

STREAM BIOLOGICAL CONDITIONS ENVIRONMENTAL AUDITOR REPORT

Version 2.3



Stream ID: S-A33	Crossing Start Date: 11/30/2023	Crossing Completion Date: 12/22/2023
Milepost: 205.4	Pre-Con Assessment Date: 11/20/2023	Post-Con Assessment Date: 12/22/2023
Station: 10763+97	Stream Classification: Ephemeral (Perennial, Intermittent, Ephemeral)	Bankfull Width (ft.): 7
County: Giles	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>	Cobble (2-10")	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)	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-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.)	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)	2 - Suboptimal	2 - Suboptimal
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

- 11/20/2023- Pre-construction meeting held and assessment complete. MVP EI is Adam Taylor. This crossing will be completed at the same time as S-A34. -A. Breeding
- 11/27/2023- Pre-construction meeting held for new tie in crew. MVP EI is Adam Taylor. This crossing will be completed at the same time as S-A34. -A. Burgess
- 11/30/2023- Removed topsoil and began drilling shot holes. -C. Stanley
- 12/1/2023- Drilled shot holes. -C. Stanley
- 12/2/2023- Finished drilling shot holes. -C. Stanley
- 12/4/2023- Blasted. The blast shifted both timber mat bridges. Finished replacing bridge today. No impact to biological conditions. -C. Stanley
- 12/5/2023- Rebuilt the bridge on A34, had to wait on timber mats to be delivered. -C. Stanley
- 12/6/2023- Rock hammered and trenching. -C. Stanley
- 12/7/2023- Rock hammered and trenching continues, second rock hammer late in the day. -C. Stanley
- 12/8/2023- New bit put on rock hammer, rock hammering and trenching continues. -C. Stanley
- 12/9/2023- Rock hammered and trenching continues. -C. Stanley
- 12/11/2023- Drilled shot holes and blasted last section, Rock hammered and trenching continues. -C. Stanley
- 12/12/2023- Rock hammered and trenching continues, and started welding on first pipe section, welder had issues needing a technician to fix. -C. Stanley
- 12/13/2023- Rock hammered and trenching continues, lowered and finished welding on second pipe section. -C. Stanley
- 12/14/2023 -Rock hammered and trenching continues, padding backfill added to trench to help stabilize the pipe. -C. Stanley
- 12/15/2023- Installed last section of pipe and finished welding, X-ray completed on all 3 welds. -C. Stanley
- 12/16/2023- Fixed one weld and X-ray completed, sandblasted and coated 2 welds, and padding. -C. Stanley
- 12/18/2023- Installed trench breakers and padded around them, sandblasted and coated last weld. There was a small hydraulic oil leak and about a quart of oil was leaked out on the ground outside of the buffer area and was contained and disposed of properly. No impact to biological conditions. -C. Stanley

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12/19/2023- Started trenching for tie-in. -C. Stanley

12/20/2023- Finished trenching, placed pipe in trench and welded. -C. Stanley

12/21/2023- Backfilled trench. -C. Stanley

12/22/2023- Completed final contouring, restored stream substrate, restored buffer topsoil, and seeded and stabilized topsoil. Dam and pump removed and flow restored. No impact to biological conditions or unauthorized discharges were observed during the crossing. Post-construction auditor assessment completed. -C. Stanley

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>	Cody Stanley <i>Print Name</i>	 <i>Signature</i>	12/22/2023 <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: Dam and pump installed and operational throughout crossing.



Photo Description: Dewatering structure installed and available throughout crossing.



Photo Description: Stream substrate restoration with survey team on-site.



Photo Description: Stabilization applied by environmental crews.