

STREAM BIOLOGICAL CONDITIONS ENVIRONMENTAL AUDITOR REPORT

Version 2.3



Stream ID: S-G25	Crossing Start Date: 08/23/2023	Crossing Completion Date: 09/20/2023
Milepost: 246.5	Pre-Con Assessment Date: 08/21/2023	Post-Con Assessment Date: 09/20/2023
Station: 13024+08	Stream Classification: Intermittent (Perennial, Intermittent, Ephemeral)	Bankfull Width (ft.): 7
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>Yes</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, 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>	Cobble (2-10")	Cobble (2-10")
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	3 - Marginal
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.)	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)	4 - Poor	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

On-site crossing EI is Matt Futkos. This resource crossing was performed in conjunction with S-G24 & W-ST2-PEM.

8/21/23- Pre-con meeting and pre-con assessment. -S. Frost

8/22/23- No work in the resource. -S. Frost

8/23/23- Trenching outside and inside of the 50 ft buffer. Trench box installed. Trench began to give way in the 50ft buffer area near the timber mats. -S. Frost

8/24/23- Second trench box installed in the unstable trench in the 50 ft buffer. - S. Frost

8/25/23- Work rained out. No work in the resource. - S. Frost

8/26/23- Pipe lowered into the trench. PI weld not yet made. -S. Frost

8/28/23- Rain out. No work in the resources. - S. Frost

8/29/23- Rain out. No work in the resources. - S. Frost

8/30/23- Dewatering of trench. Dewatering structure failed, causing sediment to wash off LOD in an upland area that did not impact the resources. New dewatering structure built. - S. Frost

8/31/23- Dewatering of trench. Blasting prep and operation completed in the steep slope upland area outside of the 50ft buffer. -S. Frost

9/1/23- Dewatering of trench. Welds started at the PI outside of the 50ft buffer. - S. Frost

9/2/23- PI welds completed. X-ray found faults and pipe has to be cut and welded again. -S. Frost

9/3/23- Second weld completed. X-ray passed, coated, and jeepled. - S. Frost

9/4/23- Survey completed. Pipe padded. Backfill completed outside of the 50 ft buffer. Timber mats and geotech fabric placed for wetland and stream bed soil segregation. - S. Frost

9/5/23- Dam and pump installed. Wetland and stream bed top soiled and segregated. Stop to work called due to bridge repairs needed. -S. Frost

9/6/23- Bridge geotech fabric repaired and safe to resume work. - S. Frost

9/7/23- Rain and lightning in the morning caused a late start. Trenching through wetland W-ST2-PEM. - S. Frost

9/8/23- ECD prep for rain- S. Frost

9/9/23- Trenching through stream and wetland. -S. Frost

STREAM BIOLOGICAL CONDITIONS ENVIRONMENTAL AUDITOR REPORT

Version 2.3



9/11/23- Trenching through wetland and streams in 10 ft buffer. - S. Frost

9/12/23- Trenching continues through 10ft buffer. Prepping pipe to be installed. - S. Frost

9/13/23- Trenching through 50ft buffer. Prepping pipe to be installed. -S. Frost

9/14/23- Pipe lowered into trench. Welding, X-ray, coating, jeep tested. - S. Frost

9/15/23- Partial backfill. Prep for trench breakers. - S. Frost

9/16/23- Trench breakers installation started. - S. Frost

9/18/23- Trench breakers finished. Partial backfill. - S. Frost

9/19/23- Backfill completed. Wetland and stream restoration partially started. - S. Frost

9/20/23- Wetland and stream restoration completed. Seeding and matting completed. Final grade survey shots. Flow returned to streams. Post-con assessment completed. - S. Frost

Item #1: Time of Year Restriction: October 1 through March 31.

Item #2: None, but upstream of trout water (Brown Trout)

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>	Summer Frost <i>Print Name</i>	 <i>Signature</i>	09/21/2023 <i>Date</i>
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Required Photos



Photo Description: Downstream view of permitted impact area during pre-construction assessment. S-G25 converges with S-G24 within the impact area, which then flows off the ROW.



Photo Description: Conditions of the downstream area outside the ROW during pre-construction assessment. S-G25 converges with S-G24 within the impact area, which then flows off the ROW.



Photo Description: Downstream view of permitted impact area during post-construction assessment. S-G25 converges with S-G24 within the impact area, which then flows off the ROW.



Photo Description: Conditions of the downstream area outside the ROW during post-construction assessment. S-G25 converges with S-G24 within the impact area, which then flows off the ROW. Typo in photo, "DS COND", not DS VIEW.

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Optional Additional Photos



Photo Description: Dam and pump around energy dissipator installed and functioning.



Photo Description: Topsoil removal within resource impact area.



Photo Description: Restoration of streambed material into the resource.



Photo Description: Upstream view of resource impact area after restoration.