Mountain Valley PIPELINE LE Stream Biological Conditions EA Report													
Pr	Project Name H-600 Pipeline Spread D AFE 124300132 Spread H-600 Pi						600 Pipeline	Pipeline Spread D					
Contractor Precision								Report #	30)9			
Enviror	Environmental Auditor Gary Cruz Date/Time 10/20/2023						/20/2023 2:	39 PM					
Stre	am ID	S-J24s	-J24s Crossing Start Date 10/17/2023 Crossing					sing Comple	etio	n Date 10/	24/2023		
Mi	lepost	st 120.45		Ī	Pre-Con Assessment Date 10/17/2023			Post-	Post-Con Assessment Date 10/2			25/2023	
S	Station	on 6359+62			Bankfull Width (ft.) 15.0		15.0	Riffle:Pool Complexes Present?			No		
State		ite WV			Stream Classification Perennial								
С	County Nicho		ıs		303(d) In	npairment Lis	ting	рН					
Resource Post-Crossing Conditions													
1	Were	all appl	licable res	ource	e specific	crossing cond	ition	s satisfied?					See Below
ľ	Time of Year Restrictions (TOYR)? Yes 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 X Flume X 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						
	Biological Conditions Pre-Con							Post-Con					
15		minant Mud/Silt		Туре	(select o	1e): Bedrock, Bou	lder (>10"), Cobble (2-10"), Gra	avel (0.1-2"), Sa	ınd	Cobble (2-10")	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 unvegetated banks							2					
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	10/20/2023 2:39 PM	Report	# 309	309	
	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	nanmade 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

Expanded notes for question 1: Stream S-J24s has a time of year restriction (TOYR) prohibiting construction between Sept. 15th to March 31st. A waiver has been obtained from the appropriate agencies to allow construction within this window.

10/17/2023 - A pump and dam conveyance system was established prior to the removal of the surface rocks in the stream channel which were stockpiled on geotextile fabric. The top 12" of substrate between the high water marks was segregated and stockpiled on geotextile fabric. The contractor excavated the ditch line and lowered-in the section of pipe for the stream. A flume pipe was installed at the end of the day for overnight conveyance of the stream. The flume was used throughout the crossing on an as needed basis.

10/18/2023 - No construction activities were conducted within stream S-J24s. A tie-in weld was made in the upland area of S-J25 on the going away side (GAS), while backfilling began on the coming in side (CIS) of stream S-J25.

10/19/2023 - The tie-in weld on the GAS of S-J24s was made and the contractor continued to backfill the upland trench on CIS and GAS of S-J25. Impervious trench breakers were installed on the CIS and GAS of S-J25 at station numbers 6357+97 & 6358+36 respectively, while river weights were installed on the CIS and GAS of the S-J24n and S-J24s at station numbers 6359+46 & 6359+77 respectively. Using stream subsoil the contractor padded the pipe and backfilled the stream to within 12" of grade on S-J25.

10/20/2023 - No construction activities were conducted due to a rain out.

10/21/2023 – Only dewatering activities were conducted at S-J24s. No construction activities were conducted within S-J24s due to the crew relocating equipment to a new crossing (S-J22) on Canvas Nettie Rd.

10/22/2023 - The contractor dewatered the ditch line and installed impervious trench breakers on the CIS and GAS of the stream at station numbers 6359+32 & 6359+86 respectively.

10/23/2023 - Most of the day was spent dewatering S-J24n & S-J24s while jeeping and coating was conducted on the GAS of S-J24s. Using subsoil the contractor padded the pipe and backfilled the trench to within 12" from top of grade for S-J24n and S-J24s.

10/24/2023 – Stream S-J24s substrate and bedrock was replaced and survey verified that all elevations and contours met pre-construction specifications. Erosion control devices were installed on the boundaries of the stream and the proper seed mix was applied before reestablishing flow to the stream.

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
Gary Cruz	Sh	SWCA	10/25/2023

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