

Virginia Department of Environmental Quality
Appendix 4 - Fact Sheets for
Impaired (Category 4 or 5) Waters in 2022

James River Basin

Cause Group Code: **H26R-01-BAC** Ivy Creek

Cause Location: Ivy Creek from the headwaters downstream to the 5 mile upper limit of the PWS designation for the S. F. Rivanna Reservoir Intake. (Start Mile: 12.08 End Mile 2.57 Total Impaired Size: 9.51 Miles)

Cause City/County: Albemarle County

Use(s): Recreation

Causes(s)/VA Category: Escherichia coli (E. coli)/5A

Cause Description: This segment is impaired due to exceedances of the e-coli WQS at station: 2-IVC008.09 (4 exceedances of 12 samples for e-coli, no new data 2022). In 2022, there is insufficient E.coli data at 2-IVC005.19 to assess recreation use with one STV exceedance in multiple 90-day periods but insufficient data to analyze geomean (analysis based on the revised E.coli WQS). Initial Listing Date: 2014

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAV-H26R_IVC02A00 / Ivy Creek / Ivy Creek from its confluence with Little Ivy Creek downstream to the 5 mile upper limit of the PWS designation for the RWSA-SF Rivanna River Public Water Intake.	5A	Escherichia coli (E. coli)	2014	L	4.02
VAV-H26R_IVC03A00 / Ivy Creek / Ivy Creek from the headwaters downstream to its confluence with Little Ivy Creek.	5A	Escherichia coli (E. coli)	2014	L	5.49

Ivy Creek

Recreation

Escherichia coli (E. coli) - Total Impaired Size by Water Type:	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
			9.51

Sources: Agriculture; Non-Point Source; Wildlife Other than Waterfowl

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James River Basin

Cause Group Code: **H26R-02-PH** Ivy Creek

Cause Location: Ivy Creek from the headwaters downstream to its confluence with Little Ivy Creek. (Start Mile: 12.08 End Mile: 6.59 Total Impaired Size: 5.49 Miles)

Cause City/County: Albemarle County

Use(s): Aquatic Life

Causes(s)/VA Category: pH/5A

Cause Description: This segment is impaired due to excursions of the pH WQS at station: 2-IVC010.20 (2 excursions of 6 samples for pH in 2010, no new data in 2022). Initial Listing Date: 2006.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAV-H26R_IVC03A00 / Ivy Creek / Ivy Creek from the headwaters downstream to its confluence with Little Ivy Creek.	5A	pH	2006	L	5.49

Ivy Creek

Aquatic Life

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
pH - Total Impaired Size by Water Type:			5.49

Sources: Atmospheric Deposition - Acidity; Source Unknown

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James River Basin

Cause Group Code: **H26R-03-BEN** Ivy Creek

Cause Location: Ivy Creek from the headwaters downstream to its confluence with the South Fork Rivanna River Reservoir. (Start Mile: 12.08 End Mile: 0.00 Total Impaired Size: 12.08 Miles)

Cause City/County: Albemarle County

Use(s): Aquatic Life

Causes(s)/VA Category: Benthic Macroinvertebrates Bioassessments/5A

Cause Description: This segment is impaired due to exceedances of the General Standard for Benthics at stations: 2-IVC005.19 (Impaired for VSCI) and 2-IVC010.20 (Impaired for VSCI). Initial Listing Date: 2008. (This segment was lengthened in 2010)

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAV-H26R_IVC01A00 / Ivy Creek / Ivy Creek from the 5 mile upper limit of the PWS designation for the RWSA-SF Rivanna River Public Water Intake downstream to its confluence with the South Fork Rivanna River Reservoir.	5A	Benthic Macroinvertebrates Bioassessments	2008	H	2.57
VAV-H26R_IVC02A00 / Ivy Creek / Ivy Creek from its confluence with Little Ivy Creek downstream to the 5 mile upper limit of the PWS designation for the RWSA-SF Rivanna River Public Water Intake.	5A	Benthic Macroinvertebrates Bioassessments	2008	H	4.02
VAV-H26R_IVC03A00 / Ivy Creek / Ivy Creek from the headwaters downstream to its confluence with Little Ivy Creek.	5A	Benthic Macroinvertebrates Bioassessments	2010	H	5.49

Ivy Creek

Aquatic Life

Benthic Macroinvertebrates Bioassessments - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		12.08

Sources: Atmospheric Deposition - Acidity; Source Unknown