

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

James River Basin

Cause Group Code: H23R-03-BAC Mechums River

Cause Location: Mechums River from the headwaters downstream to its confluence with the Moormans River.
 (Start Mile: 26.36 End Mile: 0.00 Total Impaired Size: 26.36 Miles)

Cause City/County: Albemarle County; Nelson County

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-MCM005.12 (2022 cycle- analysis using the revised E.coli WQS, reveals two STV hits in the same 90-day period with less than 10 samples-impaired). and 2-MCM018.92 (2022 cycle- analysis using the revised E.coli WQS, reveals two STV hits in the same 90-day period with less than 10 samples -impaired). Initial Listing Date: 2006. The impairment size was lengthened in 2012 to add upstream assessment units. This segment is included in the EPA approved Mechums River bacteria TMDL.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAV-H23R_MCM01A00 / Mechums River / Mechums River from the pumping station below Lake Albemarle downstream to its confluence with the Moormans River.	4A	Escherichia coli (E. coli)	2006	L	7.27
VAV-H23R_MCM01B10 / Mechums River / Mechums River from its confluence with Lickinghole Creek downstream to the pumping station below Lake Albemarle.	4A	Escherichia coli (E. coli)	2006	L	3.92
VAV-H23R_MCM02A00 / Mechums River / Mechums River from its confluence with Stockton Creek downstream to its confluence with Lickinghole Creek.	4A	Escherichia coli (E. coli)	2012	L	2.07
VAV-H23R_MCM02B10 / Mechums River / Mechums River from the headwaters downstream to its confluence with Stockton Creek.	4A	Escherichia coli (E. coli)	2012	L	13.10

Mechums River

Recreation	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Escherichia coli (E. coli) - Total Impaired Size by Water Type:			26.36

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

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James River Basin

Cause Group Code: **H23R-03-BEN** **Mechums River**

Cause Location: Mechums River from the headwaters downstream to its confluence with Lickinghole Creek. (Start Mile: 26.36 End Mile: 11.19 Total Impaired Size: 15.17 Miles)

Cause City/County: Albemarle County; Nelson 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 station: 2-MCM018.92 (2022 cycle- remains impaired for VSCI). In 2022, additional data collected at RCA Level III station 2-MCM-MCM11-RCA remains impaired based on VSCI scores. Initial Listing Date: 2004.

Assessment Unit / Water Name / Location Desc.	Cause Category	Cause Name	Cycle First Listed	TMDL Dev. Priority	Water Size
VAV-H23R_MCM02A00 / Mechums River / Mechums River from its confluence with Stockton Creek downstream to its confluence with Lickinghole Creek.	5A	Benthic Macroinvertebrates Bioassessments	2004	H	2.07
VAV-H23R_MCM02B10 / Mechums River / Mechums River from the headwaters downstream to its confluence with Stockton Creek.	5A	Benthic Macroinvertebrates Bioassessments	2004	H	13.10

Mechums River

Aquatic Life

Benthic Macroinvertebrates Bioassessments - Total Impaired Size by Water Type:

Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
		15.17

Sources: Source Unknown