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Wetland Biological Conditions EA Report

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Project Name		Name	H-600 Pipeline	e Spread F		AFE 124300135		Spread	H-600 Pipeline Spre		Spread F
Contractor Price Gregory		Price Gregory	_			Report #	105	105			
Environmental AuditorLuke Fultz			Luke Fultz		Date/Time	10/2	10/23/2023 11:15 AM				
Wetla	Wetland ID W-IJ30 Crossing Start Date 10/23/2023 Crossing Completion Date 11/28/2023									28/2023	
Milepost 155.08				Pre-Con Assessment D	n Assessment Date 10/23/2023 Post-Con Assessment Date 11/2						28/2023
Station 8188+00			00	Cowardin Classificat	Cowardin Classification PEM Wetland Impact Area(acres)0.32						236
	State WV										
C	County Greenbrier										
				Resource Post-Cr		-					
1				other suitable methods utili ce in wetlands?	zed u	nder heavy	equipr	nent to minim	nize	soil	Yes
2	Was t	he exis	sting vegetatio	n removed prior to initiatin	g lano	disturbanc	e withi	n the resourc	e?		Yes
3	Was t	he top	1-foot (12-inc	hes) of wetland soil segre	ated	and stockpi	iled sep	parate from tr	enc	h spoils?	Yes
4	Was e	xcess	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	6 Were standard decompaction practices (disking, plowing, cultivating, tilling, or incorporation of organic matter into the topsoil horizon) implemented prior to applying seed?							Yes			
7	7 Was wetland topsoil replaced and temporarily seeded?							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	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	2 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	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		
							Post-Con				
17			t uration: Are s ct 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. 3 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) 3							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)							1			

AFE 124300135 Date/Time 10/23/2023 11:15 AM **Report #** 105 **Additional Notes** Pre-Construction Notes Pre-Construction Meeting - 10/17/2023 17. Test pit did not contain water or saturated soils; however, soil exhibits hydric properties below the first 12 inches 18. Ag field, livestock, mowing, previously developed drainage swell 10/23/2023 - Excavation of the first 12 inches topsoil from Northern (N) end of aquatic resource area (ARA) (Photo 1), separated and moved to containment. Labeled with signage. Halt removal of topsoil for blasting. 10/24/2023 - Excavation of adjacent aquatic resource (AR) from timber mats (TM). Excavation of bell hole in ARA (Photo 2). Subsoil separated to containment. Staging pipe in ARA. 10/25/2023 - Water pumped from trench in ARA. Sandbags "pillows" added to the trench for padding. Pipe placed N end of ARA. 10/26/2023 - Water pumped from trench in ARA. Constructed northern most trench breaker. 10/27/2023-10/28/2023 - Continue to pump on edge of ARA. No work in resource. Work ongoing in other areas of the site. 10/30/2023 - Water pumped from trench in ARA. Backfilling of portion of ARA adjacent to S-K17. 10/31/2023 - Water pumped from trench in ARA. Excavation of additional topsoil from AR, separated to containment and labeled with signage. Excavation of subsoil. Work ongoing in other areas of the site. 11/1/2023 - Excavating trench and adding sandbag "pillows" for padding to trench through AR. Welding and x-ray ongoing. Work ongoing in other areas of the site. 11/2/2023 - Water pumped from trench in ARA. Constructing trench breaker (Photo 3). Backfilling subsoil and padding pipe in ARA. Removal of topsoil in the southern (S) portion of the ARA. Sandblasting and coating pipe. Excavating in the S portion of the ARA. Continued backfilling N portions of the AR. Work ongoing in other areas of the site. 11/3/2023 - Water pumped from trench in ARA. Continued excavating towards S end of ARA. Subsoil used to backfill and pad pipe in N end of ARA. Sandbags "pillows" added to the trench for padding. Pipe placed in trench. Welding ongoing. X-ray. 11/4/2023 - Water pumped from trench in ARA. Replacing topsoil in N end of ARA. Excavation of first 12 inches of topsoil toward S end of ARA, separated, and moved to containments. Survey shooting and staking AR boundary. X-ray, sandblasting, and coating pipe ongoing. Backfilling and padding pipe in N end of ARA. 11/6/2023 - Water pumped from trench in ARA. Continued excavating S end of ARA and backfilling more N portion of ARA. Additional pipe placed in trench. Welding ongoing 11/7/2023 - Water pumped from trench in ARA. Welding, X-Ray, sandblasting, coating, backfilling and contouring (N) ongoing. 11/8/2023 - Contouring, replacing topsoil, and seeding in N most portion of ARA. Backfilling in unrestored N portion of ARA. Excavating in S most portion of ARA (Photo 4). 11/9/2023 - Backfilling over finished pipe in ARA. Adding sandbags to S end of ARA resource for pipe. Additional pipe placed in trench. Welding ongoing. 11/10/2023 - Water pumped from trench in ARA. X-ray. Installing P1 fencing adjacent to restored ARA. Work ongoing in other areas of the site. 11/11/2023 - Water pumped from trench in ARA. Welding, X-Ray, sandblasting, and coating ongoing 11/13/2023-11/15/2023 - Water pumped from trench in ARA. No work in ARA. Work ongoing in other areas of the site. 11/16/2023 - Water pumped from trench in ARA. Backfilling subsoil in ARA (Photo 5). Work ongoing in other areas of the site. 11/17/2023 - Water pumped from trench in ARA. Constructed trench breaker and backfilling. Work ongoing in other areas of the site. 11/18/2023 - Water pumped from trench in ARA. Backfilling subsoil in ARA. Work ongoing in other areas of the site. 11/20/2023 - Contouring subsoil in resource area (Photo 6). Work ongoing in other areas of the site. 11/21/2023 - Rain Event. No Work. 11/22/2023 - 1.02" rain. Due to ground conditions from yesterday's precipitation event, no work is planned in resource for the day. 11/24/2023 - Due to ground conditions no work in ARA. Standing water present (on subsoil) throughout mid-portion of the feature. 11/25/2023 - Topsoil transported from storage area AR. Standing water present. TM utilized and moved as needed. 11/26/2023 - Continued to transport and distribute topsoil (Photo 7). 11/27/2023 - Finished transporting and distributing topsoil. Continued contouring and grading. 11/28/2023 - Removed TM outside AR boundary. Completed grading and contouring. Applied seed (Photo 8). Installed P1 fencing. Reapplied seed as needed. Restoration complete. 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 fur Tuto

Potesta

Luke Fultz

11/28/2023

AFE 124300135	5	Date/Time	10/23/2023 11:15	AM Report # 105				
		Required	d Photos					
Date & Time: Mon. Dct 23: 2 Position + 037 88298 / Ho Attude 24/201 + 11 / 2h Datum WBS-984 Azmuthi Bearing 197 - 512 Elevation Angle + 03.4 Horizon Angle + 03.5 W-J30 Permitted resource M/P			Date & Time: Mon. Oct 23, 2 Position - 037 882577 /-00 Altitute 24359 (-111 31) Datum: VIGS-84 A.zimuthi Bearing 048 -582 Elevation Angle - 010 Horizon Angle - 010 A Zoom 05X W-130 Outside LIOD least ft VI/P	80.757430° (±15.3H)				
GPS Location			GPS Location					
Description View of permitted resource impact area during			Description	At edge of LOD, view of unimpacted resource area conditions during pre-construction assessment.				
Date 4. International State of Allender 24/07/11-37-2711 Datum WGS-84 Azimuth Bearing 198-518 Elevation Angle - 11.2 Herrzon Angle - 00.4 Zoom - 10 X Wei wy 198	Bantana and and an and a second and a seco		Contraction of the second seco	ADD/Initional Provides Technology (Construction assessment)				
GPS Location		na a dessia a	GPS Location					
Description	View of permitted resource impact a post-construction assessment.	rea during	Description	At edge of LOD, view of unimpacted resource area conditions during post-construction assessment.				
Altitude: 2440 ft (+ 11 3ft) Datum: WGS-84	2023 at 13 99 41 EDT 500 797474 re15 400 et 28800mls True (=13) un resource area, moved to containment		Bala Si man Carlo (2014) Bealing Carlo (2014) Alti Use 2000 High Carlo (2014) Alti Car	Banewas Boeson Bargers 19, 423 blo E 1750mils Traes 12 100				
GPS Location	See Photo		GPS Location	See Photo				
Description	Photo 1: First 12 inches of topsoi the northern most section of the a resource.	l removal in aquatic		Photo 2: Excavation of bell hole in aquatic resource area.				

AFE 12430013	5	Date/Time	10/23/2023 11:15	AM	Report #	105	
			al Photos				
Fordier Andrew Briterie	W 3255mis Fue (= 12)	<image/>					
GPS Location			GPS Location				
Photo 3: Constructing trench breaker. Description				Photo 4: Excav southern end o			
Dale & Time. Thiu Nor Is. Position - 037 862128 -7-0 Alhtude -2652H =11 3h Datum W05384 Azmuth Bearing 155 51 Executen Angle -01 6 Horizon Angle -00 1 Zonn -05X Wi-170 Best-Milliplense off MyP	SE 2933 m IS Trues - 13 1 In resources root		Inde & Turus Solar, Kee 20, a Predimenta Solarit (al 1.40) antonio scienti (al 1.40) antonio viela-de contracti Solarity, al 1.4 dattori riggia - 41.4 dattori riggia - 41.4	R.1939oor (ef 8.34)			
GPS Location			GPS Location				
Description	Photo 5: Backfilling in aquatic res	source area.	Description	Photo 6: Conto	uring subsoils.		
GPS Location	See Photo		GPS Location	E (533)mils True (= 12)			
	Photo 7: Distributing topsoil in aq	uatic resource		Photo 8: Apply	ing wetland se	ed mix.	
Description	area.		Description				