

# STREAM BIOLOGICAL CONDITIONS ENVIRONMENTAL AUDITOR REPORT

Version 2.3



<b>Stream ID:</b> S-EF65	<b>Crossing Start Date:</b> 08/17/2023	<b>Crossing Completion Date:</b> 09/03/2023
<b>Milepost:</b> 222.2	<b>Pre-Con Assessment Date:</b> 07/31/2023	<b>Post-Con Assessment Date:</b> 09/03/2023
<b>Station:</b> 11740+42	<b>Stream Classification:</b> Intermittent (Perennial, Intermittent, Ephemeral)	<b>Bankfull Width (ft.):</b> 12
<b>County:</b> Montgomery	<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>Yes</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.	<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	1 - Optimal
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	2 - Suboptimal
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

MVP EI for crossing is David Schoolcraft

07/31/2023: Pre-con assessment was performed. No water present at time of assessment. -A. Burgess

08/01/2023: Attended pre-con meeting. Features on Profile and Cross-Section Baseline Survey were found to be mislabeled and have since been addressed. No work to be done until S-EF62 is completed. De-watering structure from S-EF62 to be utilized for S-EF65. -A. Burgess

08/17/2023: Began construction. Topsoil was removed and stockpiled inside 50ft. buffer area. Top 12in. of stream substrate was removed and stored in Super Sak to prevent mixing. -A. Burgess

08/18/2023: Trenching completed. Subsoil stockpiled in proper upland area. Installed pipe and began first weld. -A. Burgess

08/19/2023: First weld complete. Installed next section of pipe and began second weld. -A. Burgess

08/21/2023: Finished second weld and installed trench boxes. -A. Burgess

08/22/2023: Installed final section of pipe. Completed third weld. -A. Burgess

08/23/2023: Completed final weld and X-Ray. -A. Burgess

08/24/2023: Sifter bucket had small hydraulic leak confined to subsoil inside bucket. Contaminated subsoil was bagged and removed; leak was fixed. Installed trench breakers and pipe weights. Began backfilling. -A. Burgess

08/25/2023: Rain out. Crew remained onsite for continuous monitoring. -A. Burgess

08/26/2023: Installed pass-through drains and continued backfilling. Roughed in stream contours. -A. Burgess

08/27/2023: Survey stakeout complete. -A. Burgess

08/28/2023 -- 08/31/23: Rain out. Environmental maintenance. -A. Burgess

09/01/2023 Had to redo survey stake out and contouring due to multiple days of rain. -A. Burgess


09/02/2023 Completed restoration of stream, drainage feature, and 10ft. buffer. -A. Burgess

09/03/2023 Finished restoration of 50ft. buffer zone. -A. Burgess

Item #8 - Field modification made to cross sections A & B on right bank. Previous grade could not be re-established therefore, bank was restored at a 3:1 ratio for channel stability.

No impacts to biological conditions or unauthorized discharges occurred 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>Allen Burgess</b> <i>Print Name</i>	 <i>Signature</i>	<b>09/09/2023</b> <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:** Dewatering structure located off ROW with landowner permission.



**Photo Description:** Stream substrate stockpile



**Photo Description:** Dam & pump



**Photo Description:** Topsoil stockpiles