Mountain Valley Stream Biological Conditions EA Report																
Pr	Project Name H-600 Pipeline Spread C AFE 124300131 Spread H-600 Pip) Pipeline	ipeline Spread C								
Contractor Precision				-					Repo	rt#	295					
Environ	Environmental Auditor Brian Montgomery Date/Time 10/10/2023 10:3									:39 AM						
Stre	am ID	S-F43				Crossi	ng Start I	Date	10/10/2	2023	Cros	sing Con	nplet	tion I	Date 10/	14/2023
Milepost		82.78		Pre-Con Assessment Date 10/6/2023			Post-	Post-Con Assessment Date 10/				16/2023				
Station		4370+74			Bankfull Width (ft.) 10.0 Riffle:Pool Complexes Present			sent?	No							
State		, WV		Stre	Stream Classification Perennial											
С	County Webster		er		303(d) Impairment Listing No											
Resource Post-Crossing Conditions																
1	Were	all app	licable r	esour	rce spec	cific cros	sing cond	itions	s satisf	ied?						See Below
-	Time of Year Restrictions (TOYR)? Yes Mussel Relocation? N/A															
2	This q	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									
							Conditio								Pre-Con	Post-Con
15		minant Mud/Silt		te Typ	pe (sele	ct one):Be	edrock, Bou	lder (>10"), C	obble (2-	·10"), Gra	avel (0.1-2")), San	ıd	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.)						2									

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	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)	1	3				
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-F43 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.

Dewatering activities were conducted on as needed basis and monitored by the Environmental Inspector throughout the crossing.

10-10-2023. Although there was no flow observed in the stream throughout the crossing, a sandbag dam was constructed upstream of centerline. All prominent boulders were stockpiled on plastic sheeting in an upland area. The top 12 inches of stream bed substrate between the high-water marks was removed and stored in super sacks. After the trench was excavated the pipe was lowered in and welding commenced. A flume pipe was installed for potential stream flow and was used on an as need basis during the crossing.

10-11-2023. Only welding and x-ray operations were conducted throughout the day.

10-12-2023. Welding, x-ray, and coating operations continued throughout the day. A bag weight was installed at Station # 4370+84, as well as the bentonite trench breakers on either side of the stream at Station # 4370+67 & 4371+02.

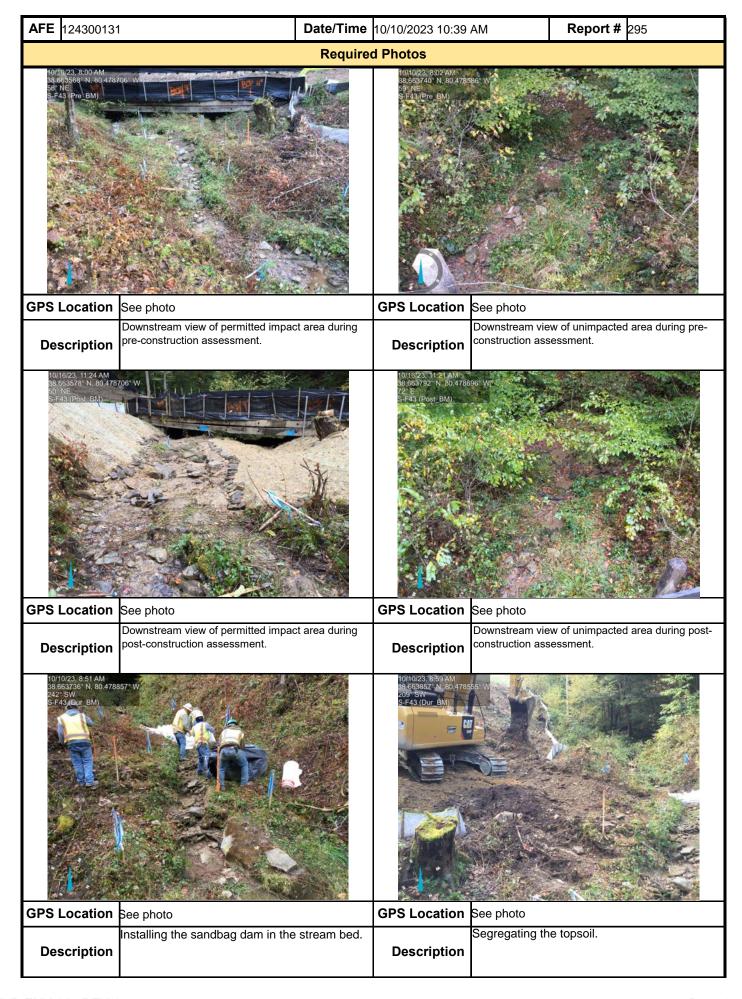
10-13-2013. Once welding, x-ray, and coating operations were complete, the pipe was padded and the trench was backfilled with remaining subsoil to within 12 inches of grade. The top 12 inches of the banks and stream topsoil were replaced, but the contractor ran out of daylight before survey could verify elevations.

10-14-2023. The final topsoil adjustments were completed and prominent rocks were returned to preconstruction locations. The contours and elevations were confirmed by survey to preconstruction specifications and stream banks were stabilized and seeded with the appropriate permanent seed mix in accordance with Appendix B: Restoration Work Plan of the C Mountain Valley Pipeline comprehensive stream and wetland monitoring, Restoration and Mitigation Framework.

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
Brian Montgomery	Bn	SWCA	10/16/2023

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