

STREAM BIOLOGICAL CONDITIONS ENVIRONMENTAL AUDITOR REPORT

Version 2.3



Stream ID: S-C24	Crossing Start Date: 11/03/2023	Crossing Completion Date: 11/16/2023
Milepost: 230.2	Pre-Con Assessment Date: 11/01/2023	Post-Con Assessment Date: 11/16/2023
Station: 12166+47	Stream Classification: Intermittent (Perennial, Intermittent, Ephemeral)	Bankfull Width (ft.): 3
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?		Flume	
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>	Gravel (0.1-2")	Gravel (0.1-2")
16.	Channel Conditions: Rating: 1-Optimal (80-100% stable banks), 2-Suboptimal (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-Suboptimal (30-60% mixed vegetated coverage), 3-Marginal (<30% vegetative coverage), 4-Poor (Mowed/maintained area or farmland, impervious area, sparsely vegetated coverage, etc.)	2 - Suboptimal	2 - Suboptimal
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)	4 - Poor	4 - Poor
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

11-1-2023- EI on-site is Dylan Hooper and Foreman is Scott Moore. Contractor stated that the anticipated start date is 11/6/2023. -S. Manzo

11-3-2023- Installed the upstream and downstream dams for flume crossing. Removed topsoil and substrate and started trenching and hit rock. Blasting operations needed for further excavation. -S. Manzo

11-4-2023- Drilled holes for dynamite and blasted rock. -S. Manzo

11-6-2023- Trenched through 50ft buffer and stream section. -S. Manzo

11-7-2023- No work done in the stream. Lowered pipe and started welding outside 50ft buffer. -S. Manzo

11-8-2023- Backfilled going-away-side of trench then trenched again and made it wider to fit the pipe. -S. Manzo

11-9-2023- No in stream activity. Clean up and prep for rain. - T. Cullop

11-10-2023- No in stream activity. Waiting for pipe to be re-engineered. - T. Cullop

11-11-2023- No in stream activity. Waiting for pipe to be re-engineered. - T. Cullop

11-13-2023- Pipe was lowered-in and welded together. Stream was flumed over night and maintained throughout crossing. -T. Cullop

11-14-2023- Pipe tied-in and final welding complete. Back filling outside of 50' buffer began. Anticipate stream restoration to begin tomorrow. - M. Smith

11-15-2023- Upland pipe backfilled. Resource backfilled to grade (surveyed and staked out) ready to receive stream media for restoration. Stream flumed overnight. - M. Smith

11-16-2023- Stream was restored to pre-existing conditions and stabilized. Post-construction auditor assessment was completed. All biological conditions were maintained throughout the crossing, and no unauthorized discharges were observed. -T. Cullop

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>	Tanner Cullop <i>Print Name</i>	 <i>Signature</i>	11/22/2023 <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 ROW during post-construction assessment.

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Optional Additional Photos



Photo Description: Streambed substrate/topsoil was stripped and segregated.



Photo Description: Conditions of resource downstream from impact area during restoration. No impacts to biological conditions or unauthorized discharges were observed during the crossing.



Photo Description: Survey staking out for restoration.



Photo Description: Conditions of the resource impact area at the end of a workday. Flume remains installed and operational.