	Mounta	ain /alley	Stream Biol	0	gical Co	ndit	ions EA	Rep	oort	
Project Name H-600 Pipeline		H-600 Pipelin	e Spread F	e Spread F AFE 124300135			Spread	H-600 F	Pipeline	e Spread F
	Contractor Price Gregory				•		Report #	422		
Enviror	Environmental Auditor Aaron Crank Date/Time 12/4/2023 9:27							7 AM		
Stre	am IDS-MN2		Crossing Start Da	Crossing Start Date 12/4/2023 Crossing Completion Date				te 12/	23/2023	
Mi	Milepost 185.88		Pre-Con Assessment Da	re-Con Assessment Date 12/4/2023 Post			t-Con Assessment Date 12/2			23/2023
s	Station 9814+22		Bankfull Width (ft.)	t.) 5.0 Riffle:Pool Compl		ool Complexe	s Preser	nt?	No
	State WV		Stream Classification		Perennial			ļ		
C	county Monroe	9	303(d) Impairment Listi	ng	No					
	-		Resource Post-Cro	oss	ing Conditio	ns				
1	Were all app	licable resou	rce specific crossing conditi	ons	satisfied?					N/A
	Time of Year	Restrictions	(TOYR)? <u>N/A</u> Mussel	Rel	ocation? <u>N</u>	A				
2	This questior	n is not applic	able in WV.							
3	Which crossin Dam & Pump	ig methods we Flume X	re utilized during the stream c Cofferdam Convention				or more) irectional Drill	(HDD) B	ore	
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			
							Post-Con			
15	Predominant Substrate Type (select one):Bedrock, Boulder (>10"), Cobble (2-10"), Gravel (0.1-2"), Sand (<0.1"), Mud/Silt/Clay						Mud/Silt/Cl ay			
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 2 unvegetated banks 2						5			
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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	Biological Conditions Continued								
18	Instream Habitat Conditions depths, presence of woody/leafy deb shade protection, undercut banks, ro vegetation Rating: 1-Optimal (Habitat 30-50% of resource), 3-Marginal (Hal of resource)	ddedness, ; onditions in	2	4					
19	Channel Alterations:Example along banks, concrete/gabions/cond agricultural impacts Rating: 1-Negl channel alterations), 3-Moderate	estock or upted by	1	1					
Additional Notes									
Pre-Co 15. Sul 12/04/2 dams p blasting the day 12/05/2 within a 12/06/2 hamme skids o 12/11/2 resourc 12/12/2 pumpir trench 12/15/2 pipe in 12/16/2 recuttir 12/16/2 aquatio 12/19/2 aquatio 12/20/2 occurre 12/21/2 12/22/2 Backfill installe through 12/23/2 01/02/2 Post C 15. Sul 16., 17 been a 19. Do	Pre-Construction Notes Pre-Construction Meeting - 11/29/2023 15. Substrate consisted of roughly 40% gravel and 60% mud/silt/clay. Minimal disturbance observed. 12/04/2023 - Excavated top 12 inches of substrate (Photo 1) and segregated in upland area (Photo 2). Upstream and downstream dams put in place. Pump-around system set up. Holes drilled into aquatic resource area with John Henry, explosives placed for blasting (Photo 3). Blasted. Excavating trench and welding occurred outside aquatic resource area an coming-in side throughout the day. 12/05/2023 - Excavators removed soil displaced by blasting in aquatic resource. Flume pipe installed. No additional work occurred inthin aquatic resource. Trenching, hammering and welding occurred outside aquatic resource area throughout the day. 12/05/2023 - Excavators removed soil displaced by blasting in aquatic resource. Flume pipe installed. No additional work occurred inthin aquatic resource. Trenching, hammering, and welding occurred outside aquatic resource area throughout each day. Section of pipe placed on skids over aquatic resource (12/08/2023). No work occurred in resource area. Flume pipe remained in place. 12/11/2023 - Rain from previous day resulted in higher water level throughout aquatic resource in aquatic resource area. Welding, occurred outside aquatic resource area. Welding, sandblasting and coating occurred outside aquatic resource area. Internet throughout the day. Thume pipe remained in place. 12/14/2023 - Crew marked route of pipe centerline through aquatic resource. Tenching began in resource and restored over trench through aquatic resource. Began Welding. Flume pipe but due to wrong size had to begin the recuting and rewelding trench. Two yphout the day and continued overnight. Flume pipe removed and restored over trench in adjacent aquatic resource. Began Welding. Flume pipe but due to wrong size had to begin the recuting and rewelding process. 12/16/203 - Water pumped from trench in aquatic resource area. No work occurred in aquatic resource ar								
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	Signat	ure	Company	/	Da	ate		
Aaron (Crank	A)	Potesta		1/2/2	2024		

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			d Photos					
Date 27 - 2019 2019 Position - 029 2019 Attitude - 1929 11 - 11 70 Datum - W058-84 Azmuth/Bannar 2013 Honor Andre - 121 Honor Andre - 121 H	te daza da la constante de la		Date & Time, Mon. Dec Bir. Position, 4377 52003 - v.0 Antude 1739n - 111 201 Daum WOS-84 Resource Angle, 201 Sector Angle, 201 Construction, Angle					
GPS Location			GPS Location					
Description	Downstream view of permitted impact pre-construction assessment.	ct area during	Description	Downstream view of unimpacted area during pre- construction assessment.				
Dale 4. Time and Lan 02. Position - 025 (2002) - 00 Aridae : 1794-10 (2014) Datam W05-94 Battan W05-94 Common Angle - 21 Zoom 10 (2014) Data - 21	D22-31 IA4445 EST 00 707499 (L425 Th) W-U-U-INS THE (L13) INST CONTRACT OF CONTRACT.		Date 3 Time 540, Bee 22 (2) Position +033 519973 - 04 Attitude 17771 (211 37) Datum WE 544 Annut Beering, 308, N52 March Annie 200 Attitude 17771 (211 37) Date 02 Attitude 18771 (201 37) Attitude 187711 (201 37) Attitude 18771 (201 37) Attitude 187711 (201 37) Attitude 187711 (201 37) Atti					
GPS Location	See Photo		GPS Location	See Photo				
Description	Downstream view of permitted impact post-construction assessment.	ct area during	Description	Downstream view of unimpacted area during post- construction assessment.				
Datum Asimuth Brite Elevation Angles 112 Briten Angles 102 Sirken subdar forfermoval Million Parken Kowala Sak Hell marken Wasser			Date & Time Mon. Dec 04. 2 Position + 497 5204103 - 004 Attibute 1801 (+11110) Okum, WOS 985 - 14 Aufmahl Baarne 04. 1464 Elevation Angle - 403 Elevation Angle - 403 Stream additional elevation of the Aufmahl Baarne 04. 1464 Stream additional elevation of the Aufmahl Baarne 0					
GPS Location			GPS Location					
Description	Photo 1: Excavating top 12 inche	s of substrate.	Description	Photo 2: Substrate segregated in upland area.				

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			al Photos					
Date & Time Meja Sacar Position - 103 550 of 7 Attrude 197981 - is and Date with the sacar mention data and the sacar mention dat			Des er Marine Jacobier, en de Autorier de la companya de la compa	Y 944mile True (128)				
GPS Location			GPS Location					
Description	Photo 3: Drilling for blasting in aq resource.	uatic	Description	Photo 4: Excava resource.	ating trench th	rough aquatic		
Aintódo Unitado de California	MARKEN MARKEN			d AUTORAL - LA CARA				
GPS Location	See Photo		GPS Location	See Photo				
Description	Photo 5: Lowered pipe into trencl resource.	h in aquatic	Description	Photo 6: Adding	g river weights	i.		
And the standard st	da fer non 1 et 1 et 1 et 1 et 1 et 1 et 1 et 1 et							
GPS Location			GPS Location					
Description	Photo 7: Trench Breaker installec	1.	Description	Photo 8. Substr	ate restored.			