

Wetland Biological Conditions EA Report

Project Name		H-600 Pipeline	ne Spread F		AFE 124300135		Spread H-600 Pipeline Sprea		e Spread F		
Contractor Price Gregor		Price Gregory				Report #	93	93			
Environmental Auditor Alyssa Jones			Alyssa Jones	Date/Time 10/20/2023 11					:12 AM		
Wetland ID W-OP1-PEM Crossing Start Date 10/23/2023 Crossing Completion Date 11/13/202								13/2023			
Milepost 179.10				Pre-Con Assessment D	ate 10)/20/2023	Post-C	Con Assessn	nen	t Date 11/	13/2023
Station 9456+48		48	Cowardin Classification PEM Wetland Impact Area(acres)			(acres) 0.13	359				
	State WV										
C	County Monroe										
	1.47			Resource Post-Cr	ossir	ng Conditio	ons				
1	vvere compa	equipn action a	nent mats or o and disturban	otner suitable methods utili ce in wetlands?	zed u	nder heavy	equipr	nent to minim	ııze	SOII	Yes
2	Was tl	he exis	sting vegetatio	on removed prior to initiatin	g lano	d disturband	e withi	n the resourc	e?		Yes
3	Was tl	he top	1-foot (12-inc	hes) of wetland soil segreg	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?)		Yes
5	Was tl	he top	12-inches of I	packfill made with clean na	tive v	vetland tops	oil?				Yes
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	Was w	vetland	l topsoil replac	ced and temporarily seede	d?						Yes
8	Was permanent seed applied to unsaturated wetlands?						Yes				
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?										
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 Yes overland flow patterns?										
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?										
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?										
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							Pre-Con	Post-Con		
17	Wetla present	nd Sat ? (Selec	t uration: Are s at Yes or No)	urface waters, the water table, a	nd/or o	verall soil satu	iration			Yes	Yes
18	Resou haul roa Rating Modera	u rce A ads, farm 3: 1-Ne(te (40-8)	Iterations: Are n traffic, drain tile gligible (undisturb 0% of resource d	e the wetland soil conditions visib s, recent mowing/clear cutting, re ped/natural resource), 2-Minor (20 isturbed), 4-Poor (>80% of resou	ly distu cent e 0-40% rce dis	urbed? Exam xcavating/disk of resource dis turbed)	iples: I ing of so sturbed I	Livestock preser pils, etc. by alterations), 3	nce, 3-	2	3
19	Is veg Con)A Rating Margina vegetati	etatio Are are g:1-Opti al (<30% ive cove	n present wit as properly s imal (60-100% he vegetative cover rage, etc.)	thin the permitted impact seeded and stabilized aft eavy vegetative cover), 2-Sub-op rage), 4-Poor (Mowed/maintained	area er res imal (3 l area o	prior to di storation? 30-60% mixed or farmland, in	sturba (Post-(vegetati nperviou	nce? (Pre- Con) ve coverage), 3- s area, sparsely		2	3

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Additional Notes

Pre-Construction Note

Pre-Construction Meeting - 10/20/2023

17. Wetland test pit recharged. Saturated soils present (Photo1).

18. Timber mats in place prior to assessment. Wetland topsoil removed and excavation occurred at this site in 2018.

19. Wetland topsoil was not restored during 2018 construction; however, vegetative growth has occurred.

10/21/2023 - Initiated wetland topsoil removal. Excavated topsoil segregated and stored in work area (Photo 2). Began to excavate trench late in day; however, backfilled due to safety concerns.

10/23/2023 - Began excavating to expose pipe. Began pumping water from trench in aquatic resource. Additional wetland topsoil excavated, segregated and stored in work area. Once pipe exposed excavating continued around pipe including hammering (Photo 3 and 4).

10/24/2023 - Pumping water from trench in aquatic resource. Additional excavation in pit. Trench box installed and backfilling. 10/25/2023 - Pumping water from trench in aquatic resource. Mats placed along trench wall above trench box and other side of trench sloped for safety prior to anyone entering the trench. Initial pipe inspection.

10/26/2023 - Pumping water from trench in aquatic resource. Survey marked pipe trajectory. Final pipe inspection (Photo 5), five inches to cut from end of pipe. 811 paperwork obtained. Began to excavate trench out of aquatic resource on opposite side of road.

10/27/2023 - Pumping water from trench in aquatic resource. Continue to dig trench outside of aquatic resource on opposite side of road. Excavating trench from aquatic resource to road crossing.

10/28/2023 - No work in aquatic resource area.

10/30/2023 - Pumping water from trench in aquatic resource. Welding, sandblasting, and coating outside of resource area, across road. Continue excavation between road and aquatic resource. Began cutting road.

10/31/2023 - Pumping water from trench in aquatic resource. Welding, sandblasting, and coating outside of resource area, across road. Cutting road. No work in aquatic resource.

11/1/2023 - Pumping water from trench in aquatic resource. Installing rock shield. Sandbags for padding added to trench. Pipe placed in trench (Photo 6) and welding began.

11/2/2023 - Pumping water from trench in aquatic resource. Excavation of trench for additional room to construct trench breaker. Add sandbags to trench for padding. Additional segments of pipe placed in trench in upland area. Welding ongoing.

11/3/2022 - Pumping water from trench in aquatic resource. Welding and x-ray ongoing. Continuing to install additional sections of pipe in upland area.

11/4/2023 - Welding and x-ray ongoing. Weld at edge of resource did not pass inspection. Repairing weld.

11/6/2023 - Pumping water from trench in aquatic resource. Lining up pipe to cut and weld last section (outside of aquatic resource area).

11/7/2023 - Welding, sandblasting, and coating of pipe in trench outside of aquatic resource area. Last section of pipe cut.

11/8/2023 - Welding, sandblasting, and coating completed on pipe in trench. Padding added to trench.

11/9/2023 - Sandblasting and coating of pipe and adding padding to trench ongoing. Began stacking quikcrete trench breakers on both sides of the road (upgradient of aquatic resource). Backfilling trench.

11/10/2023 - Sandblasting, coating, and coating of pipe and adding padding and backfill to trench ongoing. Constructing trench breaker adjacent to aquatic resource (Photo 7). Concrete poured into trench between two quikcrete trench breakers.

11/11/2023 - Sandblasting and coating of pipe and adding padding to trench ongoing. Continued to add padding and backfill in trench. Survey onsite. Jeeping and rock shield added at tie-in at aquatic resource. Removed timber mats from trench in aquatic resource. Removed trench box. Subsoil restored.

11/13/2023 - Survey onsite. Topsoil restored. Topsoil from 2018 construction also restored as per FERC (Photo 8). Aquatic resource seeded. Survey signed off on boundaries. Restoration complete.

Post Construction Notes

17. Post construction test pit contained saturated soils.

18. 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 cover has been achieved and areas that do not have 80% 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
Alyssa Jones	A)	Potesta	11/13/2023

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Required Photos							
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GPS Location	See Photo		GPS Location	n See Photo			
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GPS Location	See Photo Photo 1: Tost pit and soil horizon		GPS Location	See Photo	rated watland tangail in work		
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		Optiona	l Photos		
Date 5 Sime Mon Bel 2 Series war 60209 All JER Hoge 42 Partial Mon Bel 2 All JER Hoge 42 Partial Monte 42 Horizon Angle - 29.4 Horizon Angle - 29.4 Horizon Angle - 29.4 Director 10X pipe with no cap and no ro Mountain Valley Pipeline S	http://www.actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/actionary.com/action		Date & Time Mon Del 23 2 Postion - 407 A0116 - 00 All builde (1966) - 327 41 Dynam Weiting Annualti Brahmer (1977) - 201 Elsvation Angle - 03 Brahmer (1978) - 201 Brahmer (1978)	22 al 14 2809 EDT 9 700339 (s31 7m) 0 20035 (s31 7m) 0 20045 Trol s 14	
GPS Location	See Photo		GPS Location	See Photo	
Description	Photo 3: Exposed pipe in aquatic	resource.	Description	Photo 4: Hamr	nering in aquatic resource.
Date 4 Time: The Oct 24	BRZ ALLOS AZ EDT BRZ DIALOS AZ EDT BRZ DIALOS AZ ENTRE EL DEZ DIALOS		Date & Time, Wed, Ney OL: Position - 925 600149 - 0 Altikuze, P70611 - 92 640 Datum, WG 5-84 Azamuth: Beargin, 169, NB Beargin, 169, 169 Horizon Angle, 2010 retailing program 2010 retailing program 2010 retailing program 2010 retailing program 2010 retailing program 2010	OCA LA LI JA A YA EDI NOTONICI A LA LA MARINA A MARINA DA LA MARINA DA LA MARINA O DA LA MARINA DA LA MARINA DA LA MARINA DA LA MARINA O DA LA MARINA DA LA	
GPS Location	See Photo		GPS Location	See Photo	
Description	Photo 5: Pipe inspection.		Description	Photo 6: Instal resource area.	ling pipe in trench in aquatic
Date & Time, Fr. Nov 10: Pesition: -007/201581 */ Altitude: 1746ft 1:218 3h Datum WGS-84 Azimuth/Bearing 051, MS Prevation Angle Sem: FLM For nume took and Montan with Planters	20-41-72-44-24-51 20-5979271 - 1-11-20-1		Die 5 metrie von 1973 D Arthude 1970 metrie 2005 S - 00 Arthude 1970 metrie 2005 Arthude 1970 metrie 2005 Horszon Angle - 003 Horszon Angle - 003 Hors	023 an 12 46 01 EST 0 70035 (=100 5h) 4 3037cm True =28 cm the weiging area from two 0PI and W-DPI	
GPS Location	See Photo		GPS Location	See Photo	
Description	Photo 7: Backfilling and construc breaker outside of aquatic resour	ting trench ce.	Description	Photo 8: Resto during 2018 co instruction.	oring wetland topsoil removed onstruction as per FERC