

Wetland Biological Conditions EA Report

Project Name		Jamo	H-600 Pipeline Spread C		AEE 104000101				Sprood C		
Contractor		actor	Precision	le opreau C		AFE 124300131		Report #	n-oud Fipeline Spread C		opieau U
		Todd Grant									
Environmental Auditor 1 odd Grant		rouu Grafit	Crossing Start D	ato 0/	8/2023	Crock)20 9.01 /		
wella Mi	Wettand ID W-B39 Crossing Start Date 9/6/2023 Crossing Completion Date 9/10/2023 Milepost 0.74 Pro Con Accessment Date 0/5/2023 Dect Con Accessment Date 0/5/2023							0/2023			
Milepost 96.7		90.71	20	Pre-Con Assessment Date 9/5/2023 Post-Con A			1 Assessment Date 9/10		0/2023		
3	Station 5106+38		38	Cowardin Classificat			wetla	nd Impact A	rea(ac	cres)0.08	906
	State WV										
C	County Webster										
	Resource Post-Crossing Conditions										
1	compaction and disturbance in wetlands?						Yes				
2	Was the existing vegetation removed prior to initiating land disturbance within the resource? Yes						Yes				
3	Was the top 1-foot (12-inches) of wetland soil segregated and stockpiled separate from trench 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 t	he top	12-inches of I	packfill made with clean na	itive w	etland 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 wetland topsoil replaced and temporarily seeded?						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?					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 maintainYeoverland flow patterns?Ye						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?					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?										
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.										
				Biological Condition	າຣ				P	Pre-Con	Post-Con
17	Wetla present	nd Sat ? (Selec	t uration: Are s et 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 g: 1-Neg te (40-80	Iterations: Are n traffic, drain tile gligible (undisturk 0% of resource d	e the wetland soil conditions visit s, recent mowing/clear cutting, re ped/natural resource), 2-Minor (20 isturbed), 4-Poor (>80% of resou	ly distu ecent e 0-40% irce dis	irbed? Exarr xcavating/disk of resource di turbed)	iples: I ing of so sturbed I	ivestock preser ils, etc. by alterations), 3	ice, -	1	4
19	Is veg Con)A Rating Margina vegetati	etation Are are g:1-Opti al (<30% ive cove	n present wit eas 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	timal (3	prior to di toration? 0-60% mixed or farmland, in	sturba (Post-(vegetati nperviou	nce? (Pre- Con) ve coverage), 3- s area, sparsely		1	4

AFE 124300131	Date/Time	9/6/2023 9:51 AM	Report # 45				
	Addition	nal Notes					
9/5/2023- Preconstruction assessment for	or crossing W-B39 was co	onducted and pictures were taken	. T. Grant				
9/6/2023- Commenced crossing of W-B39. The top 12" of wetland topsoil was segregated and stockpiled within the wetland boundaries. Trenching of the wetland was completed with trench spoil segregated and stockpiled on top of geotextile fabric in an upland area. T. Grant							
9/7/2023- The contractor completed exp bell hole. The wetland pipe section was completed the first weld and X-Ray testi	9/7/2023- The contractor completed exposure of existing pipe and ditch excavation was completed connecting wetland ditch to pipe bell hole. The wetland pipe section was lowered in and welding activities began on the GAS of the wetland. The contractor completed the first weld and X-Ray testing was done. T. Grant						
9/8/2023- The contractor completed weld installed. Trench breakers were installed contractor started padding and backfillin	ding activities. X-Ray and I and locations verified by g the ditch. T. Grant	coating activities were completed the survey crew at Sta. #5106+5	l and cathodic protection was 1 and Sta. #5107+06. The				
9/9/2023- The contractor completed padding, backfilling, and compacting the ditch. The previously segregated wetland topsoil was replaced and wetland contours were reestablished to preconstruction conditions. Wetland boundaries were reestablished in the disturbed area of the centerline at Sta. #5106+57 using preconstruction photos for reference. Rain and Lightning forced the contractor to stop work for the day before seeding of W-B39 or seeding and stabilization of the adjacent upland areas could be completed. T. Grant							
9/10/2023- The previous day's rain total was 2.8". On arrival it was observed that the ditch had settled on the GAS wetland boundary. The ECD's that were installed as the rain event started appeared in good condition and functioning. After consulting with the contractor and Environmental Inspector, it was decided that the topsoil in the subsided area of the ditch should be removed and additional ditch spoil would need to be added to bring the low area up to original grade. The contractor removed the topsoil from the low area and segregated it inside the wetland. Once the area was filled with additional ditch spoil, the wetland topsoil was replaced. The contractor made all efforts to recontour the area to original condition without compacting the soil. Due to the wet conditions, there are visible marks in the wetland from equipment that could not be entirely removed. Conditions 18 and 19 were given a rating of 4 due to lack of vegetation in the disturbed permanent seed mix in accordance with Appendix B: Restoration Work Plan of the Mountain Valley Pipeline Comprehensive Stream and Wetland Monitoring, Restoration and Functional Wetland Monitoring, Restoration and Wetland Monitoring, Restoration Mitigation Framework Buffer zones to wetland W-B39 were seeded and stabilized T. Grant							
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							
Name	Signature	Compar	nv Date				
Todd Grant	Jode R. S.	swca	9/10/2023				

AFE 12430013	1	Date/Time	9/6/2023 9:51 AM	Report # 45
		Required	d Photos	
9/5/23 08:37:57 38:5083N 80:559 197° S W-B39 (Pre_RG)			06/09/2023 08: +38.508099.40 123° SE W-B39 (Pre TO	
GPS Location	In Photo		GPS Location	In Photo
Description	View of permitted resource impact a pre-construction assessment. View down LOD from center line pre-	area during -construction.	Description	At edge of LOD, view of unimpacted resource area conditions during pre-construction assessment. Left side of the LOD edge of unimpacted resource pre-construction.
09/10/2023 14 +38.508312,8 198° S W-B39 (Pos_T	27:17 0.559222 G)		09/10/2023 14 +38.508060-88 129° SE W-B39 (Pos T	29:35 0.559:301
GPS Location	In Photo		GPS Location	In Photo
Description	View of permitted resource impact a post-construction assessment. Viewing down LOD from center line post-construction.	area during	Description	At edge of LOD, view of unimpacted resource area conditions during post-construction assessment. Left side of the LOD edge of unimpacted resource post-construction.
09/07/2023 13 +38.508275, E 197° S W-B39 (Dur T	106 13 0 559216 ()		09/07/2023 13: +38.50838580 206" SW W-B39 (Dur 10 00000000000000000000000000000000000	
GPS Location	In Photo		GPS Location	In Photo
Description	View of wetland topsoil segregat wetland boundary.	ed inside	Description	View of contractor lowering pipe into ditch and preparing to begin welding.

AFE 12430013	1	Date/Time	9/6/2023 9:51 AM	Report # 45		
		Optional	al Photos			
09/07/2023 18 +38.508321,=8 201° \$ W-B39 (Dur_T			09/09/2023 11: +38.508707.80 212° SW W-B39 (Dur TO			
GPS Location	In Photo		GPS Location	In Photo		
Description	View of welding activities on GAS	S of wetland.	Description	View of trench breakers and the contractor padding the pipe to complete subsoil back filling.		
09/08/2023 13 +38.508122.8 240° SW W-B39 (Dur T	8:45:56 80.559297 G)		09/08/2023 15: +38.508028-80 218° SW W-B39 (Dur TO	49:53 2) 5) 6) 6)		
GPS Location	In Photo		GPS Location	In Photo		
Description	View of installed trench breakers wetland boundaries.	outside the	Description	View of survey crew recording the location of trench breakers outside of the wetland boundaries.		
09/10/2023 08 +38.508177,-8 137" SE W-B39 (Dur_T	11:19 (0.559361 (G)		09/10/2023 09: +38.508121,-80 223° SW W-B39 (Dur_TO			
GPS Location	In Photo		GPS Location	In Photo		
Description	View of wetland with ditch subsid following 2.8" rain event.	lence on GAS	Description	View of contractor beginning repair of ditch subsidence following 2.8" rain event.		