

# STREAM BIOLOGICAL CONDITIONS ENVIRONMENTAL AUDITOR REPORT

Version 2.3



<b>Stream ID:</b> S-CD8	<b>Crossing Start Date:</b> 11/03/2023	<b>Crossing Completion Date:</b> 11/8/2023
<b>Milepost:</b> 281.7	<b>Pre-Con Assessment Date:</b> 10/30/2023	<b>Post-Con Assessment Date:</b> 11/9/2023
<b>Station:</b> 14881+45	<b>Stream Classification:</b> Intermittent (Perennial, Intermittent, Ephemeral)	<b>Bankfull Width (ft.):</b> 4.5
<b>County:</b> Franklin	<b>303(d) Impairment Listing:</b> Not Impaired	<b>Riffle:Pool Complexes Present?</b> No

Item #	Resource Crossing Conditions	N/A	YES	NO
1.	Were all applicable resource specific crossing conditions satisfied? Time of Year Restrictions (TOYR)? <u>No</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? (Select one or more) 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.	<b>Predominant Substrate Type (select one):</b> <i>Bedrock, Boulder (&gt;10"), Cobble (2-10"), Gravel (0.1-2"), Sand (&lt;0.1"), Mud/Silt/Clay</i>	Gravel (0.1-2")	Gravel (0.1-2")
16.	<b>Channel Conditions:</b> <b>Rating:</b> 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)	3 - Marginal	2 - Suboptimal
17.	<b>Riparian Buffer Zone within ROW and ≤50 ft. from Stream Top-of-Bank:</b> <b>Rating:</b> 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.)	1 - Optimal	1 - Optimal
18.	<b>Instream Habitat Conditions:</b> <b>Examples:</b> 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. <b>Rating:</b> 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.	<b>Channel Alterations:</b> <b>Examples:</b> 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. <b>Rating:</b> 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	2 - Minor

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**Comments/Remarks**

10-30-23: The pre-construction survey was conducted. The MVP EI is Josh Varney, and the Precision Pipeline foreman is Billy Schlueter. During the meeting the parties discussed soil management and placement of the dewatering structure. -D. Fraise

11-03-23: Construction is active. The topsoil was excavated and stockpiled within the 50-foot buffer. The top 12-inches of stream substrate was excavated and stored in Super Sak to prevent mixture. Excavation of the trench is completed. The subsoil was stockpiled in the designated upland area. -D. Fraise

11-04-23: The crew laid pipe in the trench and welded the pipe. -D. Fraise

11-05-23: The continued welding of the pipe. No impacts to biological conditions -D. Fraise

11-06-23: The crew laid the second joint of pipe in the trench. Continued cutting and welding of the pipe. -D. Fraise

11-07-23: Continued cutting and welding of the joint. -D. Fraise

11-08-23: The pipe was x-rayed, coated and sand blasted. Backfilling began. Two trench breakers were installed on both sides of the stream. Survey was shot for the stream centerline. Bank modification occurred to reconstruction the banks to a more stable slope. Both 50-foot buffer zones were backfilled, filter sock was installed, and seed was applied. Stabilization matting was installed with high velocity screw pins and keyed in 6-inches. The banks inside of the 10-foot buffer were heavily seeded with permanent riparian mix and temporary seed was also applied for stabilization. Flow was restored to the resource and the auditor conducted the post-construction assessment. -D. Fraise

No impact to biological conditions or unauthorized discharge, were observed during the crossing activities.

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>	<u>Darrell Fraise</u> <i>Print Name</i>	<u></u> <i>Signature</i>	<u>11/09/2023</u> <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



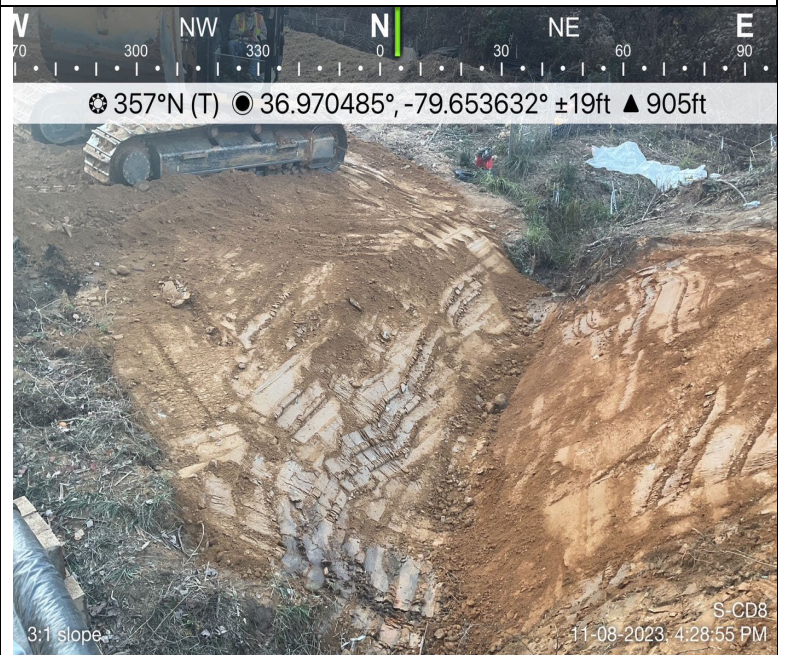
**Photo Description:** An overview of the dam and pump installed onsite.



**Photo Description:** An overview of the dewatering structure.



**Photo Description:** Survey onsite for the reconstruction of the stream centerline.



**Photo Description:** A 3:1 slope to the stream bank was achieved during reconstruction.