

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

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**James River Basin**

**Cause Group Code:** **H28R-01-BEN** Rivanna River/Moores Creek

Cause Location: Rivanna River from its confluence with the North/South Fork Rivanna downstream to its confluence with an unnamed tributary just below the RWSA-Glenmore STP. (Includes a .54 mile segment of Moores Creek). (Start Mile: 41.43/.54 End Mile: 30.02/0.00 Total Impaired Size: 11.41/.54 Miles)

Cause City/County: Albemarle County; Charlottesville

Use(s): Aquatic Life

Causes(s)/VA Category: Benthic Macroinvertebrates Bioassessments/4A

Cause Description: This segment is impaired due to exceedances of the General Standard for Benthics at stations: 2-RVN-RVN11-RCA (Impaired for VSCI), 2-RVN033.65 (Impaired for VSCI) and 2-RVN-RVN01-RCA (Impaired for VSCI). Initial Listing Dates: 1996 and 2006. This segment is included in the EPA approved Rivanna River benthic TMDL.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAV-H28R_MSC01B12 / Moores Creek / Moores Creek from the RSWA Moores Creek STP bridge downstream to its confluence with the Rivanna River.	4A	Benthic Macroinvertebrates Bioassessments	2008	L	0.54
VAV-H28R_RVN01A00 / Rivanna River / Rivanna River from its confluence with North/South Fork Rivanna downstream to its confluence with Moores Creek.	4A	Benthic Macroinvertebrates Bioassessments	1996	L	5.49
VAV-H29R_RVN04A00 / Rivanna River / Rivanna River from its confluence with Moores Creek downstream to its confluence with an unnamed tributary just below the RWSA-Glenmore STP.	4A	Benthic Macroinvertebrates Bioassessments	2006	L	5.92

Rivanna River/Moores Creek

**Aquatic Life**

Benthic Macroinvertebrates Bioassessments - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		11.95

Sources: Agriculture; Impervious Surface/Parking Lot Runoff; Municipal (Urbanized High Density Area); Streambank Erosion; Unrestricted Cattle Access; Urban Runoff/Storm Sewers

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**James River Basin**

**Cause Group Code:** **H28R-06-BAC** Rivanna River

Cause Location: Rivanna River from its confluence with the North/South Fork Rivanna downstream to its confluence with Moores Creek. (Start Mile: 41.43 End Mile: 35.94 Total Impaired Size: 5.49 Miles)

Cause City/County: Albemarle County; Charlottesville

Use(s): Recreation

Causes(s)/VA Category: Escherichia coli (E. coli)/4A

Cause Description: This segment is impaired due to exceedances of the e-coli bacteria WQS at station: 2-RVN037.54 (2 exceedances of 10 samples for e-coli in 2010, 0 of 2 in 2012, no since the 2012 cycle). 2022 cycle: Level III citizen monitoring samples were collected at RCA stations 2-RVN-RVN09-RCA and 2-RVN-RVN11-RCA. Both stations show impairment based on the revised E.coli WQS with two or more STV exceedances in the same 90-day period and a geomean exceedance in any 90-day period represented by 10+ samples. Initial Listing Date: 2006. This segment is included in the EPA approved Rivanna River bacteria TMDL. Federal TMDL ID # 35768.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAV-H28R_RVN01A00 / Rivanna River / Rivanna River from its confluence with North/South Fork Rivanna downstream to its confluence with Moores Creek.	4A	Escherichia coli (E. coli)	2006	L	5.49

Rivanna River

**Recreation**

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

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers; Wildlife Other than Waterfowl

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**James River Basin**

**Cause Group Code:** **H29R-04-BAC** Rivanna River

Cause Location: Rivanna River from its confluence with Moores Creek downstream to its confluence with an unnamed tributary just below the RWSA-Glenmore STP.

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 bacteria WQS found at DEQ station 2-RVN033.65 (revised WQS: two or more STV exceedances in the same 90-day period with less than 10 samples = impaired). Initial Listing Date: 2022.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAV-H29R_RVN04A00 / Rivanna River / Rivanna River from its confluence with Moores Creek downstream to its confluence with an unnamed tributary just below the RWSA-Glenmore STP.	5A	Escherichia coli (E. coli)	2022	L	5.92

Rivanna River

**Recreation**

Escherichia coli (E. coli) - Total Impaired Size by Water Type:	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
			5.92

Sources: Agriculture; Non-Point Source; On-site Treatment Systems (Septic Systems and Similar Decentralized Systems); Urban Runoff/Storm Sewers; Wildlife Other than Waterfowl