



Wetland Biological Conditions EA Report

Project Name	H-600 Pipeline Spread B	A/E	124300130	Spread	H-600 Pipeline Spread B
Contractor	Precision	Report #	18		
Environmental Auditor	Devin Jen			Date/Time	8/15/2023 8:15 AM
Wetland ID	W-115	Crossing Start Date	8/15/2023	Crossing Completion Date	8/19/2023
Milepost	55.19	Pre-Con Assessment Date	8/15/2023	Post-Con Assessment Date	8/19/2023
Station	2914+03	Cowardin Classification	PEM	Wetland Impact Area(acs)	0.0631
State	WV				
County	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?	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 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)	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) 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

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Additional Notes

8/15/2023 Pre-construction assessment
 The weather at the time of the pre-construction assessment was 69°F and overcast. There was not any standing water observed in the wetland, however, the soil was saturated from the previous night's rain. The pipeline centerline is set to run northwest to southeast through the wetland crossing area. The wetland has pre-existing gravel and ruts throughout it which are likely caused by travel through the wetland to access a well off of the LOD. The top 12 inches of wetland topsoil were segregated away from the trench spoils. The section of pipe going through the wetland crossing area was positioned in the trench and sandbags were placed at the bottom of the trench to support the pipe. The crew began welding the section of pipe to the northwest of the stream crossing.


8/16/2023
 The weather on 8/16/2023 had a high of 78°F and was partly cloudy, however, the weather fluctuated throughout the day. The crew continued welding sections of the pipe to the northwest and southeast of the wetland crossing. The crew placed sandbags at the base of the wetland crossing area.

8/17/2023
 The weather on 8/17/2023 had a high of 86°F and was partly cloudy, however, the weather fluctuated throughout the day. The crew worked on welds southeast of the wetland crossing.

8/18/2023
 The weather on 8/18/2023 had a high of 77°F and was partly cloudy, however, the weather fluctuated throughout the day. The crew built the trench breakers for the wetland crossing and began backfilling.

8/19/2023 Post-construction assessment
 The weather on 8/19/2023 had a high of 82°F and was clear, however, the weather fluctuated throughout the day. Conditions 18 and 19 were given a rating of 4 during the post-construction assessment due to the lack of vegetation in the disturbed permitted impact area following the completion of the crossing and restoration efforts. The W-I15 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
Devin Jen		ERM	8/20/2023

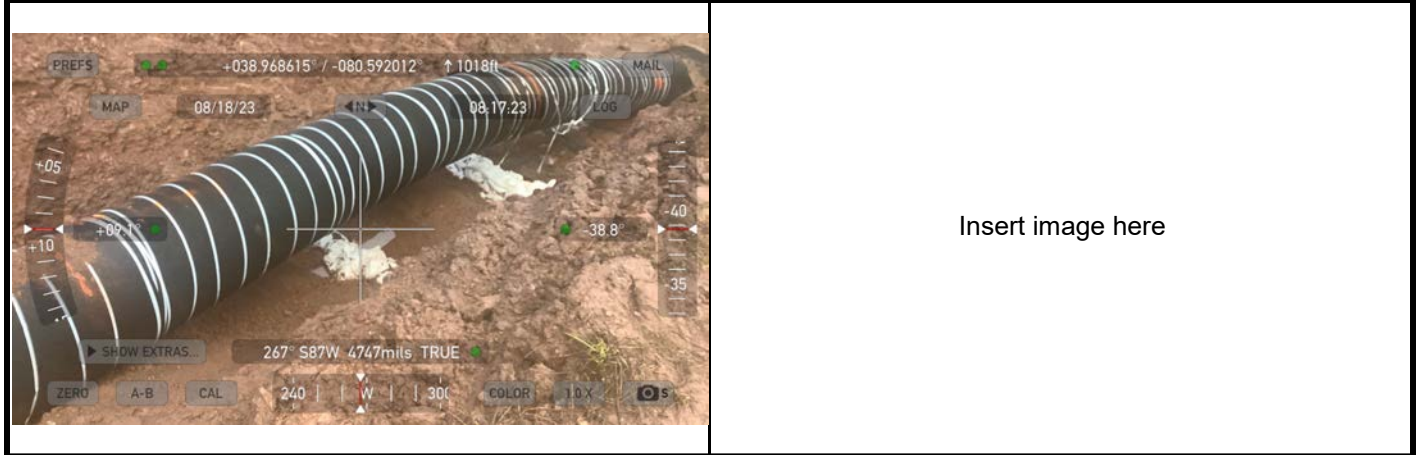
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Required Photos

GPS Location	See photograph.	GPS Location	See photograph.
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	See photograph.	GPS Location	See photograph.
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	See photograph.	GPS Location	See photograph.
Description	View of pipe that was placed through the wetland crossing area at the start of the workday on 8/16/23.	Description	View of the pipe, facing northwest, that was placed through the wetland crossing at the start of the workday on 8/17/2023.

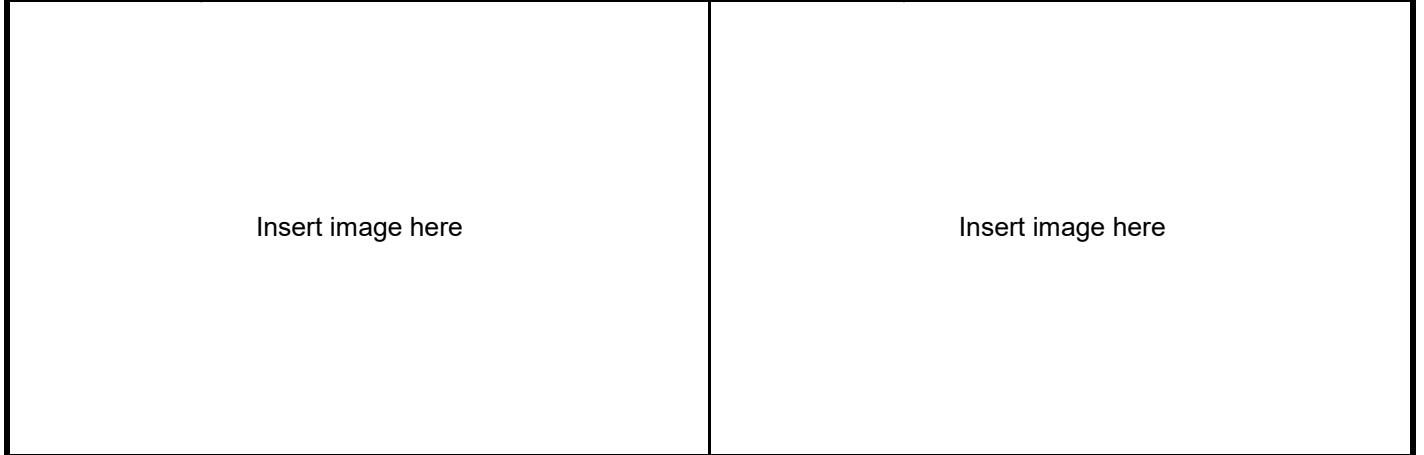
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Optional Photos



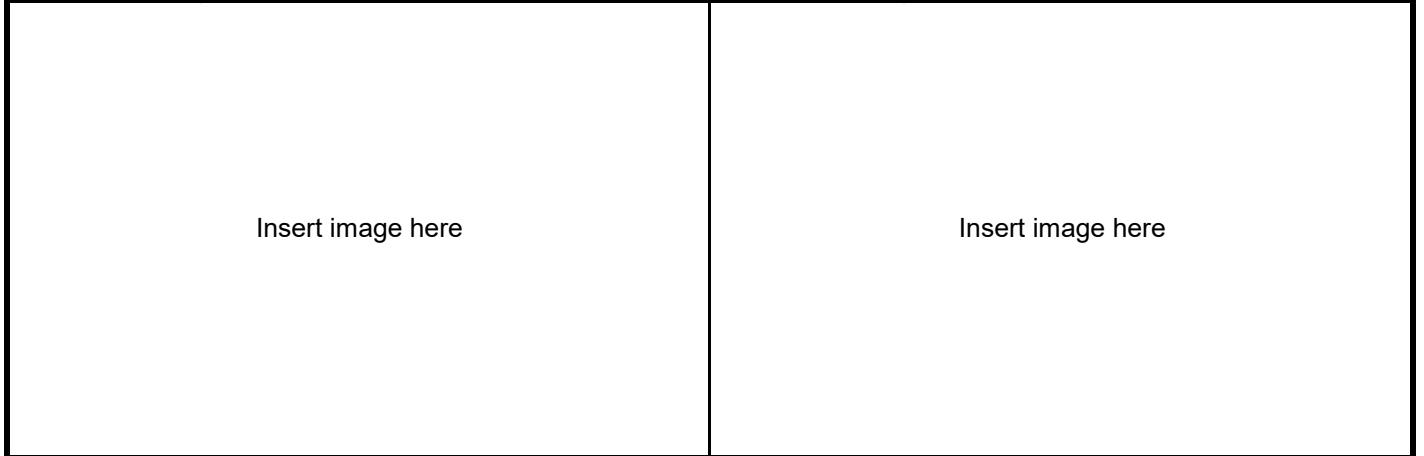
GPS Location	See photograph.	GPS Location	
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Description	View of the pipe that was placed through the wetland crossing at the start of the workday on 8/18/2023.	Description	
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GPS Location		GPS Location	
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