		Stream Biol	ogical Co	onditions EA	Report		
P	roject Name H-600 Pipeline	e Spread C	AFE 12430013	1 Spread	H-600 Pipeline	e Spread C	
	Contractor Precision			Report #	250		
Enviro	Environmental Auditor Brian Montgomery Date/Time 9/19/2023 11:					03 AM	
Stre	eam IDS-L46	-		Crossing Comple	sing Completion Date 9/22		
Milepost 77.81		Pre-Con Assessment Da	te 9/16/2023	Post-Con Assess	Assessment Date 9/25/2023		
s	Station 4108+56	Bankfull Width (f	t.) 21.0 Riffle:Pool Complexes Presen		es Present?	No	
	State WV	Stream Classification	Perennial		Į		
C	County Braxton	303(d) Impairment Listi	ng No				
		Resource Post-Cro	-	ons			
1	Were all applicable resour	ce specific crossing condition	ons satisfied?			N/A	
	Time of Year Restrictions	(TOYR)? <u>N/A</u> Mussel I	Relocation? <u>N</u>	/A			
2	This question is not applic	able 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?						
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?						
7	Was the pre-construction survey data utilized during restoration in attempt to re-establish pre- construction contours?						
8	Were any field modifications to the stream implemented by project or regulatory personnel to address potential drainage or bank restoration limitations?						
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?						
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?						
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?						
13						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 Condition			Pre-Con	Post-Con	
15	Predominant Substrate Typ (<0.1"), Mud/Silt/Clay	be (select one): Bedrock, Boulde	er (>10"), Cobble (2-	-10"), Gravel (0.1-2"), Sa	nd Cobble (2-10")	Cobble (2-10")	
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					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	

AFE	124300131	Date/Time 9/19/2023 11:0	03 AM	Report	t # 250			
	Biol	ogical Conditions Continued			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 10-30% of resource), 4-Poor (Habitat conditions in 0-10% of resource)					3		
19	along banks, concrete/gabions/conc agricultural impacts Rating: 1-Neg							
		Additional Notes						
19 agricultural impacts Rating: 1-Negligible (unaltered/natural stream), 2-Minor (20-40% of resource disrupted by channel alterations), 3-Moderate (40-80% of resource disrupted), 4-Severe (>80% of resource disrupted) 1 2								
	Name	Signature	Compan	у	Da	ite		
Brian M	lontgomery	Br	SWCA		9/25/	2023		

AFE 12430013	FE 124300131 Date		ate/Time 9/19/2023 11:03 AM		Report #	250
Required Photos						
9/17/23, 11:50 AM 38 7/21782/ N-80.49 48° NE S4.46 (Pro_BM)		9/17/23, 11:50 AM 38,721946-1N, 80.4993 90° E S-L46 (Pro: BM)	33 ³ W			
GPS Location	•		GPS Location	-	_	
Description	Downstream view of permitted impact pre-construction assessment. Pre construction after rain event.	ct area during	Description	Downstream view construction asso Pre construction of	essment.	d area during pre- ain event.
GPS Location		ALL REAL	9/26/23.9:19 AM 39/72 1928' N. 80.4992 51 AB (Post BM)			
GFS LOCATION	Downstream view of permitted impact	ct area during	GFS Location		w of unimpacted	d area during post-
Description	post-construction assessment.		Description	construction asse		
9/21/23.3:22 PM 38.721790* N. 80.49 86* E S-L-46 (Dur BM)			9/21/23, 3/11 PM 38 /21041 NA 80 4993 1517 SE SL46 (Our BM)			
GPS Location			GPS Location			
Description	Installing the Bara-Kade plus tren	nch breakers	Description	Backfilling the p	pipe with pade	ling material.

AFE 124300131 Da		Date/Time	Date/Time 9/19/2023 11:03 AM		Report # 250		
Optional Photos							
9/22/23, 3:40 PM 38, 721811* N, 80.499; 14* N S-L46 (Dur BM)			9/22/23, 3:51 PM 38.722057 N, 80,4991 52° NE S-L46 (Dur BM)				
GPS Location			GPS Location				
	Replacing stream bed substrate, i order they were removed.	in the reverse	Description	Replacing streat located promine	am bed substra ent boulders.	ate, and GPS	
9/22/23, 9-53 AM 38, 721887* N, 80.499 295* NW S-L46 (Dur_BM)			9/21/23, 5:02 PM 38:721944* N, 80, 4989 320* NW S-L46 (Dur BM)				
GPS Location			GPS Location				
Description	Padding the pipe after trench brea installation.	aker	Description	Dam and pump Clear water, no	o outflow down o scouring or ei	stream off ROW. rosion.	
9/22/23 (3:55 PM 38.721693 N. 80.998 137 SE S-L46 (Dur BM)			9/22/23, 2008 FM 38.72/820* N 80.4993 99" E S-L46 (Dur BM)				
GPS Location	See photo		GPS Location	See photo			
Description	GPS boulders stored in plastic are placed back in the stream.	e now being	Description	Rebuilding the	stream banks.		