	Mounta	ain Alley	Stream Biol		gical Co	ndit	ions EA	Report	
P	roject Name	H-600 Pipelin	e Spread E	A	FE 124300134	E 124300134 Sprea		H-600 Pipelin	e Spread E
	Contractor	Price Gregory	1				Report #	39	
Enviro	Environmental Auditor Allyson Kincaid Date/Time 8/15/2023 9:20							8 AM	
Stre	eam ID S-H88		Crossing Start Da	Crossing Start Date 8/16/2023 Cr			sing Comple	8/2023	
Milepost 130.36			Pre-Con Assessment Date 8/15/2023 Pos				t-Con Assessment Date 8/28/202		
s	Station 6883+01		Bankfull Width (ft.) 17.0		Riffle:Pool Complexes Present?			No	
	State WV		Stream Classification				Į		
C	County Nichola	is	303(d) Impairment Listi	ng	None				
	-1		Resource Post-Cro			ons			
1	Were all app	licable resou	rce specific crossing conditi	ons	s satisfied?				Yes
	Time of Year	Restrictions	(TOYR)? <u>N/A</u> Mussel	Re	location?N/	A			
2	This question	n is not applie	cable 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)?							No	
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.						See Below		
								Post-Con	
15	Predominant Substrate Type (select one):Bedrock, Boulder (>10"), Cobble (2-10"), Gravel (0.1-2"), Sand Bedrock, Boulder (<0.1"), Mud/Silt/Clay (>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 1 unvegetated banks 1							4	
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	124300134	Date/Time 8/15/2023 9:28 AM Report				rt # 39			
	Biol	Pre-Con	Post-Con						
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 (Hab of resource)	s, in 1	1						
19	Channel Alterations:Example along banks, concrete/gabions/cond agricultural impacts Rating: 1-Negl channel alterations), 3-Moderate	r 4	2						
Additional Notes									
Pre-Construction Notes *Bankfull width measured at OHWM stakes 15. Substrate is composed of larger material with fines interspersed, flow present. 18. Pre-Con - Timber mat present (travel lane) Pre-Construction Meeting @ 1000 (8/15/2023) Pre-Construction Assessment Completed; EI for Crossing is Johnny Graham Day 1 (8/16/2023)									
	substrate removed (Photo 1) and	d segregate	ed in upland area (Photo 2). B	lasting occurred after subs	trate removed	d.			
Day 2 and Day 3 (8/17/2023 and 8/18/2023) Excavating trench (Photo 3), hammering, and pumping from the trench.									
Day 4 (8/19/2023) Lowering pipe into trench.									
	(8/21/2023) g pipe in trench, welding, and sifti	ng soft fill d	lirt into the trench.						
Days 6, 7, and 8 (8/22/2023 - 8/24/2023) Additional digging of trench and welding outside riparian buffer, sifting of soft fill dirt into the trench. Trench breaks on both banks installed and stream trench filled (Photos 5 and 6).									
Day 9 (8/25/2023) Significant early morning storm event. Day spent maintaining erosion control, dewatering trench, maintaining pumps, etc.									
Day 10 (8/26/2023) Pumping from trench, general repair work from Friday's storm. Restoring riparian corridor on RDB including streambed. Survey of restored stream channel.									
Day 11 (8/27/2023) Placement of segregated substrate back into stream channel (Photo 7). Continued pumping of trench. Ongoing back filling and soft fill dirt into trench. Seeding of banks and riparian corridor on RDB. Restoring flow.									
 Day 12 (8/28/2023) Complete bank restoration on LDB (Photo 8). Stream flowing. Post Construction Assessment Completed. Post Construction Notes 14. During overnight trench dewatering of the stream crossing, the dewatering structure was inadvertently overtopped allowing sediment to leave the right-of-way and eventually settle within wan adjacent wetland. This was immediately reported to the WVDEP. The area was cleaned up and restored the same day. 16., 17. Crossing and riparian areas have been recently restored. These areas will be monitored until 80% vegetative coverage has been achieved and areas that do not have 80% vegetative cover within 30 days will be reseeded. 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	D	ate			
Allyson	Kincaid	C	10	Potesta	8/28	/2023			

AFE 124300	134	Date/Time	8/15/2023 9:28 AN	Λ Report # 39			
		Require	d Photos				
Date & Time: Toe, A Position - 1983 1327 Altitude: 24181 rc4 Datum: W055 sec Horizon Julian - 1995 Horizon Julian - 1995 S-H883 Uritaba - 1995 Mouillaim - 1995 Horizon Julian - 1995 Horizon - 1995 Hori	ing 15, 2023 at (0º 31-22 EDT 13, v. GBO 73D726 '1-22-64B dr		Attique: 24, 111 (±43.0h) Datom: Wes-84	025-10-25-50 P.DT 0250A(P (±19-50)) E (2833milo Troo (±1))			
GPS Location	on See Photo		GPS Location	See Photo			
Descriptio	Downstream view of permitted impart pre-construction assessment.	ct area during	Description	Downstream view of unimpacted area during pre- construction assessment.			
Attude 24151-147 Datum W65223	kug 28. 2023 at 10.56-22 EDT 100.730769* (c31.7k) 66* N86E 1527mils Trace13.5*		and the second s	RRZ AL LOSASZ EDT DYZASZY LEZSAH SIBRID TUG (+ 12			
GPS Location	on See Photo		GPS Location	See Photo			
Descriptio	Downstream view of permitted impar post-construction assessment. Rain occurring during photo	ct area during	Description	Downstream view of unimpacted area during post- construction assessment. Rain occurring during photo			
			Oate & Time Wed, Aug 16, Posidian - 2038 136/87 - 408 Alhude 24671 cell fill Dhum WoS-848 Asimut/Bearing, 160 - 530 Elevation Angle - 017 Borizon Angle - 022 Zoam - 108 S-H88 DHWM logoal centa Mountain Valley Pipeline	E 387mills Trge (±12)			
GPS Location	on See Photo		GPS Location	See Photo coordinates			
Descriptio	Photo 1. Stream substrate being	removed.	Description	Photo 2. Stream substrate segregated in upland area.			

AFE 124300134	4	Date/Time	8/15/2023 9:28 AN	1	Report #	39
		al Photos				
Date & Time: Sat. Aug. 15. Position: 4081 157757 . / -0 Altitude: 2418 fits 151.401 Datum: WGS-84 Azimuth/Bearing 166 . 512 Elevation Angle: e-0.3 Horizon Angle: e-0.3 Horizon Angle: e-0.3 Horizon I.0K S-H88 sandbags in strömm Mountair Valley Pieline				22 at 15 bit 0 bit 0 73053 - 15 a di V 4 mining and and a di argumanic an instal		
GPS Location			GPS Location			
Description	Photo 3. Trench through stream (OHWM.	Description	Photo 4. Pipe b	eing placed in	ito trench.
parent Trings Wead, ALOP 20 Pastion, 2008 1535-32 Datum, VOS - 946 Particular 24 OUT 155-92 (20 Datum, VOS - 946 Particular 25	RRA MISARA SCIENCE REPORTSCIENCES LA REPORTSCIENCE REPORTSCIENCES LA REPORTSCIENCE REPORTSCIENCES LA REPORTSCIENCE REPORTSCIENCES LA REPORTSCIENCE REPORTSCIENCES LA REPORTSCIENCE REPORTSCIENCES LA REPORTSCIENCES REPORTSCIENCES LA REPORTSCIENCES REPORTSCIENCES LA REPORTSCIENCES REPORTSCIENCES LA REPORTSCIENCES REPORTSCIENCES LA REPORTSCIENCES REPORTSCIENCES LA REPORTSCIENCES REPORTSCIENCES LA REPORTSCIENCES REPORTSCIENCES REPORTSCIENCES LA REPORTSCIENCES REPORTSCIENCE		Oline Similaria	22341 122 A D2 EDT 2 201007 : 2357 501 (C 24) 3mils True (s) 2 (million (c) 2010 (c) 2010 (c) 2010 (c)		
GPS Location			GPS Location			
Description	Photo 5. Trench breaks installed	on RDB.	Description	Photo 6. Strear trench breakers	mbed portion c s on LDB.	of trench backfilled,
And the second s	zzz al (BIR SVED) St. ZIAAK al (D. I)) Warden and the set of the University of the set of the University of the set of th					
GPS Location			GPS Location			
Description	Photo 7. Streambed substrate res	stored.	Description	Photo 8. Banks	seeded and f	low restored.