	Mounta	ain /alley	Stream Biol	0	gical Co	ndit	ions EA	Repor	t
Project Name H-600 Pipeline			e Spread F	e Spread F AFE 124300135			Spread	H-600 Pipelir	e Spread F
	Contractor Price Gregory						Report #	441	
Enviro	Environmental Auditor Eric Schicker Date/Time 12/14/2023 11						1:33 AM		
Stre	am IDS-CV27	7	Crossing Start Date 12/14/2023			Crossing Completion Date 12/2			/22/2023
Milepost 191.09			Pre-Con Assessment Date 11/30/2023 P		Post-	Post-Con Assessment Date 12/2			
s	Station 10089+55		Bankfull Width (ft.) 3.1 Riffle:Pool Complexe		s Present?	No		
	State WV		Stream Classification	-	Intermittent			I	
C	county Monroe	Э	303(d) Impairment Listi	303(d) Impairment Listing No					
			Resource Post-Cre			ns			
1	Were all app	licable resou	rce specific crossing conditi	ons	s satisfied?				N/A
1	Time of Year	r Restrictions	(TOYR)? <u>N/A</u> Mussel	Re	location?N/	A			
2	This questior	n is not applie	able in WV.						
3	Which crossin Dam & Pump		re utilized during the stream concerned of the convention of the convention of the convention of the convention				or more) virectional 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?						1 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							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	
15	Predominant (<0.1"), Mud/Silt		pe (select one):Bedrock, Bould	er (>	>10"), Cobble (2-	10"), Gra	avel (0.1-2"), Sar	nd Mud/Silt/C ay	l Mud/Silt/Cl ay
16		% stable banks),	g: 1-Optimal (80-100% stable banks 4-Poor (20-40% stable banks), 5-Se	·			,	1	1
17	100% heavy veg	getative cover),	n ROW and ≤50 ft. from Strea 2-Sub-optimal (30-60% mixed veg ntained area or farmland, impervio	etat	ed coverage), 3-	Marginal	l (<30% vegetativ		3

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	Biole	ogical Conditions Co	ntinued			Pre-Con	Post-Con		
18	Instream Habitat Conditions depths, presence of woody/leafy debi shade protection, undercut banks, roo vegetation Rating: 1-Optimal (Habitat 30-50% of resource), 3-Marginal (Hab of resource)	ris, stable substrate with low ot mats, Varied combination conditions present in >50%	amount of mobile of water velocitie of resource), 2-S	e particles, low embed s, submerged aquatic uboptimal (Habitat cor	dedness, nditions in	4	4		
19	Channel Alterations:Example along banks, concrete/gabions/conc agricultural impacts Rating: 1-Negl channel alterations), 3-Moderate	rete block, manmade embai igible (unaltered/natural stre	nkments, constric am), 2-Minor (20-	tions w/in channel, live 40% of resource disru	estock or pted by	1	3		
	Additional Notes								
Pre-Co 15. Pre	Pre-Construction Notes Pre-Construction Meeting - 11/28/2023 15. Predominate substrate noted as mud/silt/clay. 18. Low score due to lack of flow.								
	2023 - Sandbag dams placed and / substrate to containment area fo			e and substrate remo	oved (Pho	oto 1). Morc	oka used		
	2023 - Trench through resource be rench through resource complete		used to breaku	o bedrock, spoil rem	loved and	relayed to	upland		
12/16/2	2023 - No work in resource. Flume	e pipe remained in place.							
12/18/2	2023 - Water pumped from trench.	. Sandbags added to tren	ch for pipe pad	ding (Photo 4). Flum	ne pipe rei	mained in p	lace.		
12/19/2 replace	2023 - Flume pipe removed. Wate	r pumped from trench. Pi	pe section trans	sported to and set in	trench (P	hoto 5). Fl	ume pipe		
	12/20/2023 - Ongoing pipe alignment and welding. Water pumped from trench. Final pipe section transported to and set in trench. X-ray performed. Flume pipe remained in place.								
	12/21/2023 - Water pumped from trench. X-ray performed. Holiday detection, sandblasting and coating of welds ongoing. One trench breaker installed (Photo 6) and some backfilling of trench.								
12/22/2023 - Completed backfilling into buffer areas (Photo 7), going away side trench breaker completed and backfilled. Survey shooting elevations. Topsoil placed, elevations checked, seeded (Photo 8), and stabilized.									
1/5/202	1/5/2024 - Site revisited due to inaccurate photo.								
Post Construction Notes 17. Crossing and riparian areas have been recently restored. These areas will be monitored until 80% vegetative cover has been achieved and areas that do not have 80% vegetative cover within 30 days will be reseeded. 18. Low score due to lack of flow. 19. Does not include timber mats that remain in place for travel lane.									
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		Da	ite		
Eric Sc	hicker	En A	R	Potesta		1/5/2	2024		

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		Required	d Photos	
Date & Time Thu, Nov 30 /2 Position - 037 662769 /-01 Nititude 208511 + 60 2(h) apturm W05-84. Ajmuth/Bearing, 173, 507 Elyvation Angle - 00.6 Zoom : 0X 5. CVZ7 D5 view U5 edge L Moundain Valley Preeters	80 669809 (+:41 4h) E 3078mils Trae (±12)		DateSinter Intel No. 36 p Position 407 42244 - 0 Altitude 20841 - 11 - 3th Datum WOS-84 Aumulti Bearing 225 - 545 Elivation Angle - 123 Horzon Angle - 123 Biotzy DS web DS adde 1 Mourtan Valley Predices	SW. 4000mils True (±121)
GPS Location			GPS Location	
Description	Downstream view of permitted impac pre-construction assessment.	st area during	Description	Downstream view of unimpacted area during pre- construction assessment.
Altitude (982/t = 37 ft) Datum (VGS-84 Armuth Bearing 174: S06 Elevation Angle = 10.6 Horizon Angle = 10.6 Horizon Angle = 10.2 Zoami, 10X S-CV27 DS (wer from US E Molintain Valley Pipeline	dge L DD		Clubes Time (Fr. Dec 22 of 20 Rosinger 0374673) N. OB Anuales 2080(Fr. 20 Art Duton, VOS 967, 20 A Armulic Begger (Brian Korzen Anale, 20 A Armulic Begger (Brian) Armulic Begger (Bria	
GPS Location			GPS Location	
Description	Downstream view of permitted impact post-construction assessment.	t area during	Description	Downstream view of unimpacted area during post- construction assessment.
a face to the face of the second seco	CI U U Po de LIST CI U Po de TIST L U CIRIMITATI A TI L U CIRIMITATI A TI L U CIRIMITA		Date 3 Time The Dec 14 2 Position 10774273 - 100 Antibies 2024rt - 1720 Batum WG 54 Antibies 2024rt - 1720 Batum WG 54 Antibies Andre - 007 Herzin Antonio Andre - 007 Herzin Antonio Antonio Antonio Herzin Antonio Antonio Antonio Herzin Antonio Antonio Antonio Herzin Antonio Antonio Herzin Antonio Antonio Herzin Antonio Antonio Herzin Antonio Her	AV2/12/02/02/61 BIO MAGP (215 AID)
GPS Location	See Photo		GPS Location	
Description	Photo 1: Excavating top 12 inche	s of topsoil.	Description	Photo 2: Soil relayed into Morooka to be segregated in upland area.

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· · · ·		Optional					
Arian Barana Para Barayan Barana Sanara Bara			Altidise 2097ability Datum, WBSB Azmuth Bearnley DPA Elevation Angle: -11 SS Horizon Angle: -02 V Zom 0X S-CVZ7 addings sandbarg nil Montan Valley Pipeling S	REE, ILAGA ID ERT MULARMAR (LITER) Intrins True II 19 INTRI STrue I			
GPS Location		ah	GPS Location				
Description	Photo 3: Excavating through trend	cn.	Description	Photo 4: Adding sandbags to trench for support.			
Date a time free Dec bet and a time free Dec be Annuez 211an (1544) Balan Wolf and Balan (1544) Balan (1554) Balan (1554)	daga 14 de 60 est. Es articular en enterna enterna esta esta esta esta esta esta esta est		Data Angele	1.27.60 BV 1191mla True 1:14			
GPS Location	See Photo		GPS Location				
Description	Photo 5: Pipe lowered into trench	l.	Description	Photo 6: Trench breakers being construct and backfilling ongoing.	ed		
GPS L ocation	Pag Bhata		GPS Loorfier	Bas Basis			
GPS Location		lad	GPS Location				
Description	Photo 7: Aquatic resource area fil	iea.	Description	Photo 8: Seeding in aquatic resource area	d.		