



Wetland Biological Conditions EA Report

Project Name	H-600 Pipeline Spread A	AFE	124300129	Spread	H-600 Pipeline Spread A
Contractor	Precision	Report #	37		
Environmental Auditor	Rachel Ellis			Date/Time	8/27/2023 8:24 AM
Wetland ID	W-B1a	Crossing Start Date	8/27/2023	Crossing Completion Date	9/2/2023
Milepost	18.81	Pre-Con Assessment Date	8/27/2023	Post-Con Assessment Date	9/5/2023
Station	993+36	Cowardin Classification	PEM	Wetland Impact Area(acs)	0.0119
State	WV				
County	Harrison				

Resource Post-Crossing Conditions

1	Were equipment mats or other suitable methods utilized under heavy equipment to minimize soil compaction and disturbance in wetlands?	Yes
2	Was the existing vegetation removed prior to initiating land disturbance within the resource?	Yes
3	Was the top 1-foot (12-inches) of wetland soil segregated and stockpiled separate from trench spoils?	Yes
4	Was excess material not needed for backfill removed and disposed of in an upland area?	Yes
5	Was the top 12-inches of backfill made with clean native wetland topsoil?	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?	N/A
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	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?	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	Wetland Saturation: Are surface waters, the water table, and/or overall soil saturation present? (Select Yes or No)	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		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.)	1		4

AFE 124300129	Date/Time 8/27/2023 8:24 AM	Report # 37
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Additional Notes

8/27/23 Pre-construction Assessment
 There was not any standing water observed in the wetland, however, the soil was saturated. The crew began doing upland work not related to the wetland.

8/28/23
 Upland excavation continued.

8/29/23
 Excavation through the wetland began following removal and segregation of topsoil, segregated soils were contained with silt fencing in case of weather. Mats were installed into the wetland.

8/30/23
 The upland pipes were placed and welded.

8/31/23
 The pipeline running through the wetland section was installed.

9/1/23
 There was an emergent trench collapse on the eastern side of the pipe within the wetland section. As a result, to maintain safe working conditions, several feet of additional wetland topsoil was segregated so that the trench wall could be sloped back. All impacts associated with the trench remained within the permitted temporary impact area.

9/5/23 Post-construction Assessment
 The pipe was coated, trench breakers were finished being installed, and the wetland was backfilled with the native soil. During the post-construction assessment, conditions 18 and 19 were given a rating of 4. This rating was due to the permitted disturbance of wetland W-B1a and the lack of vegetation in the disturbed permitted impact area following completion of the crossing and restoration efforts. The W-B1A PEM wetland topsoils have been properly stabilized and the disturbed area has been seeded with the appropriate permanent seed mix in accordance with Appendix B: Restoration Work Plan of the Mountain Valley Pipeline Comprehensive Stream and Wetland Monitoring Restoration and Mitigation Framework.

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
Rachel Ellis	<i>Rachel Ellis</i>	ERM	9/5/2023

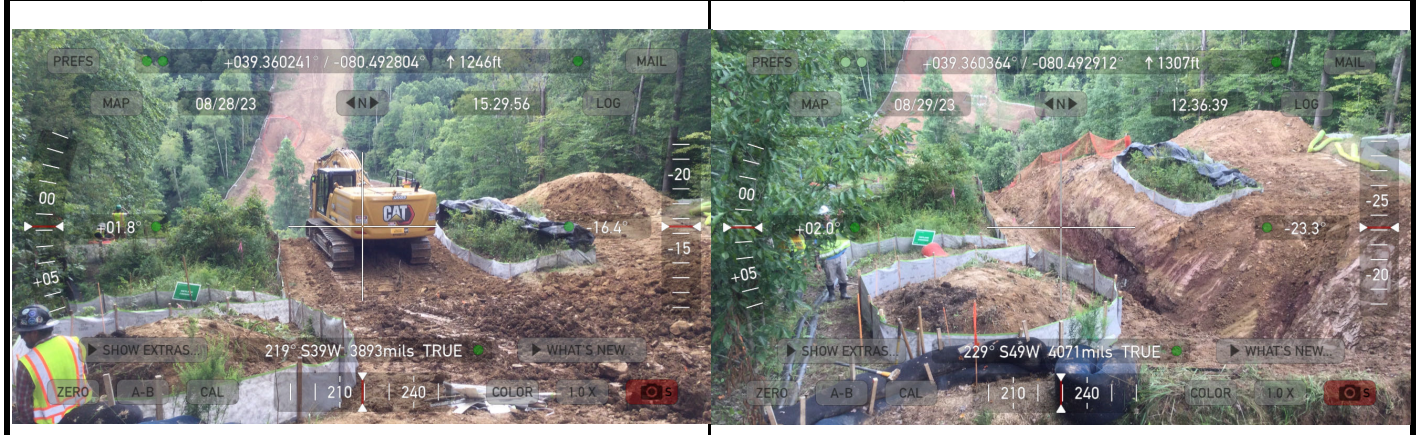
Required Photos



GPS Location Please see above.	GPS Location Please see above.
Description View of permitted resource impact area during pre-construction assessment.	Description At edge of LOD, view of unimpacted resource area conditions during pre-construction assessment.



GPS Location Please see above.	GPS Location Please see above.
Description View of permitted resource impact area during post-construction assessment.	Description At edge of LOD, view of unimpacted resource area conditions during post-construction assessment.



GPS Location Please see above.	GPS Location Please see above.
Description Photo showing matting placed down and plastic wrap to prevent soil from falling into wetland.	Description Photo of construction on 8/29, work on excavation through wetland continued.

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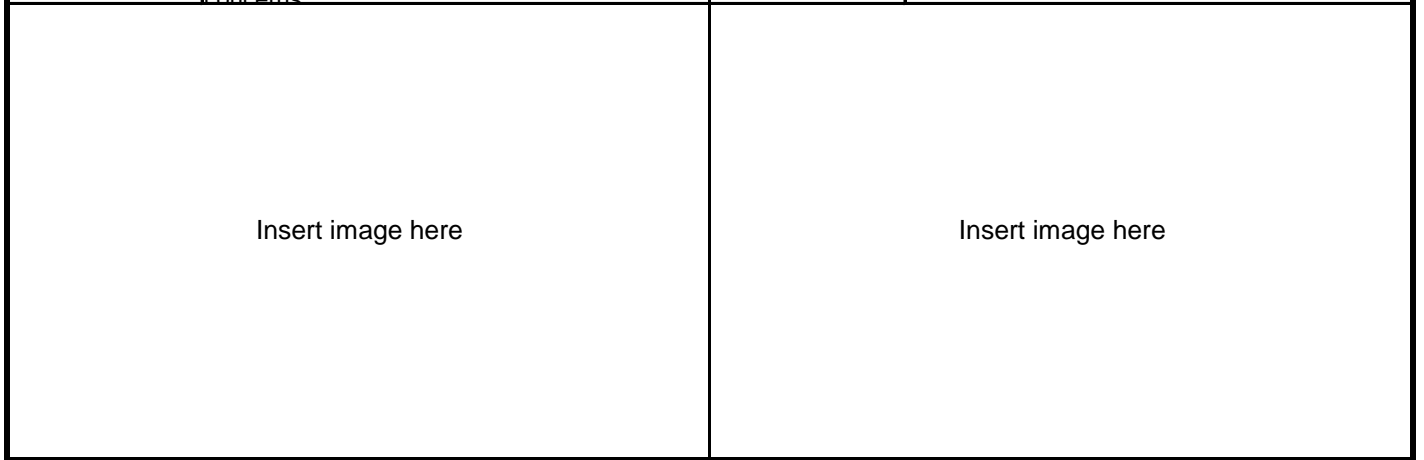
Optional Photos



GPS Location	Please see above.	GPS Location	Please see above.
Description	Photo of construction on 8/30 showing pipe section in upland area adjacent to wetland installed	Description	Photo of construction on 8/31 showing wetland section of pipe was installed



GPS Location	Please see above.	GPS Location	Please see above.
Description	9/1 Photo showing partial trench collapse on eastern side of crossing resulted in more wetland vegetation removal due to safety concerns	Description	Photo showing subsoil being restored to crossing on 9/2



GPS Location		GPS Location	
Description		Description	