Mountain Valley Stream Biological Conditions EA Report												
Pr	Project Name H-600 Pipeline Spread C AFE 124300131 Spread H-600 Pi					600 Pipeline	Pipeline Spread C					
Contractor Precision			Precision					Report #	27	79		
Enviror	Environmental Auditor Kyle Gillow Date/Time 10/5/2023 12:							13 PM				
Stream ID		S-A98S		Crossing Start Date 10/5/2023		Crossing Completion Date 10/			10/2023			
Milepos		80.94		Pre-Con Assessment Date 9/26/2023		Post-Con Assessment Date 10/			12/2023			
Station		4273+70		Bankfull Width (ft.) 7.0		Riffle:Pool Complexes Present?			No			
State		te WV		Stream Classification In		Intermittent	ntermittent					
County		Webste	r	303(d) Impairment Listing No								
	Resource Post-Crossing Conditions											
1	Were	all appl	licable resoι	ırce specific crossing condi	tion	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											
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	1 9 1						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 Conditio						Pre-Con	Post-Con	
15		minant Mud/Silt	-	pe (select one):Bedrock, Boul	der (>10"), Cobble (2-	-10"), Gra	vel (0.1-2"), Saı	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						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						

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	Biological Co	nditions Co	ntinued		Pre-Con	Post-Con
18	Instream Habitat Conditions: Examples: Varied substrate sizes, varied combination of water velocities & depths, presence of woody/leafy debris, stable substrate with low amount of mobile particles, low embeddedness, shade protection, undercut banks, root mats, Varied combination of water velocities, submerged aquatic vegetation Rating: 1-Optimal (Habitat conditions present in >50% of resource), 2-Suboptimal (Habitat conditions in 30-50% of resource), 3-Marginal (Habitat conditions in 10-30% of resource), 4-Poor (Habitat conditions in 0-10% of resource)					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	vestock or rupted by	1	2

Additional Notes

Expanded notes for question 1: Stream S-A98S 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.

10/5/23 - Due to stream S-A98S being a dry crossing, the flume along with the pump and dam were setup the day prior to the start crossing date. The top 12" of soil between the high-water marks was placed in super sacks and stockpiled just upstream. During trenching, some hammering was required to remove rock from the ditch.

10/6/23 - Trenching was completed through the feature and the ditch was padded with sandbags in preparation for lowering of the pipe. After the pipe was lowered in, the crew started welding on the going away side of the crossing.

10/7/23 – The final welds on the coming in and going away sides were completed.

10/8/23 - No work was conducted on Sunday.

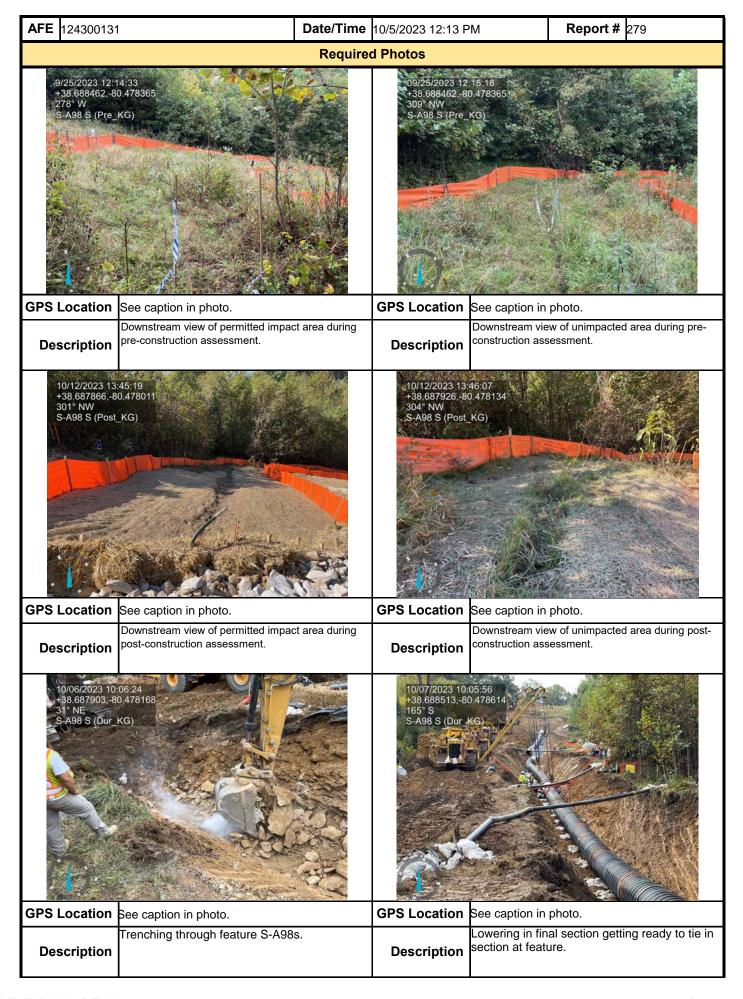
10/9/23 – All efforts were conducted on the 2 features (S-A97 & S-A98N) downhill and just to the north that were started the day before entering S-A98S. This was in preparation for completing all 3 streams.

10/10/23 – Restoration of S-A98S began with padding of the pipe beyond the 10' buffer zones on both sides and the installation of the trench breakers on both the coming in and going away side of the stream. The top 12" of soil was restored between high water marks and verified by survey to the pre-construction specifications. The environmental crew seeded and installed Curlex on the banks with silt fence being installed at the 10' buffer zones on both the coming in and going away side of feature. The flume and pump around were removed with stream S-A98S continuing not to have 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 Gillow	16 a	SWCA	10/12/2023

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