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Wetland Biological Conditions EA Report

Project Name H-600 Pipeline		H-600 Pipeline	e Spread E AFE 12430		124300134	34 Spread H-		H-6	600 Pipeline Spread E		
Contractor Price Gregory		Price Gregory	· ·			Report #	12	12			
Environmental Auditor Charles Haden Date/Time 8/8/2023 9:				2023 9:28	8 AM						
Wetland ID W-EF31 Crossing Start Date 8/8/2023 Crossing Completion Date 9/20/202)/2023			
Mi	Milepost 133.20 Pre-Con Assessment Date 8/8/2023 Post-Con Assessment Date 9/2						t Date 9/20)/2023			
S	Station	7032+9	96	Cowardin Classificat	i on Pl	EM	Wetla	nd Impact A	rea(acres) ^{0.02}	208
State WV											
C	County	Nichola	as								
	Resource Post-Crossing Conditions										
1		•••		other suitable methods utili ce in wetlands?	zed u	nder heavy	equipr	nent to minim	nize	soil	N/A
2	Was t	he exis	sting vegetatio	on removed prior to initiatin	g land	l disturband	e withi	n the resourc	e?		Yes
3	Was t	he top	1-foot (12-inc	hes) of wetland soil segreg	ated	and stockp	iled sej	parate from tr	enc	h spoils?	Yes
4	Was e	excess	material not r	needed for backfill removed	d and	disposed o	f in an	upland area?)		Yes
5				backfill made with clean na		-		_			Yes
6				tion practices (disking, ploy zon) implemented prior to a	0,	0,	tilling, o	or incorporation	on o	f organic	Yes
7	Was v	vetland	l topsoil replac	ced and temporarily seede	d?						Yes
8	8 Was permanent seed applied to unsaturated wetlands?							Yes			
9	9 Was equipment/timber matting removed from the wetland area properly by vertically lifting, and not pulling through the impact area?						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?						Yes				
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?						Yes				
12	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	13 Was the time of disturbance minimized by conducting resource work continuously to completion?						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?						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	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, a	nd/or o	verall soil satu	iration			Yes	Yes
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. 1 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						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) 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.)						4				

AFE	124300134		Date/Time 8/8/2023 9:28	AM Repo	't # 12				
			Additional Notes						
17. Pre-	Pre-Construction Notes 17. Pre-Con - Water recharged into the test pit and soils were saturated (A2 and A3) (Photo 1). 18. Pre-Con - Timber mat present (travel lane).								
Pre-Cor El for cr 0.69" of	Day 1 (8/8/2023) Pre-Construction meeting at 0900. El for crossing is Johnny Graham. 0.69" of precipitation recorded in previous 24-hours. Both wetland topsoil and stream substrate were removed to upland area (Photo 2) and segregated separately.								
	Day 2 (8/9/2023) Crossing location prepped and marked for trenching. Trenching to crossing on LDB.								
Continu Trench	Day 3 (8/10/2023) Continuation of trench hammering and soil/rock removal (Photo 3). Trench completed, additional soil removal around pipe ends, and end plate cut and pipe end grinded/cleaned. Intermittent heavy rain all day.								
	Day 4 (8/11/2023) Move and lower pipe into trench.								
Pipe is i Upland Top 12"	Day 5 (8/14/2023) Pipe is installed with appropriate trench breakers (Photo 4). Upland areas have been backfilled and brought to grade. Top 12" of wetland topsoil was replaced and graded to original wetland topography (Photo 5). Permanent wetland seed was applied (Photo 8).								
Post Construction Notes 7. Permanent wetland seed was applied in-lieu of temporary seed after final wetland topography was confirmed by survey. 9. Additional equipment mats were not utilized due to the size of the resource (equipment completed work from outside the wetland boundary). Does not include timber mats that remain in place for travel lane. 19. 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.									
Discove	ered stream and wetland have sur	nken, yet fl	ow was still present (8/24/20	023).					
Wetland	9/19/2023 Wetland has recharge and saturated soils (Photo 7). Some vegetative growth noted. Wetland topsoil was removed wetland above trench area and placed in an upland area. Additional fill placed in wetland. Wetland surveyed and restored with original wetland soils.								
9/20/2023 Area seeded and riparian zone completed (Photo 8). Post Construction Assessment completed. Wetland test pit was saturated.									
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				
Charles	Haden	Chu	la Hoden	Potesta & Assiciates	9/24/2023				

AFE 124300	134	Date/Time	8/8/2023 9:28 AM	Report # 12			
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GPS Locatio			GPS Location				
Descriptio	View of permitted resource impact a pre-construction assessment.	area during	Description	At edge of LOD, view of unimpacted resource area conditions during pre-construction assessment.			
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GPS Locatio	n See Photo		GPS Location	See Photo			
Descriptic	N View of permitted resource impact a post-construction assessment. Original post construction photo.	area during	Description	At edge of LOD, view of unimpacted resource area conditions during post-construction assessment. Original post construction photo.			
			Oracin Mon Control of State Characterization	a dud mit time - 12 Tapit and strant sourced Ren about			
GPS Locatio			GPS Location				
Descriptic	Photo 1. Soil Test Pit - Saturated	d Soils		Photo 2. Removal of wetland topsoil and stream substrate.			

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Indian Time Thu Aug 10 Benden 198 004699 M/ Auto and the 199 0ft Dates of 6-84 Anthrithmening 138 SE Electric denge - 06.89 Horzogukogi - 10,8 p. 40 Zoom Jook S - E72 TW - EF31 TRENCH Mounjain Valley	Service de la calacita de		Date & Time: Sat, Aug 12, 20 Position +038 107552 / 108 Altitude 27847 (13) 810 Datum: WOS-64 Azimuth/Bearing 055-1497 Elevation Angle Horizon Argitude Zoom 105 WEET1 / S. ETAI (Ipstand Monthe value): from Monthe value): from	Determinants	e sos sino	
GPS Location			GPS Location			
Description	Photo 3. Excavating trench at cro	ossing.	Description	Photo 4: Trenc	n Breakers	
			Der & Time: Thu Aug 24, 2 Position +038, 107500 - 100 Alftude 2287ft (232 dr. Dutum: WOS-84 Amtude 2287ft (232 dr. Distanti Bearing and and and and Fostion and an and and and and With and and and and and and and with and and and and and and and and and and and and and and and and and and	Stramts True 12		
GPS Location			GPS Location		ng watland (9/	24/2022)
Description	Photo 5: Regraded wetland.		Description	Photo 6: Sinkii	ng wetiand (8/2	24/2023).
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GPS Location			GPS Location			
Description	Photo 7: Wetland test pit recharg are saturated (9/19/2023).	ed and soils	Description	Photo 8: Resto riparian area (9		nd associated