4	Mo	unta	ain /alley		Stre	am Bio	lo	gio	al Co	ndit	ions E <i>A</i>	\ F	Report	
Project Name H-600 Pipeline Spread D AFE 124300132 Spread H-600 Pipe							600 Pipeline	eline Spread D						
	Contractor Precision Report # 314													
Environmental Auditor Scott Wessel Date/Time 10/23/2023 8:0									06 PM					
Stream ID S-L38			Cros	sing Start D	ate	10/2	4/2023	Cross	sing Comple	etio	n Date 10/	29/2023		
Milepost 124.73			Pre-Con Assessment Date 10/23/2023 Post-Con Assessment Date			nt Date 10/	29/2023							
Station 6585+84			Bar	kfull Width	ft.)	3.0		Riffle:F	Pool Complexe	es P	resent?	No		
	State	WV			Stream C	lassification		Pere	ennial					
С	ounty	Nichola	ns		303(d) Imp	airment List	ing	No						
						urce Post-Cr			Conditio	ons				
1	Were	all app	licable res	our	ce specific cr	ossing condit	ions	s sat	tisfied?					See Below
1	Time o	of Year	Restrictio	ns ((TOYR)? <u>Y</u>	es_ Mussel	Re	loca	tion? N	<u>/A_</u>				
2	This q	uestion	is not app	plica	able 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?						nd stream	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	Predominant Substrate Type (select one):Bedrock, Boulder (>10"), Cobble (2-10"), Gravel (0.1-2"), Sand (<0.1"), Mud/Silt/Clay Bedrock, Boulder (>10"), Mud/Silt/Clay						Bedrock, Boulder (>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							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 Date/Time 10/23/2023 8		10/23/2023 8:06 PM	3/2023 8:06 PM Report		
	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	nanmade 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-L38 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.

10/24/23 – A flume and a pump/dam conveyance system were set up and used throughout the crossing in an as needed basis. The top 12" of stream substrate was placed into labeled super sacks while the topsoil from the stream banks were removed and segregated in an upland area on the going away side (GAS) of the crossing. After blasting activities were conducted in the resource area and buffer zones on the coming in side (CIS) and GAS of the crossing, trenching began.

10/25/23 - Trenching operations continued with the use of a rock hammer and by the end of the day trenching was completed.

10/26/23 - Pipe preparations on the GAS of S-L38 continued with welding, x-ray, and rock shield installation activities. The ditch water was pumped to a dewatering structure on the GAS of the crossing prior to the ditch being lined with sandbags. Dewatering of the ditch continued throughout the crossing on an as needed basis.

10/27/23 – Once the section of pipe for the stream crossing was lowered in, bentonite trench breakers were installed within 25 feet of the high water mark on both the CIS and GAS of S-L38 prior to padding and backfilling beginning.

10/28/23 – Once the backfilling of the pipe section for stream S-L38 was completed, the stream banks and buffer zones were restored using previously segregated topsoil. Erosion control blankets were installed along with proper seed mixture for the 10ft. buffer zone, and super silt fence was installed outside the buffer zone area on the CIS and GAS. The streams top 12 inches of substrate material will be added tomorrow.

10/29/23 – Survey verified that the top 12" of substrate for S-L38 between the high water marks of the stream channel were restored to pre-construction elevations and contours. The pump and dam was removed, and flow was restored to resource.

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-L38 has been properly stabilized and the disturbed area 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	A Was	SWCA	10/29/2023

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AFE 124300132	2	Date/Time	10/23/2023 8:06 PM		Report #	314
		Required	d Photos			
				NAACCO 8 (**SE) 18 - NAS (**SE) 18 - N		
GPS Location	See GPS in above photo.		GPS Location			
Description	Downstream view of permitted impact pre-construction assessment.	ct area during	Description	Downstream vie construction ass		area during pre-
	SS CASSON AND INSTRUMENT AND INSTRUM			15022 80.70548.40 71804 37 SW (38)0004 90)		
GPS Location	See GPS in above photo.		GPS Location			
Description	Downstream view of permitted impact post-construction assessment.	ct area during	Description	Downstream vie construction ass	w of unimpacted essment.	area during post-
	38, 20:54-06, -8.0 718-202 40° SE 1,3 M, dur-SW)		RV HS	88 205438-90 7192277 13 30 (du - SW)		
GPS Location	See GPS in above photo.		GPS Location	See GPS in ab	ove photo.	
Description	Pump and dam being installed fo S-L38.	r stream	Description	Large boulders segregated on		material being eam.

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AFE	124300132	2	Date/Time	10/23/2023 8:06 F	PM	Report #	314
				l Photos			
		December 19:38-55. December 29:35-55. Segur-SVV)			0077023 10 10 03 88 203589 80 718935 10 N. 138 (dus SV)		
GPS L	ocation	See GPS in above photo.		GPS Location			
Des	cription	Trench being lined with sandbags dewatering operations.	and	Description	Pipe section be being pumped structure.	eing installed. I out utilizing de	Ditch water was watering
		18.3204(5),-40.7(5.4(5) 18.3204(5),-40.7(5.4(5) 18.32(diz-Siv)			9 (25.05.00) 1818. 9 (25.00) 1818. 1. (36.00) 1818.		
GPS L	ocation	See GS in above photo.		GPS Location	See GPS in ab	ove photo.	
Des	cription	Pipe being padded on the CIS aft were installed.	er breakers	Description		nstalled on the	e CIS of resource
	10.311.8.3	789/2023 175.201 3.86(u.s.W)			0789/020 (0.8-84-41) 88 204957 - 50 717988 DS E 129 (dar SW)		
GPS L	ocation	See GPS in above photo.		GPS Location	See GPS in ab	ove photo.	
		Erosion control blanket and super installed on the CIS of S-L38.	silt fence	Description			ed once S-L38 wa

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