



# Wetland Biological Conditions EA Report

<b>Project Name</b>	H-600 Pipeline Spread B	<b>AFE</b>	124300130	<b>Spread</b>	H-600 Pipeline Spread B
<b>Contractor</b>	Precision	<b>Report #</b>	38		
<b>Environmental Auditor</b>	Elyse Johnston			<b>Date/Time</b>	9/5/2023 9:48 AM
<b>Wetland ID</b>	W-CD16	<b>Crossing Start Date</b>	9/19/2023	<b>Crossing Completion Date</b>	10/5/2023
<b>Milepost</b>	61.20	<b>Pre-Con Assessment Date</b>	9/5/2023	<b>Post-Con Assessment Date</b>	10/6/2023
<b>Station</b>	3231+36	<b>Cowardin Classification</b>	PEM	<b>Wetland Impact Area(acres)</b>	0.024881
<b>State</b>	WV				
<b>County</b>	Lewis				

### 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?	See Below
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 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	<b>Wetland Saturation:</b> Are surface waters, the water table, and/or overall soil saturation present? (Select Yes or No)	No		No
18	<b>Resource Alterations:</b> Are the wetland soil conditions visibly disturbed? <b>Examples:</b> Livestock presence, haul roads, farm traffic, drain tiles, recent mowing/clear cutting, recent excavating/disking of soils, etc. <b>Rating:</b> 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	<b>Is vegetation present within the permitted impact area prior to disturbance? (Pre-Con)Are areas properly seeded and stabilized after restoration? (Post-Con)</b> <b>Rating:</b> 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

<b>AFE</b> 124300130	<b>Date/Time</b> 9/5/2023 9:48 AM	<b>Report #</b> 38
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**Additional Notes**

9/5 Pre-construction assessment conducted prior to commencement of sheet piling efforts in the area. Wetland has an equipment mat travel lane installed for the project. Wetland has well established vegetative cover cleared to ground level with before construction activity. - E. Johnston

9/19 Contractor installed sheet piling in W-CD16 (following removal of wetland topsoil). Sheet piling was installed to tie into bore connection/access road cover and adjacent to S-VV12. - C. Calmindon

9/20 Contractor continued work on installing sheet piling in W-CD16 and along upland area in-between W-CD16 and S-VV12 and continued work on tie-in welds. - C. Calmindon

9/21 Trench excavation was conducted inside of sheet piling in W-CD16 to upland area adjacent to S-VV12. - C. Calmindon

9/22 Light excavation to tie in trench and bore. The associated pipe connection was placed, welded, and X-Ray. - C. Calmindon

9/23 Finished welding connection from 9/22 and drove piles to stabilize area in-between bore and W-CD16. - C. Calmindon

9/25 Conducted coating of pipe, weld connection in W-CD16, dewatering of trenches, and adjusted sheet piling. - C. Calmindon

9/26 Installation of sheet piling adjacent to W-CD16 and S-VV12 was conducted. Two welds were completed and excavation of soil in trench adjacent to stream was completed. - C. Calmindon

9/27 Welding and X-Ray was completed in W-CD16. The contractor worked on the crossing of S-VV12. - C. Calmindon


9/28-10/3 The contractor continued working on the adjacent stream and nearby wetland crossing, no additional work was done in W-CD16. - C. Calmindon, J. Pokorny, C. Winchester, A. Dunn

10/4 - The contractor worked on removing sheet piling from W-CD16. - A. Dunn

10/5 - The contractor removed the remaining sheet piling and backfilled the wetland. The top 12 inches of clean native wetland soil was restored to W-CD16. Erosion controls were reinstalled and repaired as needed and the area was 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. A. Dunn

Post construction assessment:  
 Conditions 18 and 19 were given a rating of 4 during the post-construction assessment due to the lack of vegetation in the disturbed area following completion of the crossing. For condition 13, due to resource work on the associated stream and wetland crossings, restoration of the wetland topsoil was delayed. A. Dunn

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
Elyse Johnston		ERM	10/6/2023

**Required Photos**



<b>GPS Location</b>	See photo
<b>Description</b>	View of permitted resource impact area during pre-construction assessment.



<b>GPS Location</b>	See photo
<b>Description</b>	At edge of LOD, view of unimpacted resource area conditions during pre-construction assessment.



<b>GPS Location</b>	See photo
<b>Description</b>	View of permitted resource impact area during post-construction assessment.



<b>GPS Location</b>	See photo
<b>Description</b>	At edge of LOD, view of unimpacted resource area conditions during post-construction assessment.



<b>GPS Location</b>	See photo
<b>Description</b>	This photo shows the contractor removing the sheet piling from the wetland



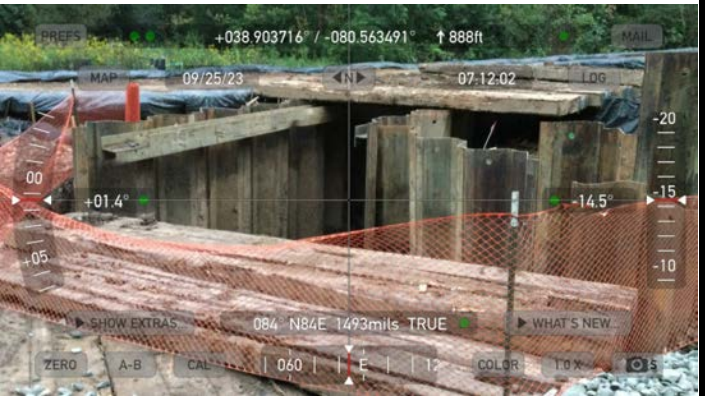
<b>GPS Location</b>	See photo
<b>Description</b>	This photo shows the pipe installed in the wetland

**Optional Photos**



**GPS Location** See photo

**Description** This photo shows the pipe installed in the wetland



**GPS Location** See photo

**Description** This photo shows the trench excavated in the wetland



**GPS Location** See photo

**Description** This photo shows the trench excavated in the wetland



**GPS Location** See photo

**Description** This photo shows the sheet piling installed in the wetland



**GPS Location** See photo

**Description** This photo shows the subgrade of the wetland following removal and segregation of the wetland topsoil

Insert image here

**GPS Location**

**Description**