

STREAM BIOLOGICAL CONDITIONS ENVIRONMENTAL AUDITOR REPORT

Version 2.3



Stream ID: S-KL51	Crossing Start Date: 09/19/2023	Crossing Completion Date: 09/22/2023
Milepost: 267.9	Pre-Con Assessment Date: 09/07/2023	Post-Con Assessment Date: 09/24/2023
Station: 14156+55	Stream Classification: Perennial (Perennial, Intermittent, Ephemeral)	Bankfull Width (ft.): 5.5
County: Franklin	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>Yes</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>	Mud/Silt/Clay	Mud/Silt/Clay
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)	3 - Marginal	1 - Optimal
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.)	1 - Optimal	1 - Optimal
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)	1 - Optimal	1 - Optimal
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

9-07-23: Conducted a pre-construction meeting. The MVP EI is Dusty Mofield, and the Precision Pipeline foreman is Dean. -T. Snideman

9-08-23: The crew is setting up the site and equipment. Site preparation and set up is slow due to last night's rain. -T. Snideman

9-09-23: The crew installed water bars in anticipation of the rainfall forecasted for the weekend. -T. Snideman

9-11-23: Another pre-construction meeting was conducted as Nathan Summers became the Precision Pipeline foreman. -T. Snideman

9-16-23: The crew installed sections of pipe on both sides of the stream. -T. Snideman

9-18-23: Steven Barber has become the MVP EI on-site. The crew is waiting for the fish relocation before conducting work in the resource. Until the fish relocation, the crew cut in, attached a section of pipe, continued coating, and welding. -T. Snideman

9-19-23: The dam and pump were installed. Fish relocation was completed. The topsoil was stripped, and the cobble stones were removed from the stream. During soil excavation, rock was encountered, and the crew began to hammer the rock. Excavation of the stream bank continued. -T. Snideman

9-20-23: Continued excavation of the stream bank. Padding for the pipe was installed. The crew began installing the pipe. -T. Snideman

9-21-23: The crew began welding. No impact to biological conditions were observed. -T. Snideman

9-22-23: The crew completed the second weld and installed the trench breakers. The crew backfilled and chipped rock near the pipe. The subsoil and topsoil were restored, and the areas were graded with the assistance of the survey crew. Seed and straw mulch were applied. Erosion control blankets were installed in the 10-foot buffer. surveys shot. The substrate and cobble were placed back into the stream bed. -T. Snideman

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>	Traci Snideman <i>Print Name</i>	 <i>Signature</i>	09/24/2023 <i>Date</i>
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Required Photos

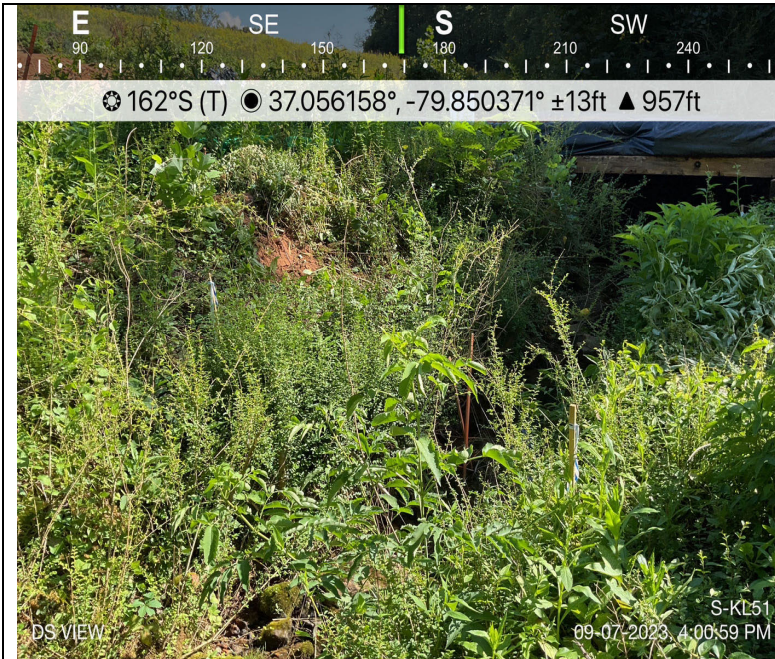


Photo Description: Downstream view of permitted impact area during pre-construction assessment.



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: The survey crew providing levels to assist in the stream restoration.



Photo Description: The crew in the process of removing the rock check dam after restoration was complete.



Photo Description: Stream substrate and cobble being returned to the stream bed.



Photo Description: A trench breaker after installation.