

Virginia Department of Environmental Quality
Appendix 1a - 2024 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

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	
A01R-01-BEN - Dutchman Creek								
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.93	2018	L	
A02R-01-BEN - Catoctin Creek								
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.52	2020	L	
A02R-03-BEN - South Fork Catoctin Creek								
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.33	2008	L	
A02R-05-BEN - Milltown Creek								
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.9	2022	L	
A03R-02-BAC - Clarks Run								
Recreation	Escherichia coli (E. coli)	5A			5.46	2008	L	
A03R-03-BEN - Big Spring Creek								
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.49	2018	L	
A05R-01-BEN - Wancopin Creek								
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.44	2008	L	
A05R-02-BEN - Jeffries Branch								
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.41	2012	L	
A05R-03-BEN - Goose Creek								
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			10.57	2018	L	
A06R-01-BEN - North Fork Goose Creek								
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.7	2010	L	
A06R-01-PH - Jacks Run								
Aquatic Life	pH	5A			3.18	2020	L	
A06R-02-BEN - Jacks Run								
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.18	2018	L	
A07R-02-BEN - North Fork Beaverdam Creek								
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.77	2018	L	
A08R-01-PCB - Broad Run, Difficult Run, Goose Creek								
Fish Consumption	PCBs in Fish Tissue	5A		39.64	15.39	2006	L	
A08R-04-BEN - Tuscarora Creek								
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.9	2014	L	
A08R-05-BEN - Dry Mill Branch								
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.97	2016	L	
A08R-06-BEN - Goose Creek								
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.54	2018	L	
A08R-07-BEN - Cattail Branch								
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.41	2018	L	
A08R-08-BEN - Sycolin Creek								
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.99	2018	L	
A08R-09-BEN - Howsers Branch								
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.11	2020	L	
A09R-01-BAC - Unnamed tributary to the Potomac River								
Recreation	Escherichia coli (E. coli)	5A			1.74	2010	L	
A09R-01-BEN - Broad Run								
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.94	2006	H	
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.51	2008	H	
A09R-01-HG - Broad Run								
Fish Consumption	Mercury in Fish Tissue	5A			2.94	2010	L	
A09R-02-BAC - Broad Run								
Recreation	Escherichia coli (E. coli)	5A			3.24	2010	H	
Recreation	Escherichia coli (E. coli)	5A			2.94	2014	H	
A09R-02-BEN - Broad Run								
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.7	2008	H	
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.76	2018	H	
A09R-03-BAC - Broad Run								
Recreation	Escherichia coli (E. coli)	5A			3.7	2012	H	
A09R-03-BEN - Horsepen Run								
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.18	2016	H	
A09R-04-BAC - South Fork Broad Run								

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Recreation	Escherichia coli (E. coli)	5A			5.28	2014	H
A09R-04-BEN - South Fork Broad Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.28	2014	H
A09R-05-BAC - Beaverdam Run							
Recreation	Escherichia coli (E. coli)	5A			3.86	2014	H
A09R-05-BEN - Beaverdam Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.86	2016	H
A09R-06-BAC - Indian Creek							
Recreation	Escherichia coli (E. coli)	5A			3.48	2014	H
A09R-06-BEN - Frying Pan Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.42	2018	H
A09R-07-BAC - Horsepen Run							
Recreation	Escherichia coli (E. coli)	5A			8.18	2016	H
A09R-07-BEN - Russell Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.1	2020	H
A09R-08-BAC - Frying Pan Branch							
Recreation	Escherichia coli (E. coli)	5A			1.42	2018	H
A09R-09-BAC - Russell Branch							
Recreation	Escherichia coli (E. coli)	5A			2.1	2024	L
A10R-01-BEN - Sugarland Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.72	2012	L
A11R-01-HEPOXID - Difficult Run							
Fish Consumption	Heptachlor epoxide in Fish Tissue	5A			3.18	2006	L
A11R-02-BEN - Captain Hickory Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.28	2008	L
A11R-03-BEN - Difficult Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.38	2008	L
A11R-04-BEN - Colvin Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.1	2010	L
A11R-05-BEN - Snakeden Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.98	2010	L
A11R-06-BEN - Little Difficult Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.76	2010	L
A11R-07-BEN - Old Courthouse Spring Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.12	2010	L
A11R-08-BAC - Nichols Run							
Recreation	Escherichia coli (E. coli)	5A			4.57	2012	L
A11R-08-BEN - Turkey Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.35	2012	L
A11R-09-BEN - Dead Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.83	2012	L
A11R-10-BEN - Wolftrap Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.73	2018	L
A11R-11-BEN - Piney Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.94	2024	L
A12E-01-CDANE - Four Mile Run							
Fish Consumption	Chlordane in Fish Tissue	5A	0.05			2010	L
A12E-01-HEPOXID - Four Mile Run							
Fish Consumption	Heptachlor epoxide in Fish Tissue	5A	0.05			2024	L
A12E-02-BAC - Potomac River							
Recreation	Escherichia coli (E. coli)	5A	0.018			2024	L
A12R-01-BEN - Pimmit Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.77	2012	L
A12R-02-BEN - Four Mile Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.96	2018	L
A12R-03-CDANE - Pimmit Run							
Fish Consumption	Chlordane in Fish Tissue	5A			1.65	2006	L
A12R-03-HEPOXID - Pimmit Run							
Fish Consumption	Heptachlor epoxide in Fish Tissue	5A			1.65	2006	L

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A13R-01-PCB - Indian Run							
Fish Consumption	PCBs in Fish Tissue	5A			3.18	2006	L
A13R-03-BEN - Holmes Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.09	2004	L
A13R-04-BEN - Tripps Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.7	2004	L
A13R-05-BEN - Cameron Run/Hunting Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.91	2024	L
A14E-01-BAC - Little Hunting Creek							
Recreation	Escherichia coli (E. coli)	5A	0.25			2006	L
A14E-03-BAC - Potomac River							
Recreation	Escherichia coli (E. coli)	5A	0.321			2024	L
A14R-01-BAC - Paul Springs Branch							
Recreation	Escherichia coli (E. coli)	5A			3.39	2010	L
A14R-01-BEN - Paul Springs Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.39	2010	L
A14R-02-BAC - Dogue Creek							
Recreation	Escherichia coli (E. coli)	5A			1.41	2014	L
A15L-01-HG - Lake Accotink							
Fish Consumption	Mercury in Fish Tissue	5A		73.94		2010	L
A15L-01-PCB - Lake Accotink							
Fish Consumption	PCBs in Fish Tissue	5A		73.94		2010	L
A15R-01-PCB - Accotink Creek							
Fish Consumption	PCBs in Fish Tissue	5A			10.11	2010	L
A16L-01-DO - Burke Lake							
Aquatic Life	Dissolved Oxygen	5A		208.11		2022	L
A16R-01-BAC - Pohick Creek							
Recreation	Escherichia coli (E. coli)	5A			3.78	2006	L
A16R-01-BEN - Pohick Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.62	2014	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.41	2022	L
A16R-02-BAC - Pohick Creek							
Recreation	Escherichia coli (E. coli)	5A			1.78	2006	L
Recreation	Escherichia coli (E. coli)	5A			5.41	2012	L
Recreation	Escherichia coli (E. coli)	5A			2.62	2016	L
A16R-03-BAC - South Run							
Recreation	Escherichia coli (E. coli)	5A			4.16	2016	L
A16R-04-BAC - Middle Run							
Recreation	Escherichia coli (E. coli)	5A			2.85	2016	L
A17R-01-BEN - Cedar Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3	2020	L
A17R-01-DO - Owl Run							
Aquatic Life	Dissolved Oxygen	5A			5.86	2020	L
A17R-02-BEN - Licking Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.02	2024	L
A18R-02-BEN - Lucky Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.49	2008	L
A19R-01-BEN - Broad Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.47	2024	L
A21R-01-BEN - Catharpin Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.81	2012	H
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.46	2022	H
A21R-01-PCB - Bull Run							
Fish Consumption	PCBs in Fish Tissue	5A			5.83	2004	L
Fish Consumption	PCBs in Fish Tissue	5A			5.74	2006	L
A21R-02-BEN - Bull Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.66	2016	L
A21R-03-BEN - Unnamed Tributary to Bull Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.73	2018	L
A21R-04-BEN - Little Bull Run							

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Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.13	2018	L
A22R-01-BEN - Flatlick Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.23	2008	L
A22R-01-PCB - Cub Run							
Fish Consumption	PCBs in Fish Tissue	5A			6.9	2018	L
A22R-02-BEN - Big Rocky Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.35	2010	L
A22R-03-BEN - Cub Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.9	2012	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.34	2016	L
A22R-04-BEN - Elklick Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.53	2014	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.34	2020	L
A22R-05-BEN - Sand Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.55	2018	H
A23R-03-BEN - Little Rocky Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.23	2010	L
A24L-01-PCB - Occoquan Reservoir							
Fish Consumption	PCBs in Fish Tissue	5A		63.12		2006	L
A24L-02-PCB - Occoquan Reservoir							
Fish Consumption	PCBs in Fish Tissue	5A		1250.04		2018	L
A24R-01-BAC - Wolf Run							
Recreation	Escherichia coli (E. coli)	5A			2.5	2006	L
A24R-02-BAC - Sandy Run							
Recreation	Escherichia coli (E. coli)	5A			6.09	2008	L
A24R-02-BEN - Hooes Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.99	2020	L
A24R-03-BAC - Hooes Run							
Recreation	Escherichia coli (E. coli)	5A			0.99	2012	L
A25E-02-BAC - Neabsco Creek							
Recreation	Escherichia coli (E. coli)	5A	0.545			2004	L
A25E-03-BAC - Occoquan River							
Recreation	Escherichia coli (E. coli)	5A	0.086			2014	L
A25E-04-BAC - Marumsc Creek							
Recreation	Escherichia coli (E. coli)	5A	0.025			2012	L
A25E-04-EBEN - Occoquan River							
Aquatic Life	Estuarine Bioassessments	5A	0.286			2006	L
A25R-01-BEN - Giles Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.48	2012	L
A25R-02-BAC - Mills Branch							
Recreation	Escherichia coli (E. coli)	5A			1.72	2014	L
A25R-03-BAC - Giles Run							
Recreation	Escherichia coli (E. coli)	5A			6.48	2014	L
A25R-04-BAC - Marumsc Creek							
Recreation	Escherichia coli (E. coli)	5A			0.54	2014	L
A25R-05-BAC - Unnamed Tributary to Occoquan River							
Recreation	Escherichia coli (E. coli)	5A			1.11	2016	L
A25R-06-BAC - Cow Branch							
Recreation	Escherichia coli (E. coli)	5A			3.99	2020	L
A26L-01-HG - Lake Montclair							
Fish Consumption	Mercury in Fish Tissue	5A		103.54		2010	L
A26R-01-CU - Quantico Creek							
Aquatic Life	Copper	5A			1.47	2020	L
Wildlife	Copper	5A			1.47	2020	L
A26R-08-BAC - South Branch Chopawamsic Creek							
Recreation	Escherichia coli (E. coli)	5A			4.66	2018	L
A27R-01-BAC - Aquia Creek							
Recreation	Escherichia coli (E. coli)	5A			6.36	2006	L
A27R-01-DO - Unnamed tributary to Aquia Creek							
Aquatic Life	Dissolved Oxygen	5A			2.25	2010	L

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A27R-02-BAC - Aquia Creek							
Recreation	Escherichia coli (E. coli)	5A			8.82	2012	L
A28E-01-HAB - Aquia Creek							
Recreation	Harmful Algal Blooms	5A	0.041			2022	L
A29E-01-PH - Potomac Creek							
Aquatic Life	pH	5A	0.587			2014	L
A29E-02-BAC - Fairview Beach (Potomac River)							
Recreation	Enterococcus	5R	0.005			2006	L
A29E-02-PH - Mallows Marsh							
Aquatic Life	pH	5C	0.002			2024	L
A29E-03-BAC - Chotank Creek							
Recreation	Enterococcus	5A	0.054			2012	L
A29L-01-PH - Curtis Lake							
Aquatic Life	pH	5C		86.14		2022	L
A29R-01-BEN - Unnamed tributary to Long Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.3	2016	L
A29R-02-BEN - Potomac Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.6	2020	L
A29R-05-BAC - Dirt Bridge Run							
Recreation	Escherichia coli (E. coli)	5A			1.82	2018	L
A30E-01-EBEN - Upper Machodoc Creek							
Aquatic Life	Estuarine Bioassessments	5A	0.465			2022	L
A30R-01-DO - Pepper Mill Creek							
Aquatic Life	Dissolved Oxygen	5C			8.67	2010	L
A30R-01-PH - Pepper Mill Creek							
Aquatic Life	pH	5C			8.67	2010	L
A30R-02-DO - Gambo Creek							
Aquatic Life	Dissolved Oxygen	5C			0.95	2016	L
A30R-02-PH - Gambo Creek							
Aquatic Life	pH	5C			0.95	2016	L
A31E-11-BAC - Bridges Creek							
Recreation	Enterococcus	5A	0.182			2012	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
A31R-01-BAC - Pine Hill Creek Watershed							
Recreation	Escherichia coli (E. coli)	5A			34.92	2014	L
A32E-09-EBTOX - Lower Machodoc Creek							
Aquatic Life	Sediment Bioassay	5A	0.687			2016	L
A32E-20-PCB - Nomini Creek							
Fish Consumption	PCBs in Fish Tissue	5A	4.833			2020	L
A32E-25-EBTOX - Currioman Bay							
Aquatic Life	Sediment Bioassay	5A	1.271			2022	L
A32E-38-EBTOX - Nomini Creek							
Aquatic Life	Sediment Bioassay	5A	0.207			2024	L
A32R-01-DO - Thompson Branch							
Aquatic Life	Dissolved Oxygen	5C			1.6	2006	L
A32R-01-PH - Thompson Branch							
Aquatic Life	pH	5C			1.6	2006	L
A32R-03-PH - XLK - Nomini Creek, UT							
Aquatic Life	pH	5C			1.45	2010	L
A32R-05-PH - Tavern Run							
Aquatic Life	pH	5C			3.28	2012	L
A32R-06-PH - Nontidal Nomini Creek Tributaries							
Aquatic Life	pH	5C			16.39	2014	L
A32R-07-DO - Marshall Creek							
Aquatic Life	Dissolved Oxygen	5C			2.88	2014	L
A32R-08-DO - Barnes Creek							

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Aquatic Life	Dissolved Oxygen	5C			1.95	2014	L
A32R-08-PH - Barnes Creek							
Aquatic Life	pH	5C			1.95	2014	L
A32R-09-DO - Mount Pleasant Creek							
Aquatic Life	Dissolved Oxygen	5C			2.27	2014	L
A32R-09-PH - Mount Pleasant Creek							
Aquatic Life	pH	5C			2.27	2014	L
A33E-04-BAC - Lodge Creek							
Recreation	Enterococcus	5A	0.301			2006	L
A33E-08-EBTOX - West Yeocomico River							
Aquatic Life	Sediment Bioassay	5A	0.338			2018	L
Aquatic Life	Sediment Bioassay	5A	0.055			2020	L
A33E-11-PCB - Yeocomico River							
Fish Consumption	PCBs in Fish Tissue	5A	1.878			2020	L
A33E-20-SF - Shannon Branch							
Shellfishing	Fecal Coliform	5B	0.086			2024	L
A33E-21-EBTOX - Yeocomico River							
Aquatic Life	Sediment Bioassay	5A	1.878			2024	L
A33L-01-DO - Hampton Hall, Gardy Millpond							
Aquatic Life	Dissolved Oxygen	5C		45.86		2016	L
A33R-02-BAC - Lodge Creek							
Recreation	Escherichia coli (E. coli)	5A			3.45	2014	L
A33R-02-DO - Lodge Creek							
Aquatic Life	Dissolved Oxygen	5C			3.45	2010	L
A33R-03-DO - Gardner Creek							
Aquatic Life	Dissolved Oxygen	5C			1.4	2010	L
A33R-03-PH - Gardner Creek							
Aquatic Life	pH	5C			1.4	2010	L
A33R-04-PH - XMB - Hampton Hall Creek, UT							
Aquatic Life	pH	5C			3.48	2014	L
A33R-05-DO - XLZ - Hampton Hall Creek, UT							
Aquatic Life	Dissolved Oxygen	5C			3.13	2018	L
A33R-05-PH - XLZ - Hampton Hall Creek, UT							
Aquatic Life	pH	5C			3.13	2014	L
A34E-06-EBTOX - Coan River							
Aquatic Life	Sediment Bioassay	5A	0.532			2020	L
A34E-38-EBTOX - Bridge Creek							
Aquatic Life	Sediment Bioassay	5A	0.108			2022	L
A34E-41-EBTOX - Little Wicomico River							
Aquatic Life	Sediment Bioassay	5A	0.152			2024	L
A34R-02-PH - Little Wicomico River							
Aquatic Life	pH	5C			2.34	2006	L
A34R-03-DO - XLL - Coan Mill Stream, UT							
Aquatic Life	Dissolved Oxygen	5C			2.1	2010	L
B02R-01-BAC - West Strait Creek							
Recreation	Escherichia coli (E. coli)	5A			0.88	2010	L
B02R-05-BAC - South Branch Potomac River							
Recreation	Escherichia coli (E. coli)	5A			10.38	2020	L
B02R-06-BAC - Strait Creek							
Recreation	Escherichia coli (E. coli)	5A			2.78	2006	L
B03R-03-BAC - South Fork South Branch Potomac River							
Recreation	Escherichia coli (E. coli)	5A			2.71	2012	L
B04R-01-BAC - Middle Fork Sleepy Creek							
Recreation	Escherichia coli (E. coli)	5A			2.93	2020	L
B04R-02-BAC - Sleepy Creek							
Recreation	Escherichia coli (E. coli)	5A			7.73	2016	L
B04R-03-BAC - Middle Fork Sleepy Creek X-trib							
Recreation	Escherichia coli (E. coli)	5A			2.55	2014	L
B05R-01-BAC - Back Creek							

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Appendix 1a - 2024 Impaired Waters - 303(d) List

Category 5 - Waters Needing Total Maximum Daily Load Study

Potomac and Shenandoah River Basins continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Recreation	Escherichia coli (E. coli)	5A			13.41	2010	L
B05R-01-TEMP - Back Creek							
Aquatic Life	Temperature	5A			4.2	2022	L
B05R-02-BAC - Little Isaacs Creek							
Recreation	Escherichia coli (E. coli)	5A			9.93	2008	L
B05R-03-BAC - Isaacs Creek							
Recreation	Escherichia coli (E. coli)	5A			2.84	2016	L
B05R-03-BEN - Issacs Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.45	2022	L
B07R-01-BAC - Back Creek							
Recreation	Escherichia coli (E. coli)	5A			4.92	2018	L
B08R-01-BEN - Opequon Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			23.22	2010	L
B11R-02-BEN - Middle River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.37	2022	L
B11R-03-BEN - Jennings Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.11	2022	L
B16L-01-TEMP - Elkhorn Lake							
Aquatic Life	Temperature	5A		52.67		2010	L
B16L-02-TEMP - Staunton Dam Lake							
Aquatic Life	Temperature	5A		20.71		2022	L
B16R-01-PH - North River							
Aquatic Life	pH	5A			4.46	2002	L
B16R-02-PH - North River							
Aquatic Life	pH	5A			10.25	2022	L
B18R-01-BEN - Wolf Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.19	2002	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.12	2004	L
B18R-01-PH - Wolf Run							
Aquatic Life	pH	5A			3.31	2006	L
B18R-06-PH - Rocky Run							
Aquatic Life	pH	5A			1.94	2006	L
B18R-07-PH - Union Springs Run							
Aquatic Life	pH	5A			3.74	2006	L
B20R-01-PH - Dry River							
Aquatic Life	pH	5A			9.54	2002	L
Aquatic Life	pH	5A			0.64	2008	L
B30R-02-PH - Loves Run							
Aquatic Life	pH	5A			5.64	2006	L
B30R-03-BEN - Pine Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			20.39	2014	L
B31L-01-PH - Coles Run Reservoir							
Aquatic Life	pH	5A		10.85		2008	L
B31R-01-BEN - Back Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.02	2002	L
B31R-02-BEN - Mills Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.14	2002	L
B31R-02-PH - Mills Creek							
Aquatic Life	pH	5A			9.14	2018	L
B31R-04-PH - Coles Run							
Aquatic Life	pH	5A			6.9	2006	L
B31R-05-PH - Johns Run							
Aquatic Life	pH	5A			5.46	2006	L
B31R-06-PH - Kennedy Creek							
Aquatic Life	pH	5A			15.48	2006	L
B31R-07-PH - Orebank Creek							
Aquatic Life	pH	5A			3.56	2006	L
B32R-03-PH - Paine Run							
Aquatic Life	pH	5A			6.75	2004	L

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Appendix 1a - 2024 Impaired Waters - 303(d) List

Category 5 - Waters Needing Total Maximum Daily Load Study

Potomac and Shenandoah River Basins continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
B32R-04-PH - Meadow Run							
Aquatic Life	pH	5A			8.82	2004	L
B33R-02-PH - Deep Run							
Aquatic Life	pH	5A			4.49	2004	L
B33R-03-PH - Lower Lewis Run							
Aquatic Life	pH	5A			3.94	2006	L
B35R-01-BAC - Boone Run							
Recreation	Escherichia coli (E. coli)	5A			13.82	2010	L
B35R-01-DO - Two Mile Run							
Aquatic Life	Dissolved Oxygen	5A			3.52	2022	L
B35R-01-TEMP - Boone Run							
Aquatic Life	Temperature	5A			7.29	2022	L
B35R-02-BAC - Quail Run							
Recreation	Escherichia coli (E. coli)	5A			1.46	2010	L
B35R-03-BEN - Quail Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5C			1.46	2002	L
B35R-04-PH - Two Mile Run							
Aquatic Life	pH	5A			5.06	2006	L
B35R-05-PH - One Mile Run							
Aquatic Life	pH	5A			9.17	2010	L
B37R-02-BAC - Line Run							
Recreation	Escherichia coli (E. coli)	5A			4.94	2006	L
B37R-03-BAC - Honey Run							
Recreation	Escherichia coli (E. coli)	5A			5.11	2008	L
B38R-02-BAC - Big Run							
Recreation	Escherichia coli (E. coli)	5A			6.41	2006	L
B39R-03-BEN - East Hawksbill Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.38	2008	H
B39R-03-PH - Rocky Branch							
Aquatic Life	pH	5A			4.25	2004	L
B39R-03-TEMP - Pass Run							
Aquatic Life	Temperature	5A			9.48	2010	L
B40R-01-BAC - Jeremys Run							
Recreation	Escherichia coli (E. coli)	5A			11.7	2012	L
B40R-02-BAC - Flint Run							
Recreation	Escherichia coli (E. coli)	5A			12.58	2016	L
B40R-03-BAC - Gooney Run							
Recreation	Escherichia coli (E. coli)	5A			20.18	2010	L
B40R-03-TEMP - Gooney Run							
Aquatic Life	Temperature	5A			6.73	2006	L
Aquatic Life	Temperature	5A			7.36	2008	L
B41R-04-BAC - South Fork Shenandoah River							
Recreation	Escherichia coli (E. coli)	5A			4.47	2010	L
Recreation	Escherichia coli (E. coli)	5A			5.85	2012	L
B45R-05-BEN - North Fork Shenandoah River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			11.55	2008	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.99	2012	L
B47R-01-BEN - Fridley Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.39	2002	L
B47R-01-PH - Fridley Run							
Aquatic Life	pH	5A			2.39	2006	L
B47R-07-BEN - Dry Fork							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			10.85	2006	L
B48R-02-BEN - Crooked Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.08	2008	H
B49R-01-BEN - Stony Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.86	2008	H
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.44	2016	H
B49R-07-TEMP - Stony Creek							
Aquatic Life	Temperature	5A			4.71	2002	L

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Category 5 - Waters Needing Total Maximum Daily Load Study

Potomac and Shenandoah River Basins continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Aquatic Life	Temperature	5A			4.69	2004	L
Aquatic Life	Temperature	5A			9.46	2006	L
B50R-03-BEN - Pughs Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7	2012	H
B51R-01-HG - North Fork Shenandoah River							
Fish Consumption	Mercury in Fish Tissue	5A			4.71	2022	L
B51R-02-BAC - North Fork Shenandoah River							
Recreation	Escherichia coli (E. coli)	5A			5.42	2008	L
Recreation	Escherichia coli (E. coli)	5A			1.29	2010	L
Recreation	Escherichia coli (E. coli)	5A			3.79	2022	L
B52R-01-PH - Cedar Creek							
Aquatic Life	pH	5A			4.83	2014	L
Aquatic Life	pH	5A			3.46	2016	L
B52R-04-BAC - Cedar Creek							
Recreation	Escherichia coli (E. coli)	5A			7.6	2012	L
Recreation	Escherichia coli (E. coli)	5A			9.22	2014	L
B52R-05-BAC - Fall Run							
Recreation	Escherichia coli (E. coli)	5A			15.17	2014	L
B52R-06-BAC - Gravel Springs							
Recreation	Escherichia coli (E. coli)	5A			3.29	2016	L
B53R-01-BAC - Cedar Creek							
Recreation	Escherichia coli (E. coli)	5A			14.36	2008	L
Recreation	Escherichia coli (E. coli)	5A			3.76	2014	L
B54R-01-BAC - Passage Creek							
Recreation	Escherichia coli (E. coli)	5A			10.43	2008	L
Recreation	Escherichia coli (E. coli)	5A			8.65	2022	L
B54R-01-PH - Passage Creek							
Aquatic Life	pH	5A			5.45	2010	L
B55R-04-BAC - Shenandoah River							
Recreation	Escherichia coli (E. coli)	5A			12.94	2022	L
B56R-01-DO - Crooked Run							
Aquatic Life	Dissolved Oxygen	5A			2.33	2008	L
B56R-02-BEN - Stephens Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1	2016	H
B57R-03-BAC - Chapel Run							
Recreation	Escherichia coli (E. coli)	5A			11.75	2008	L
B57R-03-BEN - Chapel Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			11.75	2006	H
B58R-02-BAC - Dog Run							
Recreation	Escherichia coli (E. coli)	5A			6.13	2008	L
B58R-03-BAC - Wheat Spring Branch							
Recreation	Escherichia coli (E. coli)	5A			4.69	2008	L
B58R-04-BAC - Long Marsh Run							
Recreation	Escherichia coli (E. coli)	5A			7.09	2012	L
B58R-05-BAC - Shenandoah River							
Recreation	Escherichia coli (E. coli)	5A			7.92	2012	L
B58R-06-BAC - Craig Run							
Recreation	Escherichia coli (E. coli)	5A			4.41	2018	L
B58R-07-BAC - Shenandoah River UT (local name Pigeon's Hollow)							
Recreation	Escherichia coli (E. coli)	5A			3.29	2022	L

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Category 5 - Waters Needing Total Maximum Daily Load Study

James River Basin

Cause Group - Water Name							
Impaired Use	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	2.048			2012	L
G01E-03-PCBFT - James River and Various Tributaries							
Fish Consumption	PCBs in Fish Tissue	5A	62.904			2002	H
Fish Consumption	PCBs in Fish Tissue	5A	1.914			2004	H
Fish Consumption	PCBs in Fish Tissue	5A	179.561		7.53	2006	H
Fish Consumption	PCBs in Fish Tissue	5A	3.688			2006	L
Fish Consumption	PCBs in Fish Tissue	5A	0.002			2008	H
G01L-01-CHLA - Falling Creek Reservoir							
Aquatic Life	Chlorophyll-a	5A		88.38		2018	L
G01R-01-PCB - Goode Creek							
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A			1.21	2012	H
G01R-02-PCB - Almond Creek							
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A			2.11	2012	H
G01R-02-PH - XVO and XVP - Almond Creek, UT							
Aquatic Life	pH	5A			0.36	2004	L
G01R-04-DO - Falling Creek							
Aquatic Life	Dissolved Oxygen	5A			0.99	2008	L
G01R-05-PH - Kingsland Creek							
Aquatic Life	pH	5C			8.55	2006	L
G01R-06-PCB - Gillies Creek							
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A			5.88	2012	H
G01R-06-PH - Gillies Creek							
Aquatic Life	pH	5A			5.88	2004	L
G01R-07-DO - Redwater Creek							
Aquatic Life	Dissolved Oxygen	5C			2.97	2010	L
G01R-09-DO - XPF - James River, UT							
Aquatic Life	Dissolved Oxygen	5A			0.39	2004	L
G01R-09-PH - XPF - James River, UT							
Aquatic Life	pH	5A			0.39	2004	L
G01R-10-BEN - Pocoshock Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.7	2020	H
G01R-12-PH - XYI - Coles Run, UT							
Aquatic Life	pH	5C			0.94	2006	L
G01R-15-BEN - Proctors Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.27	2010	H
G01R-21-DO - Great Branch							
Aquatic Life	Dissolved Oxygen	5A			4.38	2014	L
G01R-22-CU - XVP - Almond Creek, UT							
Aquatic Life	Copper	5A			0.36	2012	L
Wildlife	Copper	5A			0.36	2012	L
G01R-22-ZN - XVP - Almond Creek, UT							
Aquatic Life	Zinc	5A			0.36	2012	L
Wildlife	Zinc	5A			0.36	2012	L
G02E-04-PCB - James River							
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A	3.794			2012	H
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A	0.178			2012	L
Public Water Supply	Polychlorinated biphenyls (PCBs)	5A	1.182			2012	H
G02E-05-EBTOX - James River							
Aquatic Life	Sediment Bioassay	5A	0.178			2012	L
G02R-03-DO - Johnson Creek Watershed							
Aquatic Life	Dissolved Oxygen	5C			16.27	2004	L
G02R-03-PH - Johnson Creek Watershed							
Aquatic Life	pH	5C			16.27	2004	L
G02R-09-DO - Roundabout Creek							
Aquatic Life	Dissolved Oxygen	5C			3.96	2014	L
G02R-09-PH - Roundabout Creek							
Aquatic Life	pH	5C			3.96	2014	L
G02R-10-PH - XBE - Roundabout Creek, UT							

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Category 5 - Waters Needing Total Maximum Daily Load Study

James River Basin continued...

Cause Group - Water Name Impaired Use Cause		Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Aquatic Life	pH	5C			1.43	2014	L
G02R-11-PH - Turkey Island Creek							
Aquatic Life	pH	5C			7.04	2016	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
G03E-01-PCB - Bailey Creek (tidal), Cattail Creek (tidal)							
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A	0.114			2012	H
G03E-03-PH - James River							
Aquatic Life	pH	5A	10.194			2014	L
G03L-01-DO - Harrison Lake							
Aquatic Life	Dissolved Oxygen	5A		60.16		2006	L
G03L-01-HGFT - Harrison Lake							
Fish Consumption	Mercury in Fish Tissue	5A		60.16		2008	L
G03L-01-PH - Harrison Lake							
Aquatic Life	pH	5A		60.16		2006	L
G03R-02-BEN - Bailey Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.19	2014	H
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.28	2014	L
G03R-02-PCBFT - Bailey Creek							
Fish Consumption	PCBs in Fish Tissue	5A			6.47	2002	H
G03R-03-PCB - Poythress Run							
Aquatic Life	Polychlorinated biphenyls (PCBs)	5A			0.7	2012	H
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A			0.7	2012	H
Wildlife	Polychlorinated biphenyls (PCBs)	5A			0.7	2012	H
G03R-04-PH - West Run							
Aquatic Life	pH	5C			1.86	2004	L
G03R-05-PCB - XYO - Cattail Creek, UT							
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A			0.34	2012	H
G03R-06-DO - Upper West Run / East Run Watershed							
Aquatic Life	Dissolved Oxygen	5C			45.28	2016	L
G03R-06-PH - Upper West Run / East Run Watershed							
Aquatic Life	pH	5C			1.57	2006	L
Aquatic Life	pH	5C			43.71	2016	L
G03R-12-PCB - Bailey Creek							
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A			6.47	2022	H
G04E-06-EBTOX - James River							
Aquatic Life	Sediment Bioassay	5A	1.05			2012	L
G04L-01-BAC - Sunken Meadow Pond							
Recreation	Escherichia coli (E. coli)	5A		172.86		2016	L
G04L-01-DO - Sunken Meadow Pond							
Aquatic Life	Dissolved Oxygen	5A		172.86		2010	L
G05R-01-NH3 - XDD - Chickahominy River, UT							
Aquatic Life	Ammonia, Total	5A			1.17	2008	L
Wildlife	Ammonia, Total	5A			1.17	2008	L
G05R-06-DO - Grassy Swamp Creek							
Aquatic Life	Dissolved Oxygen	5C			1.02	2008	L
G05R-07-DO - XDD - Chickahominy River, UT							
Aquatic Life	Dissolved Oxygen	5C			0.56	2006	L
G05R-07-PH - XDD - Chickahominy River, UT							
Aquatic Life	pH	5C			0.56	2006	L
G05R-09-BEN - North Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.66	2008	H
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.24	2014	H
G05R-09-PH - North Run							
Aquatic Life	pH	5A			3.66	2006	L
G05R-10-DO - Upham Brook							

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James River Basin continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Aquatic Life	Dissolved Oxygen	5A			1.16	2008	L
G05R-11-DO - XXP - Upham Brook, UT							
Aquatic Life	Dissolved Oxygen	5C			1.46	2008	L
G05R-14-BEN - Jordans Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.19	2016	H
G05R-15-DO - XCJ - North Run, UT							
Aquatic Life	Dissolved Oxygen	5A			0.42	2020	L
G05R-15-PH - XCJ - North Run, UT							
Aquatic Life	pH	5A			0.42	2016	L
G05R-16-BEN - Upham Brook							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			12.15	2016	H
G05R-17-HAB - XBP - Chickahominy River, UT							
Recreation	Harmful Algal Blooms	5A			0.8	2022	L
G05R-18-DO - North Run							
Aquatic Life	Dissolved Oxygen	5A			3.66	2022	L
G06L-04-TEMP - Westhaven Lake							
Aquatic Life	Temperature	5A		15.12		2014	L
G06R-01-HG - Chickahominy River							
Fish Consumption	Mercury in Fish Tissue	5A			7.46	2010	L
G06R-05-DO - Powwhite Creek							
Aquatic Life	Dissolved Oxygen	5C			2.14	2014	L
G06R-06-PH - Beaverdam Creek							
Aquatic Life	pH	5C			2.68	2004	L
G06R-07-PH - Boatswain Creek							
Aquatic Life	pH	5C			3.76	2004	L
G06R-11-PH - Bloody Run							
Aquatic Life	pH	5C			1.16	2004	L
G07L-01-DO - Chickahominy Lake							
Aquatic Life	Dissolved Oxygen	5A		1050.47		2002	L
G07L-01-HGFT - Chickahominy Lake							
Fish Consumption	Mercury in Fish Tissue	5A		1050.47		2008	L
G07R-01-DO - Collins Run							
Aquatic Life	Dissolved Oxygen	5C			4.5	2010	L
G07R-01-PH - Collins Run							
Aquatic Life	pH	5C			4.5	2012	L
G07R-02-DO - Rumley Marsh							
Aquatic Life	Dissolved Oxygen	5A			1.32	2002	L
G07R-02-PH - Rumley Marsh							
Aquatic Life	pH	5A			1.32	2010	L
G07R-04-DO - Schiminioe Creek							
Aquatic Life	Dissolved Oxygen	5C			6.23	2012	L
G07R-04-PH - Schiminioe Creek							
Aquatic Life	pH	5C			6.23	2012	L
G07R-06-DO - XWS - Rumley Marsh, UT							
Aquatic Life	Dissolved Oxygen	5A			2.17	2012	L
G07R-06-PH - XWS - Rumley Marsh, UT							
Aquatic Life	pH	5A			2.17	2012	L
G07R-07-PH - XAB - Collins Run, UT							
Aquatic Life	pH	5C			1.72	2012	L
G08E-02-EBEN - Chickahominy River							
Aquatic Life	Sediment Bioassay	5A	0.452			2018	L
G08E-07-EBEN - XAC - Chickahominy River, UT							
Aquatic Life	Estuarine Bioassessments	5A	0.017			2010	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

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James River Basin continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
G08R-04-DO - Yarmouth Creek							
Aquatic Life	Dissolved Oxygen	5C			4.09	2012	L
G08R-05-DO - Barrows Creek							
Aquatic Life	Dissolved Oxygen	5A			6.93	2014	L
G09L-01-HGFT - Diascund Creek Reservoir							
Fish Consumption	Mercury in Fish Tissue	5A		1056.13		2010	L
G09R-01-DO - Beaverdam Creek							
Aquatic Life	Dissolved Oxygen	5A			4.34	2002	L
G09R-01-PH - Beaverdam Creek							
Aquatic Life	pH	5A			4.34	2012	L
G09R-02-DO - Diascund Creek							
Aquatic Life	Dissolved Oxygen	5C			6.89	2008	L
G09R-02-PH - Diascund Creek							
Aquatic Life	pH	5C			6.89	2012	L
G09R-03-DO - XAL - Diascund Creek, UT							
Aquatic Life	Dissolved Oxygen	5C			1.22	2012	L
G09R-03-PH - XAL - Diascund Creek, UT							
Aquatic Life	pH	5C			1.22	2012	L
G09R-04-DO - XAK - Diascund Creek, UT							
Aquatic Life	Dissolved Oxygen	5C			2.91	2012	L
G09R-05-DO - XAJ - Diascund Creek, UT							
Aquatic Life	Dissolved Oxygen	5C			2.93	2012	L
G09R-06-DO - XAH - Beaverdam Creek, UT							
Aquatic Life	Dissolved Oxygen	5A			2.23	2012	L
G09R-07-DO - Wahrani Swamp							
Aquatic Life	Dissolved Oxygen	5C			3.66	2014	L
G09R-08-DO - XBY - Beaverdam Creek, UT							
Aquatic Life	Dissolved Oxygen	5A			1.08	2016	L
G10E-05-EBEN - James River (Oligohaline)							
Aquatic Life	Estuarine Bioassessments	5A	17.843			2004	L
Aquatic Life	Estuarine Bioassessments	5A	0.578			2012	L
Aquatic Life	Estuarine Bioassessments	5A	0.813			2024	L
G10E-06-BAC - College Creek							
Recreation	Enterococcus	5A	0.578			2022	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
G10R-01-BAC - College Run							
Recreation	Fecal Coliform	5A			2.61	2002	L
G10R-02-BEN - Powhatan Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.36	2002	H
G10R-03-BAC - XHC - Dark Swamp, UT							
Recreation	Escherichia coli (E. coli)	5A			1.3	2012	L
G10R-03-DO - XHC - Dark Swamp, UT							
Aquatic Life	Dissolved Oxygen	5A			1.3	2010	L
G10R-05-BAC - Dark Swamp							
Recreation	Escherichia coli (E. coli)	5A			3.16	2014	L
G11E-01-EBEN - 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	93.122			2006	L
Aquatic Life	Estuarine Bioassessments	5A	5.068			2010	L
Aquatic Life	Estuarine Bioassessments	5A	0.07			2018	L
Aquatic Life	Estuarine Bioassessments	5A	0.358			2024	L
G11E-10-PCBFT - Warwick River							

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Appendix 1a - 2024 Impaired Waters - 303(d) List

Category 5 - Waters Needing Total Maximum Daily Load Study

James River Basin continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
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
G11E-20-BAC - James River - Hilton Beach Area							
Recreation	Enterococcus	5A	0.11			2012	L
G11E-21-BAC - James River - Huntington Beach Area							
Recreation	Enterococcus	5A	0.008			2006	L
G11E-23-EBEN - Warwick River - Middle-Lower Tidal Portion							
Aquatic Life	Estuarine Bioassessments	5A	0.077			2018	L
G11E-26-SF - Ragged Island Creek							
Shellfishing	Fecal Coliform	5B	0.173			2022	L
G11L-01-CU - Lee Hall Reservoir							
Aquatic Life	Copper	5A		292.14		2004	L
Wildlife	Copper	5A		292.14		2004	L
G11L-01-PCB - Lee Hall Reservoir-Lower							
Fish Consumption	PCBs in Fish Tissue	5A		66.49		2010	L
G11L-06-DO - Scotts Factory Pond							
Aquatic Life	Dissolved Oxygen	5A		14.83		2016	L
G11L-07-DO - Lone Star Lake G							
Aquatic Life	Dissolved Oxygen	5A		89.65		2006	L
G11R-02-BEN - Chuckatuck Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.54	2004	H
G11R-03-BAC - Champion Swamp							
Recreation	Escherichia coli (E. coli)	5A			3.17	2010	L
G12L-02-DO - Lake Meade							
Aquatic Life	Dissolved Oxygen	5A		489.49		2006	L
G12L-03-CHLA - Speights Run Lake							
Aquatic Life	Chlorophyll-a	5A		120.88		2010	L
G12L-03-DO - Speights Run Lake							
Aquatic Life	Dissolved Oxygen	5A		120.88		2022	L
G12L-04-DO - Lake Kilby							
Aquatic Life	Dissolved Oxygen	5A		200.04		2006	L
G12L-04-TP - Lake Kilby							
Aquatic Life	Phosphorus, Total	5A		200.04		2014	L
G13E-07-PH - Shingle Creek - Tributary to Nansemond R.							
Aquatic Life	pH	5A	0.049			2002	L
G13E-08-EBEN - Nansemond River							
Aquatic Life	Estuarine Bioassessments	5A	2.833			2024	L
G14L-01-DO - Lake Burnt Mills							
Aquatic Life	Dissolved Oxygen	5A		637.99		2006	L
G14L-02-DO - Western Branch Reservoir							
Aquatic Life	Dissolved Oxygen	5A		1209.67		2024	L
G14R-02-DO - Carbell Swamp - Lower							
Aquatic Life	Dissolved Oxygen	5A			2.88	2008	L
Aquatic Life	Dissolved Oxygen	5A			2.95	2024	L
G15E-01-01-EBEN - Deep Creek, Southern Br. Elizabeth R.- Mouth							
Aquatic Life	Estuarine Bioassessments	5A	0.075			2018	L
G15E-01-01-TCDD - Elizabeth River Southern Branch and its tidal tributaries. CBP segment SBEMH.							
Fish Consumption	Dioxin (including 2,3,7,8-TCDD)	5A	3.152			2010	L
G15E-01-02-EBEN - Elizabeth River Southern Branch, Paradise, Saint Julian, New Mill and Deep Creeks and unsegmented estuaries in SBEMH.							
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-01-BAC - Elizabeth River Mainstem - Middle							
Recreation	Enterococcus	5A	4.005			2022	L
G15E-02-04-EBEN - Eastern Branch Elizabeth River, Broad Creek , Indian River, Steamboat Creek and Unsegmented estuaries in EBEMH.							
Aquatic Life	Estuarine Bioassessments	5A	1.764			2004	L
Aquatic Life	Estuarine Bioassessments	5A	0.587			2006	L
G15E-03-01-EBEN - Elizabeth River Mainstem							
Aquatic Life	Estuarine Bioassessments	5A	4.473			2004	L

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Appendix 1a - 2024 Impaired Waters - 303(d) List

Category 5 - Waters Needing Total Maximum Daily Load Study

James River Basin continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
G15E-04-02-EBEN - Western Branch Elizabeth River and Unsegmented estuaries in WBEMH							
Aquatic Life	Estuarine Bioassessments	5A	0.561			2006	L
Aquatic Life	Estuarine Bioassessments	5A	2.164			2010	L
G15E-06-01-BAC - James River - King/Lincoln Park Beach Area							
Recreation	Enterococcus	5A	0.009			2006	L
G15E-06-02-BAC - James River - Anderson Park Beach Area							
Recreation	Enterococcus	5A	0.011			2012	L
G15E-06-04-BAC - Willoughby Bay - Beach Area							
Recreation	Enterococcus	5A	0.142			2014	L
G15E-06-EBEN - Lafayette River							
Aquatic Life	Estuarine Bioassessments	5A	2.147			2024	L
G15E-08-EBEN - Willoughby Bay [Less Beach Area]							
Aquatic Life	Estuarine Bioassessments	5A	2.476			2018	L
G15E-09-EBEN - Southern Branch, Elizabeth River - Middle							
Aquatic Life	Estuarine Bioassessments	5A	0.015			2020	L
Aquatic Life	Estuarine Bioassessments	5A	0.545			2024	L
G15E-10-EBEN - Knitting Mill Creek							
Aquatic Life	Estuarine Bioassessments	5A	0.027			2022	L
G15E-11-EBEN - Southern Branch, Elizabeth R. - Middle							
Aquatic Life	Estuarine Bioassessments	5A	0.004			2022	L
G15E-12-EBEN - Chesapeake Bay segment SBEMHa							
Aquatic Life	Estuarine Bioassessments	5A	0.523			2024	L
H01R-01-HG - James River							
Fish Consumption	Mercury in Fish Tissue	5A			15.84	2010	L
H02L-01-PH - Pedlar Lake							
Aquatic Life	pH	5A		117.75		2024	L
H02L-01-TEMP - Pedlar Lake							
Aquatic Life	Temperature	5C		117.75		2020	L
H02R-03-TEMP - Pedlar River							
Aquatic Life	Temperature	5C			4.89	2020	L
H02R-04-BEN - Horsely Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.24	2024	L
H03R-01-BEN - Blackwater Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			10.54	2010	H
H03R-03-BEN - Ivy Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			21.45	2010	H
H03R-04-PCB - James River, Slate River							
Fish Consumption	PCBs in Fish Tissue	5A			10.76	2004	H
Fish Consumption	PCBs in Fish Tissue	5A			143.89	2006	H
Fish Consumption	PCBs in Fish Tissue	5A			16.79	2006	L
Fish Consumption	PCBs in Fish Tissue	5A			10.9	2008	H
Fish Consumption	PCBs in Fish Tissue	5A			3.05	2014	H
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A			6.32	2020	H
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A			18.25	2024	L
Public Water Supply	Polychlorinated biphenyls (PCBs)	5A			10.54	2024	L
H03R-05-BEN - Burton Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.48	2010	H
H03R-06-BEN - Judith Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			11.09	2010	H
H03R-07-BEN - Tomahawk Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.06	2010	H
H05R-01-BAC - James River							
Recreation	Escherichia coli (E. coli)	5A			15.95	2010	L
H05R-05-BEN - Stonewall Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.4	2024	L
H05R-08-BAC - Beck Creek							
Recreation	Escherichia coli (E. coli)	5A			6.28	2012	L
H05R-09-BAC - Partridge Creek							
Recreation	Escherichia coli (E. coli)	5A			10.41	2012	L
H05R-10-BAC - Archer Creek							

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Appendix 1a - 2024 Impaired Waters - 303(d) List

Category 5 - Waters Needing Total Maximum Daily Load Study

James River Basin continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Recreation	Escherichia coli (E. coli)	5A			7.47	2016	L
H05R-11-BAC - Allens Creek							
Recreation	Escherichia coli (E. coli)	5A			7.18	2016	L
H08R-01-BAC - Davids Creek							
Recreation	Escherichia coli (E. coli)	5A			5.18	2012	L
H09R-01-PH - Montebello Spring Branch							
Aquatic Life	pH	5A			0.13	2004	L
H09R-02-BEN - Hat Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.52	2012	H
H09R-04-TEMP - Tye River							
Aquatic Life	Temperature	5A			4.85	2022	L
H09R-05-BEN - Black Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.96	2014	H
H11L-01-BAC - Stonehouse Creek Reservoir							
Recreation	Escherichia coli (E. coli)	5A		33.54		2020	L
H11L-01-DO - Stonehouse Creek Reservoir							
Aquatic Life	Dissolved Oxygen	5A		33.54		2008	L
H11L-01-PH - Stonehouse Creek Reservoir							
Aquatic Life	pH	5A		33.54		2006	L
H11L-02-BAC - Thrashers Creek Reservoir							
Recreation	Escherichia coli (E. coli)	5A		31.95		2020	L
H11L-02-CHLA - Thrashers Creek Reservoir							
Aquatic Life	Chlorophyll-a	5A		31.95		2014	L
H11L-02-PH - Thrashers Creek Reservoir							
Aquatic Life	pH	5A		31.95		2006	L
H11L-03-PH - Mill Creek Reservoir							
Aquatic Life	pH	5A		186.41		2014	L
H12R-01-BEN - Rutledge Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.33	2010	L
H13L-02-PH - Lake Nelson							
Aquatic Life	pH	5A		40.62		2018	L
H14R-01-BEN - Mallorys Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.75	2016	L
H14R-01-HG - James River							
Fish Consumption	Mercury in Fish Tissue	5A			18.58	2010	L
H15R-05-TEMP - South Fork Rockfish River							
Aquatic Life	Temperature	5A			3.74	2022	L
H16R-02-BAC - Beaver Creek							
Recreation	Escherichia coli (E. coli)	5A			7.41	2012	L
H16R-03-BAC - Cove Creek							
Recreation	Escherichia coli (E. coli)	5A			10.47	2012	L
H16R-04-BAC - Rockfish River							
Recreation	Escherichia coli (E. coli)	5A			17.3	2012	L
Recreation	Escherichia coli (E. coli)	5A			6.06	2018	L
H16R-05-BAC - Rockfish River UT							
Recreation	Escherichia coli (E. coli)	5A			2.69	2016	L
H17L-01-CHLA - Totier Creek Reservoir							
Aquatic Life	Chlorophyll-a	5A		37.23		2024	L
H17L-01-DO - Totier Creek Reservoir							
Aquatic Life	Dissolved Oxygen	5A		37.23		2024	L
H17R-02-BAC - James River							
Recreation	Escherichia coli (E. coli)	5A			18.69	2008	L
Recreation	Escherichia coli (E. coli)	5A			16.33	2012	L
H17R-05-BEN - Totier Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.72	2006	L
H20R-01-BEN - Bear Garden Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.89	2022	L
H20R-02-BAC - South Creek							
Recreation	Escherichia coli (E. coli)	5A			6.67	2014	L

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Appendix 1a - 2024 Impaired Waters - 303(d) List

Category 5 - Waters Needing Total Maximum Daily Load Study

James River Basin continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
H20R-03-BEN - North Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.98	2024	L
H21L-01-DO - Troublesome Reservoir							
Aquatic Life	Dissolved Oxygen	5A		52.68		2010	L
H21R-01-BEN - Horsepen Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.87	2014	L
H21R-02-BEN - Walton Fork							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3	2016	L
H23L-01-CHLA - Lake Albemarle							
Aquatic Life	Chlorophyll-a	5A		37.02		2016	L
H23R-01-BEN - Broad Axe Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.32	2004	H
H23R-02-BEN - Lickinghole Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.21	2010	H
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.73	2010	L
H23R-03-BEN - Mechums River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			15.17	2004	H
H23R-04-BEN - Slabtown Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.92	2010	H
H23R-05-BEN - Stockton Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			12.07	2024	L
H23R-06-BEN - Parrott Branch X-trib							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.15	2010	H
H24L-01-DO - Sugar Hollow Reservoir							
Aquatic Life	Dissolved Oxygen	5A		47.46		2022	L
H24R-02-BEN - X-trib to Doyles River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.74	2012	L
H25R-02-BEN - Piney Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.77	2012	L
H26L-01-DO - South Fork Rivanna River Reservoir							
Aquatic Life	Dissolved Oxygen	5A		181.31		2018	L
H26R-02-PH - Ivy Creek							
Aquatic Life	pH	5A			5.49	2006	L
H26R-03-BEN - Ivy Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.59	2008	H
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.49	2010	H
H26R-04-BEN - South Fork Rivanna River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.47	2010	H
H26R-05-BEN - Powell Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			10.37	2010	H
H26R-06-BEN - Naked Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.83	2010	H
H26R-07-BEN - South Fork Rivanna River X-trib							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.2	2010	H
H26R-08-BEN - Fishing Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			12.54	2012	H
H26R-09-BEN - Little Ivy Creek X-trib							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.44	2016	H
H27R-11-BEN - Parker Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			12.73	2022	L
H28R-08-BEN - Biscuit Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.6	2010	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.28	2024	L
H28R-09-BEN - Morey Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.93	2010	L
H28R-10-BEN - Town Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.2	2010	L
H28R-11-BEN - Meadow Creek X-trib							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.78	2010	L

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Category 5 - Waters Needing Total Maximum Daily Load Study

James River Basin continued...

Cause Group - Water Name Impaired Use Cause		Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
H28R-12-BEN - X-trib to Moores Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.23	2012	L
H28R-13-BEN - X-trib above Ragged Mountain Reservoir							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.29	2018	L
H28R-14-BEN - Unnamed Trib to Meadow Creek X-trib							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.41	2018	L
H28R-15-BEN - Cow Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.47	2018	L
H28R-17-BEN - Town Branch UT							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.8	2022	L
H29R-03-BAC - Buck Island Creek							
Recreation	Escherichia coli (E. coli)	5A			9.17	2008	L
H29R-03-BEN - Buck Island Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.66	2024	H
H29R-04-BAC - Rivanna River							
Recreation	Escherichia coli (E. coli)	5A			5.92	2022	L
H29R-04-BEN - Carroll Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			18.46	2010	H
H29R-05-BEN - Houchins Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			11.04	2024	L
H30R-02-BEN - East Prong Beaverdam Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.7	2012	H
H31R-01-HG - Rivanna River							
Fish Consumption	Mercury in Fish Tissue	5A			8.39	2020	L
H31R-02-BEN - Carys Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.21	2010	L
H31R-03-BEN - X-trib to Boston Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.29	2010	L
H31R-04-BEN - X-trib to Rivanna River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1	2010	L
H31R-05-BAC - Rivanna River							
Recreation	Escherichia coli (E. coli)	5A			8.39	2016	L
H31R-05-BEN - Rivanna River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.89	2022	L
H31R-06-BAC - Roundabout Creek							
Recreation	Escherichia coli (E. coli)	5A			3.47	2018	L
H32L-01-CHLA - Fluvanna Ruritan Lake							
Aquatic Life	Chlorophyll-a	5A		51.13		2022	L
H32L-01-DO - Fluvanna Ruritan Lake							
Aquatic Life	Dissolved Oxygen	5A		51.13		2012	L
H32L-01-PH - Fluvanna Ruritan Lake							
Aquatic Life	pH	5A		51.13		2024	L
H32R-02-BAC - Middle Fork Cunningham Creek							
Recreation	Escherichia coli (E. coli)	5R			3.41	2006	L
Recreation	Escherichia coli (E. coli)	5R			4.03	2008	L
H32R-02-BEN - Middle Fork Cunningham Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5R			3.41	2010	L
H32R-03-BAC - Middle Fork Cunningham Creek X-trib							
Recreation	Escherichia coli (E. coli)	5R			3.77	2008	L
H32R-04-BEN - X-trib to North Fork Cunningham Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5R			0.59	2010	L
H32R-05-BAC - Cunningham Creek North Fork							
Recreation	Escherichia coli (E. coli)	5R			4.19	2020	L
H32R-05-BEN - Cunningham Creek North Fork							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5R			4.19	2012	L
H32R-06-BAC - Cunningham Creek							
Recreation	Escherichia coli (E. coli)	5R			5.62	2020	L
H32R-06-BEN - Cunningham Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5R			5.62	2012	L

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Appendix 1a - 2024 Impaired Waters - 303(d) List

Category 5 - Waters Needing Total Maximum Daily Load Study

James River Basin continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
H32R-07-BAC - South Fork Cunningham Creek Recreation	Escherichia coli (E. coli)	5R			1.59	2020	L
H32R-07-BEN - South Fork Cunningham Creek Aquatic Life	Benthic Macroinvertebrates Bioassessments	5R			1.59	2018	L
H33L-01-CHLA - Powhatan Lake Aquatic Life	Chlorophyll-a	5A		61.36		2014	L
H33L-01-DO - Powhatan Lake Aquatic Life	Dissolved Oxygen	5A		61.36		2012	L
H33R-02-DO - Deep Creek Aquatic Life	Dissolved Oxygen	5C			0.37	2008	L
H33R-07-DO - Muddy Creek Aquatic Life	Dissolved Oxygen	5C			3.58	2018	L
H34R-04-BEN - Phils Creek Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.69	2016	L
H36L-02-DO - Bear Creek Lake Aquatic Life	Dissolved Oxygen	5A		41.11		2022	L
H36R-02-BEN - Randolph Creek Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			11.81	2008	L
H36R-05-BEN - Reynolds Creek Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.85	2014	L
H36R-06-BEN - Bigger Creek Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.44	2016	L
H36R-07-BEN - Bonbrook Creek Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.7	2018	L
H36R-08-DO - Bear Creek Aquatic Life	Dissolved Oxygen	5C			3.68	2018	L
H38R-07-DO - Branch Creek Aquatic Life	Dissolved Oxygen	5C			5.51	2008	L
H38R-09-HG - James River Fish Consumption	Mercury in Fish Tissue	5A			3.75	2024	L
H39R-01-PH - Broad Branch Aquatic Life	pH	5A			2.64	2006	L
H39R-05-BEN - Powhite Creek Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.13	2008	H
H39R-06-PCB - Reedy Creek Fish Consumption	Polychlorinated biphenyls (PCBs)	5A			1.09	2020	H
H39R-06-PH - Reedy Creek Aquatic Life	pH	5A			0.36	2010	L
H39R-08-DO - XAB - Salles Creek, UT Aquatic Life	Dissolved Oxygen	5A			0.1	2010	L
H39R-08-PH - XAB - Salles Creek, UT Aquatic Life	pH	5A			0.1	2010	L
H39R-09-DO - James River - South Channel Aquatic Life	Dissolved Oxygen	5A			0.95	2012	L
H39R-10-DO - Bernards Creek Aquatic Life	Dissolved Oxygen	5A			8.13	2014	L
H39R-10-PH - Bernards Creek Aquatic Life	pH	5C			8.13	2022	L
H39R-11-HG - James River Fish Consumption	Mercury in Fish Tissue	5A			4.37	2010	L
H39R-13-BEN - Stony Run Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.01	2008	L
H39R-15-BEN - XYT - Stony Run, UT Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.27	2008	H
H39R-16-HG - James River Fish Consumption	Mercury in Fish Tissue	5A	0.239			2022	L
H39R-19-DO - Deep Run Aquatic Life	Dissolved Oxygen	5C			1.5	2012	L
H39R-26-BEN - Dover Creek							

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Category 5 - Waters Needing Total Maximum Daily Load Study

James River Basin continued...

Cause Group - Water Name Impaired Use Cause		Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.77	2020	H
H39R-27-BEN - Deep Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.17	2016	H
H39R-28-BEN - Stony Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.36	2016	H
H39R-30-DO - Dover Creek							
Aquatic Life	Dissolved Oxygen	5A			0.93	2018	L
H39R-34-TEMP - Stony Run - Lake Loreine							
Aquatic Life	Temperature	5A			0.31	2022	L
H39R-35-HG - James River							
Fish Consumption	Mercury in Fish Tissue	5A			9.44	2024	L
I01R-01-TEMP - Jackson River							
Aquatic Life	Temperature	5C			5.14	2004	L
Aquatic Life	Temperature	5C			14.88	2010	L
I01R-02-TEMP - Bolar Run							
Aquatic Life	Temperature	5C			2.1	2006	L
I01R-03-BAC - Jackson River							
Recreation	Escherichia coli (E. coli)	5A			13.5	2018	L
I02R-02-BAC - Back Creek							
Recreation	Escherichia coli (E. coli)	5A			15.06	2010	L
I02R-03-TEMP - Little Back Creek							
Aquatic Life	Temperature	5A			15.01	2022	L
I04R-02-TEMP - Jackson River							
Aquatic Life	Temperature	5A			5.15	2020	L
I07R-02-TEMP - Jerrys Run							
Aquatic Life	Temperature	5C			7.82	2022	L
I09L-01-TEMP - Douthat Lake							
Aquatic Life	Temperature	5A		46.68		2022	L
I09R-01-PCB - Jackson River							
Fish Consumption	PCBs in Fish Tissue	5A			12.67	2008	H
I09R-02-BAC - Jackson River							
Recreation	Escherichia coli (E. coli)	5A			3.42	2008	L
Recreation	Escherichia coli (E. coli)	5A			9.25	2010	L
I09R-03-BAC - Jackson River							
Recreation	Escherichia coli (E. coli)	5A			5.28	2020	L
I09R-04-TEMP - Karnes Creek							
Aquatic Life	Temperature	5A			8.09	2022	L
I11R-01-BAC - Potts Creek							
Recreation	Escherichia coli (E. coli)	5A			5.1	2018	L
I12R-01-BAC - Cowpasture River							
Recreation	Escherichia coli (E. coli)	5A			8.31	2016	L
I13R-02-TEMP - Bullpasture River							
Aquatic Life	Temperature	5A			11.94	2012	L
I14R-04-PH - Laurel Run							
Aquatic Life	pH	5A			2.04	2006	L
I15R-01-BAC - Stuart Run							
Recreation	Escherichia coli (E. coli)	5A			18.31	2018	L
I16R-01-PH - Porters Mill Creek							
Aquatic Life	pH	5A			4.85	2006	L
I17R-02-PH - North Branch Simpson Creek							
Aquatic Life	pH	5C			3.94	2022	L
I18R-04-BEN - Big Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.11	2024	L
I21R-02-TEMP - Johns Creek							
Aquatic Life	Temperature	5C			4.43	2020	L
I21R-03-PH - Dicks Creek							
Aquatic Life	pH	5C			4.02	2024	L
I22R-01-PH - Mill Creek							
Aquatic Life	pH	5A			4.24	2012	L

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Category 5 - Waters Needing Total Maximum Daily Load Study

James River Basin continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
I22R-01-TEMP - Barbours Creek							
Aquatic Life	Temperature	5C			7.16	2002	L
I26R-01-BEN - Mill Creek, UT (XUL)							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.37	2010	L
I27R-02-HG - James River							
Fish Consumption	Mercury in Fish Tissue	5A			9.53	2022	L
I27R-02-PCB - James River							
Fish Consumption	PCBs in Fish Tissue	5A			9.53	2020	H
Fish Consumption	PCBs in Fish Tissue	5A			43.06	2022	H
Fish Consumption	PCBs in Fish Tissue	5A			6.73	2022	L
I28R-02-BAC - Elk Creek							
Recreation	Escherichia coli (E. coli)	5A			3.99	2014	L
I29R-01-TEMP - Ramseys Draft							
Aquatic Life	Temperature	5A			10.29	2016	L
I30R-01-BAC - Calfpasture River							
Recreation	Escherichia coli (E. coli)	5A			2.84	2006	L
I30R-03-BAC - Hamilton Branch							
Recreation	Escherichia coli (E. coli)	5A			6.29	2016	L
I30R-03-PH - Piney Branch							
Aquatic Life	pH	5A			2.33	2006	L
I30R-04-BAC - Calfpasture River							
Recreation	Escherichia coli (E. coli)	5A			4.54	2024	L
I32R-03-BAC - Little Calfpasture River							
Recreation	Escherichia coli (E. coli)	5A			5.33	2004	L
Recreation	Escherichia coli (E. coli)	5A			7.03	2010	L
I32R-04-BAC - Smith Creek							
Recreation	Escherichia coli (E. coli)	5A			5.77	2024	L
I35R-02-BEN - Mill Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.14	2016	H
I35R-03-BEN - Woods Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.05	2008	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.28	2020	L
I36R-02-BEN - Moores Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.09	2006	H
I36R-03-PH - Saint Marys River							
Aquatic Life	pH	5A			1.97	2006	L
I36R-05-BEN - Marl Creek X-trib							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.16	2012	L
I36R-07-PH - South River							
Aquatic Life	pH	5A			3.59	2018	L
I37R-02-HG - Maury River							
Fish Consumption	Mercury in Fish Tissue	5A			4.58	2022	L
I37R-02-PCB - Maury River							
Fish Consumption	PCBs in Fish Tissue	5A			4.58	2004	H
Fish Consumption	PCBs in Fish Tissue	5A			12.36	2006	H
I38L-01-PH - Lexington Reservoir							
Aquatic Life	pH	5A		22.6		2010	L
J01R-02-BEN - Horsepen Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.01	2016	H
J01R-07-BEN - Harris Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.53	2020	H
J01R-09-BEN - Crane Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.19	2010	H
J03L-01-DO - Prince Edward Lake							
Aquatic Life	Dissolved Oxygen	5C		26.38		2018	L
J03L-01-HAB - Prince Edward Lake							
Recreation	Harmful Algal Blooms	5A		26.38		2022	L
J03R-06-BEN - Sandy River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.08	2014	H
J03R-07-BEN - North Branch Sandy River							

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Category 5 - Waters Needing Total Maximum Daily Load Study

James River Basin continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.4	2020	H
J04R-01-BEN - Bush River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			11.49	2010	H
J05R-01-BEN - Briery Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			10.48	2008	H
J05R-03-BEN - Rice Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.59	2014	H
J06R-03-BEN - Horsepen Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.99	2014	H
J06R-05-BEN - Big Guinea Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.73	2020	H
J07L-01-CHLA - Amelia Lake							
Aquatic Life	Chlorophyll-a	5A		98.32		2020	L
J09R-04-BEN - Nibbs Creek South Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.87	2014	H
J10R-01-BEN - UT to Appomattox River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.49	2008	L
J10R-02-DO - Goodes Creek							
Aquatic Life	Dissolved Oxygen	5C			2.92	2010	L
J10R-03-DO - Smacks Creek							
Aquatic Life	Dissolved Oxygen	5C			9.07	2012	L
J11L-02-DO - Lake Nottoway (Lee Lake)							
Aquatic Life	Dissolved Oxygen	5A		161.07		2022	L
J11R-03-DO - Bland Creek							
Aquatic Life	Dissolved Oxygen	5C			6.51	2010	L
J11R-04-DO - Cellar Creek							
Aquatic Life	Dissolved Oxygen	5C			2.7	2012	L
J12R-01-BEN - Winticomack Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.07	2010	H
J12R-02-BEN - Winterpock Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.43	2024	L
J12R-06-DO - Horsepen Branch							
Aquatic Life	Dissolved Oxygen	5C			4.44	2006	L
J12R-06-PH - Horsepen Branch							
Aquatic Life	pH	5C			4.44	2006	L
J13R-01-DO - Namozine Creek							
Aquatic Life	Dissolved Oxygen	5C			12.91	2016	L
J13R-01-PH - Namozine Creek							
Aquatic Life	pH	5C			12.91	2018	L
J14L-02-DO - Lake Chesdin							
Aquatic Life	Dissolved Oxygen	5A		3164.42		2022	L
J14R-03-DO - Whipponock Creek							
Aquatic Life	Dissolved Oxygen	5C			6.82	2016	L
J15L-01-HAB - Wilcox lake							
Recreation	Harmful Algal Blooms	5A		18.15		2022	L
J15R-02-BEN - Oldtown Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.23	2010	H
J15R-05-BEN - Rohoic Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			13.46	2012	H
J15R-08-BEN - Oldtown Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.23	2018	H
J15R-08-DO - Oldtown Creek							
Aquatic Life	Dissolved Oxygen	5C			6.23	2018	L
J15R-08-PH - Oldtown Creek							
Aquatic Life	pH	5C			6.23	2010	L
J16R-02-DO - Blackman Creek							
Aquatic Life	Dissolved Oxygen	5C			4.57	2004	L
J16R-03-PH - Horsepen Creek							
Aquatic Life	pH	5C			3.58	2018	L

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Category 5 - Waters Needing Total Maximum Daily Load Study

James River Basin continued...

Cause Group - Water Name Impaired Use Cause		Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
J17L-01-DO - Swift Creek Lake							
Aquatic Life	Dissolved Oxygen	5A		107.74		2006	L
J17R-01-BEN - Swift Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.26	2010	H
J17R-01-DO - Swift Creek							
Aquatic Life	Dissolved Oxygen	5A			7.26	2002	L
J17R-05-PH - Church Branch							
Aquatic Life	pH	5C			2.64	2010	L
J17R-06-BEN - Nuttree Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.58	2012	H
J17R-06-DO - Nuttree Branch							
Aquatic Life	Dissolved Oxygen	5A			5.58	2010	L
J17R-07-PH - Second Branch							
Aquatic Life	pH	5C			6.22	2010	L
J17R-09-BEN - Swift Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5C			2.88	2010	H
J17R-11-DO - Long Swamp							
Aquatic Life	Dissolved Oxygen	5C			3.73	2016	L
J17R-11-PH - Long Swamp							
Aquatic Life	pH	5C			3.73	2010	L
K39R-01-HG - Dismal Swamp Canal & Feeder Ditch to Lake Drummond							
Fish Consumption	Mercury in Fish Tissue	5A			13.21	2004	L
Fish Consumption	Mercury in Fish Tissue	5A			4.3	2024	L

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Category 5 - Waters Needing Total Maximum Daily Load Study

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
C01E-17-PCB - Chesapeake Bay and Tidal Tributaries							
Fish Consumption	PCBs in Fish Tissue	5A	1546.768			2006	L
Fish Consumption	PCBs in Fish Tissue	5A	0.025			2010	L
Fish Consumption	PCBs in Fish Tissue	5A	0.003			2012	L
E01R-01-BEN - Thumb Run, East Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.59	2012	L
E01R-02-BEN - Unnamed Tributary to Thumb Run, West Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.8	2014	L
E01R-03-BEN - Hittles Mill Stream							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.83	2020	L
E02R-01-BEN - Great Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.39	2010	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.82	2012	L
E02R-02-BEN - Tanner Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.79	2024	L
E03R-01-BEN - Popham Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.22	2018	L
E03R-01-TEMP - Hughes River							
Aquatic Life	Temperature	5A			3.21	2008	L
E03R-02-BEN - Kilbys Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.36	2024	L
E04R-01-TEMP - Hazel River							
Aquatic Life	Temperature	5A			3.64	2016	L
Aquatic Life	Temperature	5A			6.78	2018	L
E05R-01-BEN - Thornton River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.87	2010	L
E05R-02-BEN - Rush River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.78	2022	L
E08R-01-BEN - Marsh Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.01	2012	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
E09R-01-BEN - Mountain Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			19.91	2008	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.63	2020	L
E09R-01-PCB - Mountain Run							
Aquatic Life	Polychlorinated biphenyls (PCBs)	5A			6.65	2018	H
Aquatic Life	Polychlorinated biphenyls (PCBs)	5A			13.26	2020	H
Fish Consumption	PCBs in Fish Tissue	5A			19.91	2006	H
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A			6.65	2018	H
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A			13.26	2020	H
E09R-02-BEN - Jonas Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.78	2012	L
E09R-02-PCB - Mountain Run							
Fish Consumption	PCBs in Fish Tissue	5A			4.63	2016	H
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A			4.63	2018	H
E09R-03-BEN - Unnamed tributary to Jonas Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.53	2020	L
E09R-03-PCB - Unnamed tributaries to Mountain Run							
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A			1.72	2020	H
E09R-04-BEN - Flat Run							

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Rappahannock River Basin continued...

Cause Group - Water Name Impaired Use Cause		Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.23	2022	L
E10R-01-BEN - Sumerduck Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.86	2012	L
E10R-02-BEN - Unnamed tributary to Pine Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.97	2024	L
E10R-04-BAC - Sumerduck Run							
Recreation	Escherichia coli (E. coli)	5A			1.86	2016	L
E11R-01-BEN - Conway River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3	2010	L
E12R-01-BEN - Rippin Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.6	2012	L
E12R-02-BEN - Buckner Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.21	2024	L
E13R-01-BEN - Beautiful Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.51	2012	L
E14R-01-BEN - White Oak Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.19	2018	L
E14R-02-TEMP - Rose River							
Aquatic Life	Temperature	5A			2.58	2006	L
E15R-02-BEN - Deep Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.48	2018	L
E15R-03-BEN - Great Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.31	2012	L
E15R-04-BEN - Little Dark Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.54	2020	L
E15R-05-BEN - Dark Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.59	2024	L
E16R-01-BEN - Cedar Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.26	2018	L
E16R-02-BEN - Rapidan River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.66	2024	L
E17R-01-BEN - Brook Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.51	2012	L
E17R-02-BEN - Mountain Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			10.11	2018	L
E18R-01-BEN - Russell Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.73	2024	L
E18R-01-HG - Rapidan River							
Fish Consumption	Mercury in Fish Tissue	5A			9.81	2010	L
E19L-01-HG - Motts Run Reservoir							
Fish Consumption	Mercury in Fish Tissue	5A		137.18		2008	L
E19R-01-BAC - Horsepen Run							
Recreation	Escherichia coli (E. coli)	5A			5.71	2014	L
E19R-01-BEN - Mine Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.01	2024	L
E19R-02-BAC - Mine Run							
Recreation	Escherichia coli (E. coli)	5A			4.01	2014	L
E20E-03-PCB - Rappahannock River							
Fish Consumption	PCBs in Fish Tissue	5A	0.139			2002	L
Fish Consumption	PCBs in Fish Tissue	5A	3.766		3.32	2004	L
Fish Consumption	PCBs in Fish Tissue	5A	125.002		9.25	2006	L
Fish Consumption	PCBs in Fish Tissue	5A	0.042			2008	L
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A	0.579			2024	L
E20R-01-BEN - Falls Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.36	2012	L
E20R-02-BEN - Hazel Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.73	2012	L
E20R-03-BEN - Little Falls Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.93	2016	L
E20R-04-PH - Deep Run							

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Appendix 1a - 2024 Impaired Waters - 303(d) List

Category 5 - Waters Needing Total Maximum Daily Load Study

Rappahannock River Basin continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Aquatic Life	pH	5C			1.56	2012	L
E20R-05-PH - Unnamed tributary to Massaponax Creek							
Aquatic Life	pH	5C			1.27	2016	L
E20R-06-PH - Unnamed tributary to Deep Run							
Aquatic Life	pH	5C			2.25	2024	L
E21R-01-PH - Portobago Creek							
Aquatic Life	pH	5C			7	2020	L
E21R-02-BEN - Ware Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.07	2008	L
E21R-02-PH - Ware Creek							
Aquatic Life	pH	5C			3.07	2004	L
E21R-03-BAC - Gingoteague Creek							
Recreation	Escherichia coli (E. coli)	5A			1.49	2008	L
E21R-03-BEN - Gingoteague Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.49	2012	L
E21R-04-BEN - Mill Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.59	2008	L
E21R-04-PH - Muddy Creek							
Aquatic Life	pH	5C			1.37	2024	L
E21R-05-BEN - White Oak Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.52	2014	L
E21R-05-PH - Mount Creek							
Aquatic Life	pH	5C			4.46	2008	L
E22E-02-EBEN - Rappahannock River							
Aquatic Life	Estuarine Bioassessments	5A	110.197			2006	L
Aquatic Life	Estuarine Bioassessments	5A	0.042			2008	L
Aquatic Life	Estuarine Bioassessments	5A	1.249			2024	L
E22E-11-PH - Occupacia Creek							
Aquatic Life	pH	5C	0.668			2022	L
E22E-12-PH - Waterview Creek							
Aquatic Life	pH	5C	0.038			2022	L
E22R-04-PH - Elmwood Creek and Tributary XHY							
Aquatic Life	pH	5C			9.07	2006	L
E22R-05-PH - Bayers Creek							
Aquatic Life	pH	5C			5.89	2008	L
E22R-06-DO - Peedee Creek							
Aquatic Life	Dissolved Oxygen	5C			3.3	2010	L
E22R-06-PH - Peedee Creek							
Aquatic Life	pH	5C			3.3	2008	L
E22R-08-DO - Stillwater Creek							
Aquatic Life	Dissolved Oxygen	5C			3.53	2014	L
E22R-08-PH - Stillwater Creek							
Aquatic Life	pH	5C			3.53	2014	L
E22R-10-PH - Mill Swamp							
Aquatic Life	pH	5C			0.73	2014	L
E22R-11-PH - Smoots Mill Run, UT							
Aquatic Life	pH	5C			1.67	2014	L
E23L-01-HG - Chandlers Millpond							
Fish Consumption	Mercury in Fish Tissue	5A		47.99		2008	L
E23R-07-BEN - Ruin Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.54	2014	L
E23R-12-DO - Mussell Swamp							
Aquatic Life	Dissolved Oxygen	5C			5.13	2006	L
E23R-16-BEN - Church Swamp							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.24	2008	L
E23R-20-DO - Scates Millstream							
Aquatic Life	Dissolved Oxygen	5C			2.89	2014	L
E23R-20-PH - Scates Millstream							
Aquatic Life	pH	5C			2.89	2014	L

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Appendix 1a - 2024 Impaired Waters - 303(d) List

Category 5 - Waters Needing Total Maximum Daily Load Study

Rappahannock River Basin continued...

Cause Group - Water Name Impaired Use Cause		Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
E23R-22-PCB - Mount Landing Creek							
Fish Consumption	PCBs in Fish Tissue	5A			1.16	2020	L
E24E-02-EBTOX - Totuskey Creek							
Aquatic Life	Sediment Bioassay	5A	1.068			2006	L
E24R-01-DO - Bookers Mill Stream							
Aquatic Life	Dissolved Oxygen	5C			6.54	2012	L
E24R-03-PH - Muddy Gut							
Aquatic Life	pH	5C			2.64	2008	L
E24R-05-PH - Branham Mill Swamp							
Aquatic Life	pH	5C			3.66	2012	L
E24R-06-DO - Richardson Creek and Tributaries							
Aquatic Life	Dissolved Oxygen	5C			17.22	2012	L
E24R-06-PH - Richardson Creek and Tributaries							
Aquatic Life	pH	5C			17.22	2012	L
E24R-08-PH - XHL - Bookers Mill Stream, UT							
Aquatic Life	pH	5C			2.01	2012	L
E24R-10-DO - Bellview Creek							
Aquatic Life	Dissolved Oxygen	5C			3.31	2020	L
E24R-10-PH - Bellview Creek							
Aquatic Life	pH	5C			3.31	2020	L
E25E-31-PCB - Urbanna Creek							
Fish Consumption	PCBs in Fish Tissue	5A	0.452			2020	L
E25E-35-EBTOX - Parrotts Creek							
Aquatic Life	Sediment Bioassay	5A	0.153			2024	L
E25R-02-DO - Lagrange Creek							
Aquatic Life	Dissolved Oxygen	5C			2.5	2010	L
E25R-04-DO - South Branch Lagrange Creek							
Aquatic Life	Dissolved Oxygen	5A			0.4	2012	L
E25R-17-DO - Masons Mill Swamp							
Aquatic Life	Dissolved Oxygen	5C			3.37	2008	L
E26E-04-EBEN - Corrotoman River							
Aquatic Life	Estuarine Bioassessments	5A	6.955			2014	L
Aquatic Life	Estuarine Bioassessments	5A	2.249			2022	L
E26E-24-BAC - Whiting Creek							
Recreation	Enterococcus	5A	0.196			2012	L
E26E-57-EBTOX - Eastern Branch Carter Creek							
Aquatic Life	Sediment Bioassay	5A	0.084			2022	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
E26R-03-DO - Norris Prong							
Aquatic Life	Dissolved Oxygen	5C			2.47	2008	L
E26R-04-DO - Browns Creek							
Aquatic Life	Dissolved Oxygen	5C			2.59	2008	L

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Appendix 1a - 2024 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

Roanoke and Yadkin River Basins

Cause Group - Water Name		Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Impaired Use	Cause						
L01R-01-TEMP - Roanoke River, South Fork							
Aquatic Life	Temperature	5C			6.27	2004	L
Aquatic Life	Temperature	5C			6.43	2010	L
Aquatic Life	Temperature	5C			4.61	2012	L
L01R-02-TEMP - Bottom Creek							
Aquatic Life	Temperature	5C			4.51	2008	L
L01R-03-TEMP - Goose Creek							
Aquatic Life	Temperature	5C			2.3	2020	L
L02R-01-PH - Bradshaw Creek							
Aquatic Life	pH	5C			10.37	2010	L
L04R-01-HG - Roanoke River							
Fish Consumption	Mercury in Fish Tissue	5A			10.31	2010	L
L04R-03-BEN - Roanoke River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.17	2008	H
L04R-10-BEN - Wolf Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.52	2018	H
L05R-01-BEN - Tinker Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.37	2010	H
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.51	2018	H
L06R-01-BEN - Back Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.95	2014	L
L07L-01-PH - Beaverdam Reservoir							
Aquatic Life	pH	5C		66.93		2012	L
L07R-01-BEN - Beaverdam Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			10.35	2010	H
L07R-02-BAC - Merriman Run, UT (XUO)							
Recreation	Escherichia coli (E. coli)	5A			0.88	2020	L
L07R-04-BEN - Lynville Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.85	2020	L
L08R-01-TEMP - Green Creek							
Aquatic Life	Temperature	5C			4.1	2012	L
L08R-05-BEN - Little Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.88	2002	L
L08R-06-BEN - Teels Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.76	2002	L
L08R-07-BEN - Buck Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.77	2008	L
L09R-01-BEN - Maggodee Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.48	2002	L
L09R-01-TEMP - Maggodee Creek							
Aquatic Life	Temperature	5C			4.44	2008	L
L09R-02-BEN - Maggodee Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.43	2016	L
L10L-01-HG - Blackwater River							
Fish Consumption	Mercury in Fish Tissue	5A		524.8	8.23	2010	L
L10R-01-BEN - Blackwater River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.23	2008	L
L11R-03-PH - Jack-O-Lantern Branch, UT (XON)							
Aquatic Life	pH	5C			0.6	2020	L
L12R-01-BAC - Craddock Creek (XME)							
Recreation	Escherichia coli (E. coli)	5A			1.23	2012	L
L13L-03-DO - Leesville Lake							
Aquatic Life	Dissolved Oxygen	5A		2327.08		2022	L
L14R-01-BEN - Pigg River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.46	2012	H
L14R-02-BEN - Storey Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.83	2016	L
L15R-03-BEN - Upper North Fork Little Chestnut Creek							

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Appendix 1a - 2024 Impaired Waters - 303(d) List

Category 5 - Waters Needing Total Maximum Daily Load Study

Roanoke and Yadkin River Basins continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.85	2022	L
L17R-01-BEN - Poplar Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.57	2008	H
L18R-01-BEN - Fryingspan Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.56	2006	H
L18R-05-BEN - Jonnikin Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.53	2020	L
L19R-01-HG - Roanoke (Staunton) River, Cub Creek, Kerr Reservoir							
Fish Consumption	Mercury in Fish Tissue	5A		31884.62	97.46	2008	L
Fish Consumption	Mercury in Fish Tissue	5A			14.6	2018	L
L19R-04-BEN - Roanoke (Staunton) River, Unnamed tributary							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.1	2010	L
L21R-01-BEN - Wolf Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.13	2012	L
L21R-02-BEN - Bore Auger Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.73	2014	L
L21R-05-BEN - Stony Fork							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.43	2022	L
L24R-02-BEN - Oslin Creek, U.T. (XOJ)							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.75	2018	L
L24R-03-BEN - North Otter Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.05	2024	L
L26R-01-HG - Little Otter River							
Fish Consumption	Mercury in Fish Tissue	5A			14.62	2010	L
L27R-03-BEN - Falling Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.09	2018	L
L29R-01-BEN - Flat Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.21	2010	H
L31R-01-BEN - East Little Seneca Creek, Unnamed Tributary							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.5	2008	H
L34R-07-BEN - Entry Creek, Unnamed Tributary							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.69	2012	H
L35R-01-BEN - Mollys Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2	2010	H
L35R-02-BEN - Mollys Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			15.6	2024	H
L36R-04-BEN - Armistead Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.2	2014	L
L36R-05-BEN - Turnip Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.54	2022	L
L37R-05-BEN - Terrys Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.14	2022	L
L38L-01-DO - Conner Lake							
Aquatic Life	Dissolved Oxygen	5A		101.93		2018	L
L39R-03-BEN - Horsepen Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.32	2008	H
L39R-05-HG - Roanoke Creek							
Fish Consumption	Mercury in Fish Tissue	5A			10.51	2010	L
L39R-07-BEN - Little Roanoke Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			10.16	2010	H
L39R-08-BEN - Bush Ford Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.1	2010	L
L39R-09-BEN - Spencer Creek, UT							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.9	2014	H
L40R-01-BEN - Berles Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.28	2016	L
L40R-06-BEN - Buffalo Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.36	2014	L
L42L-01-DO - Talbott Reservoir							

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Appendix 1a - 2024 Impaired Waters - 303(d) List

Category 5 - Waters Needing Total Maximum Daily Load Study

Roanoke and Yadkin River Basins continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Aquatic Life	Dissolved Oxygen	5C		140.51		2020	L
L42L-01-HG - Talbott Reservoir							
Fish Consumption	Mercury in Fish Tissue	5A		140.51		2010	L
L42L-01-TEMP - Talbott Reservoir							
Aquatic Life	Temperature	5C		140.51		2020	L
L42L-06-DO - Townes Reservoir							
Aquatic Life	Dissolved Oxygen	5A		28.13		2024	L
L42R-01-TEMP - Dan River							
Aquatic Life	Temperature	5C			9.67	2002	L
Aquatic Life	Temperature	5C			5.81	2008	L
L43R-01-TEMP - South Mayo River							
Aquatic Life	Temperature	5C			4.74	2010	L
L45R-01-HG - South Mayo River							
Fish Consumption	Mercury in Fish Tissue	5A			10.98	2010	L
L47R-01-BEN - Horse Pasture Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.45	2010	L
L50R-01-TEMP - Smith River							
Aquatic Life	Temperature	5C			9.52	2002	L
Aquatic Life	Temperature	5C			1.45	2018	L
L51L-01-DO - Philpott Reservoir							
Aquatic Life	Dissolved Oxygen	5A		1221.36		2002	L
Aquatic Life	Dissolved Oxygen	5A		1592.19		2020	L
L51L-01-HG - Philpott Reservoir							
Fish Consumption	Mercury in Fish Tissue	5A		2813.55		2010	L
L51L-01-TEMP - Philpott Reservoir							
Aquatic Life	Temperature	5A		2813.55		2020	L
L51R-01-TEMP - Rennet Bag Creek							
Aquatic Life	Temperature	5C			11.55	2002	L
L51R-02-TEMP - Shooting Creek							
Aquatic Life	Temperature	5C			7.33	2008	L
L51R-03-TEMP - Smith River							
Aquatic Life	Temperature	5C			6.43	2016	L
L52R-04-BEN - Smith River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.87	2020	L
L53R-01-TEMP - Smith River							
Aquatic Life	Temperature	5A			6.52	2016	L
L53R-03-BEN - Beaver Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.98	2008	L
L53R-04-BEN - Jones Creek, UT (XMP)							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2	2006	L
L53R-05-BEN - Beaver Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.3	2016	L
L53R-06-BEN - Daniels Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.99	2016	L
L53R-07-BEN - Jones Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.36	2016	L
L54R-02-BEN - Machine Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.69	2010	L
L54R-03-BEN - Mulberry Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.6	2010	L
L57R-04-BEN - Cascade Creek and East Branch Cascade Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			11.82	2020	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.9	2022	L
L57R-05-BEN - Pumpkin Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.73	2020	L
L57R-06-HG - Dan River							
Fish Consumption	Mercury in Fish Tissue	5A			4.17	2020	L
L57R-07-FE - Dan River							
Public Water Supply	Iron	5A			2.52	2024	L
L57R-08-BEN - Upper Mountain Run and tributaries							

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Appendix 1a - 2024 Impaired Waters - 303(d) List

Category 5 - Waters Needing Total Maximum Daily Load Study

Roanoke and Yadkin River Basins continued...

Cause Group - Water Name Impaired Use Cause		Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.3	2024	L
L58R-01-BEN - Sandy River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.88	2024	L
L59R-02-BEN - Sandy Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.52	2022	L
L60R-01-HG - Dan River, Banister River and Hyco River							
Fish Consumption	Mercury in Fish Tissue	5A		1655.18	57.48	2008	L
Fish Consumption	Mercury in Fish Tissue	5A			5.45	2010	L
L60R-01-PCB - Dan River, Banister River and Hyco River							
Fish Consumption	PCBs in Fish Tissue	5A		1655.18	34.15	2002	L
Fish Consumption	PCBs in Fish Tissue	5A			14.8	2004	L
Fish Consumption	PCBs in Fish Tissue	5A			8.53	2006	L
Fish Consumption	PCBs in Fish Tissue	5A			5.45	2010	L
Fish Consumption	PCBs in Fish Tissue	5A			17.48	2018	L
Fish Consumption	PCBs in Fish Tissue	5A			6.69	2022	L
L60R-02-BEN - Pumpkin Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.28	2012	L
L60R-03-BEN - Cane Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			12.25	2012	L
L60R-04-BEN - Rutledge Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.37	2012	L
L61R-01-BEN - Fall Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			11.97	2014	L
L61R-01-HG - Fall Creek							
Fish Consumption	Mercury in Fish Tissue	5A			11.97	2010	L
L61R-02-BEN - Lawless Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.72	2018	L
L62R-06-BEN - Powells Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.63	2024	L
L62R-07-BEN - Wolfe Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.87	2008	L
L62R-10-BEN - Sandy Creek, Unnamed Tributary							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.29	2016	L
L63R-01-BEN - Birch Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			20.16	2016	L
L64R-02-BEN - Miry Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			13.08	2020	L
L64R-03-BEN - Grassy Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.83	2008	H
L64R-04-BEN - Poplar Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.05	2010	H
L64R-05-BEN - Reedy Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.92	2010	H
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
L65R-02-BEN - Bearskin Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.57	2010	L
L65R-04-BEN - Strawberry Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.96	2014	L
L66L-02-DO - Roaring Fork Reservoir							
Aquatic Life	Dissolved Oxygen	5A		19.58		2008	L
L66R-04-BEN - Cherrystone Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.1	2022	L
L67R-03-BEN - Elkhorn Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			12.92	2010	L
L67R-04-BEN - Bradley Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.47	2016	L
L67R-06-BEN - Shockoe Creek							

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Appendix 1a - 2024 Impaired Waters - 303(d) List

Category 5 - Waters Needing Total Maximum Daily Load Study

Roanoke and Yadkin River Basins continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.51	2022	L
L68R-01-BEN - Whitehorn Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			15.11	2016	L
L69R-02-BEN - Flybow Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.14	2022	L
L70R-02-BEN - Sweden Fork							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.64	2014	L
L70R-03-BEN - Bar Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.04	2016	L
L71L-01-HG - Banister Lake							
Fish Consumption	Mercury in Fish Tissue	5A		351.84		2022	L
L71R-05-BEN - Polecat Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.71	2016	L
L72R-01-BAC - Terrible Creek							
Recreation	Escherichia coli (E. coli)	5A			4.83	2014	L
L72R-01-BEN - Terrible Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.83	2014	L
L74R-05-BEN - Bowes Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.44	2008	L
L74R-08-BEN - Little Bluewing Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.92	2018	L
L75L-01-PCB - Kerr Reservoir							
Fish Consumption	PCBs in Fish Tissue	5A		31884.62		2002	L
L75L-02-DO - Kerr Reservoir							
Aquatic Life	Dissolved Oxygen	5A		24902.94		2022	L
L75L-03-TP - Kerr Reservoir							
Aquatic Life	Phosphorus, Total	5A		2440.31		2024	L
L75R-03-BEN - Beech Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.7	2016	L
L75R-04-BEN - Rocky Branch, Upper							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.08	2022	L
L76L-01-BAC - Buffalo Creek							
Recreation	Escherichia coli (E. coli)	5A		358.96		2020	L
L76R-01-BEN - Little Buffalo Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.51	2012	L
L76R-02-BAC - Buffalo Creek							
Recreation	Escherichia coli (E. coli)	5A			5.68	2018	L
L76R-02-BEN - Buffalo Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.68	2018	L
L77R-02-BEN - Bluestone Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			13.73	2014	L
L77R-03-BEN - Devils Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.57	2022	L
L77R-04-BEN - Popes Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.65	2024	L
L78R-03-BEN - Allen Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			15.28	2016	L
L78R-04-BEN - Cox Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			10.81	2008	L
L78R-04-DO - Cox Creek							
Aquatic Life	Dissolved Oxygen	5A			10.81	2004	L
L78R-04-PH - Cox Creek							
Aquatic Life	pH	5A			10.81	2006	L
L78R-06-BEN - Layton Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.65	2012	H
L78R-07-DO - Kettles Creek							
Aquatic Life	Dissolved Oxygen	5A			5.48	2012	L
L79L-02-CHLA - Lake Gordon							
Aquatic Life	Chlorophyll-a	5A		107.48		2016	L

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Appendix 1a - 2024 Impaired Waters - 303(d) List

Category 5 - Waters Needing Total Maximum Daily Load Study

Roanoke and Yadkin River Basins continued...

Cause Group - Water Name Impaired Use Cause		Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
L79L-02-HG - Lake Gordon							
Fish Consumption	Mercury in Fish Tissue	5A		107.48		2010	L
L79R-01-DO - Flat Creek							
Aquatic Life	Dissolved Oxygen	5A			1.69	2006	L
L79R-03-BAC - Miles Creek							
Recreation	Escherichia coli (E. coli)	5A			5.98	2016	L
L80L-01-HG - Lake Gaston							
Fish Consumption	Mercury in Fish Tissue	5A		4440.95	5.69	2022	L
Fish Consumption	Mercury in Fish Tissue	5A		1376.13		2024	L
L80L-01-PCB - Lake Gaston							
Fish Consumption	PCBs in Fish Tissue	5A		4440.95	5.69	2004	L
L80L-02-DO - Lake Gaston							
Aquatic Life	Dissolved Oxygen	5A		1369.25		2022	L
L80R-01-BEN - Great Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.69	2020	L
L81R-02-DO - Lizard Creek							
Aquatic Life	Dissolved Oxygen	5A			2.73	2022	L
L81R-03-BAC - Little Poplar Creek							
Recreation	Escherichia coli (E. coli)	5A			6.51	2016	L
L81R-03-BEN - Little Poplar Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.51	2020	L
L82R-01-BAC - Pea Hill Creek							
Recreation	Escherichia coli (E. coli)	5A			4.86	2016	L
M02L-01-DDD - Lovills Creek Lake							
Fish Consumption	DDD (Dichlorodiphenyldichloroethane)	5A		42.46		2010	L
M02L-01-DDE - Lovills Creek Lake							
Fish Consumption	DDE (Dichlorodiphenyldichloroethylene)	5A		42.46		2010	L
M02L-01-HG - Lovills Creek Lake							
Fish Consumption	Mercury in Fish Tissue	5A		42.46		2010	L
M02R-01-BAC - Lovills Creek, Stewarts Creek and Pauls Creek							
Recreation	Escherichia coli (E. coli)	5A			2.16	2008	L
Recreation	Escherichia coli (E. coli)	5A			2.06	2010	L
Recreation	Escherichia coli (E. coli)	5A			4.27	2020	L
M03R-01-BAC - Ararat River							
Recreation	Escherichia coli (E. coli)	5A			6.14	2010	L
M03R-01-HG - Ararat River							
Fish Consumption	Mercury in Fish Tissue	5A			6.14	2010	L
M03R-02-BAC - Johnson Creek							
Recreation	Escherichia coli (E. coli)	5A			9.16	2014	L

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Category 5 - Waters Needing Total Maximum Daily Load Study

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						
K01R-01-BEN - Middle Meherrin River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			11.26	2014	L
K01R-03-BEN - Finneywood Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.12	2008	L
K01R-04-BEN - Blackstone Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.47	2018	L
K01R-05-BEN - Kitts Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.76	2020	L
K02R-01-BEN - North Meherrin River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.55	2010	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.64	2014	L
K02R-04-BEN - Couches Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.38	2010	L
K03R-01-BEN - Flat Rock Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			20.09	2014	L
K03R-06-BEN - Mason Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.05	2014	L
K03R-09-BEN - Kettlesticks Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.1	2024	L
K05R-05-DO - Hays Creek							
Aquatic Life	Dissolved Oxygen	5C			6.39	2010	L
K05R-06-BEN - Little Genito Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			12.06	2010	L
K07R-03-BEN - Rocky Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			21.28	2008	L
K08L-01-HGFT - Emporia Lake (Meherrin Reservoir)							
Fish Consumption	Mercury in Fish Tissue	5A		263.68		2014	L
K08L-02-CHLA - Brunswick Lake							
Aquatic Life	Chlorophyll-a	5A		160.33		2016	L
K08R-03-BAC - Wilson Creek							
Recreation	Escherichia coli (E. coli)	5A			2.75	2012	L
K08R-03-BEN - Wilson Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.75	2016	L
K08R-04-BAC - XII - UT to Dukes Branch							
Recreation	Escherichia coli (E. coli)	5A			1.71	2016	L
K08R-05-BAC - Dukes Branch							
Recreation	Escherichia coli (E. coli)	5A			2.58	2016	L
K08R-06-BAC - Greensville Creek							
Recreation	Escherichia coli (E. coli)	5A			3.78	2020	L
K09R-01-BAC - Meherrin River							
Recreation	Escherichia coli (E. coli)	5A			26.76	2016	L
Recreation	Escherichia coli (E. coli)	5A			2.27	2018	L
K09R-01-HGFT - Meherrin River, Fontaine Creek, Mill Swamp							
Fish Consumption	Mercury in Fish Tissue	5A			67.76	2010	L
K09R-01-PCBFT - Meherrin River							
Fish Consumption	PCBs in Fish Tissue	5A			26.76	2004	L
K10R-01-DO - Rattlesnake Creek							
Aquatic Life	Dissolved Oxygen	5C			17.19	2010	L
K10R-02-DO - Fontaine Creek (Fountains Creek)							
Aquatic Life	Dissolved Oxygen	5C			16.64	2010	L
K10R-03-DO - Quarrel Creek							
Aquatic Life	Dissolved Oxygen	5C			3.34	2010	L
K10R-03-PH - Quarrel Creek							
Aquatic Life	pH	5C			3.34	2016	L
K10R-04-DO - Beddingfield Creek							
Aquatic Life	Dissolved Oxygen	5C			4.18	2010	L
K10R-06-PH - Rocky Run							
Aquatic Life	pH	5C			0.87	2010	L

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Appendix 1a - 2024 Impaired Waters - 303(d) List

Category 5 - Waters Needing Total Maximum Daily Load Study

Chowan River and Dismal Swamp Basins continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
K11R-05-DO - Beaverpond Creek							
Aquatic Life	Dissolved Oxygen	5C			3.35	2010	L
K11R-06-PH - XGV - Fontaine Creek, UT							
Aquatic Life	pH	5C			1.95	2010	L
K11R-08-DO - XGU - Fontaine Creek, UT							
Aquatic Life	Dissolved Oxygen	5C			1.82	2010	L
K11R-08-PH - XGU - Fontaine Creek, UT							
Aquatic Life	pH	5C			1.82	2010	L
K13R-05-BAC - Meherrin River (Lower)							
Recreation	Escherichia coli (E. coli)	5A			4.53	2020	L
K14L-02-HGFT - Nottoway Falls Lake							
Fish Consumption	Mercury in Fish Tissue	5A		32.2		2010	L
K14R-02-BEN - Big Hounds Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			10.34	2020	L
K14R-04-BAC - Nottoway River							
Recreation	Escherichia coli (E. coli)	5A			7.27	2020	L
K14R-05-BAC - Falls Creek							
Recreation	Escherichia coli (E. coli)	5A			5.29	2020	L
K14R-06-BEN - UT to Big Hounds Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.57	2020	L
K15L-01-HGFT - Nottoway Pond							
Fish Consumption	Mercury in Fish Tissue	5A		50.7		2010	L
K15R-04-BEN - Mallorys Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.12	2014	L
K15R-06-BEN - Little Nottoway River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.09	2018	L
K16L-01-DO - Fort Barfoot Reservoir (formerly Fort Pickett)							
Aquatic Life	Dissolved Oxygen	5A		318.95		2018	L
K16L-01-TP - Fort Barfoot Reservoir (formerly Fort Pickett)							
Aquatic Life	Phosphorus, Total	5A		318.95		2012	L
K16R-03-DO - Hurricane Branch							
Aquatic Life	Dissolved Oxygen	5C			2	2020	L
K16R-06-BAC - Tommeheton Creek							
Recreation	Escherichia coli (E. coli)	5A			7.63	2016	L
K16R-06-DO - Tommeheton Creek							
Aquatic Life	Dissolved Oxygen	5C			7.63	2010	L
K16R-07-BAC - Seay Creek							
Recreation	Escherichia coli (E. coli)	5A			7.5	2020	L
K16R-07-BEN - Seay Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.5	2014	L
K17R-01-BAC - Nottoway River							
Recreation	Escherichia coli (E. coli)	5A			9.99	2010	L
K17R-02-BAC - Waqua Creek							
Recreation	Escherichia coli (E. coli)	5A			9.62	2012	L
K17R-03-BAC - Waqua Creek							
Recreation	Escherichia coli (E. coli)	5A			5.59	2016	L
K17R-04-BAC - Great Creek							
Recreation	Escherichia coli (E. coli)	5A			5.45	2016	L
K17R-05-BAC - Reedy Creek							
Recreation	Escherichia coli (E. coli)	5A			6.03	2016	L
K17R-05-DO - Reedy Creek							
Aquatic Life	Dissolved Oxygen	5C			6.03	2016	L
K17R-06-BAC - Turkey Egg Creek							
Recreation	Escherichia coli (E. coli)	5A			5.64	2016	L
K17R-07-DO - Hickory Run							
Aquatic Life	Dissolved Oxygen	5C			4.95	2016	L
K17R-07-PH - Hickory Run							
Aquatic Life	pH	5C			4.95	2016	L
K19R-01-BAC - Masons Branch							

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Category 5 - Waters Needing Total Maximum Daily Load Study

Chowan River and Dismal Swamp Basins continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Recreation	Escherichia coli (E. coli)	5A			2.12	2012	L
K19R-03-BAC - Buckskin Creek							
Recreation	Escherichia coli (E. coli)	5A			3.46	2010	L
K19R-03-DO - Buckskin Creek							
Aquatic Life	Dissolved Oxygen	5C			1.96	2012	L
K19R-04-HGFT - Nottoway River and Tributaries							
Fish Consumption	Mercury in Fish Tissue	5A			113.63	2008	L
Fish Consumption	Mercury in Fish Tissue	5A			72.99	2010	L
Fish Consumption	Mercury in Fish Tissue	5A			10.76	2020	L
Fish Consumption	Mercury in Fish Tissue	5A			2.53	2024	L
K19R-05-BEN - XEJ - Nottoway River, UT							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.88	2008	L
K19R-05-DO - UT to Nottoway River							
Aquatic Life	Dissolved Oxygen	5A			2.88	2024	L
K19R-06-BAC - Nottoway River							
Recreation	Escherichia coli (E. coli)	5A			13.84	2020	L
K19R-07-DO - XAD - Buckskin Creek, UT							
Aquatic Life	Dissolved Oxygen	5C			2.9	2012	L
K19R-08-DO - XHW - Buckskin Creek, UT							
Aquatic Life	Dissolved Oxygen	5C			1.63	2012	L
K19R-09-BAC - XHX - Buckskin Creek, UT							
Recreation	Escherichia coli (E. coli)	5A			2.66	2012	L
K19R-10-BAC - XHY - Buckskin Creek, UT							
Recreation	Escherichia coli (E. coli)	5A			1.61	2012	L
K19R-11-BAC - Moores Swamp							
Recreation	Escherichia coli (E. coli)	5A			4.98	2016	L
K20R-02-BAC - White Oak Swamp							
Recreation	Escherichia coli (E. coli)	5A			14.83	2018	L
K20R-02-DO - White Oak Swamp							
Aquatic Life	Dissolved Oxygen	5C			14.83	2018	L
K20R-02-PH - White Oak Swamp							
Aquatic Life	pH	5C			14.83	2018	L
K21R-03-HGFT - Stony Creek							
Fish Consumption	Mercury in Fish Tissue	5A			8.36	2010	L
K21R-05-BAC - Mortar Branch							
Recreation	Escherichia coli (E. coli)	5A			6.13	2014	L
K21R-06-BAC - Stony Creek							
Recreation	Escherichia coli (E. coli)	5A			8.36	2016	L
K21R-07-PH - Chamberlains Bed							
Aquatic Life	pH	5C			1.33	2016	L
K21R-08-DO - Chamberlains Bed							
Aquatic Life	Dissolved Oxygen	5C			2.83	2016	L
K21R-08-PH - Chamberlains Bed							
Aquatic Life	pH	5C			2.83	2016	L
K22R-03-BAC - Sappony Creek							
Recreation	Escherichia coli (E. coli)	5A			11.87	2006	L
K22R-04-BAC - Sappony Creek							
Recreation	Escherichia coli (E. coli)	5A			4.35	2016	L
K23R-01-BAC - Arthur Swamp							
Recreation	Escherichia coli (E. coli)	5A			4.67	2016	L
K23R-04-BAC - Jones Hole Swamp/Moores Swamp and all tributaries							
Recreation	Escherichia coli (E. coli)	5A			70.68	2010	L
K23R-05-BAC - Gosee Swamp and Tributaries							
Recreation	Escherichia coli (E. coli)	5A			27.72	2014	L
K23R-09-BAC - Fox Branch							
Recreation	Escherichia coli (E. coli)	5A			3.46	2018	L
K23R-10-BAC - Rowanty Creek							
Recreation	Escherichia coli (E. coli)	5A			14.08	2012	L
K23R-11-BAC - Hatcher Run							
Recreation	Escherichia coli (E. coli)	5A			16.22	2020	L

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Category 5 - Waters Needing Total Maximum Daily Load Study

Chowan River and Dismal Swamp Basins continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
K23R-12-BAC - Warren Swamp							
Recreation	Escherichia coli (E. coli)	5A			1.22	2020	L
K23R-13-BAC - Joseph Swamp, UT							
Recreation	Escherichia coli (E. coli)	5A			1.39	2020	L
K24R-03-BAC - Hunting Quarter Swamp							
Recreation	Escherichia coli (E. coli)	5A			16.68	2008	L
Recreation	Escherichia coli (E. coli)	5A			56.97	2020	L
K24R-04-BAC - Nottoway River							
Recreation	Escherichia coli (E. coli)	5A			19.17	2016	L
K24R-05-BAC - Thweatt Branch and Tributaries							
Recreation	Escherichia coli (E. coli)	5A			7.27	2016	L
K26R-01-DO - Three Creek							
Aquatic Life	Dissolved Oxygen	5C			6.55	2018	L
K27R-03-BEN - Applewhite Swamp							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.17	2008	L
K27R-05-BEN - Three Creek - Upper							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.17	2006	L
K28R-01-DO - Mill Swamp							
Aquatic Life	Dissolved Oxygen	5C			10.49	2024	L
K28R-01-PH - Mill Swamp							
Aquatic Life	pH	5C			10.49	2012	L
K28R-02-BEN - Buckhorn Swamp							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.68	2008	L
K28R-04-BEN - Unnamed Tributary to Mill Swamp							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.85	2014	L
K28R-05-BAC - Buckhorn Swamp							
Recreation	Escherichia coli (E. coli)	5A			4.23	2012	L
K28R-05-DO - Buckhorn Swamp							
Aquatic Life	Dissolved Oxygen	5C			4.23	2014	L
K28R-05-PH - Buckhorn Swamp							
Aquatic Life	pH	5C			4.23	2016	L
K28R-06-BAC - Nottoway Swamp							
Recreation	Escherichia coli (E. coli)	5A			8.13	2018	L
K28R-06-DO - Nottoway Swamp							
Aquatic Life	Dissolved Oxygen	5C			8.13	2012	L
K28R-07-BAC - Nottoway River - Upper							
Recreation	Escherichia coli (E. coli)	5A			4.45	2020	L
K29R-02-BAC - Assamoosick Swamp							
Recreation	Escherichia coli (E. coli)	5A			2.44	2010	L
K29R-03-BAC - XGT - Assamoosick Swamp, UT							
Recreation	Escherichia coli (E. coli)	5A			1.93	2010	L
K30R-01-DO - Darden Mill Run							
Aquatic Life	Dissolved Oxygen	5C			10.72	2002	L
K30R-01-PCB - Nottoway River -Lower Middle							
Fish Consumption	PCBs in Fish Tissue	5A			10.96	2020	L
K30R-01-PH - Darden Mill Run							
Aquatic Life	pH	5C			10.72	2004	L
K30R-02-DO - Nottoway River - Lower							
Aquatic Life	Dissolved Oxygen	5A			4.54	2014	L
K30R-02-PCB - Nottoway River - Lower							
Fish Consumption	PCBs in Fish Tissue	5A			4.54	2020	L
K32R-01-BEN - Blackwater River - Lower							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.33	2008	L
K32R-13-HGFT - Blackwater River Basin							
Fish Consumption	Mercury in Fish Tissue	5A			36.2	2004	L
Fish Consumption	Mercury in Fish Tissue	5A			26.83	2006	L
Fish Consumption	Mercury in Fish Tissue	5A			1313.43	2008	L
Fish Consumption	Mercury in Fish Tissue	5A			419.01	2010	L
Fish Consumption	Mercury in Fish Tissue	5A			4.76	2012	L
K32R-18-BEN - Blackwater River, UT							

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Appendix 1a - 2024 Impaired Waters - 303(d) List

Category 5 - Waters Needing Total Maximum Daily Load Study

Chowan River and Dismal Swamp Basins continued...

Cause Group - Water Name Impaired Use Cause		Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.13	2008	L
K33R-02-BAC - Blackwater River - Middle							
Recreation	Escherichia coli (E. coli)	5A			1.04	2012	L
K33R-02-BEN - Blackwater River - Upper							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			19.11	2008	L
K33R-03-BEN - Blackwater River - Lower and Burnt Mills Swamp							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.19	2008	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.17	2012	L
K35L-01-DO - Airfield Pond							
Aquatic Life	Dissolved Oxygen	5C		120.07		2008	L
K35L-01-HG - Airfield Pond							
Fish Consumption	Mercury in Fish Tissue	5A		120.07		2010	L
K35R-02-BAC - Seacock Swamp - Lower							
Recreation	Fecal Coliform	5A			2.6	2004	L
K35R-02-BEN - Seacock Swamp - Lower							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.6	2008	L
K35R-03-BAC - UT Seacock Swamp							
Recreation	Fecal Coliform	5A			1.02	2004	L
K35R-05-BAC - UT Airfield Pond - Upper							
Recreation	Escherichia coli (E. coli)	5A			0.68	2004	L
K35R-06-BAC - Seacock Swamp - Upper and Lower							
Recreation	Escherichia coli (E. coli)	5A			2.5	2012	L
Recreation	Fecal Coliform	5A			0.85	2006	L
K35R-07-BAC - Roundhill Swamp							
Recreation	Escherichia coli (E. coli)	5A			4.03	2020	L
K35R-08-BEN - Round Hill Swamp							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.64	2008	L
K36R-02-BEN - Black Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.96	2008	L
K36R-03-BAC - Black Creek- Upper							
Recreation	Escherichia coli (E. coli)	5A			3.29	2010	L
K36R-04-BAC - Cypress Swamp							
Recreation	Escherichia coli (E. coli)	5A			5.17	2012	L
K36R-04-BEN - Unsegmented Tributary to Blackwater							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.75	2008	L
K36R-07-BAC - Blackwater River - Upper							
Recreation	Escherichia coli (E. coli)	5A			2.47	2016	L
K36R-08-BAC - Ducks Swamp							
Recreation	Escherichia coli (E. coli)	5A			2.61	2018	L
K36R-09-BAC - Black Creek							
Recreation	Escherichia coli (E. coli)	5A			4.96	2020	L
K38R-01-BEN - Somerton Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.39	2006	L
K38R-02-BAC - March Swamp							
Recreation	Escherichia coli (E. coli)	5A			7.72	2008	L
K38R-04-BAC - Jones Swamp							
Recreation	Escherichia coli (E. coli)	5A			3.8	2014	L
K38R-06-BAC - Somerton Creek							
Recreation	Escherichia coli (E. coli)	5A			9.39	2016	L
K38R-07-DO - Jones Swamp							
Aquatic Life	Dissolved Oxygen	5C			3.8	2018	L
K39L-01-HG - Lake Drummond							
Fish Consumption	Mercury in Fish Tissue	5A		3241.97		2006	L
K39L-01-PH - Lake Drummond							
Aquatic Life	pH	5C		3241.97		2008	L
K39R-01-HG - Dismal Swamp Canal & Feeder Ditch to Lake Drummond							
Fish Consumption	Mercury in Fish Tissue	5A			13.21	2004	L
Fish Consumption	Mercury in Fish Tissue	5A			4.3	2024	L
K39R-02-HG - Unsegmented rivers in K39R							
Fish Consumption	Mercury in Fish Tissue	5A			15.28	2010	L

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Category 5 - Waters Needing Total Maximum Daily Load Study

Chowan River and Dismal Swamp Basins continued...

Cause Group - Water Name Impaired Use Cause		Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
K39R-03-BAC - Adams Swamp							
Recreation	Escherichia coli (E. coli)	5A			3	2018	L
K39R-03-DO - Adams Swamp							
Aquatic Life	Dissolved Oxygen	5C			3	2018	L
K39R-03-PH - Adams Swamp							
Aquatic Life	pH	5C			3	2018	L
K39R-04-DO - Cypress Swamp							
Aquatic Life	Dissolved Oxygen	5A			4.56	2020	L
K40R-02-BAC - Northwest River - Middle (PWS)							
Recreation	Escherichia coli (E. coli)	5A			5.69	2006	L
K40R-04-BAC - Northwest River - Lower (PWS)							
Recreation	Escherichia coli (E. coli)	5A			2.83	2016	L
K40R-04-HG - Northwest River - Middle							
Fish Consumption	Mercury in Fish Tissue	5A			5.69	2010	L
K40R-08-BAC - Unnamed tributary to Northwest River (PWS)							
Recreation	Escherichia coli (E. coli)	5A			4.06	2006	L
K40R-09-BAC - Indian Creek tributary to Northwest River							
Recreation	Escherichia coli (E. coli)	5A			3.46	2006	L
K41R-01-BEN - Pocaty River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.43	2010	L
K41R-05-PCB - West Neck Creek - Middle							
Fish Consumption	PCBs in Fish Tissue	5A			3.4	2010	L
K41R-12-BEN - Unnamed Trib to Milldam Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.66	2012	L
K41R-12-DO - Unnamed Trib to Milldam Creek							
Aquatic Life	Dissolved Oxygen	5A			0.66	2014	L
K41R-13-DO - Blackwater Creek							
Aquatic Life	Dissolved Oxygen	5A			4.47	2008	L
K41R-15-BAC - West Neck Creek - Lower							
Recreation	Escherichia coli (E. coli)	5A			6.12	2006	L
K42E-07-DO - Beggars Bridge Creek							
Aquatic Life	Dissolved Oxygen	5A	0.042			2010	L

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Appendix 1a - 2024 Impaired Waters - 303(d) List

Category 5 - Waters Needing Total Maximum Daily Load Study

Tennessee and Big Sandy River Basins

Cause Group - Water Name Impaired Use Cause		Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
O01R-02-PH - Hurricane Creek Tributary							
Aquatic Life	pH	5A			1.12	2010	L
O02R-01-HG - South Fork Holston River							
Fish Consumption	Mercury in Fish Tissue	5A			6.14	2010	L
O02R-03-HG - Beaverdam Creek							
Fish Consumption	Mercury in Fish Tissue	5A			2.02	2010	L
O04L-01-HG - Hungry Mother Lake							
Fish Consumption	Mercury in Fish Tissue	5A		103.23		2010	L
O05R-02-BEN - Greenway Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.02	2010	H
O06L-01-DO - South Holston Lake							
Aquatic Life	Dissolved Oxygen	5A		1699.98		2022	L
O06L-01-HG - South Holston Lake							
Fish Consumption	Mercury in Fish Tissue	5A		1699.98		2010	L
O06L-01-PCB - South Holston Lake							
Fish Consumption	PCBs in Fish Tissue	5A		1699.98		2010	L
O06R-01-PCB - Wolf Creek							
Fish Consumption	PCBs in Fish Tissue	5A			6.67	2006	L
O06R-02-BAC - Fifteen Mile Creek and Tributaries							
Recreation	Escherichia coli (E. coli)	5A			12.93	2008	L
O06R-02-BEN - Fifteen Mile Creek Tributary							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.33	2022	L
O06R-03-BAC - Spring Creek							
Recreation	Escherichia coli (E. coli)	5A			4.44	2008	L
O06R-06-BAC - Cox Mill Creek							
Recreation	Escherichia coli (E. coli)	5A			3.51	2018	L
O07R-01-PCB - Beaver Creek and Little Creek							
Fish Consumption	PCBs in Fish Tissue	5A			17.35	2006	L
O07R-04-BAC - Sinking Creek							
Recreation	Escherichia coli (E. coli)	5A			3.8	2012	L
O07R-05-BAC - Stoffel Creek							
Recreation	Escherichia coli (E. coli)	5A			5.22	2012	L
O08R-01-BAC - Boozy Creek							
Recreation	Escherichia coli (E. coli)	5A			2.54	2012	L
O10R-01-PCB - North Fork Holston River							
Fish Consumption	PCBs in Fish Tissue	5A			82.06	1996	L
O10R-01-PH - Little Tumbling Creek							
Aquatic Life	pH	5A			11.02	2020	L
O10R-05-BEN - Laurel Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.65	2002	L
O10R-08-TEMP - Little Tumbling Creek							
Aquatic Life	Temperature	5A			11.02	2020	L
O11L-02-TEMP - Laurel Bed Lake							
Aquatic Life	Temperature	5C		359.43		2010	L
O11L-03-HG - Laurel Bed Lake							
Fish Consumption	Mercury in Fish Tissue	5A		359.43		2024	L
O12R-03-BEN - Greendale Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.03	2010	H
O12R-04-BEN - Rich Valley Unnamed Tributary							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.85	2020	H
O13R-02-BEN - North Fork Holston River Tributaries							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.85	2022	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.79	2024	L
P01L-03-HG - Lake Witten							
Fish Consumption	Mercury in Fish Tissue	5A		53.17		2010	L
P03R-01-BEN - Big Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.39	2010	L
P03R-02-HG - Clinch River							

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Category 5 - Waters Needing Total Maximum Daily Load Study

Tennessee and Big Sandy River Basins continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Fish Consumption	Mercury in Fish Tissue	5A			5.55	2010	L
P04R-01-TEMP - Mill Creek							
Aquatic Life	Temperature	5A			3.22	2022	L
P04R-02-BEN - Swords Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.92	2006	L
P04R-03-BEN - Mill Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.22	2014	L
P04R-04-BEN - Big Lick Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.21	2020	L
P06R-02-BEN - Little Cedar Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.04	2020	H
P07R-02-BEN - Mill Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.85	2014	H
P09L-01-HG - Bark Camp Lake							
Fish Consumption	Mercury in Fish Tissue	5A		41.07		2010	L
P09R-02-BAC - Clinch River							
Recreation	Escherichia coli (E. coli)	5A			4.22	2012	L
P09R-08-BAC - Cowan Creek							
Recreation	Escherichia coli (E. coli)	5A			4.16	2018	L
P11R-03-PCB - Guest River and Bear Creek							
Fish Consumption	PCBs in Fish Tissue	5A			6.09	2004	L
Fish Consumption	PCBs in Fish Tissue	5A			19.88	2006	L
P11R-12-PH - Mill Creek							
Aquatic Life	pH	5A			2.24	2020	L
P12R-01-PH - Bark Camp Branch							
Aquatic Life	pH	5A			3.07	2010	L
P12R-02-PH - Devil Fork							
Aquatic Life	pH	5A			4.4	2014	L
P13R-01-BEN - Unnamed Tributary to Clinch River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.01	2024	L
P13R-02-PCB - Stock Creek							
Fish Consumption	PCBs in Fish Tissue	5A			4.79	2004	L
P14R-02-BEN - Blackoak Branch Tributary							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.76	2012	H
P14R-03-BEN - Obeys Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.51	2020	H
P15R-01-BEN - Dry Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.22	2018	L
P17R-00-BEN - Dark Hollow							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.41	2004	L
P17R-00-PH - Dark Hollow							
Aquatic Life	pH	5A			1.41	2012	L
P17R-04-BEN - Unnamed tributary to Callahan Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.58	2016	L
P17R-11-BEN - Powell River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.47	2014	L
P17R-12-BEN - Powell River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1	2010	L
P17R-14-PH - Roaring Branch							
Aquatic Life	pH	5A			2.92	2018	L
P17R-15-BEN - Canepatch Creek and Roaring Fork Headwaters							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			18.88	2014	L
P18L-01-HG - Big Cherry Reservoir							
Fish Consumption	Mercury in Fish Tissue	5A		104.01		2010	L
P18R-04-BAC - Beaverdam Creek							
Recreation	Escherichia coli (E. coli)	5A			4.04	2018	L
P20L-01-HG - Lake Keokee							
Fish Consumption	Mercury in Fish Tissue	5A		96.22		2010	L
P20L-01-TEMP - Lake Keokee							

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Category 5 - Waters Needing Total Maximum Daily Load Study

Tennessee and Big Sandy River Basins continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Aquatic Life	Temperature	5A		96.22		2020	L
P20R-01-TEMP - North Fork Powell River							
Aquatic Life	Temperature	5A			7.67	2016	L
P20R-04-BEN - North Fork Powell River Tributaries							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.23	2014	L
P21R-02-BAC - Hardy Creek							
Recreation	Escherichia coli (E. coli)	5A			12.52	2006	L
P21R-04-BAC - Dry Creek							
Recreation	Escherichia coli (E. coli)	5A			8.87	2012	L
P21R-05-BAC - Town Creek							
Recreation	Escherichia coli (E. coli)	5A			3.74	2012	L
P23R-02-BAC - Martin Creek							
Recreation	Escherichia coli (E. coli)	5A			9.66	2008	L
P23R-03-BAC - Fourmile Creek							
Recreation	Escherichia coli (E. coli)	5A			2.37	2014	L
P23R-04-BAC - Powell River							
Recreation	Escherichia coli (E. coli)	5A			8.47	2020	L
P24R-01-BAC - Indian Creek							
Recreation	Escherichia coli (E. coli)	5A			8.19	2008	L
Recreation	Escherichia coli (E. coli)	5A			4.45	2014	L
P24R-02-BAC - Station Creek							
Recreation	Escherichia coli (E. coli)	5A			3.12	2018	L
Q01R-01-BAC - Dry Fork							
Recreation	Escherichia coli (E. coli)	5A			11.61	2018	L
Q01R-02-BAC - Jacobs Fork and Tributaries							
Recreation	Escherichia coli (E. coli)	5A			2.35	2010	L
Q01R-03-BEN - Beech Fork							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.68	2020	L
Q03R-02-PCB - Knox Creek and Tributaries							
Fish Consumption	PCBs in Fish Tissue	5A			186.12	2004	L
Fish Consumption	PCBs in Fish Tissue	5A			14.71	2006	L
Q03R-03-BAC - Pawpaw Creek							
Recreation	Escherichia coli (E. coli)	5A			4.23	2010	L
Q06R-01-BEN - Big Prater Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.11	2022	L
Q08R-06-BEN - State Line Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.36	2014	L
Q08R-07-BEN - Home Creek Headwaters							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.8	2014	L
Q08R-08-BEN - Conaway Creek Tributaries							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.14	2014	L
Q09R-01-BAC - Russell Fork and Tributaries							
Recreation	Escherichia coli (E. coli)	5A			8.88	2004	L
Recreation	Escherichia coli (E. coli)	5A			2.25	2006	L
Recreation	Escherichia coli (E. coli)	5A			12.68	2010	L
Recreation	Escherichia coli (E. coli)	5A			3.9	2012	L
Recreation	Escherichia coli (E. coli)	5A			4.56	2018	L
Recreation	Escherichia coli (E. coli)	5A			2.09	2020	L
Q09R-01-BEN - Indian Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.7	2012	L
Q10R-01-BEN - Fryingspan Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.45	2012	L
Q10R-02-BEN - Little Pawpaw Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.93	2020	L
Q11R-02-BEN - Wakenva Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.8	2014	L
Q11R-04-BEN - Cowan Rose Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.3	2014	L
Q11R-05-BEN - Dismal Fork							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.52	2014	L

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Category 5 - Waters Needing Total Maximum Daily Load Study

Tennessee and Big Sandy River Basins continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Q12R-01-BAC - Russell Prater Creek							
Recreation	Escherichia coli (E. coli)	5A			11.72	2008	L
Q12R-01-TEMP - Russell Fork							
Aquatic Life	Temperature	5A			2.25	2020	L
Q12R-05-BEN - Middle Fork (Hunts Creek)							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.93	2014	L
Q12R-06-BEN - Grassy Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.09	2020	L
Q13L-01-DO - John Flannagan Reservoir							
Aquatic Life	Dissolved Oxygen	5A		1177.22		2022	L
Q13L-01-HG - John Flannagan Reservoir							
Fish Consumption	Mercury in Fish Tissue	5A		1177.22		2010	L
Q13L-02-DO - North Fork Pound Reservoir							
Aquatic Life	Dissolved Oxygen	5C		115.61		2024	L
Q13R-03-BAC - Pound River, North Fork Pound River, and Tributaries							
Recreation	Escherichia coli (E. coli)	5A			3.23	2006	L
Recreation	Escherichia coli (E. coli)	5A			16.94	2008	L
Recreation	Escherichia coli (E. coli)	5A			5.53	2022	L
Q13R-03-TEMP - North Fork Pound River							
Aquatic Life	Temperature	5C			1.3	2010	L
Q13R-04-BEN - Pound River Tributaries							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.98	2012	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.23	2024	L
Q13R-06-BEN - Pound River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			16.94	2004	L
Q13R-08-BAC - Indian Creek							
Recreation	Escherichia coli (E. coli)	5A			2.98	2020	L
Q13R-09-BAC - Big Branch							
Recreation	Escherichia coli (E. coli)	5A			1.47	2014	L
Q13R-09-BEN - North Fork Pound River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.3	2010	L
Q13R-10-BAC - South Fork Pound River							
Recreation	Escherichia coli (E. coli)	5A			5.81	2014	L
Recreation	Escherichia coli (E. coli)	5A			3.44	2016	L
Q14R-01-BAC - Cranesnest River and Tributaries							
Recreation	Escherichia coli (E. coli)	5A			7.53	2004	L
Recreation	Escherichia coli (E. coli)	5A			12.93	2010	L
Recreation	Escherichia coli (E. coli)	5A			6.34	2020	L
Q14R-01-BEN - Birchfield Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.52	2010	L
Q14R-02-BEN - Dotson Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.82	2012	L
Q14R-03-BEN - Left Fork Rush Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.41	2022	L

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Appendix 1a - 2024 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group - Water Name		Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Impaired Use	Cause						
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-10-EBTOX - Cockrell Creek							
Aquatic Life	Sediment Bioassay	5A	0.612			2020	L
C01E-17-PCB - Chesapeake Bay and Tidal Tributaries							
Fish Consumption	PCBs in Fish Tissue	5A	1546.768			2006	L
Fish Consumption	PCBs in Fish Tissue	5A	0.025			2010	L
Fish Consumption	PCBs in Fish Tissue	5A	0.003			2012	L
C01E-72-EBTOX - Great Wicomico River							
Aquatic Life	Sediment Bioassay	5A	0.557			2024	L
C01R-01-BAC - Crabbe Mill Stream							
Recreation	Escherichia coli (E. coli)	5A			3.91	2012	L
C01R-01-DO - Crabbe Mill Stream							
Aquatic Life	Dissolved Oxygen	5C			3.91	2012	L
C01R-01-PH - Crabbe Mill Stream							
Aquatic Life	pH	5C			3.91	2012	L
C01R-02-BEN - Dymer Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.07	2014	L
C02R-03-HG - Dragon Swamp/Piankatank River							
Fish Consumption	Mercury in Fish Tissue	5A	2.661			2004	L
Fish Consumption	Mercury in Fish Tissue	5A			31.97	2006	L
Fish Consumption	Mercury in Fish Tissue	5A	0.062			2008	L
C03E-10-EBEN - Piankatank River							
Aquatic Life	Estuarine Bioassessments	5A	1.167			2006	L
Aquatic Life	Estuarine Bioassessments	5A	0.785			2008	L
Aquatic Life	Estuarine Bioassessments	5A	17.118			2014	L
Aquatic Life	Estuarine Bioassessments	5A	1.108			2022	L
C03E-24-PH - Dragon Swamp							
Aquatic Life	pH	5C	0.823			2022	L
C04E-65-SF - North River, UT							
Shellfishing	Fecal Coliform	5B	0.01			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	0.006			2018	L
Aquatic Life	Sediment Bioassay	5A	0.041			2022	L
Aquatic Life	Sediment Bioassay	5A	0.056			2024	L
C04R-01-DO - East River							
Aquatic Life	Dissolved Oxygen	5C			0.59	2012	L
C04R-01-PH - East River							
Aquatic Life	pH	5C			0.59	2012	L
C06E-01-BAC - Northwest Branch Severn River							
Recreation	Enterococcus	5A	0.127			2010	L
Recreation	Enterococcus	5A	0.594			2016	L
C07E-01-PCB - Chesapeake Bay & Tidal Tributaries VDH Fish Consumption Advisory for PCBs							
Fish Consumption	PCBs in Fish Tissue	5A	16.029			2006	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
C07E-33-EBEN - Northwest Br. Back River - Upper near Marsh Point							
Aquatic Life	Estuarine Bioassessments	5A	0.669			2010	L
C07E-43-BAC - Buckroe Beaches							
Recreation	Enterococcus	5A	0.224			2016	L
C07E-46-EBEN - Northwest Br. Back River - Lower							

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Appendix 1a - 2024 Impaired Waters - 303(d) List

Category 5 - Waters Needing Total Maximum Daily Load Study

Chesapeake Bay/Atlantic/Small Coastal Basins continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Aquatic Life	Estuarine Bioassessments	5A	0.539			2018	L
C07E-51-EBEN - Southwest Br. Back River							
Aquatic Life	Estuarine Bioassessments	5A	0.424			2020	L
C07L-01-CU - Harwoods Mill Reservoir							
Aquatic Life	Copper	5A		257.69		2004	L
Wildlife	Copper	5A		257.69		2004	L
C07L-02-DO - Harwoods Mill Reservoir (PWS)							
Aquatic Life	Dissolved Oxygen	5A		257.69		2004	L
C07R-01-DO - Newmarket Creek - Lower Riverine							
Aquatic Life	Dissolved Oxygen	5A			3.96	2006	L
C07R-03-BEN - UT to Big Bethel Reservoir							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.91	2018	L
C08E-01-EBEN - LYNPH							
Aquatic Life	Estuarine Bioassessments	5A	7.936			2008	L
C08E-01-PCB - Eastern Branch -Lynnhaven River System VDH Fish Consumption Advisory							
Fish Consumption	PCBs in Fish Tissue	5A	0.353			2006	H
Fish Consumption	PCBs in Fish Tissue	5A	3.599			2006	L
C08E-14-BAC - Sara Constance Park, East End							
Recreation	Enterococcus	5A	0.14			2014	L
C08E-15-BAC - 13th View Beach							
Recreation	Enterococcus	5A	0.353			2016	L
C08E-19-BAC - 10th View Beach							
Recreation	Enterococcus	5A	0.152			2020	L
C08E-20-BAC - North Community Beach							
Recreation	Enterococcus	5A	0.044			2024	L
C08E-22-BAC - Long Creek							
Recreation	Enterococcus	5A	0.316			2020	L
C08E-23-BAC - Linkhorn Bay-Upper							
Recreation	Enterococcus	5A	0.004			2020	L
C08E-24-BAC - Ches Bay Beaches							
Recreation	Enterococcus	5A	0.612			2024	L
C08E-26-BAC - Shore Drive Beaches - Lesner Bridge East and First Landing State Park							
Recreation	Enterococcus	5A	0.138			2024	L
C08L-01-CHLA - Lake Whitehurst							
Aquatic Life	Chlorophyll-a	5A		482.29		2010	L
C08L-01-DO - Lake Whitehurst							
Aquatic Life	Dissolved Oxygen	5A		482.29		2008	L
C08L-01-HG - Lake Whitehurst							
Fish Consumption	Mercury in Fish Tissue	5A		482.29		2008	L
C08L-01-PCB - Lake Whitehurst VDH Fish Consumption Advisory							
Fish Consumption	PCBs in Fish Tissue	5A		482.29		2006	L
C08L-01-TP - Lake Whitehurst							
Aquatic Life	Phosphorus, Total	5A		482.29		2010	L
C08L-03-CHLA - Little Creek Reservoir							
Aquatic Life	Chlorophyll-a	5A		199.8		2010	L
C08L-03-PCB - Little Creek Reservoir VDH Fish Consumption Advisory							
Fish Consumption	PCBs in Fish Tissue	5A		199.8		2008	L
C08L-03-TP - Little Creek Reservoir							
Aquatic Life	Phosphorus, Total	5A		199.8		2010	L
C08L-04-CHLA - Lake Smith							
Aquatic Life	Chlorophyll-a	5A		184.89		2010	L
C08L-04-TP - Lake Smith							
Aquatic Life	Phosphorus, Total	5A		184.89		2010	L
C08L-06-HG - Lake Trashmore - Western Pond VDH Fish Consumption Advisory for Mercury							
Fish Consumption	Mercury in Fish Tissue	5A		54.4		2006	L
C08L-06-PCB - Lake Trashmore - Western Pond VDH Fish Consumption Advisory for PCBs							
Fish Consumption	PCBs in Fish Tissue	5A		54.4		2006	L
C08L-07-DO - Lake Wright							
Aquatic Life	Dissolved Oxygen	5A		15.63		2014	L

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Appendix 1a - 2024 Impaired Waters - 303(d) List

Category 5 - Waters Needing Total Maximum Daily Load Study

Chesapeake Bay/Atlantic/Small Coastal Basins continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
C08R-01-BAC - Little Neck Creek							
Recreation	Escherichia coli (E. coli)	5A			1.12	2020	L
C09R-02-PH - Unnamed tributary to Pitts Creek							
Aquatic Life	pH	5A			5.42	2006	L
C10E-02-BAC - Muddy Creek - Upper							
Recreation	Enterococcus	5A	0.301			2006	L
C10E-02-SF - Tyler Creek, Shanks Creek, Tangier Sound							
Shellfishing	Fecal Coliform	5B	2.169			2018	L
C10E-20-SF - Muddy Creek - Upper							
Shellfishing	Fecal Coliform	5B	0.044			2006	L
C10E-25-SF - Muddy Creek - Lower							
Shellfishing	Fecal Coliform	5B	0.014			2020	L
C10E-31-BAC - Gaurd Shore Beach							
Recreation	Enterococcus	5A	0.019			2022	L
C10R-03-BEN - Guilford Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.86	2008	L
C11E-02-EBEN - Onancock Creek Mainstem							
Aquatic Life	Estuarine Bioassessments	5A	0.129			2024	L
C11E-14-SF - Onancock Mainstem Upper & UT							
Shellfishing	Fecal Coliform	5B	0.016			2022	L
C11E-15-SF - Matchotank Cr							
Shellfishing	Fecal Coliform	5B	0.069			2022	L
C11E-20-SF - Chesconessex Creek - Pompco Creek							
Shellfishing	Fecal Coliform	5A	0.043			2024	L
C11E-25-SF - Parkers Creek - Upper							
Shellfishing	Fecal Coliform	5B	0.035			2020	L
C11E-26-SF - Parkers Creek - Middle & Lower							
Shellfishing	Fecal Coliform	5B	0.041			2020	L
Shellfishing	Fecal Coliform	5B	0.086			2022	L
C11E-27-SF - Pompco Cr- SW inlet of UT off of Rogue Island							
Shellfishing	Fecal Coliform	5B	0.01			2020	L
C11R-01-BAC - Joynes Branch							
Recreation	Escherichia coli (E. coli)	5A			2.37	2008	L
C12R-01-BEN - Taylor Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.91	2004	L
C12R-02-BEN - Bull Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.25	2008	L
C12R-03-BAC - Taylor Creek							
Recreation	Escherichia coli (E. coli)	5A			0.91	2020	L
C13E-24-EBEN - Church Creek							
Aquatic Life	Estuarine Bioassessments	5A	0.32			2022	L
C13R-01-BEN - Taylor Branch - Occohannock Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.32	2008	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
D01E-02-DO - Little Mosquito Creek							
Aquatic Life	Dissolved Oxygen	5A	0.138			2004	H
Aquatic Life	Dissolved Oxygen	5A	0.07			2008	H
D01E-04-DO - Swan Gut Creek							
Aquatic Life	Dissolved Oxygen	5A	0.1			2004	L
D01E-19-EBEN - Chincoteague Bay							
Aquatic Life	Estuarine Bioassessments	5A	0.016			2020	L
D02E-01-DO - Assawoman Creek- Upper/Lower							
Aquatic Life	Dissolved Oxygen	5A	0.063			2004	H
Aquatic Life	Dissolved Oxygen	5A	0.073			2008	H
D02R-02-BAC - Assawoman Creek							
Recreation	Escherichia coli (E. coli)	5A			1.03	2020	L

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Appendix 1a - 2024 Impaired Waters - 303(d) List

Category 5 - Waters Needing Total Maximum Daily Load Study

Chesapeake Bay/Atlantic/Small Coastal Basins continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
D03E-01-BAC - Gargathy Creek - Upper & Lower							
Recreation	Enterococcus	5A	0.13			2024	L
D03E-07-BAC - Wachapreague Channel							
Recreation	Enterococcus	5A	0.026			2008	L
D03E-08-DO - Northam Creek							
Aquatic Life	Dissolved Oxygen	5A	0.028			2004	L
D03R-01-DO - Rattrap Creek							
Aquatic Life	Dissolved Oxygen	5A			1.51	2022	L
Aquatic Life	Dissolved Oxygen	5A			3.13	2024	L
D03R-03-BEN - Ross Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.2	2002	H
D03R-04-BEN - Unnamed tributary to Folly Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.53	2002	H
D03R-05-BEN - Rattrap Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.74	2012	H
D03R-06-BEN - North Fork							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.13	2016	H
D03R-07-BEN - Custis Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.23	2016	H
D04E-01-DO - Red Bank Creek-Upper							
Aquatic Life	Dissolved Oxygen	5A	0.002			2004	L
D04E-02-DO - Unnamed tributary to Red Bank Creek							
Aquatic Life	Dissolved Oxygen	5A	0.009			2020	L
D04E-09-DO - Quinby Harbor-Upshur Bay							
Aquatic Life	Dissolved Oxygen	5A	3.389			2020	L
D04E-11-EBEN - Machipongo River-Middle							
Aquatic Life	Estuarine Bioassessments	5A	0.134			2020	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
D04R-01-DO - Red Bank Creek							
Aquatic Life	Dissolved Oxygen	5C			1.37	2016	L
D04R-03-BEN - Frogstool Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.28	2024	L
D05E-01-HG - Oyster Slip (Harbor) - Upper							
Fish Consumption	Mercury in Fish Tissue	5A	0.034			2010	L
D05R-01-BAC - Taylor Creek							
Recreation	Escherichia coli (E. coli)	5A			1.26	2002	L
D05R-02-BAC - Holt Creek							
Recreation	Escherichia coli (E. coli)	5A			1.75	2004	L
D05R-03-BAC - Holt Creek Unnamed Tributary							
Recreation	Escherichia coli (E. coli)	5A			1.42	2004	L
D05R-03-BEN - Holt Creek Unnamed Tributary							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.42	2012	L
D06E-01-DO - Magothy Bay - Lower							
Aquatic Life	Dissolved Oxygen	5A	0.037			2004	L
D06E-02-PCB - Raccoon Creek							
Fish Consumption	PCBs in Fish Tissue	5A	0.004			2010	L
D06E-03-EBEN - Magothy Bay - Middle							
Aquatic Life	Estuarine Bioassessments	5A	0.785			2024	L
D06R-02-BAC - Narrow Channel Branch							
Recreation	Escherichia coli (E. coli)	5A			1.85	2004	L
D06R-02-BEN - Narrow Channel Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.85	2004	L
D06R-02-DO - Narrow Channel Branch							
Aquatic Life	Dissolved Oxygen	5A			1.85	2014	L
D06R-03-BAC - Tommy's Ditch							
Recreation	Escherichia coli (E. coli)	5A			1.45	2008	L

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Appendix 1a - 2024 Impaired Waters - 303(d) List

Category 5 - Waters Needing Total Maximum Daily Load Study

Chesapeake Bay/Atlantic/Small Coastal Basins continued...

Cause Group - Water Name Impaired Use Cause		Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
D06R-04-BAC - Mill Creek							
Recreation	Escherichia coli (E. coli)	5A			2.24	2020	L
D07E-04-BAC - Owl Creek - Upper							
Recreation	Enterococcus	5A	0.001			2002	L
D07E-04-DO - Owl Creek - Upper							
Aquatic Life	Dissolved Oxygen	5A	0.001			2006	L
D07E-11-BAC - Lake Wesley - Upstream Branches							
Recreation	Enterococcus	5A	0.016			2020	L
D07E-12-BAC - Lake Rudee - Upper (northwest trib.)							
Recreation	Enterococcus	5A	0.006			2020	L
MOBPH-EBEN-BAY - Chesapeake Bay segment MOBPHb							
Aquatic Life	Estuarine Bioassessments	5A	0.669			2010	L
Aquatic Life	Estuarine Bioassessments	5A	0.539			2018	L
Aquatic Life	Estuarine Bioassessments	5A	0.424			2020	L
Aquatic Life	Estuarine Bioassessments	5A	6.241			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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Appendix 1a - 2024 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

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						
F01L-01-HG - Lake Gordonsville							
Fish Consumption	Mercury in Fish Tissue	5A		77.31		2006	L
F01R-02-BEN - Wheeler Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.01	2008	L
F01R-03-BEN - Camp Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.02	2012	L
F01R-04-BEN - South Anna River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			8.15	2020	L
F02L-01-DO - Northeast Creek Reservoir							
Aquatic Life	Dissolved Oxygen	5A		183.79		2022	L
F02R-01-BEN - Fosters Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.92	2018	L
F03R-01-BEN - Cub Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.1	2014	L
F03R-02-BEN - Taylors Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			16.54	2016	L
F03R-03-BEN - Fork Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.33	2018	L
F03R-03-DO - Cub Creek							
Aquatic Life	Dissolved Oxygen	5A			3.1	2008	L
F03R-04-BEN - South Branch Fork Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.06	2018	L
F03R-05-BEN - Unnamed tributary to Taylors Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.43	2018	L
F03R-06-BEN - Mill Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.25	2024	L
F04R-03-DO - Stag Creek							
Aquatic Life	Dissolved Oxygen	5C			6.56	2008	L
F04R-03-PH - Stag Creek							
Aquatic Life	pH	5C			6.56	2016	L
F05R-01-BEN - Newfound River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			10.96	2018	L
F06R-01-BEN - North Anna River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.8	2018	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.44	2024	L
F06R-04-BAC - North Anna River							
Recreation	Escherichia coli (E. coli)	5A			3.79	2006	L
Recreation	Escherichia coli (E. coli)	5A			2.8	2010	L
Recreation	Escherichia coli (E. coli)	5A			2.65	2022	L
F06R-05-BAC - Christopher Creek							
Recreation	Escherichia coli (E. coli)	5A			1.99	2010	L
F06R-06-BAC - Hickory Creek							
Recreation	Escherichia coli (E. coli)	5A			1.72	2012	L
F06R-08-BAC - Duckinghoe Creek							
Recreation	Escherichia coli (E. coli)	5A			6.98	2016	L
F06R-10-BAC - Hickory Creek							
Recreation	Escherichia coli (E. coli)	5A			0.69	2018	L
F07L-01-HAB - Lake Anna							
Recreation	Harmful Algal Blooms	5A		3138.2		2022	H
F07L-01-HG - Lake Anna							
Fish Consumption	Mercury in Fish Tissue	5A		1563.36		2010	L
F07L-01-PAHHMW - Gold Mine Creek							
Fish Consumption	Benzo[a]pyrene (PAHs)	5A		91.63	7.53	2010	L
F07L-01-PCB - Lake Anna and Contrary Creek, Goldmine Creek, and Terrys Run tributaries							
Fish Consumption	PCBs in Fish Tissue	5A		2128.06		2002	L
Fish Consumption	PCBs in Fish Tissue	5A		7468.8	23.08	2006	L
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A		1233.83		2010	L
F07L-01-PH - Lake Orange							
Aquatic Life	pH	5C		124.85		2022	L

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Appendix 1a - 2024 Impaired Waters - 303(d) List

Category 5 - Waters Needing Total Maximum Daily Load Study

York River Basin continued...

Cause Group - Water Name Impaired Use Cause		Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
F07R-01-BEN - Pamunkey Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			7.22	2012	L
F07R-01-DO - Church Run							
Aquatic Life	Dissolved Oxygen	5A			0.72	2022	L
F07R-02-BEN - Plentiful Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.3	2022	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-CD - Contrary Creek							
Aquatic Life	Cadmium	5A		27.87	5.52	2008	L
Wildlife	Cadmium	5A		27.87	5.52	2008	L
F08R-01-CU - Contrary Creek							
Aquatic Life	Copper	5A		27.87	5.52	2008	L
Wildlife	Copper	5A		27.87	5.52	2008	L
F08R-01-PH - Contrary Creek							
Aquatic Life	pH	5A			5.52	2002	L
Aquatic Life	pH	5A		27.87		2008	L
F08R-01-TL - Contrary Creek							
Fish Consumption	Thallium	5A			5.52	2024	L
F08R-01-ZN - Contrary Creek							
Aquatic Life	Zinc	5A		27.87	5.52	2008	L
Wildlife	Zinc	5A		27.87	5.52	2008	L
F09R-02-BEN - XHS - North Anna River, UT							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.09	2008	L
F09R-03-PH - XIM - North Anna River, UT							
Aquatic Life	pH	5C			0.7	2010	L
F09R-04-PH - Mill Creek							
Aquatic Life	pH	5C			4.37	2012	L
F09R-05-PH - XJP - North Anna River, UT							
Aquatic Life	pH	5C			1.01	2016	L
F10R-02-DO - Long Creek							
Aquatic Life	Dissolved Oxygen	5A			5.16	2014	L
F11R-01-BEN - Locust Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.6	2010	L
F11R-01-DO - Little River							
Aquatic Life	Dissolved Oxygen	5A			6.3	2008	L
F11R-02-PH - Beaverdam Creek							
Aquatic Life	pH	5A			8.48	2012	L
F12R-05-DO - Mechumps Creek							
Aquatic Life	Dissolved Oxygen	5A			1.06	2010	L
F12R-05-PH - Mechumps Creek							
Aquatic Life	pH	5A			1.06	2006	L
F12R-07-PH - Crump Creek							
Aquatic Life	pH	5C			10	2010	L
F12R-10-PH - Millpond Creek							
Aquatic Life	pH	5C			3.03	2012	L
F12R-11-PH - Kersey Creek							
Aquatic Life	pH	5C			3.33	2012	L
F12R-12-PH - XJC - Crump Creek, UT							
Aquatic Life	pH	5C			1.96	2012	L
F12R-13-DO - Pollard Creek							
Aquatic Life	Dissolved Oxygen	5C			4.21	2020	L
F12R-13-PH - Pollard Creek							
Aquatic Life	pH	5C			4.21	2012	L

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Appendix 1a - 2024 Impaired Waters - 303(d) List

Category 5 - Waters Needing Total Maximum Daily Load Study

York River Basin continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
F13R-04-PCB - Moncuin Creek, Webb Creek							
Fish Consumption	PCBs in Fish Tissue	5A			12.12	2010	L
F13R-07-PH - Jacks Creek							
Aquatic Life	pH	5A			7.52	2018	L
F13R-09-PH - XDX - UT to XDW (Pamunkey River, UT)							
Aquatic Life	pH	5C			3.85	2012	L
F13R-11-PH - XDW - UT to Pamunkey River							
Aquatic Life	pH	5A			5.51	2012	L
F13R-12-PH - Judy Swamp							
Aquatic Life	pH	5C			3.34	2012	L
F13R-13-HG - Pamunkey River							
Fish Consumption	Mercury in Fish Tissue	5A	1.09		11.56	2006	L
Fish Consumption	Mercury in Fish Tissue	5A	9.423			2010	L
F13R-13-PCB - Pamunkey River							
Fish Consumption	PCBs in Fish Tissue	5A	10.513		11.56	2010	L
F13R-14-PH - XIV - Mehixen Creek, UT							
Aquatic Life	pH	5C			2.04	2012	L
F14E-04-EBEN - York-, Pamunkey-, and Mattaponi Rivers							
Aquatic Life	Estuarine Bioassessments	5A	28.651			2018	L
F14E-05-EBEN - Pamunkey River							
Aquatic Life	Estuarine Bioassessments	5A	0.113			2010	L
F14E-07-EBEN - Pamunkey River							
Aquatic Life	Estuarine Bioassessments	5A	0.584			2020	L
F14R-01-DO - Cohoke Mill Creek							
Aquatic Life	Dissolved Oxygen	5C			7.39	2010	L
F14R-02-DO - Harrison Creek							
Aquatic Life	Dissolved Oxygen	5C			2.8	2014	L
F14R-04-PH - XJD - Harrison Creek, UT							
Aquatic Life	pH	5C			0.16	2012	L
F14R-05-DO - Mill Creek							
Aquatic Life	Dissolved Oxygen	5A			0.78	2022	L
F15R-01-BEN - Ni River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.69	2010	L
F15R-01-DO - Brock Run							
Aquatic Life	Dissolved Oxygen	5A			2.57	2012	L
F15R-01-PH - Brock Run							
Aquatic Life	pH	5A			3.22	2014	L
F16R-01-BEN - Gladly Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.31	2022	L
F17L-01-HG - Bowies Pond							
Fish Consumption	Mercury in Fish Tissue	5A		25.72		2008	L
F17R-02-PH - Unnamed Tributary to Poni River							
Aquatic Life	pH	5C			3.6	2018	L
F18R-02-DO - Bluff Run							
Aquatic Life	Dissolved Oxygen	5A			3.07	2020	L
F18R-03-BEN - Matta River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.24	2008	L
F19R-02-PH - Hobby Swamp							
Aquatic Life	pH	5C			1.28	2020	L
F20R-01-BEN - Polecat Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.24	2014	L
F20R-01-DO - Polecat Creek							
Aquatic Life	Dissolved Oxygen	5C			4.34	2018	L
F21R-01-BAC - Boot Swamp							
Recreation	Escherichia coli (E. coli)	5A			1.68	2020	L
F21R-01-BEN - Herring Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.64	2008	L
F21R-01-HG - Herring Creek							
Fish Consumption	Mercury in Fish Tissue	5A			7.23	2006	L

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Appendix 1a - 2024 Impaired Waters - 303(d) List

Category 5 - Waters Needing Total Maximum Daily Load Study

York River Basin continued...

Cause Group - Water Name Impaired Use Cause		Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
F21R-02-BEN - Reedy Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.3	2014	L
F21R-02-HG - Mattaponi River							
Fish Consumption	Mercury in Fish Tissue	5A	3.723		15.7	2006	L
Fish Consumption	Mercury in Fish Tissue	5A	3.242			2010	L
F21R-03-HG - Reedy Creek and Reedy Millpond							
Fish Consumption	Mercury in Fish Tissue	5A		41.25	12.84	2010	L
F21R-04-PH - Chapel Creek							
Aquatic Life	pH	5C			4.65	2008	L
Aquatic Life	pH	5C			3.94	2018	L
F21R-07-BAC - Mattaponi River							
Recreation	Escherichia coli (E. coli)	5A			8.87	2018	L
F22L-01-HG - Collins Pond							
Fish Consumption	Mercury in Fish Tissue	5A		63.93		2010	L
F22R-02-PH - Root Swamp							
Aquatic Life	pH	5C			7.84	2006	L
F22R-03-DO - Unnamed tributary to Root Swamp							
Aquatic Life	Dissolved Oxygen	5C			0.7	2006	L
F22R-03-PH - Unnamed tributary to Root Swamp							
Aquatic Life	pH	5C			0.7	2006	L
F22R-04-PH - Beverly Run							
Aquatic Life	pH	5C			2.58	2008	L
F22R-05-PH - Doctors Creek							
Aquatic Life	pH	5C			2.33	2008	L
F22R-06-PH - Maracossic Creek							
Aquatic Life	pH	5C			6.77	2018	L
F23R-03-DO - Walkerton Branch							
Aquatic Life	Dissolved Oxygen	5C			4.63	2006	L
F23R-03-PH - Walkerton Branch							
Aquatic Life	pH	5C			4.63	2004	L
F23R-05-BEN - Fleets Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.01	2018	L
F23R-06-PCB - Mattaponi River							
Fish Consumption	PCBs in Fish Tissue	5A	0.159		4.72	2006	L
Fish Consumption	PCBs in Fish Tissue	5A	6.806		10.98	2010	L
F23R-16-DO - Mill Creek							
Aquatic Life	Dissolved Oxygen	5A			0.41	2022	L
F24R-03-DO - Courthouse Creek							
Aquatic Life	Dissolved Oxygen	5A			0.72	2014	L
F25R-01-DO - Tastine Swamp and Little Tastine Swamp							
Aquatic Life	Dissolved Oxygen	5C			6.26	2016	L
F25R-02-DO - Tastine Swamp							
Aquatic Life	Dissolved Oxygen	5C			2.16	2010	L
F26E-01-PCB - York River, Queens Creek, Kings Creek, Wormley							
Fish Consumption	PCBs in Fish Tissue	5A	0.503			2002	L
Fish Consumption	PCBs in Fish Tissue	5A	57.34			2006	L
F26E-06-SF - Fox Creek							
Shellfishing	Fecal Coliform	5B	0.016			2006	L
F26E-10-SF - Carter Creek							
Shellfishing	Fecal Coliform	5B	0.025			2004	L
F26E-30-SF - Purtan & Leigh Creeks							
Shellfishing	Fecal Coliform	5B	0.125			2018	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
F26L-02-HAB - Woodstock Pond							
Recreation	Harmful Algal Blooms	5A		7.57		2022	L
F26R-01-BAC - Carter Creek							
Recreation	Fecal Coliform	5A			3.39	2004	L

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Appendix 1a - 2024 Impaired Waters - 303(d) List
Category 5 - Waters Needing Total Maximum Daily Load Study

York River Basin continued...

Cause Group - Water Name								
Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority	
F26R-01-BEN - Carter Creek								
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.39	2004	L	
F26R-02-BEN - XEA - Bland Creek, UT								
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.23	2008	L	
F26R-04-BEN - Bird Creek								
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.47	2012	L	
F27E-06-BAC - York River - Yorktown Beach								
Recreation	Enterococcus	5A	0.024			2024	L	
YRKMH-EBEN-BAY - Adams Creek - Upper and the lower York River								
Aquatic Life	Estuarine Bioassessments	5A	2.125			2018	L	
Aquatic Life	Estuarine Bioassessments	5A	0.116			2020	L	
Aquatic Life	Estuarine Bioassessments	5A	0.133			2022	L	
YRKPH-EBEN-BAY - York River - BIBI YRKPHa segments								
Aquatic Life	Estuarine Bioassessments	5A	25.752			2004	L	
Aquatic Life	Estuarine Bioassessments	5A	0.042			2006	L	
Aquatic Life	Estuarine Bioassessments	5A	0.408			2010	L	
Aquatic Life	Estuarine Bioassessments	5A	0.202			2018	L	
Aquatic Life	Estuarine Bioassessments	5A	0.076			2022	L	

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Appendix 1a - 2024 Impaired Waters - 303(d) List

Category 5 - Waters Needing Total Maximum Daily Load Study

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
N01R-02-BAC - Little Helton Creek							
Recreation	Escherichia coli (E. coli)	5A			6.31	2010	L
N02R-01-TEMP - Wilson Creek							
Aquatic Life	Temperature	5A			13.54	2020	L
N02R-02-BAC - New River, Bridle Creek and Grassy Creek							
Recreation	Escherichia coli (E. coli)	5A			12.6	2010	L
Recreation	Escherichia coli (E. coli)	5A			5.98	2012	L
Recreation	Escherichia coli (E. coli)	5A			1.14	2014	L
Recreation	Escherichia coli (E. coli)	5A			0.43	2020	L
N02R-02-HG - New River							
Fish Consumption	Mercury in Fish Tissue	5A			25.08	2006	L
Fish Consumption	Mercury in Fish Tissue	5A			1.48	2008	L
Fish Consumption	Mercury in Fish Tissue	5A			3.61	2010	L
Fish Consumption	Mercury in Fish Tissue	5A			2.15	2024	L
N02R-03-BAC - Wilson Creek and Little Wilson Creek							
Recreation	Escherichia coli (E. coli)	5A			8.91	2010	L
Recreation	Escherichia coli (E. coli)	5A			4.63	2018	L
Recreation	Escherichia coli (E. coli)	5A			7.58	2020	L
N03R-01-BAC - Fox Creek and Tributaries							
Recreation	Escherichia coli (E. coli)	5A			19.13	2010	L
N04R-01-BEN - Brush Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.62	2022	L
N04R-02-BAC - Little River							
Recreation	Escherichia coli (E. coli)	5A			6.55	2012	L
N04R-03-BAC - Peach Bottom Creek and Rock Creek							
Recreation	Escherichia coli (E. coli)	5A			2.81	2006	L
Recreation	Escherichia coli (E. coli)	5A			13.88	2012	L
Recreation	Escherichia coli (E. coli)	5A			5.34	2016	L
N04R-07-BAC - Saddle Creek							
Recreation	Escherichia coli (E. coli)	5A			3.17	2006	L
N05R-01-BEN - Elk Creek and Turkey Fork							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			9.38	2008	H
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6	2018	H
N06R-03-BAC - Meadow Creek & New River							
Recreation	Escherichia coli (E. coli)	5A			5.38	2004	L
Recreation	Escherichia coli (E. coli)	5A			10.54	2010	L
Recreation	Escherichia coli (E. coli)	5A			5.03	2014	L
N07R-01-BAC - Crooked Creek							
Recreation	Escherichia coli (E. coli)	5A			27.91	2010	L
N08R-01-BAC - New River, Mill Creek, and Pine Run							
Recreation	Escherichia coli (E. coli)	5A			0.61	2006	L
Recreation	Escherichia coli (E. coli)	5A			3.06	2008	L
Recreation	Escherichia coli (E. coli)	5A			5.82	2010	L
Recreation	Escherichia coli (E. coli)	5A			13.09	2016	L
Recreation	Escherichia coli (E. coli)	5A			6.51	2024	L
N08R-02-BEN - Shorts Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			10.39	2022	L
N08R-03-BAC - Shorts Creek and Unnamed Tributary							
Recreation	Escherichia coli (E. coli)	5A			10.96	2010	L
Recreation	Escherichia coli (E. coli)	5A			3.31	2012	L
N08R-03-BEN - Mill Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			4.38	2024	L
N09R-03-BEN - Dean Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.92	2016	L
N10R-01-TEMP - Mill Creek							
Aquatic Life	Temperature	5A			6.39	2020	L
N10R-02-BEN - Mill Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.39	2018	L
N11R-02-BEN - Reed Creek tributary							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.67	2010	L

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Appendix 1a - 2024 Impaired Waters - 303(d) List

Category 5 - Waters Needing Total Maximum Daily Load Study

New River Basin continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
N13R-01-BAC - Big Reed Island Creek							
Recreation	Escherichia coli (E. coli)	5A			19.85	2008	H
Recreation	Escherichia coli (E. coli)	5A			6.65	2018	H
N13R-01-BEN - Big Reed Island Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			19.85	2008	H
N13R-01-TEMP - Big Reed Island Creek							
Aquatic Life	Temperature	5A			6.65	2018	H
Aquatic Life	Temperature	5A			19.85	2020	H
N13R-02-BAC - Snake Creek							
Recreation	Escherichia coli (E. coli)	5A			3.55	2014	L
N14R-01-BAC - Big Reed Island Creek							
Recreation	Escherichia coli (E. coli)	5A			13.82	2010	H
Recreation	Escherichia coli (E. coli)	5A			7.55	2018	H
N14R-01-TEMP - Big Reed Island Creek							
Aquatic Life	Temperature	5A			7.55	2018	H
N14R-02-BAC - Greasy Creek							
Recreation	Escherichia coli (E. coli)	5A			13.64	2008	H
N14R-03-BAC - Island Creek							
Recreation	Escherichia coli (E. coli)	5A			13.35	2018	L
N15R-01-BAC - Little Reed Island Creek							
Recreation	Escherichia coli (E. coli)	5A			35.99	2008	H
N15R-01-TEMP - Little Reed Island Creek							
Aquatic Life	Temperature	5A			19.71	2008	H
Aquatic Life	Temperature	5A			5.28	2020	H
N16L-01-BAC - Claytor Lake							
Recreation	Escherichia coli (E. coli)	5A		1932.1		2022	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-02-BAC - Connellys Run							
Recreation	Escherichia coli (E. coli)	5A			2.85	2010	L
N18R-04-BEN - Walnut Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			1.86	2024	L
N20R-04-BEN - Dodd Creek, Unnamed Tributary (XEM)							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			0.71	2018	L
N21R-09-BEN - UT Eckels Branch and tributaries							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			3.52	2024	L
N22R-02-BAC - Stroubles Creek							
Recreation	Escherichia coli (E. coli)	5A			5.09	2006	L
Recreation	Escherichia coli (E. coli)	5A			2.12	2010	L
N22R-04-BAC - Toms Creek							
Recreation	Escherichia coli (E. coli)	5A			6.14	2014	L
Recreation	Escherichia coli (E. coli)	5A			5.71	2020	L
N22R-04-TEMP - Toms Creek							
Aquatic Life	Temperature	5C			5.71	2008	L
Aquatic Life	Temperature	5C			6.14	2012	L
Aquatic Life	Temperature	5C			4.56	2014	L
N22R-05-BAC - New River							
Recreation	Escherichia coli (E. coli)	5A			9.81	2016	L
Recreation	Escherichia coli (E. coli)	5A			13.31	2020	L
N22R-06-BEN - Unnamed Tributaries XEJ and XEH to Slate Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			2.51	2008	L
N23R-01-BAC - Sinking Creek							
Recreation	Escherichia coli (E. coli)	5A			21.04	2010	L
N26R-01-BEN - Nobusiness Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			6.73	2022	L
N26R-04-PH - Nobusiness Creek							
Aquatic Life	pH	5A			5.46	2024	L
N27R-01-BAC - Little Walker Creek							
Recreation	Escherichia coli (E. coli)	5A			17.48	2006	L
N30R-02-BEN - Unnamed Tributary to Station Spring Creek							

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Category 5 - Waters Needing Total Maximum Daily Load Study

New River Basin continued...

Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Aquatic Life	Benthic Macroinvertebrates Bioassessments	5A			5.49	2022	L
N32R-01-TEMP - Wolf Creek							
Aquatic Life	Temperature	5C			7.91	2014	L
N33R-01-BAC - Dry Fork and Laurel Creek							
Recreation	Escherichia coli (E. coli)	5A			5.24	2012	L
Recreation	Escherichia coli (E. coli)	5A			1.64	2024	L
N34R-01-BAC - Rich Creek							
Recreation	Escherichia coli (E. coli)	5A			2.85	2008	L
N35R-01-BAC - Adair Run							
Recreation	Escherichia coli (E. coli)	5A			0.37	2010	L
N36R-01-CDANE - Bluestone River							
Fish Consumption	Chlordane	5A			0.62	2004	L
N36R-01-PCB - Bluestone River & Tributaries							
Fish Consumption	PCBs in Fish Tissue	5A			13.64	2002	H
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A			1.48	2010	H
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A			2.99	2012	H
Fish Consumption	Polychlorinated biphenyls (PCBs)	5A			3.63	2022	H

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.