<b>\</b>	Mo	unta V	ain alley		Stream Bio	lo	gic	al Co	ndit	ions E <i>A</i>	\ F	Report	
Project Name H-600 Pipeline			H-600 Pipe	eline	e Spread D			Spread	Н-6	H-600 Pipeline Spread D			
Contractor Precision Report #					334	334							
Environ	Environmental Auditor Scott Wessel Date/Time 10/31/2023 7:0							9 AM					
Stre	am ID	S-L35-2	2		Crossing Start D	Crossing Start Date 10/31/2023 Crossing Completion Date 11						n Date 11/0	6/2023
Mil	lepost	124.92			Pre-Con Assessment D	Pre-Con Assessment Date 10/31/2023 Post-Con Assessment D				nt Date 11/0	6/2023		
S	tation	6595+8	34		Bankfull Width	(ft.)	4.0		Riffle:F	ool Complexe	es P	resent?	No
	State	WV			Stream Classification		Pere	nnial				*	
С	ounty	Nichola	ıs		303(d) Impairment List	ing	No						
					Resource Post-Ci	oss	sing	Conditio	ns				
Were all applicable resou			licable res	our	rce specific crossing condi	ion	s sat	isfied?					See Below
-	Time o	of Year	Restrictio	ons (	(TOYR)? Yes Musse	Re	elocat	tion? <u>N</u>	Ά_				
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 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?					9-	Yes						
8	Were any field modifications to the stream implemented by project or regulatory personnel to address potential drainage or bank restoration limitations?					address	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?					vent	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?					nd stream	Yes						
11	Was t	Was the time of disturbance minimized by conducting resource work continuously to completion?					tion?	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 Conditio	าร							Post-Con
15		<b>ninant</b> Mud/Silt		Тур	pe (select one):Bedrock, Boul	ler (	(>10"),	Cobble (2-	10"), Gra	avel (0.1-2"), Sa	nd	Mud/Silt/Cl ay	Mud/Silt/Cl ay
16	Margina	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	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						

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AFE	124300132		Report	# 334		
	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	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	manmade 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**

Expanded Notes for question 1: Stream S-L35-2 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.

10/31/23 – A dam and pump around method was installed and utilized throughout the crossing. The top 12" of stream substrate material was removed, put into labeled super sacks, and staged in an upland area. The substrate material mainly consisted of small pebbles, silt, and mud. The topsoil from stream banks were removed and segregated from subsoil material in an upland area on the coming in side (CIS) of resource. The crew hit solid rock soon after trenching started and a blasting crew was called in for the following day.

11/1/23 – After blasting operations were completed on the CIS and going away side (GAS) of the stream, trenching of S-L35-2 continued.

11/2/23 - Pipe preparations on the CIS of the resource continued with welding, x-ray, and the installation of rock shield covering. The contractor spent most of the day removing spoils from the ditch to get to the required depth. The ditch was lined with sandbags after the water was pumped out to the dewatering structure that was staged on the CIS of the resource.

11/3/23 – The pipe section for S-L35-2 was lowered in, a bentonite trench breaker on the GAS was installed at station number 6596+28, and padding of the pipe began.

11/4/23 – Once the trench breaker on the CIS was installed at 6595+56, the pipe was padded and backfilled. The topsoil for the 10ft. buffer zone on the GAS was restored to pre-construction specifications and verified by survey.

11/5/23 - No work was conducted on Sunday.

11/6/23 – Once the topsoil for the buffer zone on the CIS was restored to pre-construction specifications, erosion control blankets were installed along with applying the proper seed mixture for the 10ft. buffer zones on both sides of the stream. Super silt fence was installed outside the 10ft. buffer zone areas on both sides of the crossing. Survey verified that the top 12" of substrate for S-L35-2 between the high water marks of the stream channel was restored to pre-construction elevations and contours. The pump and dam were removed, and the flow of the stream was restored.

Numbers 17 and 18 were rated "4" and "3" due to lack of vegetation in the impact area following the completion of crossing and restoration efforts. The disturbed area for stream S-L35-2 was properly stabilized and has been seeded with the appropriate permanent seed mix in accordance with Appendix B: Restoration Work Plan of the 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
Scott Wessel	ht The	SWCA	11/6/2023

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<b>AFE</b> 124300132	2	Date/Time	10/31/2023 7:09 A	AM	Report #	334		
	Require			ed Photos				
	S SPIN SWILL			001(2023 10.3855) 38 (2014) 7-80 (1920) 38 (2014) 7-80 (1920) 38 (2014) 7-80 (1920)				
GPS Location	See coordinates in above photo.		<b>GPS Location</b>	See coordinate	s in above pho	oto.		
Description	Downstream view of permitted impact pre-construction assessment.	t area during	Description	Downstream vie construction ass		area during pre-		
11/06/2023 14.55.43 +38.203084_80.71938 37* NE S-L35-2(post-SW)			11/06/2023 14-58-15 +38-203157-80-71921 306*NW S-L35-2(post-S/W)					
GPS Location	See coordinates in above photo.		GPS Location	See coordinate	s in above pho	oto.		
Description	Downstream view of permitted impact post-construction assessment.	et area during	Description	Downstream vieconstruction ass		area during post-		
	8 203122_80 718370 0° SE 235-2(dur-SW)			18 Sam 57 1940 18 Sam 57 1940 19 Sam 57 19 Sam 57 1				
GPS Location	See coordinates in above photo.		GPS Location	See coordinate	s in above pho	eto.		
	Blasting crew on site drilling to se the GAS of resource.	t charges on	Description		oviong spoils t	rom ditch once		

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