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Wetland Biological Conditions EA Report

Project Name H-600 Pipeline		H-600 Pipeline	Spread F	AFE 124300135 Spread		H-6	I-600 Pipeline Spread F				
Contractor Price Gregory			Price Gregory					Report # 126			
Environmental Auditor Eric Schicker Date/Time 11/7/2023 11:						22 AM					
Wetland ID W-M2 Crossing Start Date 11/7/2023 Crossing Completion Date 11/20/202								20/2023			
Milepost 159.55 Pre-Con Assessment Date 11/7/2023 Post-Con Assessment Date 11/20						20/2023					
S	Station 8424+40 Cowardin Classification PEM Wetland Impact Area(acres)0.10						064				
	State	WV									
C	County	Summe	ers								
	1			Resource Post-Cr		-					
1		•••		other suitable methods utili ce in wetlands?	zed u	nder heavy	equipr	nent to minin	וize	soil	Yes
2	Was t	he exis	sting vegetatio	on removed prior to initiating	g land	disturbanc	e withi	n the resourc	e?		Yes
3	Was t	he top	1-foot (12-inc	hes) of wetland soil segreg	ated	and stockpi	led se	parate from t	renc	h spoils?	Yes
4	Was e	excess	material not r	needed for backfill removed	l and	disposed o	f in an	upland area?	?		Yes
5				backfill made with clean na		•					Yes
6				tion practices (disking, plov zon) implemented prior to a			tilling, o	or incorporati	on o	f organic	Yes
7	Was v	vetlanc	l topsoil repla	ced and temporarily seede	:1?						Yes
8	Was p	permar	nent seed app	lied to unsaturated wetland	s?						Yes
9 Was equipment/timber matting removed from the wetland area properly by vertically lifting, and not pulling through the impact area?						nd not	Yes				
10				reakers/plugs properly insta rom the resource area?	alled v	within 25-fe	et of th	e resource to	o pre	event	Yes
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?						-	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?						ns in	Yes				
13 Was the time of disturbance minimized by conducting resource work continuously to completion?						Yes					
14 Does the post-construction square footage of wetland area appear to be restored to meet or exceed the pre-construction area square footage?						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)	surface waters, the water table, ar	וd/or סי	verall soil satu	ration			Yes	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) 						1	3			
19	19 Is vegetation present within the permitted impact area prior to disturbance? (Pre- Con)Are areas properly seeded and stabilized after restoration? (Post-Con) Rating:1-Optimal (60-100% heavy vegetative cover), 2-Sub-optimal (30-60% mixed vegetative coverage), 3- Marginal (<30% vegetative coverage), 4-Poor (Mowed/maintained area or farmland, impervious area, sparsely vegetative coverage, etc.)						1				

AFE 124300135

Date/Time 11/7/2023 11:22 AM

Additional Notes

Pre-Construction Notes

Pre-Construction Meeting - 11/06/2023

17. Ground water observed. Test pit dug, resurgence observed/soil saturated/clearly hydric.

Vegetation cleared prior to construction. ROW crosses wetland in two locations. Timber mat travel lane in place.

11/7/2023 - Crossing started. Top 12" of topsoil removed from both sections of wetland (Photo 1) and segregated using Morooka for storage separate from subsoil in upland area. Timber mats placed in northern section of wetland for access to trench. Stumps removed. Drilled for use of explosive charges (Photo 2). Explosive charges place in the southern aquatic resource area and detonated.

11/8/2023 - Timber mats placed in southern aquatic resource area for equipment use while digging trench. Began excavating trench in upland area moving towards the portion of aquatic resource associated with S-M6 or the southern portion of the aquatic resource. Trench spoil removed and transferred to upland location. Welding ongoing outside of resource area.

11/9/2023 - Excavation of trench continued through both southern and northern portions of aquatic resource (Photo 3). Trench box installed. Excavation of trench continued outside aquatic resource area. Sandbags placed in trench for pipe support. Welding and X-ray outside aquatic resource area.

11/10/2023 - Light steady rain most of the day. Trench contained minimal amount of water. Pipe brought to trench and set in trench outside of aquatic resource area. Working outside aquatic resource area included sandblasting, coating and backfilling of trench.

11/11/2023 - Work ongoing outside resource area includes welding, X-ray, holiday detection, rock shielding of pipe and padding dirt.

11/13/2023 - Pipe transported and lowered into the northern portion of the aquatic resource area (Photo 4). Welded pipe section to existing pipeline. Sandblasting and coating welds outside resource area. Checked topsoil storage stockpile, properly separated and labeled.

11/14/2023 - Sandblasting, coating, and preparing padding dirt outside resource area. Transported final pipe section to southern aquatic resource crossing. Tac welded pipe in place to be finished tomorrow.

11/15/2023 - Holiday detection, grinding, sandblasting and coating outside resource area. Previous days weld finished, and X-ray completed. Survey team on site to shoot pipe sections/welds outside resource area. Backfilling trench outside of the northern portion of the aquatic resource area.

11/16/2023 - Final weld started but not completed. Sandblasting/coating previous days weld. Preparing pad dirt/backfill ongoing.

11/17/2023 - Prepared more pad dirt and backfilling. Previous days weld completed. Coated weld in trench box. Survey on site to shoot trench breakers and other features. Trench breakers constructed adjacent to northern aquatic resource area (Photo 5) and the northern portion of the southern aquatic resource area. X-ray of final weld. Coating previous days weld. Remove trench box. Backfilling trench.

11/18/2023 - Finished final trench breaker. Survey on site to shoot wetland boundary and elevation but couldn't compete that due to lack of elevation data. Coating final weld. Continued to backfill trench (Photo 6).

11/20/2023 Survey onsite for boundary and elevation and working with equipment operator to contour subsoil in southern section of aquatic resource. Topsoil restored in aquatic resource and contoured according to pre-construction survey data. P1 installed around aquatic resource boundary. Southern aquatic resource area seeded and covered with jute. Wetland topsoil returned to northern section of aquatic resource (Photo 7) and contoured using pre-construction survey data. P1 installed around boundary. Wetland seeded (Photo 8).

Post Construction Notes

19. Crossing has recently been restored. These areas will be monitored until 80% vegetative cover is achieved. Areas that do not have 80% vegetative cover within 30 days will be reseeded.

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
Eric Schicker	En Spala	Potesta	11/20/2023

AFE 124300135	5	Date/Time	11/7/2023 11:22 A	M	Report #	126	
Required Photos							
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GPS Location			GPS Location				
Description	View of permitted resource impact a pre-construction assessment.	irea during	Description	At edge of LOD, conditions during		ted resource area n assessment.	
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GPS Location	See Photo		GPS Location	See Photo			
Description	View of permitted resource impact a post-construction assessment.	rea during	Description	At edge of LOD, conditions during		ted resource area on assessment.	
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GPS Location			GPS Location				
Description	Photo 1: Excavating top 12 inchors topsoil and transporting to upland	es of wetland d area.	Description	Photo 2: John I explosive charç		or placement of	

AFE 124300135	E 124300135 Date/Time			M	Report #	126
		al Photos				
Stress Time Thu Nev 01.2 Season - 012 Billion - 0 advuer 300aft - 40 August - 40 August - 40 Billion Angle - 10 Horsen Angle - 100 21 Com - 02 W Mg Trench through cross Mountain Valley Pipeline						
GPS Location		ftronch	GPS Location		a nino ista -	
Description	Photo 3: Completed excavation o through aquatic resource area.	t trench		Photo 4: Lowerir area.	ig pipe into a	quatic resource
Date & I me Fri Davi Z, 30 Position (1027 2029) et 1 Datum (1027 2020) Datum (1026 2020) Arrhyth/Bearne 2020 Bighthe Angele - 18 Hansen Angel - 18 Hansen An	An angle Aug portants to sup With the number of the sup of the supervised of the sup		Ag near Berne UI at Elevation Angle 100 Bergin Alge 100 Ang 10			
GPS Location	See Photo		GPS Location	See Photo		
Description	Photo 5: Trench breakers being c adjacent to northern portion of the resource area.	eonstructed e aquatic	Description	Photo 6: Backfill	ing trench.	
Annual Control of Annual Contr			Dedicities de la destaction de la destac	Dis Neger de EST Di Alexe de Director W 6311mils Tore (±17-1		
GPS Location	See Photo		GPS Location	See Photo		
	Photo 7: Restoring topsoil in north aquatic resource crossing.	nern portion of		Photo 8: Seedin resource post co	g northern po Instruction.	rtion of aquatic