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Val	ley
PIPEL	

Wetland Biological Conditions EA Report

						T			-		
Project Name H-600 Pipeline		H-600 Pipeline	Spread C AFE 124300131			Spread H-600 Pipeline Spread		e Spread C			
Contractor Precision		Precision					Report #	158	158		
Environmental Auditor Jeffrey Arboga			Jeffrey Arboga	st Date/Time 12/20/2023 3:0						05 PM	
Wetla	Crossing Start Date 12/20/2023 Crossing Completion Date 1/2/2024										
Mi	Milepost 97.86 Pre-Con Assessment Date 12/18/2023 Post-Con Assessment Date 1/3/20.								/2024		
S	Station 5166+96 Cowardin Classification PSS Wetland Impact Area(acres)0.01						108				
	State WV										
C	county	Webste	er								
	1 147			Resource Post-Cr		-				11	1
1		• •		other suitable methods utili ce in wetlands?	zed u	nder heavy	equipr	ment to minim	nze	SOII	Yes
2	Was t	he exis	sting vegetatio	n removed prior to initiatin	g land	l disturband	ce withi	n the resourc	e?		Yes
3	Was t	he top	1-foot (12-inc	hes) of wetland soil segree	ated	and stockp	iled se	parate from tr	renc	h spoils?	Yes
4	Was e	excess	material not r	needed for backfill removed	d and	disposed o	f in an	upland area?)		N/A
5		-		backfill made with clean na							Yes
6				tion practices (disking, ploy zon) implemented prior to	•	•	tilling, o	or incorporati	on o	f organic	Yes
7	Was v	vetland	l topsoil repla	ced and temporarily seede	d?						Yes
8	Was p	perman	nent seed app	lied to unsaturated wetland	ls?						Yes
9			ent/timber ma gh the impact	atting removed from the we area?	tland	area prope	rly by v	vertically lifting	g, ar	nd not	Yes
10	10 Were impervious trench breakers/plugs properly installed within 25-feet of the resource to prevent subsurface erosion to or from the resource area?						event	See Below			
11	Was the pre-construction survey data utilized during restoration in attempt to maintain the original surface hydrology, and were contours re-established to pre-construction conditions to maintain overland flow patterns?						n	Yes			
12				cheduled to verify as-built of the contract of						ns in	Yes
13	Was t	he time	e of disturban	ce minimized by conductin	g reso	ource work	continu	iously to com	pleti	ion?	Yes
14	14 Does the post-construction square footage of wetland area appear to be restored to meet or exceed the pre-construction area square footage?						exceed	Yes			
15	Are bareroot saplings required and/or scheduled to be planted for the dormant season $(10/1 - 4/30)$ in PFO classified wetlands?							N/A			
16 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						Post-Con					
17			t uration: Are s at Yes or No)	urface waters, the water table, a	nd/or o	verall soil satu	Iration			No	No
18	Resource Alterations: Are the wetland soil conditions visibly disturbed? Examples: Livestock presence, haul roads, farm traffic, drain tiles, recent mowing/clear cutting, recent excavating/disking of soils, etc. Rating: 1-Negligible (undisturbed/natural resource), 2-Minor (20-40% of resource disturbed by alterations), 3-Moderate (40-80% of resource disturbed), 4-Poor (>80% of resource disturbed)						4				
19	Is vegetation present within the permitted impact area prior to disturbance? (Pre- Con)Are areas properly seeded and stabilized after restoration? (Post-Con)						4				

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		Additional Notes						
The alignment sheets indicate that the mainline crosses wetland W-B35 from station number 5166+96 to 5167+18.								
Wetland W-B35 is in close proximity to multiple other resource crossings. The overlapping buffer areas that intertwine the stream channels and wetland boundaries caused traditional trench breaker placement and the immediate restoration of the buffer zone to be impractical.								
Expanded notes for question 10: Benton away side (GAS) of the wetland bounda					29' from the going			
completion of the crossing and restoration seeded with the appropriate permanent	Conditions 18 and 19 were given a rating of 4 due to the lack of vegetation in the disturbed permitted impact area following completion of the crossing and restoration efforts. Wetland W-B35 topsoil was properly stabilized and the disturbed areas were seeded with the appropriate permanent seed mix in accordance with Appendix B: Restoration Work Plan of the Mountain Valley Pipeline Comprehensive Stream and Wetland Monitoring, Restoration and Mitigation Framework.							
12/20/2023: The upper 12 inches of tops subsoil was separated so it could be use			and stored in an upla	and area. Th	e native wetland			
12/21/2023: The ditch excavation was ex was then backfilled through stream S-B3		ough for another pipe section	to be lowered in and	l welded in p	lace. The ditch			
12/22/2023: The nearby stream crossing	ı (S-B34) w	as completed.						
12/23/2023-12/26/2023: Christmas Brea	k.							
12/27/2023: Rain out.								
12/28/2023: The next section of pipe wa	s welded, v	while site preparation for ditch	excavation for the fo	llowing day	was conducted.			
12/29/2023: The next section of the ditch	n was exca	vated, which extended throug	h the remaining featu	ures in the ar	ea to be crossed.			
12/30/2023: With ditching completed, the	e next secti	ion of pipe was lowered in and	l welded in place.					
12/31/2023: The trench was backfilled fr pre-construction elevation in preparation					t back to			
1/1/2024: Holiday break.								
1/2/2024: The wetland topsoil was replaced and brought back to pre-construction elevation. Civil survey verified that all contours, elevations, and any other significant points met pre-construction specification. The wetland was properly seeded prior to the perimeter silt fence being installed.								
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		Date			
Jeffrey Arbogast	9.IR	10m	SWCA		1/3/2024			

AFE 12430	0131	Date/Time	12/20/2023 3:05 PM		Report #	158	
		Required	d Photos				
+38.4936 10° N W-B35 (F	Pre-JA)		12/18/2023 07: 138.493686-80 331° NW W-B35 (Pre-JA	0.561000			
GPS Locat	ion See Caption in Photo		GPS Location	-			
Descript	ion View of permitted resource impact a pre-construction assessment. W-B35 with S-B37 passing through it	-	Description	conditions during	g pre-construction extend off the R	cted resource area on assessment. OW. Photo of S-B37	
01/03/20) +38.4936 6° N W-B35 (F	24 12 :53 :49 98 -80 :560885 Post-JA)		01/03/2024 12: +38.4937898 329° NW W-B35 (Post-J	0.561005 A			
GPS Locat	i on See Caption in Photo		GPS Location				
Descript	View of permitted resource impact a post-construction assessment. W-B35 with S-B37 passing through it	-	Description	conditions during	g post-construct extend off the R	cted resource area on assessment. OW. Photo of S-B37	
+38.4938 246° SW W-B35 (0	Dur-JA)		12/21/2023 16 +38.4936798 9° N W-B35 (Dur-JA	0.561016			
GPS Locat	ion See Caption in Photo		GPS Location				
Descript	Wetland topsoil being placed in s i on	super sacks.	Description	Bentonite breal	ker on the CIS	of the wetland.	

AFE 124300	0131	Date/Time	12/20/2023 3:05 F	PM Report #	158
		Optiona			
+38.4937 210° SW W-B35 (D			12/30/2023 11: +38.494405,-80 169° S W-B35 (Dur-JA		
GPS Locati	on See Caption in Photo		GPS Location	See Caption in Photo	
Descripti	on Ditch excavation continued throu wetland boundary.	igh the	Description	Lowering in.	
+38,4938 150/SE W-B35 (D			01/02/2024 12: +38.493871.480 201° S W-B35 (Dur-JA	0.560968	
GPS Locati	on See Caption in Photo			See Caption in Photo	
Descripti	GAS bentonite trench breaker.		Description	Survey checking subsoil elev	vation.
283° W W-B35 (D			01/02/2024 14: +38.493672, 80 311°NW W-B35 (Dur-JA		
GPS Locati	on See Caption in Photo			See Caption in Photo	
Descripti	Wetland topsoil being replaced.		Description	Survey checking stream and	wetland interface.