

Virginia Department of Environmental Quality
Appendix 1b - 2024 Impaired Waters - 303(d) List
Supplemental List of New Category 5 Impairments in 2024

Potomac and Shenandoah River Basins

Cause Group - Water Name							
Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
A09R-09-BAC - Russell Branch							
Recreation	Escherichia coli (E. coli)	5A			2.1	2024	L
A11R-11-BEN - Piney Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.94	2024	L
A12E-01-HEPOXID - Four Mile Run							
Fish Consumption	Heptachlor epoxide in Fish Tissue	5A	0.05			2024	L
A13R-05-BEN - Cameron Run/Hunting Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.91	2024	L
A14E-03-BAC - Potomac River							
Recreation	Escherichia coli (E. coli)	5A	0.321			2024	L
A19R-01-BEN - Broad Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.47	2024	L
A29E-02-PH - Mallows Marsh							
Aquatic Life	pH	5C	0.002			2024	L
A31E-12-EBTOX - Mattox Creek							
Aquatic Life	Sediment Bioassay	5A	0.366			2024	L
A31E-13-EBTOX - Mattox Creek							
Aquatic Life	Sediment Bioassay	5A	0.54			2024	L
A32E-38-EBTOX - Nomini Creek							
Aquatic Life	Sediment Bioassay	5A	0.207			2024	L
A33E-21-EBTOX - Yeocomico River							
Aquatic Life	Sediment Bioassay	5A	1.878			2024	L
A34E-41-EBTOX - Little Wicomico River							
Aquatic Life	Sediment Bioassay	5A	0.152			2024	L

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James River Basin

Cause Group - Water Name		Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
G01E-02-EBEN - James River		Aquatic Life	Estuarine Bioassessments	5A	1.988		2024	L
G02R-12-DO - Roundabout Creek		Aquatic Life	Dissolved Oxygen	5C		2.05	2024	L
G02R-12-PH - Roundabout Creek		Aquatic Life	pH	5C		2.05	2024	L
G02R-13-DO - Turkey Island Creek		Aquatic Life	Dissolved Oxygen	5C		1.82	2024	L
G08E-08-PCBFT - XAC - Chickahominy River, UT		Fish Consumption	PCBs in Fish Tissue	5A	0.017		2024	L
G08E-09-PCBFT - Gordon Creek		Fish Consumption	PCBs in Fish Tissue	5A	0.33		2024	L
G08E-10-PCBFT - Morris Creek		Fish Consumption	PCBs in Fish Tissue	5A	0.394		2024	L
G10E-05-EBEN - James River (Oligohaline)		Aquatic Life	Estuarine Bioassessments	5A	0.813		2024	L
G10E-09-PCBFT - Grays Creek		Fish Consumption	PCBs in Fish Tissue	5A	0.419		2024	L
G10E-10-BAC - James River Mainstem (Oligohaline)		Recreation	Enterococcus	5A	17.843		2024	L
G11E-01-BEN - Jones Creek		Aquatic Life	Estuarine Bioassessments	5A	0.229		2024	L
G11E-01-SF - Chuckatuck Creek System		Shellfishing	Fecal Coliform	5A	0.304		2024	L
G11E-02-EBEN - Chuckatuck Creek		Aquatic Life	Estuarine Bioassessments	5A	0.304		2024	L
G11E-05-EBEN - Chesapeake Bay segment JMSMHa		Aquatic Life	Estuarine Bioassessments	5A	0.358		2024	L
G11E-10-PCBFT - Warwick River		Fish Consumption	PCBs in Fish Tissue	5A	0.075		2024	L
G11E-11-PCBFT - Lawnes Creek		Fish Consumption	PCBs in Fish Tissue	5A	0.291		2024	L
G13E-08-EBEN - Nansemond River		Aquatic Life	Estuarine Bioassessments	5A	2.833		2024	L
G14L-02-DO - Wester Branch Reservoir		Aquatic Life	Dissolved Oxygen	5A	1209.67		2024	L
G14R-02-DO - Carbell Swamp - Lower		Aquatic Life	Dissolved Oxygen	5A		2.95	2024	L
G15E-01-02-EBEN - Elizabeth River Southern Branch, Paradise, Saint Julian, New Mill and Deep Creeks and unsegmented estuaries in SBE		Aquatic Life	Estuarine Bioassessments	5A	1.935		2024	L
G15E-01-03-EBEN - Hampton River		Aquatic Life	Estuarine Bioassessments	5A	0.547		2024	L
G15E-06-EBEN - Lafayette River		Aquatic Life	Estuarine Bioassessments	5A	2.147		2024	L
G15E-09-EBEN - Southern Branch, Elizabeth River - Middle		Aquatic Life	Estuarine Bioassessments	5A	0.545		2024	L
G15E-12-EBEN - Chesapeake Bay segment SBEMHa		Aquatic Life	Estuarine Bioassessments	5A	0.523		2024	L
H02L-01-PH - Pedlar Lake		Aquatic Life	pH	5A	117.75		2024	L
H02R-04-BEN - Horsely Creek		Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A		6.24	2024	L
H03R-04-PCB - James River, Slate River		Fish Consumption	Polychlorinated biphenyls (PCBs)	5A		18.25	2024	L
		Public Water Supply	Polychlorinated biphenyls (PCBs)	5A		10.54	2024	L
		Wildlife	Polychlorinated biphenyls (PCBs)	5A		7.71	2024	L
H05R-05-BEN - Stonewall Creek		Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A		9.4	2024	L

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James River Basin continued...

Cause Group - Water Name	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
H17L-01-CHLA - Totier Creek Reservoir	Aquatic Life	Chlorophyll-a		37.23		2024	L
H17L-01-DO - Totier Creek Reservoir	Aquatic Life	Dissolved Oxygen		37.23		2024	L
H23R-05-BEN - Stockton Creek	Aquatic Life	Benthic Macroinvertebrates Bioassessments			12.07	2024	L
H28R-08-BEN - Biscuit Run	Aquatic Life	Benthic Macroinvertebrates Bioassessments			2.28	2024	L
H29R-03-BEN - Buck Island Creek	Aquatic Life	Benthic Macroinvertebrates Bioassessments			2.66	2024	H
H29R-05-BEN - Houchins Creek	Aquatic Life	Benthic Macroinvertebrates Bioassessments			11.04	2024	L
H32L-01-PH - Fluvanna Ruritan Lake	Aquatic Life	pH		51.13		2024	L
H38R-09-HG - James River	Fish Consumption	Mercury in Fish Tissue			3.75	2024	L
H39R-35-HG - James River	Fish Consumption	Mercury in Fish Tissue			9.44	2024	L
I18R-04-BEN - Big Creek	Aquatic Life	Benthic Macroinvertebrates Bioassessments			6.11	2024	L
I21R-03-PH - Dicks Creek	Aquatic Life	pH			4.02	2024	L
I30R-04-BAC - Calfpasture River	Recreation	Escherichia coli (E. coli)			4.54	2024	L
I32R-04-BAC - Smith Creek	Recreation	Escherichia coli (E. coli)			5.77	2024	L
J11L-02-HAB - Lake Nottoway (Lee Lake)	Recreation	Harmful Algal Blooms		161.07		2024	L
J12R-02-BEN - Winterpock Creek	Aquatic Life	Benthic Macroinvertebrates Bioassessments			8.43	2024	L

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Rappahannock River Basin

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
E02R-02-BEN - Tanner Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.79	2024	L
E03R-02-BEN - Kilbys Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.36	2024	L
E09L-01-CHLA - Mountain Run Reservoir							
Aquatic Life	Chlorophyll-a	5A		72.76		2024	L
E09L-01-DO - Lake Pelham							
Aquatic Life	Dissolved Oxygen	5C		249.7		2024	L
E09L-01-TP - Lake Pelham							
Aquatic Life	Phosphorus, Total	5A		249.7		2024	L
E09L-02-CHLA - Lake Pelham							
Aquatic Life	Chlorophyll-a	5A		249.7		2024	L
E09L-02-DO - Mountain Run Reservoir							
Aquatic Life	Dissolved Oxygen	5C		72.76		2024	L
E10R-02-BEN - Unnamed tributary to Pine Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.97	2024	L
E12R-02-BEN - Buckner Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.21	2024	L
E18R-01-BEN - Russell Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.73	2024	L
E20E-03-PCB - Rappahannock River							
Aquatic Life	Polychlorinated biphenyls (PCBs)	5A	0.579			2024	L
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A	0.579			2024	L
Wildlife	Polychlorinated biphenyls (PCBs)	5A	0.579			2024	L
E20R-06-PH - Unnamed tributary to Deep Run							
Aquatic Life	pH	5C			2.25	2024	L
E21R-04-PH - Muddy Creek							
Aquatic Life	pH	5C			1.37	2024	L
E22E-02-EBEN - Rappahannock River							
Aquatic Life	Estuarine Bioassessments	5A	1.249			2024	L
E25E-35-EBTOX - Parrotts Creek							
Aquatic Life	Sediment Bioassay	5A	0.153			2024	L
E26E-63-EBTOX - Western Branch Corrotoman River							
Aquatic Life	Sediment Bioassay	5A	0.414			2024	L
E26E-64-EBTOX - Eastern Branch Corrotoman River							
Aquatic Life	Sediment Bioassay	5A	0.41			2024	L

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Roanoke and Yadkin River Basins

Cause Group - Water Name							
Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
L24R-03-BEN - North Otter Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.05	2024	L
L35R-02-BEN - Mollys Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			15.6	2024	H
L42L-06-DO - Townes Reservoir							
Aquatic Life	Dissolved Oxygen	5A		28.13		2024	L
L57R-07-FE - Dan River							
Public Water Supply	Iron	5A			2.52	2024	L
L58R-01-BEN - Sandy River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.88	2024	L
L62R-06-BEN - Powells Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.63	2024	L
L64R-07-BEN - Perrin Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.23	2024	L
L64R-08-BEN - Upper Stokes Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.59	2024	L
L75L-03-TP - Kerr Reservoir							
Aquatic Life	Phosphorus, Total	5A		2440.31		2024	L
L77R-04-BEN - Popes Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.65	2024	L

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Chowan River and Dismal Swamp Basins

Cause Group - Water Name		Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Impaired Use	Cause						
K03R-09-BEN - Kettlesticks Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.10	2024	L
K19R-05-DO - UT to Nottoway River							
Aquatic Life	Dissolved Oxygen	5A			2.88	2024	L
K28R-01-DO - Mill Swamp							
Aquatic Life	Dissolved Oxygen	5C			10.49	2024	L

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Tennessee and Big Sandy River Basins

Cause Group - Water Name		Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Impaired Use	Cause						
O11L-03-HG - Laurel Bed Lake							
Fish Consumption	Mercury in Fish Tissue	5A		359.43		2024	L
O13R-02-BEN - North Fork Holston River Tributaries							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.79	2024	L
P13R-01-BEN - Unnamed Tributary to Clinch River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.01	2024	L
Q13L-02-DO - North Fork Pound Reservoir							
Aquatic Life	Dissolved Oxygen	5C		115.61		2024	L
Q13R-04-BEN - Pound River Tributaries							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.23	2024	L

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Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group - Water Name	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
AO05-01-BAC - ASSATEAGUE ISLAND, TOM'S COVE SOUTH							
Recreation	Enterococcus	5A	0.146			2024	L
AO25-01-BAC - Atlantic Ocean Beaches							
Recreation	Enterococcus	5A	2.527			2024	L
C01E-72-EBTOX - Great Wicomico River							
Aquatic Life	Sediment Bioassay	5A	0.557			2024	L
C04E-66-EBTOX - North River							
Aquatic Life	Sediment Bioassay	5A	1.681			2024	L
C04E-68-EBTOX - Queens Creek / Queens Creek, UT							
Aquatic Life	Sediment Bioassay	5A	0.11			2024	L
C04E-70-EBTOX - Edwards Creek							
Aquatic Life	Sediment Bioassay	5A	0.056			2024	L
C07E-02-03-BAC - Fort Monroe Beaches							
Recreation	Enterococcus	5A	0.333			2024	L
C07E-23-SF - Chisman Creek - Upper & Goose Cr							
Shellfishing	Fecal Coliform	5A	0.029			2024	L
C08E-20-BAC - North Community Beach							
Recreation	Enterococcus	5A	0.044			2024	L
C08E-24-BAC - Ches Bay Beaches							
Recreation	Enterococcus	5A	0.612			2024	L
C08E-26-BAC - Shore Drive Beaches - LESNER BRIDGE EAST & FIRST LANDING STATE PARK							
Recreation	Enterococcus	5A	0.138			2024	L
C11E-02-EBEN - Onancock Creek Mainstem							
Aquatic Life	Estuarine Bioassessments	5A	0.129			2024	L
C11E-20-SF - Chesconessex Creek - Pompcro Creek							
Shellfishing	Fecal Coliform	5A	0.043			2024	L
CB5MH-EBEN-BAY - Chesapeake Bay - VA portion of CBP Segment CB5MH							
Aquatic Life	Estuarine Bioassessments	5A	197.325			2024	L
D01E-01-BAC - Powells Bay							
Recreation	Enterococcus	5A	0.596			2024	L
D03E-01-BAC - Gargathy Creek - Upper & Lower							
Recreation	Enterococcus	5A	0.13			2024	L
D03R-01-DO - Rattrap Creek							
Aquatic Life	Dissolved Oxygen	5A			3.13	2024	L
D04E-12-EBEN - Parting Creek							
Aquatic Life	Estuarine Bioassessments	5A	0.385			2024	L
D04E-13-BAC - Quinby Harbor-Upshur Bay							
Recreation	Enterococcus	5A	3.389			2024	L
R01E-02-SF - Chesapeake Bay - Southern portion of CBP Segment CB7PH							
Shellfishing	Fecal Coliform	5B	0.054			2024	L

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York River Basin

Cause Group - Water Name		Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Impaired Use	Cause						
F03R-06-BEN - Mill Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.25	2024	L
F07R-03-BEN - Pamunkey Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.49	2024	L
F07R-13-BAC - Beverly Run							
Recreation	Escherichia coli (E. coli)	5A			2.46	2024	L
F07R-14-BAC - Foremost Run							
Recreation	Escherichia coli (E. coli)	5A			5.5	2024	L
F07R-15-BAC - Pleasant Run							
Recreation	Escherichia coli (E. coli)	5A			4.44	2024	L
F08R-01-TL - Contrary Creek							
Fish Consumption	Thallium	5A			5.52	2024	L
F26E-31-SF - Bland Creek							
Shellfishing	Fecal Coliform	5A	0.051			2024	L
F26L-01-DO - Waller Mill Reservoir							
Aquatic Life	Dissolved Oxygen	5A		287.71		2024	L
F27E-06-BAC - York River - Yorktown Beach							
Recreation	Enterococcus	5A	0.024			2024	M

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New River Basin

Cause Group - Water Name	Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
N02R-02-HG - New River								
	Fish Consumption	Mercury in Fish Tissue	5A			2.15	2024	L
N08R-01-BAC - New River, Mill Creek, and Pine Run								
	Recreation	Escherichia coli (E. coli)	5A			6.51	2024	L
N08R-03-BEN - Mill Creek								
	Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.38	2024	L
N16L-03-HGFT - Claytor Lake near Claytor Dam and New River below Claytor Dam								
	Fish Consumption	Mercury in Fish Tissue	5A		1196.92	6.48	2024	L
N18R-04-BEN - Walnut Branch								
	Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.85	2024	L
N21R-09-BEN - UT Eckels Branch and tributaries								
	Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.52	2024	L
N26R-04-PH - Nobusiness Creek								
	Aquatic Life	pH	5A			5.46	2024	L
N33R-01-BAC - Dry Fork and Laurel Creek								
	Recreation	Escherichia coli (E. coli)	5A			1.64	2024	L

VA DEQ is transitioning from Fecal Coliform bacteria to Escherichia coli (fresh water) and Enterococci (salt water) for assessing the Recreation Use.

TMDL Development Priorities are: H (High) = DEQ will begin addressing high priorities with plan development during the 2022 - 2024 time period; L (Low) = waters that are not prioritized to be addressed with plan development during the 2022 - 2024 time period. Note that M (Medium) remains a valid priority level that may be used in the future.

Multiple listings are due to the same impairments for different uses and/or different initial listing dates for adjacent waters.