Mountain Valley Stream Biological Conditions EA Report													
Project Name H-600 Pipeline			eline	e Spread D AFE 124300132			Spread	H-6	H-600 Pipeline Spread D				
	Contractor Precision Report # 335						5						
Environ	Environmental Auditor Scott Wessel Date/Time 10/31/2023 8:2								20 AM				
Stream ID S-L35-3				Crossing Start Date 10/31/2023 Crossing Completion Date 11					n Date 11/	7/2023			
Milepost 125.16				Pre-Con Assessment Date 10/31/2023 Post-Con Assessment Date				nt Date 11/	7/2023				
S	Station	6608+4	ļ1		Bankfull Width (ft.) 4.0		Riffle:Pool Complexes Present?			No			
	State	WV			Stream Classific	ation	Pei	rennial				•	
С	ounty	Nichola	as		303(d) Impairment	Listing	No						
	-				Resource Pos				ons				
1	Were	all app	licable res	our	ce specific crossing c	ondition	s sa	atisfied?					See Below
-	Time o	of Year	Restrictio	ns ((TOYR)? <u>Yes</u> Mu	ıssel Re	loc	ation? _ N	<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 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 tl	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	Predominant Substrate Type (select one):Bedrock, Boulder (>10"), Cobble (2-10"), Gravel (0.1-2"), Sand (2-10") (<0.1"), Mud/Silt/Clay						Cobble (2-10")	Cobble (2-10")					
16	Margina unveget	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							

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	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	ivestock or rupted by	1	1	

Additional Notes

Expanded Notes for question 1: Stream S-L35-3 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 flume and pump/dam conveyance system for the stream flow was used and interchanged throughout the crossing as needed. The top 12" of stream substrate material was removed, put into labeled super sacks, and staged in an upland area. The topsoil from stream banks was removed and segregated from subsoil material in an upland area on the coming in side (CIS) and going away side (GAS) of the resource. The crew hit solid rock soon after trenching started and a blasting crew was called in for the following day.

- 11/1/23 Pipe preparations were being carried out on the CIS of crossing with welding and x-ray, while blasting operations were being conducted most of the day on the CIS and GAS of the resource.
- 11/2/23 Pipe preparations on the CIS of the resource continued with coating and installation of rock shields. Blasting operations continued on an 80ft. section of the CIS throughout the day.
- 11/3/23 Trenching operations commenced and hammering was required to achieve appropriate trench depth.
- 11/4/23 Once trenching was completed the ditch was lined with sandbags, the pipe was lowered in, and the padding of the pipe began.
- 11/5/23 No work was conducted on Sunday.
- 11/6/23 Trench breakers on the CIS and GAS were installed at station number 6608+14 and 6608+93, respectively. Padding of the pipe and backfilling was completed. Survey verified that the topsoil for the 10ft. buffer zones on the CIS and GAS were put back to pre-construction specifications.
- 11/7/23 The proper seed mixture was applied to the 10ft. buffer zone on both sides of the stream prior to the installation of erosion control blankets and triple stack 18" filter sock being installed above the high water marks. 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-L35-3 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-L35-3 has been 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	St War	SWCA	11/7/2023	

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AFE 124300132	2	Date/Time	10/31/2023 8:20 A	M	Report #	335	
		Required	d Photos				
© 5 a b	SS POWER SOUTH STATE OF THE STA			ACOUNT TOOLS			
GPS Location	See coordinates in above photo.		GPS Location	See coordinate	s in above pho	oto.	
Description	Downstream view of permitted impact pre-construction assessment.	ct area during	Description	Downstream view construction ass		area during pre-	
11/07/2023 14:08:45 +38:200292,-80.71711 325* NW S-L35-3(post-SW)			11(07/2023) 41.44.00 +38.200404, -80.71725(348° N S-L35-3(post-SW)				
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.	ct area during	Description	Downstream view construction ass		l area during post-	
	All SPACE (10.48%) All SPACE (10.48%) N. H. L. S. S. (d.u. Byr)		11/03/2023 12:08:48 +38.200334,-80.71729 130° SE S-L35-3(dur-SW)				
GPS Location	See coordinates in above photo.		GPS Location	See coordinate	s in above pho	oto.	
	Blasting crew on site drilling to se	et charges.	Description			ditch on the CIS	

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