

STREAM BIOLOGICAL CONDITIONS ENVIRONMENTAL AUDITOR REPORT

Version 2.3



Stream ID: S-NN19	Crossing Start Date: 10/05/2023	Crossing Completion Date: 10/23/2023
Milepost: 234.3	Pre-Con Assessment Date: 10/04/2023	Post-Con Assessment Date: 10/23/2023
Station: 12380+05	Stream Classification: Intermittent (Perennial, Intermittent, Ephemeral)	Bankfull Width (ft.): 3.5
County: Montgomery	303(d) Impairment Listing: Not Impaired	Riffle:Pool Complexes Present? No

Item #	Resource Crossing Conditions	N/A	YES	NO
1.	Were all applicable resource specific crossing conditions satisfied? Time of Year Restrictions (TOYR)? <u>N/A</u> Fish Relocation? <u>N/A</u> Mussel Relocation? <u>N/A</u>		X	
2.	Is this resource designated a wild or stockable trout stream?	X		
3.	Which crossing methods were utilized during the stream crossing? <i>(Select one or more)</i> Dam & Pump, Flume, Cofferdam, Conventional Bore, Horizontal Directional Drill (HDD) Bore?		Dam & Pump	
4.	Was the top 1-foot (12-inches) of streambed substrate segregated and stockpiled separate from trench spoils?		X	
5.	Was excess material not needed for backfill removed and disposed of in an upland area?		X	
6.	Was the top 12-inches of backfill made with clean native stream substrate?		X	
7.	Was the pre-construction survey data provided and utilized during restoration in attempt to re-establish pre-construction contours?		X	
8.	Were any field modifications to the stream implemented by project or regulatory personnel to address potential drainage or bank restoration limitations?			X
9.	Were impervious trench breakers/plugs properly installed within 25-feet of top-of-bank to prevent subsurface erosion to or from the resource area?		X	
10.	Was permanent seed and stabilization material (straw or matting) applied to riparian areas and stream banks prior to re-establishing flow to the impact area of the channel?		X	
11.	Was the time of disturbance minimized by conducting resource work continuously to completion?		X	
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?		X	
13.	Are bareroot saplings required and/or scheduled to be planted for the dormant season (10/1 – 4/30)?	X		
14.	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.			X

Item #	Biological Conditions	Pre-Con	Post-Con
15.	Predominant Substrate Type (select one): <i>Bedrock, Boulder (>10"), Cobble (2-10"), Gravel (0.1-2"), Sand (<0.1"), Mud/Silt/Clay</i>	Bedrock	Cobble (2-10")
16.	Channel Conditions: Rating: 1-Optimal (80-100% stable banks), 2-Sub-optimal (60-80% stable banks), 3-Marginal (40-60% stable banks), 4-Poor (20-40% stable banks), 5-Severe (0-20% stable banks, highly eroded or unvegetated banks)	2 - Suboptimal	2 - Suboptimal
17.	Riparian Buffer Zone within ROW and ≤50 ft. from Stream Top-of-Bank: Rating: 1-Optimal (60-100% heavy vegetative cover), 2-Sub-optimal (30-60% mixed vegetated coverage), 3-Marginal (<30% vegetative coverage), 4-Poor (Mowed/maintained area or farmland, impervious area, sparsely vegetated coverage, etc.)	3 - Marginal	3 - Marginal
18.	Instream Habitat Conditions: Examples: Varied substrate sizes, varied combination of water velocities/depths, presence of woody/leafy debris, stable substrate with low amount of mobile particles, low embeddedness, shade protection, undercut banks, root mats, submerged aquatic vegetation. Rating: 1-Optimal (Habitat conditions present in >50% of resource), 2-Suboptimal (Habitat conditions in 30-50% of resource), 3-Marginal (Habitat conditions in 10-30% of resource), 4-Poor (Habitat conditions in 0-10% of resource)	3 - Marginal	3 - Marginal
19.	Channel Alterations: Examples: Straightened channel, non-MVP stream crossings, non-native riprap/rock along banks, concrete/gabions/concrete block, manmade embankments, constrictions w/in channel, livestock or agricultural impacts. Rating: 1-Negligible (unaltered/natural stream), 2-Minor (20-40% of resource disrupted by channel alterations), 3-Moderate (40-80% of resource disrupted), 4-Severe (>80% of resource disrupted)	1 - Negligible	1 - Negligible

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Comments/Remarks

EI on-site is Dyllon Hooper.

10/4/2023- Pre-construction meeting and pre-con auditor assessment completed. -S. Frost

10/5/2023 Beginning upland buffer zone topsoil removal. -B. Fantauzzi

10/6/2023: Crews were able to get the right buffer zone stripped of topsoil yesterday. They stockpiled the soil against LOD and put silt fence around it to keep it segregated. Moving equipment and pipes to opposite side of resource for space to work. -B. Fantauzzi

10/7/2023: Installing trench box and preparing excavation area in upland areas adjacent to the resource. -K. Ball

10/9/2023: No work in the resource areas. Prep in upland areas. -B. Fantauzzi

10/10/2023 Stripping topsoil from stream buffer zones and stream substrate. Stockpiled separately on geotextile fabric and covered with matting. -B. Fantauzzi

10/11/2023: Excavation of the trench subsoil. Flume remains installed and no impacts to biological conditions. -B. Fantauzzi

10/12/2023: Trench remains excavated and flume remains installed with no impacts to biological conditions. -B. Fantauzzi

10/13/2023: Pipe preparation in the upland area adjacent to resource for pipe lowering in. Flume remains installed and no issues noted on site. -B. Fantauzzi

10/14/2023: Rock hammer continues to expand trench size for pipe installation. No impacts to biological conditions. -B. Fantauzzi

10/16/2023: Rock hammering in the upland area to further excavate trench. -B. Fantauzzi

10/17/2023: Rock hammer in the upland area of trench, and dewatering continues. No impacts to biological conditions. -B. Fantauzzi

10/18/2023: Work activity in upland areas adjacent to resource. Resource flume crossing remains installed and functioning. No impacts to biological conditions. -B. Fantauzzi

10/19/2023: Rock hammering mostly completed, and excavation of trench in the upland areas across the adjacent roadway active. -B. Fantauzzi

10/20/2023: Rain out, no work in the resource or upland areas. Flume remains installed and no impacts to biological conditions or unauthorized discharges were observed. -B. Fantauzzi

10/21/2023: Pipe lowered into trench and welding activities commenced. Flume remains installed and no impacts

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to biological conditions were observed. -B. Fantauzzi

10/22/2023: Pipe welding completed and QA/QC process completed. Backfill of subsoil underway, and survey team on-site assisting with restoration of pre-existing grade/conditions. -B. Fantauzzi

10/23/2023: Final restoration of streambed substrate, topsoil, and application of temp & permanent seed mixes. Erosion control matting installed and keyed in as much as possible. Soil conditions are very rocky. Restoration complete and auditor assessment was completed. -B Fantauzzi

No impacts to biological conditions or unauthorized discharges were observed during the resource crossing.

In accordance with the Mountain Valley Pipeline Consent Decree, Case No. CL18006874-00, (Issued October 11, 2019) 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.

<i>This report was written by</i>	Brian Fantauzzi <i>Print Name</i>	 <i>Signature</i>	10/23/2023 <i>Date</i>
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Required Photos

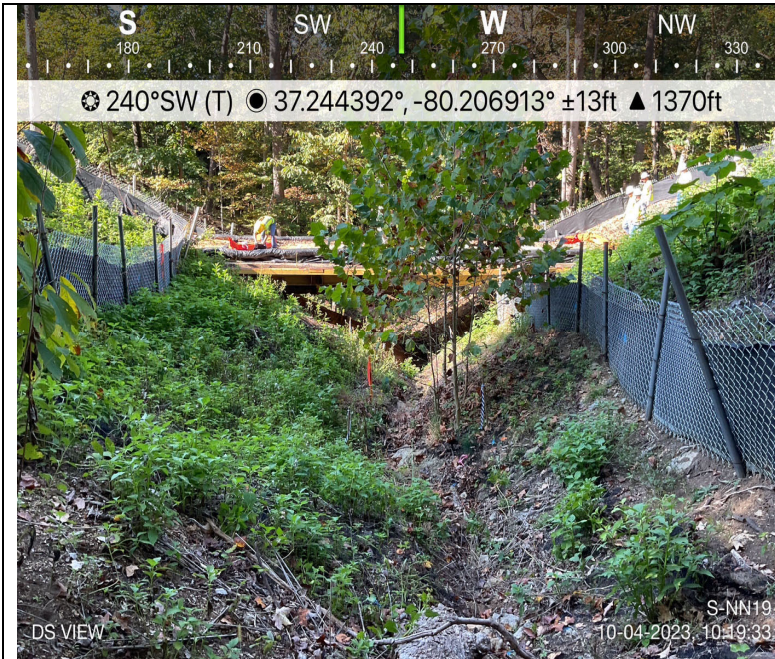


Photo Description: Downstream view of permitted impact area during pre-construction assessment.



Photo Description: Conditions of the downstream area outside the ROW during pre-construction assessment.



Photo Description: Downstream view of permitted impact area during post-construction assessment.



Photo Description: Conditions of the downstream area outside the impact area under the bridge during post-construction assessment.

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Optional Additional Photos



Photo Description: Dewatering structure installed and operation during crossing.

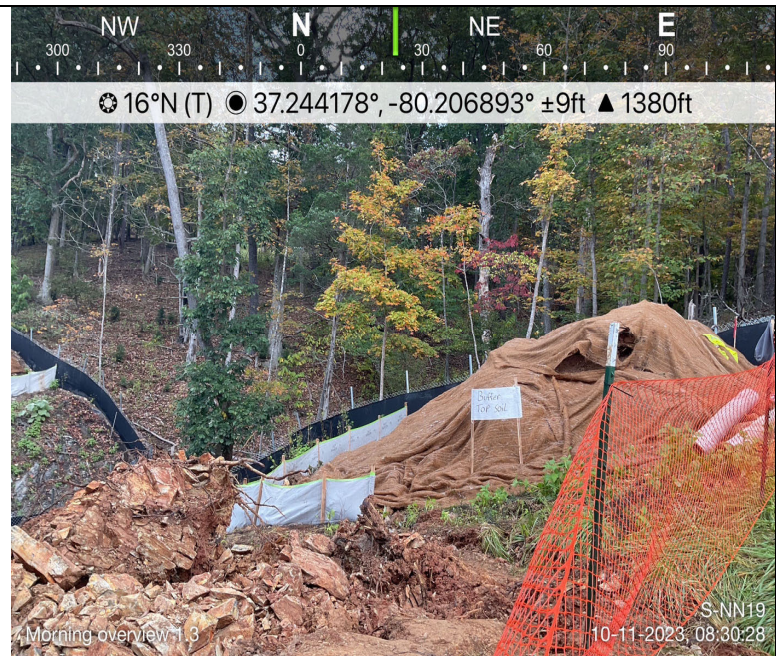


Photo Description: In-stream material stockpiled and covered from elements.



Photo Description: Dam and pump installed and operation during crossing activities.



Photo Description: Stream substrate/topsoil stockpiled and stored separately from subsoil.