured out to the 25' buffer area, and the 50' buffer zones will be completed after the Christmas break.

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 Gillow	Man	SWCA	12/21/2023	

MVP-ENV-14 REV 1 Page 2 of 4



MVP-ENV-14 REV 1 Page 3 of 4



MVP-ENV-14 REV 1 Page 4 of 4