

# STREAM BIOLOGICAL CONDITIONS ENVIRONMENTAL AUDITOR REPORT

Version 2.3



<b>Stream ID:</b> S-RR09	<b>Crossing Start Date:</b> 10/23/2023	<b>Crossing Completion Date:</b> 10/31/2023
<b>Milepost:</b> 252.7	<b>Pre-Con Assessment Date:</b> 10/21/2023	<b>Post-Con Assessment Date:</b> 11/01/2023
<b>Station:</b> 13352+23	<b>Stream Classification:</b> Ephemeral (Perennial, Intermittent, Ephemeral)	<b>Bankfull Width (ft.):</b> 9
<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>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, 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.	<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>	Cobble (2-10")	Cobble (2-10")
16.	<b>Channel Conditions:</b> <b>Rating:</b> 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	3 - Marginal
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-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.)	3 - Marginal	3 - Marginal
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	1 - Negligible

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**Comments/Remarks**

El on-site is Austin.

10/21/2023- Pre-con meeting and pre-con auditor assessment completed. - S. Frost

10/22/2023- No work in the 10 ft buffer or resource area. -S. Frost

10/23/2023- Dam and pump, energy dissipater installed, and cobble removed from stream bed. Stream substrate and cobble removal and segregation. Stop to forward progress was called due to potential pipe re-engineering outside of the 10 ft buffer. -S. Frost

10/24/2023- Active work resumed, and contractor continued trenching through buffer area. Relaying separated soils to their appropriate stockpiles. -B. Fantauzzi

10/25/2023- Prepping to lower-in stream section of pipe. Pipe lowered into trench and pipe end welding was completed. -S. Frost

10/26/2023- X-ray completed on the C.I.S. Weld was coated and jeep tested completed. Final section of pipe installed on the G.A.S. - S. Frost

10/27/2023- Welding started and completed on the G.A.S. - S. Frost

10/28/2023- X-ray, coating, jeep test completed for welds. Partial backfill started on C.I.S. Trench breakers completed and subsoil backfilled. Stream and 10ft buffer restoration set for 10/30/2023. - S. Frost


10/30/2023- Relaying soils to their appropriate location for restoration of stream and buffer areas. Subsoil backfill completed. ECD's installed for potential overnight rain. Final restoration postponed to 10/31/2023. -S. Frost

10/31/2023- Flume pipe removed, and dams left in place for restoration effort. Banks and 10ft buffer topsoil restoration completed. Stream substrate restored to final grade as directed by survey team/data. Final contours re-established. Cobble returned to stream bed. Seeding and stabilization matting installed. Upstream and downstream dams removed for flow to return. 10 ft buffer restored. Post-con auditor assessment to be completed on 11/1/23. - S. Frost

11/1/2023- Post-con assessment completed. - S. Frost

No unauthorized discharges or impacts to biological conditions were observed during the crossing activity.

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>	<b>Summer Frost</b> <hr/> <i>Print Name</i>	 <hr/> <i>Signature</i>	<b>11/02/2023</b> <hr/> <i>Date</i>
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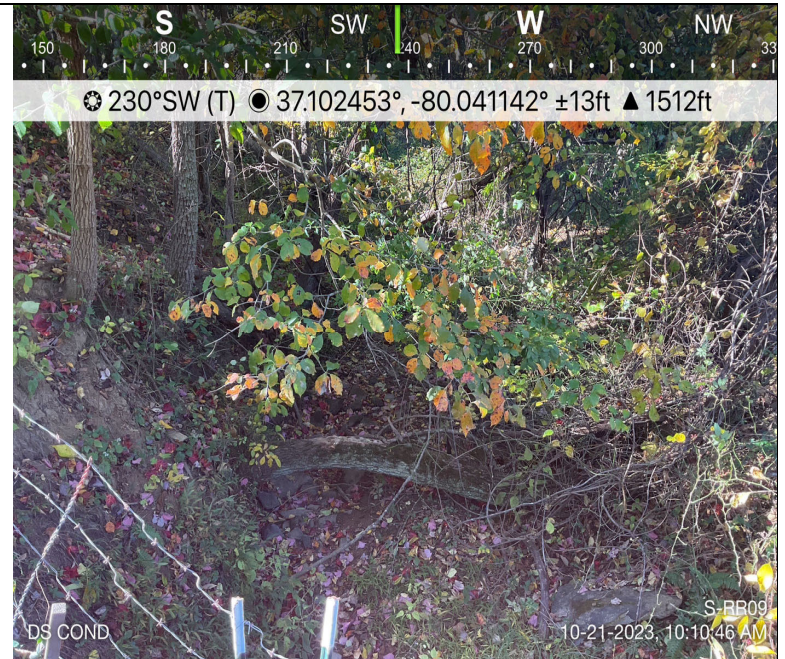
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## Required Photos



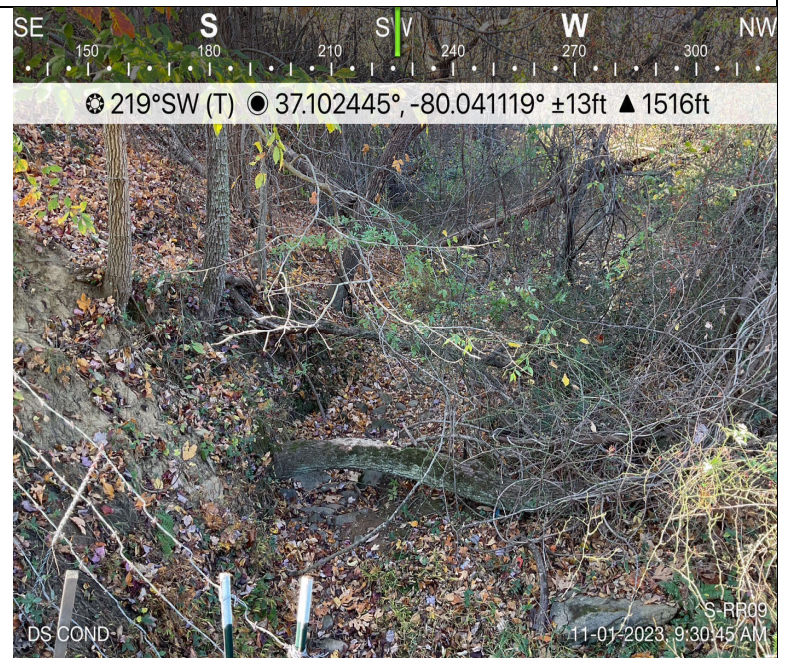
**Photo Description:** Downstream view of permitted impact area during pre-construction assessment.



**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.

