	Mo	unta	ain /alley		Stream Biological Conditions EA Report							
Project Name H-600 Pipeline			eline	e Spread C	A	<b>AFE</b> 124300131		Spread	H-60	00 Pipeline Spread C		
	Contractor Precision								Report #	223		
Enviro	Environmental Auditor Scott Wessel 9/5/2023 8:54 /							AM				
Str	eam ID	S-J70		Crossing Start Date 9/5/2023 Crossing Completion D				<b>Date</b> 9/2	4/2023			
М	ilepost	72.40			Pre-Con Assessment Date 9/2/2023 Post-Con Assessment Date				t Date 9/2	4/2023		
\$	Station	3822+7	2		Bankfull Width	(ft.)	26.8	Riffle:Pool Complexes Present?		esent?	No	
State		WV			Stream Classificatio	n	Perennial	Perennial				
(	County	Braxtor	า		303(d) Impairment Lis	ting	No					
					Resource Post-C	ros	sing Conditio	ns				
1	Were	all app	licable res	our	rce specific crossing cond	ition	s satisfied?					N/A
	Time	of Year	Restrictio	ons	(TOYR)? <u>N/A</u> Musse	el Re	location? <u>N</u>	A				
2	This q	uestior	n is not ap	plica	able in WV.							
3	Which crossing methods were utilized during the stream crossing? (If so select one or more)         Dam & Pump X       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				
Biological Conditions Pre-Con P									Post-Con			
15	15 Predominant Substrate Type (select one):Bedrock, Boulder (>10"), Cobble (2-10"), Gravel (0.1-2"), Sand (<0.1"), Mud/Silt/Clay Bedrock				Bedrock, Boulder (>10")	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						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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	Biologic	Biological Conditions Continued					Post-Con			
18	Instream Habitat Conditions:Exar depths, presence of woody/leafy debris, sta shade protection, undercut banks, root mat vegetation Rating: 1-Optimal (Habitat cond 30-50% of resource), 3-Marginal (Habitat c of resource)	elocities & addedness, c onditions in in 0-10%	1	1						
19	<b>Channel Alterations:</b> Examples: Str along banks, concrete/gabions/concrete b agricultural impacts Rating: 1-Negligible channel alterations), 3-Moderate (40-8	iprap/rock vestock or rupted by rupted)	1	1						
		Additior	nal Notes							
9/5/23 – Sandbag dams were installed on the upstream and downstream side of the right of way (ROW) and two 6" pumps were used for the pump around. This pump and dam system was used throughout the crossing of S-J70. A small amount of substrate, primarily pebble and cobblestone on the coming in-side (CIS) of the crossing was segregated into labeled super sacks. Bedrock was the dominant medium at the surface of the stream channel inside the high water marks. Blasting operations commenced and continued for most of the day, due to the steep slope on the going away side (GAS) of the stream. Once blasting was completed, large rocks and boulders were segregated to be used during restoration.										
9/6/23	- Blasting operation continued through	out the day on the G	GAS of stream S	S-J70.						
9/7/23 topsoil accide amoun gallon	9/7/23 – The sub-soil from the blasting operations was removed from the streambed and buffer zone and was segregated from the topsoil. The pipe was lowered in and the tie in weld on the CIS commenced. During dewatering operations, the hose was accidently connected to the line running to the upstream containment that was to be used only for emergency proposes and a sma amount of sediment entered the stream. The inspection team caught this very quickly and shut down the pumps. Approximately gallon of material was removed from the stream. This spill was self-reported to the Department of Environmental Protection (DEP)									
9/8/23 the GA had be no viol	9/8/23 – Trench breakers were installed, with bentonite on the CIS and concrete on the GAS within 25 feet from top of bank. On the GAS, a sandbag wall was constructed prior to the concrete wall so that the crew could build a revetment wall after the stream had been completed. Personnel from the DEP conducted an inspection of the site following the previous day's dewatering issue no violations were issued.									
9/9/23 stream on the	9/9/23 – Backfilling of the ditch started with the installation of river weights and sub-soil to within a few feet of the top of the streambed surface. Large rocks retrieved from the blasting activities were strategically placed back into the stream and the bank on the GAS of stream.									
9/10/23 to 9/15/23 – The stream pump around continued to be in use while the contractor continued the tie in welds on the GAS of the stream. No in-stream activity took place during these days.										
9/16/23 to 9/23/23 - The tie in crew moved out and a cleanup crew moved in to finish out the stream crossing and backfilling. Gabion baskets were installed on the GAS of stream crossing to stabilize hillside. The stream pump around continued to be in use during this time, but no in-stream activity took place during these days.										
9/24/23 – The CIS embankment and stream substrate material were restored to survey specifications and the requirements mentioned in Appendix B; Sections 3.4 and 4.1 of the Mitigation Framework were met. The pump and dam were removed, and stream flow was restored by 5 pm.										
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	)	Compan	y	Da	ate			
Scott V	Vessel	[+ [d]		SWCA		9/24/	2023			

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Required Photos								
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GPS Location	See gps in attached photo	GPS	S Location	See gps in attached photo				
Description	Downstream view of permitted impact pre-construction assessment.	ct area during	escription	Downstream view of unimpacted area during pre- construction assessment.				
	09/24/2023 17:32:05 +38.778922:40:525690 315' NW 3-J70 (post-SW)			09/24/2023 17:31:16 +38.779025,-80.525753 323* NW S-J70 (post-SW)				
GPS Location	See gps in attached photo	GPS	S Location	See gps in attached photo				
Description	Downstream view of permitted impact post-construction assessment.	ct area during	escription	Downstream view of unimpacted area during post- construction assessment.				
3 2 2 3 3 4 3 3 4 4 4 4 4 4 4 4 4 4 4 4	And SACIS II SACIS			Be decar and the state				
GPS Location	See gps in attached photo	GPS	S Location	See gps in attached photo				
Description	Blasting crew drilling in stream.	D	escription	Removing substrate material after blasting.				

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		<b>Optional Photos</b>		
	brde/broz los/bl47 Br72sr76-80 bocsb18 BP*SW J/Tr(clar-SW)		one of the base of	
<b>GPS</b> Location	See gps in attached photo	GPS Locatio	<b>1</b> See gps in attached photo	
Description	Pipe lowered in ditch and pumps	dewatering. Descriptio	Sandbag breakers being built. 1	
	8/08/2023 14:38:00 #77810205 525947 #77810205 525947 #77810		UNITION23 OB 30 14 38.778015-08.252733 23.780 SJTO(dut-SWI)	
GPS Location	See gps in attached photo	GPS Locatio	າ See gps in attached photo	
Description	Substrate material being put back installation.	k after pipe Descriptio	Filter sock and silt fence in place and stream crossig is complete.	until backfill
	aztarozzi te.es.op Barzene az socias- by: SW UTO(cur.SW)		BRACAUSA 14-18-31 USAT 78-20-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	
GPS Location	See gps in attached photo	GPS Locatio	າ See gps in attached photo	
Description	Gabion baskets being installed.	Descriptio	CIS stream bank being worked o	n.