

Virginia Department of Environmental Quality
Appendix 1c - 2024 Impaired Waters (Category 4A/4D) TMDL Approved
and (Category 4B) Other Control Measures Present

Potomac and Shenandoah River Basins

Cause Group - Water Name		Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Impaired Use	Cause						
A01R-01-BAC - Piney Run							
Recreation	Escherichia coli (E. coli)	4A			3.94	2006	L
A02R-01-BAC - Catoctin Creek							
Recreation	Escherichia coli (E. coli)	4A			7.49	2006	L
A02R-02-BAC - North Fork Catoctin Creek							
Recreation	Escherichia coli (E. coli)	4A			2.54	2004	L
Recreation	Escherichia coli (E. coli)	4A			3.43	2008	L
Recreation	Escherichia coli (E. coli)	4A			4.42	2010	L
A02R-02-BEN - North Fork Catoctin Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			4.42	2008	L
A02R-03-BAC - South Fork Catoctin Creek							
Recreation	Escherichia coli (E. coli)	4A			11.67	1996	L
Recreation	Escherichia coli (E. coli)	4A			3.23	2002	L
Recreation	Escherichia coli (E. coli)	4A			3.59	2004	L
A02R-05-BAC - Milltown Creek							
Recreation	Escherichia coli (E. coli)	4A			3.9	2006	L
A02R-06-BAC - Unnamed tributary to Catoctin Creek							
Recreation	Escherichia coli (E. coli)	4A			4.35	2006	L
A03R-01-BAC - Limestone Branch							
Recreation	Escherichia coli (E. coli)	4A			4.92	2002	L
A03R-03-BAC - Unnamed tributary to Limestone Branch							
Recreation	Escherichia coli (E. coli)	4A			1.93	2006	L
A03R-04-BAC - Unnamed tributary to Limestone Branch							
Recreation	Escherichia coli (E. coli)	4A			5.14	2014	L
A04R-01-BAC - Goose Creek							
Recreation	Escherichia coli (E. coli)	4A			4.31	2004	L
Recreation	Escherichia coli (E. coli)	4A			8.11	2024	L
A04R-02-BAC - Gap Run							
Recreation	Escherichia coli (E. coli)	4A			3.21	2004	L
A04R-03-BAC - Crooked Run							
Recreation	Escherichia coli (E. coli)	4A			1.85	2010	L
A04R-04-BAC - Bolling Branch							
Recreation	Escherichia coli (E. coli)	4A			3.64	2006	L
A04R-05-BAC - Unnamed tributary to Goose Creek							
Recreation	Escherichia coli (E. coli)	4A			5.91	2014	L
A05R-01-BAC - Cromwells Run							
Recreation	Escherichia coli (E. coli)	4A			6.76	2012	L
Recreation	Escherichia coli (E. coli)	4A			3.81	2016	L
A05R-03-BAC - Goose Creek							
Recreation	Escherichia coli (E. coli)	4A			2.74	2006	L
A05R-04-BAC - Panther Skin Creek							
Recreation	Escherichia coli (E. coli)	4A			5.27	2006	L
Recreation	Escherichia coli (E. coli)	4A			3.91	2012	L
A05R-05-BAC - Jeffries Branch							
Recreation	Escherichia coli (E. coli)	4A			4.41	2016	L
A05R-06-BAC - Goose Creek							
Recreation	Escherichia coli (E. coli)	4A			2.68	2006	L
Recreation	Escherichia coli (E. coli)	4A			3.27	2016	L
A05R-07-BAC - Unnamed tributary to Jeffries Branch							
Recreation	Escherichia coli (E. coli)	4A			0.31	2018	L
A06R-01-BAC - North Fork Goose Creek							
Recreation	Escherichia coli (E. coli)	4A			4.7	1998	L
Recreation	Escherichia coli (E. coli)	4A			2.97	2008	L
A06R-02-BAC - Crooked Run							
Recreation	Escherichia coli (E. coli)	4A			2.16	2014	L
A06R-03-BAC - Jacks Run							
Recreation	Escherichia coli (E. coli)	4A			3.18	2018	L
A06R-04-BAC - Unnamed tributary to North Fork Goose Creek							
Recreation	Escherichia coli (E. coli)	4A			1.71	2024	L

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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
A07R-01-BAC - Beaverdam Creek							
Recreation	Escherichia coli (E. coli)	4A			6.5	2006	L
A07R-02-BAC - North Fork Beaverdam Creek							
Recreation	Escherichia coli (E. coli)	4A			2.61	2006	L
Recreation	Escherichia coli (E. coli)	4A			3.16	2012	L
A07R-03-BAC - Beaverdam Creek							
Recreation	Escherichia coli (E. coli)	4A			1.27	2006	L
Recreation	Escherichia coli (E. coli)	4A			4.38	2012	L
A07R-04-BAC - Dog Branch							
Recreation	Escherichia coli (E. coli)	4A			1.22	2024	L
A08L-02-BAC - Goose Creek Reservoir							
Recreation	Escherichia coli (E. coli)	4A		97.77		2018	L
A08R-01-BAC - Goose Creek							
Recreation	Escherichia coli (E. coli)	4A			4.82	2006	L
A08R-01-BEN - Goose Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			4.82	1998	L
A08R-02-BAC - Little River							
Recreation	Escherichia coli (E. coli)	4A			2.48	2006	L
Recreation	Escherichia coli (E. coli)	4A			10.78	2016	L
Recreation	Escherichia coli (E. coli)	4A			5.87	2024	L
A08R-03-BAC - Sycolin Creek							
Recreation	Escherichia coli (E. coli)	4A			3.09	1998	L
Recreation	Fecal Coliform	4A			8	1998	L
A08R-04-BAC - South Fork Sycolin Creek							
Recreation	Escherichia coli (E. coli)	4A			3.77	2002	L
A08R-05-BAC - Tuscarora Creek							
Recreation	Escherichia coli (E. coli)	4A			3.9	2004	L
A08R-06-BAC - Goose Creek							
Recreation	Escherichia coli (E. coli)	4A			2.54	2006	L
Recreation	Escherichia coli (E. coli)	4A			3.62	2024	L
A08R-07-BAC - Howsers Branch							
Recreation	Escherichia coli (E. coli)	4A			5.11	2008	L
A08R-08-BAC - Big Branch							
Recreation	Escherichia coli (E. coli)	4A			2.61	2014	L
A10R-01-BAC - Sugarland Run							
Recreation	Escherichia coli (E. coli)	4A			4.78	2002	L
Recreation	Escherichia coli (E. coli)	4A			1.17	2006	L
A11R-01-BAC - Difficult Run							
Recreation	Escherichia coli (E. coli)	4A			3.18	2004	L
A11R-01-BEN - Difficult Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			3.18	1998	L
A11R-02-BAC - Mine Run							
Recreation	Escherichia coli (E. coli)	4A			1.02	2006	L
A11R-03-BAC - Difficult Run							
Recreation	Escherichia coli (E. coli)	4A			3.55	2006	L
Recreation	Escherichia coli (E. coli)	4A			2.83	2010	L
A11R-04-BAC - Snakeden Branch							
Recreation	Escherichia coli (E. coli)	4A			0.98	2006	L
A11R-05-BAC - Little Difficult Run							
Recreation	Escherichia coli (E. coli)	4A			1.76	2008	L
A11R-06-BAC - Wolftrap Creek							
Recreation	Escherichia coli (E. coli)	4A			2.73	2008	L
A11R-07-BAC - Captain Hickory Run							
Recreation	Escherichia coli (E. coli)	4A			3.28	2010	L
A12E-01-BAC - Four Mile Run							
Recreation	Escherichia coli (E. coli)	4A	0.05			1996	L
A12E-01-PCB - Potomac River Embayments (FOU downstream until POM)							
Fish Consumption	PCBs in Fish Tissue	4A	17.578			2002	L
Fish Consumption	PCBs in Fish Tissue	4A	1.722			2004	L
Fish Consumption	PCBs in Fish Tissue	4A	3.878			2006	L
Fish Consumption	PCBs in Fish Tissue	4A	0.265			2008	L

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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
Fish Consumption	PCBs in Fish Tissue	4A	0.633			2010	L
Fish Consumption	PCBs in Fish Tissue	4A	0.076			2016	L
Fish Consumption	PCBs in Fish Tissue	4A	0.041			2022	L
Fish Consumption	Polychlorinated biphenyls (PCBs)	4A	0.529			2010	L
A12E-02-BAC - Potomac River							
Recreation	Escherichia coli (E. coli)	4B	0.047			2024	
A12R-01-BAC - Four Mile Run							
Recreation	Escherichia coli (E. coli)	4A			7.96	1994	L
A12R-01-PCB - Pimmit Run							
Fish Consumption	PCBs in Fish Tissue	4A			4.42	2006	L
A12R-02-BAC - Pimmit Run							
Recreation	Escherichia coli (E. coli)	4A			7.76	2010	L
A12R-03-BAC - Long Branch							
Recreation	Escherichia coli (E. coli)	4A			1.98	2012	L
A12R-04-BAC - Little Pimmit Run							
Recreation	Escherichia coli (E. coli)	4A			2.35	2012	L
A12R-05-BAC - Long Branch							
Recreation	Escherichia coli (E. coli)	4A			2.15	2024	L
A12R-06-BAC - Doctors Run							
Recreation	Escherichia coli (E. coli)	4A			1.23	2024	L
A12R-07-BAC - Lubber Run							
Recreation	Escherichia coli (E. coli)	4A			1.67	2024	L
A13R-02-BAC - Holmes Run							
Recreation	Escherichia coli (E. coli)	4A			3.59	2004	L
A13R-03-BAC - Cameron Run/Hunting Creek							
Recreation	Escherichia coli (E. coli)	4A	0.529			1998	L
Recreation	Escherichia coli (E. coli)	4A			1.91	2006	L
A13R-04-BAC - Holmes Run							
Recreation	Escherichia coli (E. coli)	4A			6.09	2012	L
A13R-05-BAC - Backlick Run							
Recreation	Escherichia coli (E. coli)	4A			6.69	2012	L
A13R-06-BAC - Tripps Run							
Recreation	Escherichia coli (E. coli)	4A			3.7	2012	L
A13R-07-BAC - Pike Branch							
Recreation	Escherichia coli (E. coli)	4A			2.25	2024	L
A13R-08-BAC - Taylor Run							
Recreation	Escherichia coli (E. coli)	4A			1.21	2024	L
A14R-01-PCB - Little Hunting Creek							
Fish Consumption	Polychlorinated biphenyls (PCBs)	4A			1.09	2010	L
A15R-01-BAC - Accotink Creek							
Recreation	Escherichia coli (E. coli)	4A			7.48	2004	L
A15R-01-BEN - Accotink Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			7.48	1996	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			2.63	2010	L
A15R-01-CHLR - Accotink Creek							
Aquatic Life	Chloride	4A			5.22	2016	L
Wildlife	Chloride	4A			5.22	2016	L
A15R-02-BAC - Accotink Creek							
Recreation	Escherichia coli (E. coli)	4A			5.22	1998	L
A15R-02-CHLR - Accotink Creek							
Aquatic Life	Chloride	4A			7.48	2018	L
Wildlife	Chloride	4A			7.48	2018	L
A15R-03-BAC - Accotink Creek							
Recreation	Escherichia coli (E. coli)	4A			2.05	2002	L
Recreation	Escherichia coli (E. coli)	4A			0.99	2022	L
A15R-03-CHLR - Long Branch							
Aquatic Life	Chloride	4A			2.38	2018	L
Wildlife	Chloride	4A			2.38	2018	L
A15R-04-BEN - Accotink Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			3.34	2008	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			8.26	2010	L

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Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
A15R-05-BEN - Long Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			2.38	2008	L
A15R-06-BAC - Long Branch							
Recreation	Escherichia coli (E. coli)	4A			4.48	2008	L
A15R-07-BAC - Long Branch							
Recreation	Escherichia coli (E. coli)	4A			2.38	2018	L
A17R-01-BAC - Cedar Run							
Recreation	Escherichia coli (E. coli)	4A			15.12	1996	L
Recreation	Escherichia coli (E. coli)	4A			13.17	1998	L
A17R-02-BAC - Licking Run							
Recreation	Escherichia coli (E. coli)	4A			6.53	1998	L
A17R-03-BAC - Licking Run							
Recreation	Escherichia coli (E. coli)	4A			7.02	2006	L
A17R-04-BAC - Turkey Run							
Recreation	Escherichia coli (E. coli)	4A			3.61	2006	L
A17R-05-BAC - Cedar Run							
Recreation	Escherichia coli (E. coli)	4A			2.5	2008	L
Recreation	Escherichia coli (E. coli)	4A			2.41	2012	L
A17R-06-BAC - Walnut Branch							
Recreation	Escherichia coli (E. coli)	4A			1.69	2008	L
A17R-07-BAC - Owl Run							
Recreation	Escherichia coli (E. coli)	4A			5.86	2014	L
A17R-08-BAC - Mill Run							
Recreation	Escherichia coli (E. coli)	4A			5.65	2020	L
A18R-01-BAC - Elk Run							
Recreation	Escherichia coli (E. coli)	4A			2.28	2008	L
A18R-02-BAC - Town Run							
Recreation	Escherichia coli (E. coli)	4A			2.52	2008	L
A18R-03-BAC - Slate Run							
Recreation	Escherichia coli (E. coli)	4A			6.97	2010	L
A19R-01-BAC - Broad Run							
Recreation	Escherichia coli (E. coli)	4A			7.2	2002	L
Recreation	Escherichia coli (E. coli)	4A			0.4	2024	L
A19R-02-BAC - Broad Run							
Recreation	Escherichia coli (E. coli)	4A			1.33	2002	L
A19R-03-BAC - Kettle Run							
Recreation	Escherichia coli (E. coli)	4A			7.76	2002	L
Recreation	Escherichia coli (E. coli)	4A			3.62	2006	L
Recreation	Escherichia coli (E. coli)	4A			2.46	2014	L
A19R-04-BAC - South Run							
Recreation	Escherichia coli (E. coli)	4A			2.35	2012	L
A19R-04-BEN - South Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			2.35	1998	L
A19R-05-BAC - Broad Run							
Recreation	Escherichia coli (E. coli)	4A			1.17	2004	L
Recreation	Escherichia coli (E. coli)	4A			1.16	2006	L
A19R-06-BAC - Broad Run							
Recreation	Escherichia coli (E. coli)	4A			2.4	2006	L
A19R-07-BAC - Trapp Branch							
Recreation	Escherichia coli (E. coli)	4A			1.78	2006	L
A19R-09-BAC - Broad Run							
Recreation	Escherichia coli (E. coli)	4A			4.17	2010	L
A19R-10-BAC - North Fork Broad Run							
Recreation	Escherichia coli (E. coli)	4A			3.67	2016	L
A20R-01-BAC - Occoquan River							
Recreation	Escherichia coli (E. coli)	4A			3.36	2006	L
A20R-02-BAC - Purcell Branch							
Recreation	Escherichia coli (E. coli)	4A			3.86	2006	L
A21R-03-BAC - Catharpin Creek							
Recreation	Escherichia coli (E. coli)	4A			6.81	2008	L

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A21R-04-BAC - Youngs Branch							
Recreation	Escherichia coli (E. coli)	4A			6.05	2012	L
A21R-05-BAC - Bull Run							
Recreation	Escherichia coli (E. coli)	4A			4.02	2016	L
A21R-06-BAC - Unnamed Tributary to Bull Run							
Recreation	Escherichia coli (E. coli)	4A			3.73	2018	L
A21R-07-BAC - Little Bull Run							
Recreation	Escherichia coli (E. coli)	4A			9.94	2018	L
A22R-01-BAC - Cub Run							
Recreation	Escherichia coli (E. coli)	4A			6.9	2006	L
Recreation	Escherichia coli (E. coli)	4A			6.34	2020	L
A22R-02-BAC - Ellick Run							
Recreation	Escherichia coli (E. coli)	4A			2.53	2006	L
A22R-03-BAC - Flatlick Branch							
Recreation	Escherichia coli (E. coli)	4A			3.23	2014	L
Recreation	Escherichia coli (E. coli)	4A			3.39	2020	L
A22R-04-BAC - Big Rocky Run							
Recreation	Escherichia coli (E. coli)	4A			4.35	2014	L
A22R-05-BAC - Sand Branch							
Recreation	Escherichia coli (E. coli)	4A			1.55	2018	L
A23R-01-BAC - Johnny Moore Creek							
Recreation	Escherichia coli (E. coli)	4A			4.35	2020	L
A23R-01-BEN - Bull Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			4.87	1994	L
A23R-02-BAC - Popes Head Creek							
Recreation	Escherichia coli (E. coli)	4A			5.64	2004	L
A23R-02-BEN - Popes Head Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			5.64	1998	L
A23R-03-BAC - Little Rocky Run							
Recreation	Escherichia coli (E. coli)	4A			5.23	2008	L
A23R-04-BAC - Piney Branch							
Recreation	Escherichia coli (E. coli)	4A			3.54	2020	L
A23R-05-BAC - Bull Run							
Recreation	Escherichia coli (E. coli)	4A			4.87	2022	L
A25R-01-BAC - Neabsco Creek							
Recreation	Escherichia coli (E. coli)	4A			9.42	2024	L
A25R-01-PCB - Giles Run							
Fish Consumption	Polychlorinated biphenyls (PCBs)	4A			6.48	2010	L
A25R-02-PCB - Mills Branch							
Fish Consumption	Polychlorinated biphenyls (PCBs)	4A			1.72	2010	L
A26L-01-PCB - Lake Montclair							
Fish Consumption	PCBs in Fish Tissue	4A		103.54		2010	L
A26R-02-BAC - Powells Creek							
Recreation	Escherichia coli (E. coli)	4A			5.37	2006	L
Recreation	Escherichia coli (E. coli)	4A			3.91	2014	L
A26R-03-BAC - Quantico Creek							
Recreation	Escherichia coli (E. coli)	4A			1.47	2004	L
A26R-04-BAC - North Branch Chopawamsic Creek							
Recreation	Escherichia coli (E. coli)	4A			7.26	2004	L
A26R-05-BAC - South Fork Quantico Creek							
Recreation	Escherichia coli (E. coli)	4A			4.82	2004	L
A26R-07-BAC - Unnamed tributary to Potomac River							
Recreation	Escherichia coli (E. coli)	4A			3.67	2010	L
A28R-01-BAC - Austin Run							
Recreation	Escherichia coli (E. coli)	4A			0.85	2004	L
Recreation	Escherichia coli (E. coli)	4A			0.7	2014	L
A29R-01-BAC - Accokeek Creek							
Recreation	Escherichia coli (E. coli)	4A			4.48	2002	L
A29R-02-BAC - Potomac Creek							
Recreation	Escherichia coli (E. coli)	4A			2.18	2004	L

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Recreation	Escherichia coli (E. coli)	4A			1.92	2014	L
A29R-03-BAC - Potomac Run							
Recreation	Escherichia coli (E. coli)	4A			6.6	2006	L
A30E-01-BAC - Williams Creek							
Recreation	Enterococcus	4A	0.134			2010	L
A30E-01-PCB - Coan River, Monroe Creek, Upper Machodoc Creek							
Fish Consumption	PCBs in Fish Tissue	4A	2.12			2004	L
Fish Consumption	PCBs in Fish Tissue	4A	3.845			2006	L
A30E-03-SF - Upper Machodoc Creek							
Shellfishing	Fecal Coliform	4A	0.562			2012	L
A30R-02-BAC - Upper Machodoc Creek							
Recreation	Enterococcus	4A	0.465			2006	L
A31E-01-SF - Rosier Creek							
Shellfishing	Fecal Coliform	4A	0.206			1998	L
Shellfishing	Fecal Coliform	4A	0.184			2022	L
A31E-03-SF - Monroe Creek							
Shellfishing	Fecal Coliform	4A	0.172			2014	L
A31E-06-BAC - Mattox Creek							
Recreation	Enterococcus	4A	1.341			2006	L
A31E-06-SF - Mattox Creek							
Shellfishing	Fecal Coliform	4A	0.975			1996	L
Shellfishing	Fecal Coliform	4A	0.382			2022	L
A31E-07-BAC - Popes Creek							
Recreation	Enterococcus	4A	0.579			2006	L
A31E-07-SF - Popes Creek							
Shellfishing	Fecal Coliform	4A	0.579			1998	L
A31R-02-BAC - Mattox Creek Watershed							
Recreation	Escherichia coli (E. coli)	4A			59.11	2020	L
A31R-03-BAC - Popes Creek Watershed							
Recreation	Escherichia coli (E. coli)	4A			29.88	2014	L
A32E-01-SF - Cold Harbor Creek							
Shellfishing	Fecal Coliform	4A	0.083			2004	L
Shellfishing	Fecal Coliform	4A	0.044			2024	L
A32E-02-SF - Currioman Creek							
Shellfishing	Fecal Coliform	4A	0.052			1998	L
A32E-04-SF - Nomini Creek, Pierce Creek							
Shellfishing	Fecal Coliform	4A	0.682			1998	L
A32E-04-SF2 - Nomini Creek, Peirce Creek							
Shellfishing	Fecal Coliform	4A	0.13			2004	L
A32E-05-SF - Buckner Creek							
Shellfishing	Fecal Coliform	4A	0.104			1998	L
A32E-06-SF - North Prong Buckner Creek							
Shellfishing	Fecal Coliform	4A	0.023			1998	L
A32E-08-SF - Lower Machodoc Creek							
Shellfishing	Fecal Coliform	4A	0.37			1998	L
A32E-10-SF - Weatherall Creek							
Shellfishing	Fecal Coliform	4A	0.055			2016	L
A32E-13-SF - Currioman Creek							
Shellfishing	Fecal Coliform	4A	0.02			2008	L
A32E-19-SF - Barnes Creek							
Shellfishing	Fecal Coliform	4A	0.057			2008	L
A32E-21-SF - North Prong Buckner Creek							
Shellfishing	Fecal Coliform	4A	0.032			2008	L
A32E-26-BAC - Lower Machodoc Creek							
Recreation	Enterococcus	4A	0.535			2022	L
A32R-02-BAC - Lee Creek							
Recreation	Escherichia coli (E. coli)	4A			1.36	2012	L
A32R-04-BAC - XCJ - Jones Branch, UT							
Recreation	Escherichia coli (E. coli)	4A			1.02	2012	L
A32R-05-BAC - Tavern Run							

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Appendix 1c - 2024 Impaired Waters (Category 4A/4D) TMDL Approved and (Category 4B) Other Control Measures Present

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)	4A			3.28	2012	L
A32R-06-BAC - Nontidal Nomini Creek Tributaries							
Recreation	Escherichia coli (E. coli)	4A			9.15	2014	L
A32R-08-BAC - Barnes Creek							
Recreation	Escherichia coli (E. coli)	4A			1.95	2014	L
A33E-02-BAC - Jackson Creek							
Recreation	Enterococcus	4A	0.137			2012	L
A33E-02-SF - Jackson Creek							
Shellfishing	Fecal Coliform	4A	0.032			1998	L
A33E-03-BAC - Bonum Creek							
Recreation	Enterococcus	4A	0.1			2012	L
Recreation	Enterococcus	4A	0.11			2020	L
A33E-05-SF - White Point Creek							
Shellfishing	Fecal Coliform	4A	0.044			2018	L
A33E-07-BAC - Hampton Hall Branch							
Recreation	Enterococcus	4A	0.274			2012	L
A33E-07-SF - Hampton Hall Branch, Kinsale Branch							
Shellfishing	Fecal Coliform	4A	0.382			1998	L
A33E-09-SF - Mill Creek							
Shellfishing	Fecal Coliform	4A	0.149			1998	L
A33E-10-SF - Lodge Creek							
Shellfishing	Fecal Coliform	4A	0.176			1998	L
A33E-13-SF - Dungan Cove							
Shellfishing	Fecal Coliform	4A	0.021			2022	L
A33R-01-BAC - Mill Creek							
Recreation	Escherichia coli (E. coli)	4A			5	2010	L
A33R-03-BAC - Gardner Creek							
Recreation	Escherichia coli (E. coli)	4A			1.4	2012	L
A33R-06-BAC - XMA - Hampton Hall Creek, UT							
Recreation	Escherichia coli (E. coli)	4A			2.07	2014	L
A33R-07-BAC - XMC - Lodge Creek, UT							
Recreation	Escherichia coli (E. coli)	4A			1.69	2014	L
A34E-01-SF - The Glebe							
Shellfishing	Fecal Coliform	4A	0.132			1998	L
A34E-01-SF2 - The Glebe							
Shellfishing	Fecal Coliform	4A	0.101			2004	L
A34E-04-SF - XFJ - Coan River, UT (aka Cellars Cove)							
Shellfishing	Fecal Coliform	4A	0.032			1998	L
A34E-05-BAC - Coan River							
Recreation	Enterococcus	4A	0.35			2012	L
A34E-05-SF - Headly Cove							
Shellfishing	Fecal Coliform	4A	0.025			1998	L
A34E-05-SF2 - Mill Creek and the Coan River							
Shellfishing	Fecal Coliform	4A	0.437			1998	L
A34E-07-SF - Cod Creek							
Shellfishing	Fecal Coliform	4A	0.064			1998	L
Shellfishing	Fecal Coliform	4A	0.055			2024	L
A34E-08-SF - Cod Creek, UT							
Shellfishing	Fecal Coliform	4A	0.054			1998	L
A34E-09-BAC - Presley Creek							
Recreation	Enterococcus	4A	0.332			2012	L
A34E-09-SF - Presley Creek							
Shellfishing	Fecal Coliform	4A	0.332			1998	L
A34E-12-SF - Hull Creek, Floyd Cove, and Spring Cove							
Shellfishing	Fecal Coliform	4A	0.275			1998	L
Shellfishing	Fecal Coliform	4A	0.01			2018	L
A34E-13-SF - Rogers Creek							
Shellfishing	Fecal Coliform	4A	0.035			1998	L
A34E-14-SF - Cubitt Creek							
Shellfishing	Fecal Coliform	4A	0.225			1998	L

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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
A34E-15-SF - Cod Creek, Tributary to Little Wicomico River							
Shellfishing	Fecal Coliform	4A	0.037			1998	L
A34E-16-SF - Little Wicomico River							
Shellfishing	Fecal Coliform	4A	0.203			1998	L
A34E-16-SF2 - Little Wicomico River							
Shellfishing	Fecal Coliform	4A	0.138			2004	L
A34E-17-SF - Bridge Creek							
Shellfishing	Fecal Coliform	4A	0.087			2006	L
A34E-18-SF - Bridge Creek							
Shellfishing	Fecal Coliform	4A	0.051			2006	L
A34E-24-BAC - Spring Cove							
Recreation	Enterococcus	4A	0.01			2010	L
A34E-31-BAC - Little Wicomico River							
Recreation	Enterococcus	4A	0.511			2006	L
Recreation	Enterococcus	4A	1.033			2020	L
A34E-36-BAC - Hack Creek							
Recreation	Enterococcus	4A	0.224			2012	L
A34E-36-SF - Hack Creek							
Shellfishing	Fecal Coliform	4A	0.224			2008	L
A34E-37-SF - Sloop Creek							
Shellfishing	Fecal Coliform	4A	0.018			2022	L
A34E-39-SF - Wrights Cove, UT							
Shellfishing	Fecal Coliform	4A	0.046			2024	L
A34E-40-SF - Kingscote Creek, UT							
Shellfishing	Fecal Coliform	4A	0.009			2024	L
A34E-42-SF - Bridgemans Back Creek							
Shellfishing	Fecal Coliform	4A	0.021			2024	L
A34R-02-BAC - Little Wicomico River							
Recreation	Escherichia coli (E. coli)	4A			2.34	2018	L
A34R-04-BAC - Coan Mill Stream							
Recreation	Escherichia coli (E. coli)	4A			2.93	2012	L
B02R-01-BEN - West Strait Creek							
Aquatic Life	Ammonia, Total	4A			1.25	1996	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			0.37	1996	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			0.88	2004	L
B02R-01-DO - West Strait Creek							
Aquatic Life	Dissolved Oxygen	4A			0.37	2010	L
B06R-02-BAC - Hogue Creek							
Recreation	Escherichia coli (E. coli)	4A			17.27	2008	L
B08R-01-BAC - Opequon Creek							
Recreation	Escherichia coli (E. coli)	4A			23.22	2004	L
B09R-01-BAC - Abrams Creek							
Recreation	Escherichia coli (E. coli)	4A			11.18	2008	L
B09R-01-BEN - Abrams Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			11.18	1996	L
B09R-02-BAC - Opequon Creek							
Recreation	Escherichia coli (E. coli)	4A			9.06	2008	L
B09R-02-BEN - Opequon Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			9.06	2004	L
B09R-03-BAC - Lick Run							
Recreation	Escherichia coli (E. coli)	4A			8.22	2004	L
B09R-04-BAC - Redbud Run							
Recreation	Escherichia coli (E. coli)	4A			8.05	2008	L
B09R-04-BEN - Redbud Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			8.05	2004	L
B10R-01-BEN - Cockran Spring Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			0.58	1996	L
B10R-02-BAC - Middle River							
Recreation	Escherichia coli (E. coli)	4A			17.06	2004	L
Recreation	Escherichia coli (E. coli)	4A			3.49	2008	L

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Appendix 1c - 2024 Impaired Waters (Category 4A/4D) TMDL Approved and (Category 4B) Other Control Measures Present

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)	4A			3.37	2010	L
B10R-02-BEN - Middle River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			17.06	1998	L
B10R-03-BAC - Back Creek							
Recreation	Escherichia coli (E. coli)	4A			10.73	2004	L
B10R-04-BAC - Eidson Creek							
Recreation	Escherichia coli (E. coli)	4A			8.85	2004	L
B12R-01-BAC - Lewis Creek							
Recreation	Escherichia coli (E. coli)	4A			10.07	2004	L
B12R-01-BEN - Lewis Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			10.07	1996	L
Aquatic Life	Lead	4A			10.07	1996	L
Wildlife	Lead	4A			10.07	1996	L
B12R-01-PCB - Lewis Creek							
Aquatic Life	Polychlorinated biphenyls (PCBs)	4A			10.07	2022	L
Fish Consumption	PCBs in Fish Tissue	4A			10.07	2004	L
Fish Consumption	Polychlorinated biphenyls (PCBs)	4A			10.07	2022	L
Wildlife	Polychlorinated biphenyls (PCBs)	4A			10.07	2022	L
B12R-02-BAC - Middle River							
Recreation	Escherichia coli (E. coli)	4A			2.92	2018	L
Recreation	Escherichia coli (E. coli)	4A			23.16	2022	L
B12R-02-PCB - Lewis Creek							
Fish Consumption	PCBs in Fish Tissue	4A			2.47	2020	L
B13R-01-BAC - Moffett Creek							
Recreation	Escherichia coli (E. coli)	4A			9.91	2008	L
B13R-01-BEN - Moffett Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			9.91	1996	L
B13R-02-BAC - Elk Run							
Recreation	Escherichia coli (E. coli)	4A			4.13	2008	L
B14R-01-BAC - Christians Creek							
Recreation	Escherichia coli (E. coli)	4A			32.95	2004	L
B14R-01-BEN - Christians Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			32.95	2004	L
B14R-02-BAC - Folly Mills Creek							
Recreation	Escherichia coli (E. coli)	4A			14.14	2012	L
B14R-03-BAC - Long Meadow Run							
Recreation	Escherichia coli (E. coli)	4A			11.06	2006	L
B15R-01-BAC - Middle River							
Recreation	Escherichia coli (E. coli)	4A			17.85	2008	L
B15R-02-BAC - Polecat Draft							
Recreation	Escherichia coli (E. coli)	4A			7.9	2004	L
B17R-01-BAC - North River							
Recreation	Escherichia coli (E. coli)	4A			15.83	2004	L
Recreation	Escherichia coli (E. coli)	4A			12.64	2012	L
Recreation	Escherichia coli (E. coli)	4A			3.49	2014	L
B17R-02-BAC - Thorny Branch							
Recreation	Fecal Coliform	4A			7.76	2004	L
B18R-04-BAC - Beaver Creek							
Recreation	Escherichia coli (E. coli)	4A			6.3	2008	L
B18R-05-BAC - Briery Branch							
Recreation	Escherichia coli (E. coli)	4A			1.47	2014	L
B19R-01-BAC - Mossy Creek							
Recreation	Escherichia coli (E. coli)	4A			10.46	2004	L
B19R-01-BEN - Mossy Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			10.46	1998	L
B21R-01-BAC - Dry River							
Recreation	Escherichia coli (E. coli)	4A			6.57	2004	L
B21R-02-BAC - Honey Run							
Recreation	Fecal Coliform	4A			4.27	2004	L
B22R-01-BAC - Muddy Creek							

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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)	4A			11.15	2004	L
B22R-01-BEN - Muddy Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			11.15	1996	L
B24R-01-BAC - Long Glade Creek							
Recreation	Escherichia coli (E. coli)	4A			11.22	2008	L
B25R-01-BAC - Cooks Creek							
Recreation	Escherichia coli (E. coli)	4A			14.39	2004	L
B25R-01-BEN - Cooks Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			14.39	1996	L
B25R-02-BAC - Silver Creek							
Recreation	Fecal Coliform	4A			0.21	2004	L
B25R-03-BAC - Sunset Heights Branch							
Recreation	Fecal Coliform	4A			4.74	2002	L
B26R-01-BAC - Blacks Run							
Recreation	Escherichia coli (E. coli)	4A			11.64	2004	L
B26R-01-BEN - Blacks Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			11.64	1996	L
B27R-01-BAC - Pleasant Run							
Recreation	Escherichia coli (E. coli)	4A			6.74	2004	L
B27R-01-BEN - Pleasant Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			6.74	1996	L
B28R-01-BAC - Naked Creek							
Recreation	Escherichia coli (E. coli)	4A			7.12	2004	L
B28R-02-BAC - North Fork Naked Creek							
Recreation	Escherichia coli (E. coli)	4A			5.25	2012	L
B29R-01-BAC - Congers Creek/Duck Run/Mill Creek							
Recreation	Escherichia coli (E. coli)	4A			6.26	2004	L
Recreation	Fecal Coliform	4A			2.88	1996	L
Recreation	Fecal Coliform	4A			5.99	2004	L
B29R-01-BEN - Mill Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			6.26	1996	L
B30R-01-BAC - South River							
Recreation	Escherichia coli (E. coli)	4A			12.43	2008	L
B30R-03-BAC - Pine Run							
Recreation	Escherichia coli (E. coli)	4A			20.39	2006	L
B31R-01-BAC - Back Creek							
Recreation	Escherichia coli (E. coli)	4A			6.02	2012	L
B32R-01-BEN - South River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			7.44	1996	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			11.55	2008	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			2.12	2012	L
B32R-02-BAC - South River							
Recreation	Escherichia coli (E. coli)	4A			14.38	2006	L
Recreation	Escherichia coli (E. coli)	4A			2.12	2010	L
Recreation	Escherichia coli (E. coli)	4A			18.23	2012	L
Recreation	Escherichia coli (E. coli)	4A			5.38	2014	L
B32R-02-HG - South River/South Fork Shenandoah River/North Fork Shenandoah River/Shenandoah River							
Fish Consumption	Mercury in Fish Tissue	4A			118.31	1998	L
Fish Consumption	Mercury in Fish Tissue	4A			5.01	2002	L
Fish Consumption	Mercury in Fish Tissue	4A			6.61	2006	L
Fish Consumption	Mercury in Fish Tissue	4A			24.38	2008	L
B32R-02-PCB - South River							
Fish Consumption	PCBs in Fish Tissue	4A			5.38	2008	L
B32R-05-BAC - Steele Run							
Recreation	Escherichia coli (E. coli)	4A			3.78	2016	L
B33R-01-BAC - South Fork Shenandoah River							
Recreation	Escherichia coli (E. coli)	4A			7.89	2008	L
B33R-01-BEN - South Fork Shenandoah River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			58.15	1998	L
B34R-01-BAC - Cub Run							
Recreation	Escherichia coli (E. coli)	4A			14.89	2004	L

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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
B35R-02-BEN - Quail Run							
Aquatic Life	Ammonia, Total	4A			5.14	1998	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			5.14	1998	L
Aquatic Life	Chlorine	4A			5.14	1998	L
Wildlife	Ammonia, Total	4A			5.14	1998	L
B35R-03-BAC - Elk Run							
Recreation	Escherichia coli (E. coli)	4A			19.47	2022	L
B35R-04-BAC - Stony Run							
Recreation	Escherichia coli (E. coli)	4A			7.36	2022	L
B37R-01-BAC - Cub Run							
Recreation	Escherichia coli (E. coli)	4A			9.81	2022	L
B37R-01-PCB - South Fork Shenandoah River							
Fish Consumption	PCBs in Fish Tissue	4A			19.13	2010	L
B37R-04-BAC - South Fork Shenandoah River							
Recreation	Escherichia coli (E. coli)	4A			1.98	2024	L
B38R-01-BAC - Mill Creek							
Recreation	Escherichia coli (E. coli)	4A			7.07	2008	L
B39R-01-BAC - Pass Run							
Recreation	Escherichia coli (E. coli)	4A			9.48	2004	L
B39R-02-BAC - Hawksbill Creek							
Recreation	Escherichia coli (E. coli)	4A			12.53	2004	L
Recreation	Escherichia coli (E. coli)	4A			7.36	2006	L
B39R-03-BAC - East Hawksbill Creek							
Recreation	Escherichia coli (E. coli)	4A			9.38	2006	L
B41R-01-BAC - Happy Creek							
Recreation	Escherichia coli (E. coli)	4A			8.56	2014	L
B41R-02-PCB - South Fork Shenandoah River/North Fork Shenandoah River/Shenandoah River							
Fish Consumption	PCBs in Fish Tissue	4A			45.68	1998	L
B41R-03-BEN - Happy Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			8.56	2008	L
B42R-01-BAC - Crab Run							
Recreation	Escherichia coli (E. coli)	4A			3.93	2010	L
B42R-02-BAC - North Fork Shenandoah River							
Recreation	Escherichia coli (E. coli)	4A			2.59	2018	L
B44R-01-BAC - Runions Creek							
Recreation	Escherichia coli (E. coli)	4A			14.8	2010	L
B44R-03-BAC - North Fork Shenandoah River							
Recreation	Escherichia coli (E. coli)	4A			4.22	2022	L
B45R-01-BAC - Long Meadow Run							
Recreation	Escherichia coli (E. coli)	4A			9.85	2008	L
B45R-01-BEN - Long Meadow Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			9.85	2002	L
B45R-02-BAC - Turley Creek							
Recreation	Escherichia coli (E. coli)	4A			4.04	2010	L
B45R-02-BEN - Turley Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			4.04	2002	L
B45R-03-BAC - Holmans Creek							
Recreation	Escherichia coli (E. coli)	4A			11.1	2008	L
B45R-03-BEN - Holmans Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			11.1	1996	L
B45R-04-BAC - North Fork Shenandoah River							
Recreation	Escherichia coli (E. coli)	4A			25.79	2008	L
Recreation	Escherichia coli (E. coli)	4A			10.82	2012	L
B46R-01-BAC - Linville Creek							
Recreation	Escherichia coli (E. coli)	4A			14.38	2004	L
B46R-01-BEN - Linville Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			14.38	1996	L
B46R-02-BAC - Daphna Creek							
Recreation	Escherichia coli (E. coli)	4A			3.25	2018	L
B46R-03-BAC - Joes Creek							

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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)	4A			7.05	2018	L
B46R-04-BAC - West Fork Linville Creek							
Recreation	Escherichia coli (E. coli)	4A			5.62	2018	L
B46R-05-BAC - Tide Spring Branch							
Recreation	Escherichia coli (E. coli)	4A			2.88	2018	L
B47R-02-BAC - Mountain Run/Smith Creek/War Branch							
Recreation	Escherichia coli (E. coli)	4A			6.65	2006	L
Recreation	Escherichia coli (E. coli)	4A			33.54	2008	L
Recreation	Escherichia coli (E. coli)	4A			10.38	2012	L
B47R-03-BAC - Lacey Spring Branch							
Recreation	Escherichia coli (E. coli)	4A			0.6	2014	L
B47R-03-BEN - Lacey Spring Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			0.6	1998	L
B47R-05-BEN - Smith Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			14.1	1998	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			6.89	2004	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			5.44	2006	L
B47R-06-BAC - Dry Fork							
Recreation	Escherichia coli (E. coli)	4A			10.85	2012	L
B48R-01-BAC - Mill Creek							
Recreation	Escherichia coli (E. coli)	4A			4.56	2012	L
Recreation	Fecal Coliform	4A			11.12	2002	L
B49R-01-BAC - Stony Creek							
Recreation	Escherichia coli (E. coli)	4A			20.01	2008	L
Recreation	Escherichia coli (E. coli)	4A			3.44	2012	L
B49R-08-BAC - Orkney Springs Run							
Recreation	Escherichia coli (E. coli)	4A			2.19	2012	L
B49R-09-BAC - Stony Creek							
Recreation	Escherichia coli (E. coli)	4A			3.5	2014	L
B50R-01-BAC - Toms Brook							
Recreation	Escherichia coli (E. coli)	4A			9.51	2018	L
B50R-01-BEN - Toms Brook							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			9.51	2002	L
B50R-02-BAC - Narrow Passage Creek							
Recreation	Escherichia coli (E. coli)	4A			11.62	2008	L
B50R-03-BAC - Pughs Run							
Recreation	Escherichia coli (E. coli)	4A			7	2008	L
B50R-05-BAC - Spring Hollow							
Recreation	Escherichia coli (E. coli)	4A			6.39	2012	L
B51R-01-BAC - Tumbling Run							
Recreation	Escherichia coli (E. coli)	4A			2.13	2008	L
Recreation	Escherichia coli (E. coli)	4A			3.07	2022	L
B51R-03-BAC - South Fork Tumbling Run							
Recreation	Escherichia coli (E. coli)	4A			3.59	2022	L
B51R-04-BAC - North Fork Shenandoah River							
Recreation	Escherichia coli (E. coli)	4A			2.86	2022	L
B52R-02-BEN - Orndorff Spring Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			0.23	1998	L
B55R-01-BAC - Manassas Run							
Recreation	Escherichia coli (E. coli)	4A			15.1	2014	L
B55R-02-BAC - Borden Marsh Run							
Recreation	Escherichia coli (E. coli)	4A			15.68	2006	L
B55R-03-BAC - Willow Brook							
Recreation	Escherichia coli (E. coli)	4A			4.1	2006	L
B56R-01-BAC - Crooked Run							
Recreation	Escherichia coli (E. coli)	4A			9.23	2008	L
B56R-02-BAC - Stephens Run							
Recreation	Escherichia coli (E. coli)	4A			1	2010	L
B56R-03-BAC - West Run							
Recreation	Escherichia coli (E. coli)	4A			8.08	2010	L

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Appendix 1c - 2024 Impaired Waters (Category 4A/4D) TMDL Approved and (Category 4B) Other Control Measures Present

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
B57R-01-BAC - Page Brook Run/Spout Run							
Recreation	Escherichia coli (E. coli)	4A			15.1	2010	L
B57R-01-BEN - Spout Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			4.12	1998	L
B57R-02-BAC - Long Branch							
Recreation	Escherichia coli (E. coli)	4A			3.87	2008	L
B57R-04-BAC - Roseville Run							
Recreation	Escherichia coli (E. coli)	4A			6.4	2010	L
B57R-06-BAC - Westbrook Run							
Recreation	Escherichia coli (E. coli)	4A			9.16	2018	L
CB5MH-SAV-BAY - Chesapeake Bay segment CB5MH							
Aquatic Life	Aquatic Plants (Macrophytes)	4A	214.685			2006	L
Shallow-Water	Aquatic Plants (Macrophytes)	4A	214.685			2006	L
Submerged Aquatic Vegetation							
POTMH-SAV-BAY - Potomac Mesohaline Embayments							
Aquatic Life	Aquatic Plants (Macrophytes)	4A	32.068			2006	L
Shallow-Water	Aquatic Plants (Macrophytes)	4A	32.068			2006	L
Submerged Aquatic Vegetation							

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and (Category 4B) Other Control Measures Present

James River Basin

Cause Group - Water Name		Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Impaired Use	Cause						
APPTF-SAV-BAY - Appomattox River							
Aquatic Life	Aquatic Plants (Macrophytes)	4A	2.708			2006	L
Aquatic Life	Aquatic Plants (Macrophytes)	4A	0.032			2014	L
Shallow-Water	Aquatic Plants (Macrophytes)	4A	2.708			2006	L
Submerged Aquatic Vegetation							
Shallow-Water	Aquatic Plants (Macrophytes)	4A	0.032			2014	L
Submerged Aquatic Vegetation							
CHKOH-DO-BAY - Chickahominy River							
Aquatic Life	Dissolved Oxygen	4A	9.618			2018	L
Open-Water Aquatic Life	Dissolved Oxygen	4A	9.618			2018	L
EBEMH-DO-BAY - Eastern Branch, Elizabeth River and Indian River							
Aquatic Life	Dissolved Oxygen	4A	2.35			2006	L
Open-Water Aquatic Life	Dissolved Oxygen	4A	2.35			2006	L
ELIPH-DO-BAY - Chesapeake Bay segment ELIPH (Elizabeth River Mainstem)							
Aquatic Life	Dissolved Oxygen	4A	0.468			2006	L
Aquatic Life	Dissolved Oxygen	4A	3.639			2024	L
Open-Water Aquatic Life	Dissolved Oxygen	4A	0.468			2006	L
Open-Water Aquatic Life	Dissolved Oxygen	4A	3.639			2024	L
G01E-01-BAC - James River							
Recreation	Escherichia coli (E. coli)	4A	1.267			1996	L
Recreation	Escherichia coli (E. coli)	4A	0.078			2008	L
G01E-04-CHLA - James River							
Aquatic Life	Chlorophyll-a	4A	5.534			2024	L
Open-Water Aquatic Life	Chlorophyll-a	4A	5.534			2024	L
G01R-01-BAC - Goode Creek							
Recreation	Escherichia coli (E. coli)	4A			1.21	2006	L
G01R-02-BAC - Almond Creek							
Recreation	Escherichia coli (E. coli)	4A			2.11	2006	L
G01R-04-BAC - Falling Creek							
Recreation	Escherichia coli (E. coli)	4A			17	2006	L
G01R-05-BAC - Kingsland Creek							
Recreation	Escherichia coli (E. coli)	4A			8.55	2006	L
G01R-06-BAC - Gillies Creek							
Recreation	Escherichia coli (E. coli)	4A			5.88	2008	L
Recreation	Escherichia coli (E. coli)	4A	0.001			2020	L
G01R-08-BAC - XSZ - James River, UT (aka No Name Creek)							
Recreation	Escherichia coli (E. coli)	4A			2.22	2008	L
G01R-10-BAC - Pocoshock Creek							
Recreation	Escherichia coli (E. coli)	4A			8.7	2008	L
G01R-11-BAC - Broad Rock Creek							
Recreation	Escherichia coli (E. coli)	4A			3.12	2006	L
G01R-13-BAC - XYA - Almond Creek, UT							
Recreation	Escherichia coli (E. coli)	4A			1.14	2008	L
G01R-14-BAC - Cornelius Creek							
Recreation	Escherichia coli (E. coli)	4A			7.23	2008	L
G01R-15-BAC - Proctors Creek							
Recreation	Escherichia coli (E. coli)	4A			8.27	2008	L
G01R-16-BAC - Horners Run							
Recreation	Escherichia coli (E. coli)	4A			2.43	2008	L
G01R-17-BAC - XXN - Falling Creek, UT							
Recreation	Escherichia coli (E. coli)	4A			2.32	2008	L
G01R-18-BAC - Licking Creek							
Recreation	Escherichia coli (E. coli)	4A			3.25	2008	L
G01R-19-BAC - Stony Run							
Recreation	Escherichia coli (E. coli)	4A			3.17	2008	L
G01R-20-BAC - Reedy Creek							
Recreation	Escherichia coli (E. coli)	4A			3.42	2012	L
G01R-21-BAC - Great Branch							

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Appendix 1c - 2024 Impaired Waters (Category 4A/4D) TMDL Approved and (Category 4B) Other Control Measures Present

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)	4A			4.38	2016	L
G02E-02-CHLA - James River							
Aquatic Life	Chlorophyll-a	4A	25.824			2008	L
Open-Water Aquatic Life	Chlorophyll-a	4A	25.824			2008	L
G02E-06-BAC - Turkey Island Creek							
Recreation	Escherichia coli (E. coli)	4A	0.066			2024	L
G02R-01-BAC - Fourmile Creek							
Recreation	Escherichia coli (E. coli)	4A			46.91	2006	L
G02R-05-BAC - Crewes Channel							
Recreation	Escherichia coli (E. coli)	4A			3.24	2008	L
G02R-07-BAC - Western Run							
Recreation	Escherichia coli (E. coli)	4A			1.85	2006	L
G02R-08-BAC - Turkey Island Creek							
Recreation	Escherichia coli (E. coli)	4A			8.86	2014	L
G03E-01-BAC - Bailey Creek (tidal), Cattail Creek (tidal)							
Recreation	Escherichia coli (E. coli)	4A	0.114			1994	L
G03E-04-BAC - James River							
Recreation	Escherichia coli (E. coli)	4A	10.194			2006	L
G03R-02-BAC - Bailey Creek							
Recreation	Escherichia coli (E. coli)	4A			6.47	2008	L
G03R-04-BAC - West Run							
Recreation	Escherichia coli (E. coli)	4A			1.86	2010	L
G03R-07-BAC - Walls Run							
Recreation	Escherichia coli (E. coli)	4A			5.85	2006	L
G03R-08-BAC - Cattail Creek							
Recreation	Escherichia coli (E. coli)	4A			1.67	2008	L
G03R-09-BAC - Southerly Run							
Recreation	Escherichia coli (E. coli)	4A			2.84	2008	L
G03R-10-BAC - XXO - Powell Creek, UT							
Recreation	Escherichia coli (E. coli)	4A			1.72	2008	L
G03R-11-BAC - Courthouse Creek							
Recreation	Escherichia coli (E. coli)	4A			4.39	2014	L
G04E-05-CHLA - James River							
Aquatic Life	Chlorophyll-a	4A	17.843			2022	L
Open-Water Aquatic Life	Chlorophyll-a	4A	17.843			2022	L
G04R-01-BAC - Wards Creek							
Recreation	Escherichia coli (E. coli)	4A			8.1	2018	L
G04R-04-BAC - XBB - Upper Chippokes Creek, UT							
Recreation	Escherichia coli (E. coli)	4A			7.09	2014	L
G04R-05-BAC - Flowerdew Hundred Creek							
Recreation	Escherichia coli (E. coli)	4A			3.68	2016	L
G05R-01-BEN - Chickahominy River, UT - Unnamed Tributary							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			1.17	1996	L
Aquatic Life	pH	4A			1.17	2006	L
G05R-02-BAC - Upham Brook Watershed							
Recreation	Escherichia coli (E. coli)	4A			65.3	2006	L
G05R-03-BAC - Chickahominy River							
Recreation	Escherichia coli (E. coli)	4A			14.25	2012	L
Recreation	Escherichia coli (E. coli)	4A			2.31	2014	L
G05R-04-BEN - Chickahominy River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			7.08	2010	L
G05R-05-BAC - Stony Run							
Recreation	Escherichia coli (E. coli)	4A			0.21	2010	L
G05R-12-BAC - Upper Stony Run and Tributaries							
Recreation	Escherichia coli (E. coli)	4A			39.87	2012	L
G05R-13-BEN - Allens Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			3.33	2016	L
G06R-02-BAC - Horse Swamp Creek							
Recreation	Escherichia coli (E. coli)	4A			2.81	2020	L
G06R-03-BAC - White Oak Swamp							

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Appendix 1c - 2024 Impaired Waters (Category 4A/4D) TMDL Approved and (Category 4B) Other Control Measures Present

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)	4A			6.69	2006	L
G06R-12-BAC - Beaverdam Creek							
Recreation	Escherichia coli (E. coli)	4A			7.65	2006	L
G06R-13-BAC - Boatswain Creek							
Recreation	Escherichia coli (E. coli)	4A			3.76	2006	L
G06R-14-BAC - Chickahominy River							
Recreation	Escherichia coli (E. coli)	4A			7.46	2008	L
G06R-15-BAC - Chickahominy River							
Recreation	Escherichia coli (E. coli)	4A			11.78	2016	L
G07R-01-BAC - Collins Run							
Recreation	Escherichia coli (E. coli)	4A			4.5	2010	L
G07R-04-BAC - Schiminoe Creek							
Recreation	Escherichia coli (E. coli)	4A			6.23	2012	L
G07R-08-BAC - Chickahominy River							
Recreation	Escherichia coli (E. coli)	4A			11.03	2016	L
G07R-09-BAC - XTH - Chickahominy River, UT							
Recreation	Escherichia coli (E. coli)	4A			2.26	2018	L
G08E-01-BAC - Morris Creek							
Recreation	Enterococcus	4A	0.394			2010	L
G08E-03-BAC - Diascund Creek							
Recreation	Enterococcus	4A	0.271			2010	L
G08E-11-BAC - Chickahominy River							
Recreation	Enterococcus	4A	5.92			2024	L
G08R-02-BAC - Mill Creek							
Recreation	Escherichia coli (E. coli)	4A			4.82	2012	L
G08R-04-BAC - Yarmouth Creek							
Recreation	Escherichia coli (E. coli)	4A			4.09	2020	L
G08R-05-BAC - Barrows Creek							
Recreation	Escherichia coli (E. coli)	4A			6.93	2014	L
G09R-01-BAC - Beaverdam Creek							
Recreation	Escherichia coli (E. coli)	4A			4.34	2012	L
G09R-06-BAC - XAH - Beaverdam Creek, UT							
Recreation	Escherichia coli (E. coli)	4A			2.23	2012	L
G10E-01-BAC - Powhatan Creek/Sandy Bay							
Recreation	Enterococcus	4A	0.204			1998	L
G10E-03-BAC - Mill Creek							
Recreation	Enterococcus	4A	0.075			1998	L
G10R-04-BAC - Unnamed tributary to Mill Creek							
Recreation	Escherichia coli (E. coli)	4A			1.22	2012	L
G11E-01-BAC - Warwick River - Middle Tidal Portion							
Recreation	Enterococcus	4A	0.075			2008	L
G11E-01-SF - Chuckatuck Creek System							
Shellfishing	Fecal Coliform	4A	0.977			1998	L
G11E-03-BAC - Deep Creek - Lower							
Recreation	Enterococcus	4A	0.1			2006	L
G11E-05-BAC - Pagan River - Upper & Middle							
Recreation	Enterococcus	4A	0.062			1998	L
Recreation	Enterococcus	4A	0.065			2020	L
Recreation	Enterococcus	4A	0.058			2022	L
G11E-06-BAC - Lawnes Creek (Tributary to James River)							
Recreation	Enterococcus	4A	0.291			2010	L
G11E-06-SF - Lawnes Creek							
Shellfishing	Fecal Coliform	4A	0.291			1998	L
G11E-10-SF - Pagan River - Middle Lower & Lower							
Shellfishing	Fecal Coliform	4A	1.192			2008	L
Shellfishing	Fecal Coliform	4A	0.084			2022	L
Shellfishing	Fecal Coliform	4A	0.91			2024	L
G11E-16-SF - Cypress Creeks							
Shellfishing	Fecal Coliform	4A	0.263			1998	L
G11E-16-SF2 - Pagan River - Upper & Upper- Middle							

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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
Shellfishing	Fecal Coliform	4A	0.185			2008	L
G11E-20-SF - Jones Creek - Tributary to Pagan River							
Shellfishing	Fecal Coliform	4A	0.102			2008	L
G11E-22-BAC - Pagan River - Middle							
Recreation	Enterococcus	4A	0.084			2022	L
G11E-24-BAC - Cypress Creek							
Recreation	Enterococcus	4A	0.263			2022	L
G11E-25-BAC - Jones Creek - Tributary to Pagan River							
Recreation	Enterococcus	4A	0.102			2022	L
G11R-01-BAC - Baptist Run							
Recreation	Fecal Coliform	4A			3.15	2004	L
G11R-04-BAC - Pagan River (including Wrenns Millpond)							
Recreation	Escherichia coli (E. coli)	4A			1.35	2012	L
G13E-12-BAC - Bennett Creek, Tributary to Nansemond River							
Recreation	Enterococcus	4A	0.542			2004	L
G13E-12-SF - Bennett, Bleakhorn and Knotts Creek							
Shellfishing	Fecal Coliform	4A	0.677			1998	L
G13E-13-BAC - Nansemond River - Upper & Shingle Cr							
Recreation	Enterococcus	4A	0.312			1994	L
G13E-13-SF - Burnetts Mill Cr, Nansemond R., Shingle Cr, Star & Oyster, Unseg & WB Tribs to Upper Nansemond							
Shellfishing	Fecal Coliform	4A	3.157			1994	L
Shellfishing	Fecal Coliform	4A	0.278			1998	L
G13E-14-SF - Nansemond River -Lower at Knotts Creek							
Shellfishing	Fecal Coliform	4A	0.467			2010	L
G13E-15-BAC - Knotts Creek - Tributary to E. shore Nansemond R.							
Recreation	Enterococcus	4A	0.122			2014	L
G13E-16-BAC - Nansemond River - Upper Middle							
Recreation	Enterococcus	4A	0.209			2014	L
G13E-17-BAC - Nansemond River - Lower Middle							
Recreation	Enterococcus	4A	2.833			2014	L
G13E-18-BAC - Western Branch - Tributary to Nansemond R.							
Recreation	Enterococcus	4A	0.106			2014	L
G14R-02-BAC - Carbell Swamp - Lower							
Recreation	Escherichia coli (E. coli)	4A			2.88	2010	L
G15E-02-02-BAC - Broad Creek, Southern Branch-Lower Middle and Paradise Creek Recreation Impairment							
Recreation	Enterococcus	4A	0.916			1998	L
Recreation	Enterococcus	4A	0.053			2006	L
G15E-02-03-BAC - Southern Branch, Elizabeth R. - Lower & Middle							
Recreation	Enterococcus	4A	1.074			2016	L
G15E-02-05-BAC - Indian River, tributary of Eastern Branch, Elizabeth River							
Recreation	Enterococcus	4A	0.268			2002	L
G15E-02-06-BAC - Eastern Branch, Elizabeth R. - Lower							
Recreation	Enterococcus	4A	1.015			2006	L
G15E-02-07-BAC - Eastern Branch, Elizabeth R. - Upper							
Recreation	Enterococcus	4A	0.377			2020	L
G15E-04-01-BAC - Western Branch, Elizabeth R. - Upper							
Recreation	Enterococcus	4A	0.561			2006	L
G15E-04-02-BAC - Western Branch, Elizabeth R. - Lower							
Recreation	Enterococcus	4A	1.457			2006	L
G15E-05-02-BAC - Knitting Mill Creek & Lafayette R-Upper							
Recreation	Enterococcus	4A	0.027			2002	L
Recreation	Enterococcus	4A	1.743			2006	L
G15E-06-03-BAC - Hoffer Creek							
Recreation	Enterococcus	4A	0.053			2008	L
H01R-01-BAC - Reed Creek							
Recreation	Escherichia coli (E. coli)	4A			8.83	2004	L
H01R-03-BAC - James River							
Recreation	Escherichia coli (E. coli)	4A			5.37	2016	L
H02R-01-BAC - Pedlar River							
Recreation	Escherichia coli (E. coli)	4A			9.53	2006	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
Recreation	Escherichia coli (E. coli)	4A			1.33	2014	L
Recreation	Escherichia coli (E. coli)	4A			5.54	2016	L
H02R-02-BAC - Pedlar River, Upper							
Recreation	Escherichia coli (E. coli)	4A			8.94	2016	L
H03R-01-BAC - Blackwater Creek							
Recreation	Escherichia coli (E. coli)	4A			10.54	2006	L
H03R-02-BAC - Fishing Creek							
Recreation	Escherichia coli (E. coli)	4A			6.32	2008	L
H03R-03-BAC - Ivy Creek							
Recreation	Escherichia coli (E. coli)	4A			21.45	2008	L
H03R-04-BAC - James River							
Recreation	Escherichia coli (E. coli)	4A			10.76	2008	L
Recreation	Escherichia coli (E. coli)	4A			8.26	2014	L
H03R-05-BAC - Burton Creek							
Recreation	Escherichia coli (E. coli)	4A			3.48	2006	L
H03R-06-BAC - Judith Creek							
Recreation	Escherichia coli (E. coli)	4A			11.09	2006	L
H03R-07-BAC - Tomahawk Creek							
Recreation	Escherichia coli (E. coli)	4A			6.06	2006	L
H03R-08-BAC - Williams Run							
Recreation	Escherichia coli (E. coli)	4A			6.49	2006	L
H03R-09-BAC - Dreaming Creek							
Recreation	Escherichia coli (E. coli)	4A			5.04	2008	L
H03R-10-BAC - Burton Creek, Unnamed Tributary							
Recreation	Escherichia coli (E. coli)	4A			3.46	2008	L
H04R-01-BAC - Graham Creek							
Recreation	Fecal Coliform	4A			5.59	2002	L
H04R-02-BAC - Harris Creek							
Recreation	Escherichia coli (E. coli)	4A			8.33	2008	L
H05R-03-BAC - Beaver Creek							
Recreation	Escherichia coli (E. coli)	4A			8.68	2004	L
H05R-04-BAC - Opossum Creek							
Recreation	Escherichia coli (E. coli)	4A			3.17	2010	L
H05R-05-BAC - Stonewall Creek							
Recreation	Escherichia coli (E. coli)	4A			9.4	2008	L
H05R-06-BAC - Little Beaver Creek							
Recreation	Escherichia coli (E. coli)	4A			7.13	2010	L
H06R-01-BAC - Wreck Island Creek							
Recreation	Escherichia coli (E. coli)	4A			9.78	2008	L
Recreation	Escherichia coli (E. coli)	4A			9.77	2010	L
H06R-01-BEN - Phelps Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			2.21	2010	L
H06R-02-BAC - North Creek							
Recreation	Escherichia coli (E. coli)	4A			5.88	2010	L
H07R-01-BAC - Bent Creek							
Recreation	Escherichia coli (E. coli)	4A			13.83	2008	L
H09R-01-BEN - Montebello Spring Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			0.13	1998	L
H09R-02-BAC - Hat Creek							
Recreation	Escherichia coli (E. coli)	4A			9.52	2010	L
H09R-03-BAC - Tye River							
Recreation	Escherichia coli (E. coli)	4A			8.4	2006	L
Recreation	Escherichia coli (E. coli)	4A			8.24	2008	L
Recreation	Escherichia coli (E. coli)	4A			7.65	2022	L
H10R-01-BAC - Piney River							
Recreation	Escherichia coli (E. coli)	4A			6.9	2008	L
Recreation	Escherichia coli (E. coli)	4A			6.5	2010	L
H11R-01-BAC - Buffalo River							
Recreation	Escherichia coli (E. coli)	4A			3.67	2006	L
Recreation	Escherichia coli (E. coli)	4A			9.85	2010	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
Recreation	Escherichia coli (E. coli)	4A			4.26	2014	L
H11R-01-BEN - Long Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			3.6	2008	L
H11R-02-BAC - Mill Creek							
Recreation	Escherichia coli (E. coli)	4A			4.16	2008	L
H11R-02-BEN - Buffalo River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			2.09	2008	L
H12R-01-BAC - Rutledge Creek							
Recreation	Escherichia coli (E. coli)	4A			3.33	2012	L
H12R-03-BAC - Buffalo River							
Recreation	Escherichia coli (E. coli)	4A			7.81	2008	L
H12R-04-BAC - Turner Creek							
Recreation	Escherichia coli (E. coli)	4A			4.49	2008	L
H12R-05-BAC - Rutledge Creek							
Recreation	Escherichia coli (E. coli)	4A			4.17	2014	L
H13R-01-BAC - Rucker Run							
Recreation	Escherichia coli (E. coli)	4A			18.36	2012	L
H13R-02-BAC - Bobs Creek							
Recreation	Escherichia coli (E. coli)	4A			4.35	2014	L
H15R-01-BAC - South Fork Rockfish River							
Recreation	Escherichia coli (E. coli)	4A			11.56	2008	L
H15R-02-BAC - North Fork Rockfish River							
Recreation	Escherichia coli (E. coli)	4A			7.18	2006	L
H15R-03-BAC - Taylor Creek							
Recreation	Escherichia coli (E. coli)	4A			4.99	2012	L
H15R-04-BAC - Goodwin Creek							
Recreation	Escherichia coli (E. coli)	4A			2.55	2016	L
H16R-01-BAC - Rockfish River							
Recreation	Escherichia coli (E. coli)	4A			5.78	2006	L
H17R-01-BAC - Totier Creek							
Recreation	Escherichia coli (E. coli)	4A			10.33	2008	L
H17R-03-BAC - Ballinger Creek							
Recreation	Escherichia coli (E. coli)	4A			10.09	2008	L
H18R-01-BAC - North Fork Hardware River							
Recreation	Escherichia coli (E. coli)	4A			11.35	2008	L
H18R-02-BAC - South Branch North Fork Hardware River & Tributaries							
Recreation	Escherichia coli (E. coli)	4A			24.02	2008	L
Recreation	Escherichia coli (E. coli)	4A			1.76	2012	L
H19R-01-BAC - Hardware River							
Recreation	Escherichia coli (E. coli)	4A			23.3	2008	L
H20R-01-BAC - Bear Garden Creek							
Recreation	Escherichia coli (E. coli)	4A			9.6	2010	L
H20R-02-BEN - North Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			3.32	2008	L
H21R-01-BAC - Horsepen Creek							
Recreation	Escherichia coli (E. coli)	4A			5.87	2016	L
H21R-02-BAC - Walton Fork							
Recreation	Escherichia coli (E. coli)	4A			3	2018	L
H21R-03-BAC - North River							
Recreation	Escherichia coli (E. coli)	4A			5.98	2008	L
H21R-04-BAC - Slate River							
Recreation	Escherichia coli (E. coli)	4A			6.25	2012	L
H21R-05-BAC - Slate River							
Recreation	Escherichia coli (E. coli)	4A			6.69	2008	L
H22R-01-BAC - Slate River							
Recreation	Escherichia coli (E. coli)	4A			9.04	2008	L
Recreation	Escherichia coli (E. coli)	4A			7.17	2012	L
H22R-02-BAC - Muddy Creek							
Recreation	Escherichia coli (E. coli)	4A			6.77	2008	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
H22R-04-BAC - Hunts Creek							
Recreation	Escherichia coli (E. coli)	4A			11.64	2014	L
H23R-03-BAC - Mechums River							
Recreation	Escherichia coli (E. coli)	4A			11.19	2006	L
Recreation	Escherichia coli (E. coli)	4A			15.17	2012	L
H23R-08-BAC - Stockton Creek							
Recreation	Escherichia coli (E. coli)	4A			12.07	2014	L
H23R-09-BAC - X-trib to Parrott Branch							
Recreation	Escherichia coli (E. coli)	4A			1.15	2024	L
H24R-03-BAC - X-trib to Doyles River							
Recreation	Escherichia coli (E. coli)	4A			4.92	2022	L
H25R-01-BAC - Buck Mountain Creek							
Recreation	Escherichia coli (E. coli)	4A			10.59	2010	L
H26R-01-BAC - Ivy Creek							
Recreation	Escherichia coli (E. coli)	4A			9.51	2014	L
H27R-01-BEN - Flat Branch X-trib							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			2.03	2010	L
H27R-02-BAC - Swift Run							
Recreation	Escherichia coli (E. coli)	4A			1.91	2010	L
H27R-02-BEN - Swift Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			1.91	2012	L
H27R-03-BAC - Preddy Creek							
Recreation	Escherichia coli (E. coli)	4A			7.49	2006	L
Recreation	Escherichia coli (E. coli)	4A			6.25	2010	L
H27R-03-BEN - Preddy Creek North Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			6.25	2010	L
H27R-04-BAC - North Fork Rivanna River							
Recreation	Escherichia coli (E. coli)	4A			10.55	2006	L
Recreation	Escherichia coli (E. coli)	4A			7.33	2010	L
H27R-05-BEN - Marsh Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			3.66	2010	L
H27R-06-BEN - Blue Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			8.72	2012	L
H27R-07-BEN - Stanardsville Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			5.71	2014	L
H27R-08-BEN - Preddy Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			7.49	2016	L
H27R-09-BEN - North Fork Rivanna River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			7.33	2016	L
H27R-10-BEN - Quarter Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			1.58	2016	L
H27R-11-BAC - Foster Branch							
Recreation	Escherichia coli (E. coli)	4A			4.26	2018	L
H28R-01-BEN - Rivanna River/Moores Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			5.49	1996	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			5.92	2006	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			0.54	2008	L
H28R-02-BAC - Moores Creek							
Recreation	Escherichia coli (E. coli)	4A			6.86	2008	L
H28R-02-BEN - Moores Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			6.32	2008	L
H28R-03-BAC - Meadow Creek							
Recreation	Escherichia coli (E. coli)	4A			4.98	2008	L
H28R-04-BAC - Moores Creek X-trib							
Recreation	Escherichia coli (E. coli)	4A			1.66	2020	L
H28R-04-BEN - Moores Creek X-trib							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			1.66	2006	L
H28R-05-BEN - Meadow Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			4.98	2006	L
H28R-06-BAC - Rivanna River							

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Appendix 1c - 2024 Impaired Waters (Category 4A/4D) TMDL Approved and (Category 4B) Other Control Measures Present

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)	4A			5.49	2006	L
H28R-07-BAC - Schenks Branch							
Recreation	Escherichia coli (E. coli)	4A			2.92	2010	L
H28R-07-BEN - Schenks Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			2.92	2008	L
H28R-08-BAC - Rivanna River UT							
Recreation	Escherichia coli (E. coli)	4A			0.43	2022	L
H28R-09-BAC - Meadow Creek X-trib							
Recreation	Escherichia coli (E. coli)	4A			1.78	2022	L
H28R-10-BAC - Biscuit Run							
Recreation	Escherichia coli (E. coli)	4A			6.6	2022	L
Recreation	Escherichia coli (E. coli)	4A			2.28	2024	L
H28R-11-BAC - UT to Moores Creek X-trib							
Recreation	Escherichia coli (E. coli)	4A			1.16	2022	L
H28R-12-BAC - Town Branch							
Recreation	Escherichia coli (E. coli)	4A			1.2	2024	L
H28R-13-BAC - Pollocks Branch							
Recreation	Escherichia coli (E. coli)	4A			0.51	2024	L
H33R-01-BAC - Solomons Creek							
Recreation	Escherichia coli (E. coli)	4A			4.06	2010	L
H33R-03-BAC - Sallee Creek							
Recreation	Escherichia coli (E. coli)	4A			7.08	2014	L
H33R-04-BAC - XAQ - Deep Creek, UT							
Recreation	Escherichia coli (E. coli)	4A			3.18	2016	L
H33R-05-BAC - Davis Creek							
Recreation	Escherichia coli (E. coli)	4A			7.68	2012	L
H33R-06-BAC - James River							
Recreation	Escherichia coli (E. coli)	4A			6.3	2016	L
H33R-08-BAC - Steger Creek							
Recreation	Escherichia coli (E. coli)	4A			3.11	2018	L
H33R-09-BAC - Gaddes Creek							
Recreation	Escherichia coli (E. coli)	4A			2.75	2018	L
H34R-01-BAC - Byrd Creek							
Recreation	Escherichia coli (E. coli)	4A			19.36	2008	L
H34R-03-BAC - Venable Creek							
Recreation	Escherichia coli (E. coli)	4A			8.07	2008	L
H34R-04-BAC - Phils Creek							
Recreation	Escherichia coli (E. coli)	4A			6.69	2008	L
H34R-05-BAC - Mill Creek							
Recreation	Escherichia coli (E. coli)	4A			6	2008	L
H35R-01-BAC - Willis River							
Recreation	Escherichia coli (E. coli)	4A			10.34	2012	L
Recreation	Escherichia coli (E. coli)	4A			12.25	2016	L
H35R-02-BAC - XQM - Willis River, UT							
Recreation	Fecal Coliform	4A			1.68	2004	L
H35R-03-BAC - Little Willis River							
Recreation	Escherichia coli (E. coli)	4A			6.14	2008	L
H35R-04-BAC - Whispering Creek							
Recreation	Escherichia coli (E. coli)	4A			13.47	2014	L
H36R-01-BAC - Willis River							
Recreation	Escherichia coli (E. coli)	4A			14.88	2006	L
H36R-02-BAC - Randolph Creek							
Recreation	Escherichia coli (E. coli)	4A			11.81	2006	L
H36R-04-BAC - Hatcher Creek							
Recreation	Escherichia coli (E. coli)	4A			10.18	2010	L
H36R-05-BAC - Reynolds Creek							
Recreation	Escherichia coli (E. coli)	4A			6.85	2012	L
H36R-07-BAC - Willis River							
Recreation	Escherichia coli (E. coli)	4A			18.13	2008	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
H37R-01-BAC - Big Lickinghole, Little Lickinghole, & White Hall Creeks							
Recreation	Escherichia coli (E. coli)	4A			22.53	2008	L
H37R-02-BAC - Tarred Rat Creek							
Recreation	Escherichia coli (E. coli)	4A			3.31	2008	L
H38R-01-BAC - Little Creek							
Recreation	Escherichia coli (E. coli)	4A			0.65	2012	L
H38R-02-BAC - Mohawk Creek							
Recreation	Escherichia coli (E. coli)	4A			4.69	2012	L
H38R-03-BAC - Beaverdam Creek							
Recreation	Escherichia coli (E. coli)	4A			8.74	2008	L
H38R-04-BAC - Fine Creek							
Recreation	Escherichia coli (E. coli)	4A			10.46	2018	L
H38R-06-BAC - Courthouse Creek							
Recreation	Escherichia coli (E. coli)	4A			10.34	2006	L
H39R-02-BAC - Tuckahoe Creek and Major Tributaries							
Recreation	Escherichia coli (E. coli)	4A			10.19	2002	L
Recreation	Escherichia coli (E. coli)	4A			7.7	2006	L
Recreation	Escherichia coli (E. coli)	4A			1.5	2012	L
Recreation	Escherichia coli (E. coli)	4A			8.97	2014	L
Recreation	Fecal Coliform	4A			5.06	2004	L
H39R-04-BAC - Rattlesnake Creek							
Recreation	Escherichia coli (E. coli)	4A			2.23	2010	L
H39R-06-BAC - Reedy Creek							
Recreation	Escherichia coli (E. coli)	4A			3.83	2006	L
H39R-07-BAC - XZE - James River, UT							
Recreation	Escherichia coli (E. coli)	4A			1.3	2010	L
H39R-08-BAC - James River							
Recreation	Escherichia coli (E. coli)	4A			6.08	2006	L
H39R-10-BAC - Bernards Creek							
Recreation	Escherichia coli (E. coli)	4A			8.13	2008	L
H39R-12-BAC - Salles Creek							
Recreation	Escherichia coli (E. coli)	4A			1.96	2010	L
H39R-13-BAC - Genito Creek							
Recreation	Escherichia coli (E. coli)	4A			6.81	2008	L
H39R-14-BAC - Jones Creek							
Recreation	Escherichia coli (E. coli)	4A			8.2	2012	L
H39R-18-BAC - XHP - Tuckahoe Creek, UT							
Recreation	Escherichia coli (E. coli)	4A			1.73	2006	L
H39R-20-BAC - Norwood Creek							
Recreation	Escherichia coli (E. coli)	4A			6.36	2012	L
H39R-21-BAC - XAB - Salles Creek, UT							
Recreation	Escherichia coli (E. coli)	4A			0.1	2012	L
H39R-22-BAC - Manchester Canal							
Recreation	Escherichia coli (E. coli)	4A			0.86	2012	L
H39R-23-BAC - Michauk Creek							
Recreation	Escherichia coli (E. coli)	4A			4.48	2012	L
H39R-25-BAC - XCK - Reedy Creek, UT (aka Crooked Branch)							
Recreation	Escherichia coli (E. coli)	4A			1.25	2014	L
H39R-26-BAC - Dover Creek							
Recreation	Escherichia coli (E. coli)	4A			4.77	2020	L
H39R-29-BAC - XBH - Reedy Creek, UT							
Recreation	Escherichia coli (E. coli)	4A			0.11	2016	L
H39R-32-BAC - Roberts Branch							
Recreation	Escherichia coli (E. coli)	4A			2.35	2020	L
H39R-33-BAC - Westham Creek							
Recreation	Escherichia coli (E. coli)	4A			2.52	2020	L
I09R-01-BEN - Jackson River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			14.76	1996	L
I13R-01-BAC - Bullpasture River							
Recreation	Escherichia coli (E. coli)	4A			11.94	2006	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
I14R-01-BEN - Pheasanty Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			0.42	1998	L
I19R-01-BAC - Craig Creek							
Recreation	Escherichia coli (E. coli)	4A			7.92	2004	L
I21R-01-BAC - Johns Creek							
Recreation	Escherichia coli (E. coli)	4A			2.21	2020	L
I21R-02-BAC - Johns Creek							
Recreation	Escherichia coli (E. coli)	4A			4.43	2020	L
I22R-01-BAC - Barbours Creek							
Recreation	Fecal Coliform	4A			7.16	2004	L
I22R-02-BAC - Craig Creek							
Recreation	Escherichia coli (E. coli)	4A			11.44	2012	L
Recreation	Escherichia coli (E. coli)	4A			8.14	2020	L
I22R-04-BAC - Little Patterson Creek							
Recreation	Escherichia coli (E. coli)	4A			4.25	2012	L
I22R-05-BAC - Craig Creek							
Recreation	Escherichia coli (E. coli)	4A			27.59	2016	L
I24R-01-BAC - Lapsley Run							
Recreation	Escherichia coli (E. coli)	4A			9.01	2008	L
I25R-01-BAC - Catawba Creek							
Recreation	Escherichia coli (E. coli)	4A			13.48	2010	L
Recreation	Escherichia coli (E. coli)	4A			3.23	2018	L
Recreation	Escherichia coli (E. coli)	4A			11.72	2020	L
I25R-01-BEN - Catawba Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			3.23	2008	L
I25R-02-BAC - Haymaker Branch							
Recreation	Escherichia coli (E. coli)	4A			1.37	2020	L
I26R-01-BAC - Looney Creek Drainage							
Recreation	Escherichia coli (E. coli)	4A			2.66	1998	L
I26R-02-BAC - Ellis Run and Mill Creek							
Recreation	Escherichia coli (E. coli)	4A			10.59	2004	L
I28R-01-BAC - Cedar Creek							
Recreation	Escherichia coli (E. coli)	4A			12.11	2010	L
I32R-01-BEN - Wallace Mill Stream							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			0.88	1998	L
I32R-02-BEN - Little Calfpasture River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			0.81	1996	L
I33R-01-BAC - Cedar Grove Branch							
Recreation	Escherichia coli (E. coli)	4A			4.62	2008	L
I33R-02-BAC - Maury River							
Recreation	Escherichia coli (E. coli)	4A			12.99	2020	L
Recreation	Escherichia coli (E. coli)	4A			6.23	2024	L
I33R-03-BAC - Kerrs Creek							
Recreation	Escherichia coli (E. coli)	4A			11.87	2012	L
I34R-01-BAC - Hays Creek/Moffatts Creek							
Recreation	Escherichia coli (E. coli)	4A			20.8	2008	L
I34R-03-BAC - Walker Creek							
Recreation	Escherichia coli (E. coli)	4A			8.8	2006	L
I34R-04-BAC - Otts Creek							
Recreation	Escherichia coli (E. coli)	4A			5.4	2006	L
I35R-02-BAC - Mill Creek							
Recreation	Escherichia coli (E. coli)	4A			9.14	2008	L
I35R-03-BAC - Woods Creek							
Recreation	Escherichia coli (E. coli)	4A			6.05	2012	L
I36R-06-BAC - South River							
Recreation	Escherichia coli (E. coli)	4A			7.96	2012	L
I37R-03-BAC - Poague Run							
Recreation	Escherichia coli (E. coli)	4A			17.12	2014	L
I38R-01-BAC - Buffalo Creek							
Recreation	Escherichia coli (E. coli)	4A			3.96	2008	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
Recreation	Escherichia coli (E. coli)	4A			12.13	2010	L
I38R-02-BAC - Colliers Creek							
Recreation	Escherichia coli (E. coli)	4A			15.11	2010	L
I38R-03-BAC - South Fork Buffalo Creek							
Recreation	Escherichia coli (E. coli)	4A			14.48	2010	L
J01R-01-BAC - Appomattox River							
Recreation	Escherichia coli (E. coli)	4A			86.66	2006	L
Recreation	Escherichia coli (E. coli)	4A			6.85	2014	L
Recreation	Fecal Coliform	4A			4.73	2004	L
J01R-02-BAC - Horsepen Creek							
Recreation	Escherichia coli (E. coli)	4A			4.01	2010	L
J01R-03-BAC - Suanee Creek							
Recreation	Escherichia coli (E. coli)	4A			6.31	2006	L
J01R-04-BAC - Vaughans Creek							
Recreation	Escherichia coli (E. coli)	4A			4.31	2006	L
Recreation	Escherichia coli (E. coli)	4A			8.61	2010	L
J01R-05-BAC - Gross Creek							
Recreation	Escherichia coli (E. coli)	4A			1.91	2008	L
J01R-06-BAC - Gross Creek, UT							
Recreation	Escherichia coli (E. coli)	4A			0.64	2008	L
J01R-07-BAC - Harris Creek							
Recreation	Escherichia coli (E. coli)	4A			6.53	2008	L
J01R-08-BAC - South Fork Appomattox River							
Recreation	Escherichia coli (E. coli)	4A			5.79	2010	L
J01R-09-BAC - Crane Creek							
Recreation	Escherichia coli (E. coli)	4A			5.19	2010	L
J01R-10-BAC - Fishpond Creek							
Recreation	Escherichia coli (E. coli)	4A			9.5	2010	L
J01R-11-BAC - Rough Creek							
Recreation	Escherichia coli (E. coli)	4A			6.5	2010	L
J01R-12-BAC - Ducker Creek							
Recreation	Escherichia coli (E. coli)	4A			5.74	2012	L
J01R-13-BAC - Appomattox River							
Recreation	Escherichia coli (E. coli)	4A			7.9	2014	L
J01R-14-BAC - Holiday Creek							
Recreation	Escherichia coli (E. coli)	4A			6.7	2018	L
J01R-15-BAC - Gannaway Creek							
Recreation	Escherichia coli (E. coli)	4A			3.08	2020	L
J02R-01-BAC - Spring Creek							
Recreation	Escherichia coli (E. coli)	4A			2.39	2006	L
J02R-02-BAC - Buffalo Creek							
Recreation	Escherichia coli (E. coli)	4A			11.04	2006	L
Recreation	Escherichia coli (E. coli)	4A			5.16	2014	L
J03R-01-BAC - Little Sandy Creek							
Recreation	Escherichia coli (E. coli)	4A			3.27	2006	L
J03R-05-BAC - Sandy River							
Recreation	Escherichia coli (E. coli)	4A			3.44	2008	L
J04R-01-BAC - Bush River							
Recreation	Escherichia coli (E. coli)	4A			4.41	2006	L
Recreation	Escherichia coli (E. coli)	4A			0.81	2008	L
J04R-02-BAC - Bush River, Upper							
Recreation	Escherichia coli (E. coli)	4A			11.49	2016	L
J04R-03-BAC - Mountain Creek							
Recreation	Escherichia coli (E. coli)	4A			9.9	2018	L
J05R-01-BAC - Briery Creek							
Recreation	Escherichia coli (E. coli)	4A			10.48	2006	L
J05R-02-BAC - Tanyard Branch							
Recreation	Escherichia coli (E. coli)	4A			0.46	2006	L
J06R-01-BAC - Angola Creek							
Recreation	Escherichia coli (E. coli)	4A			6.98	2006	L

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Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
J06R-03-BAC - Horsepen Creek							
Recreation	Escherichia coli (E. coli)	4A			3.99	2006	L
J06R-04-BAC - Saylers Creek							
Recreation	Escherichia coli (E. coli)	4A			5.13	2004	L
J06R-05-BAC - Big Guinea Creek							
Recreation	Escherichia coli (E. coli)	4A			8.73	2006	L
J06R-06-BAC - Little Saylers Creek							
Recreation	Escherichia coli (E. coli)	4A			6.78	2006	L
J06R-07-BAC - Stock Creek							
Recreation	Escherichia coli (E. coli)	4A			8.7	2006	L
J06R-08-BAC - Green Creek							
Recreation	Escherichia coli (E. coli)	4A			5.15	2008	L
J06R-09-BAC - Sandy Creek							
Recreation	Escherichia coli (E. coli)	4A			8.29	2016	L
J07R-02-BAC - Rocky Ford Creek							
Recreation	Escherichia coli (E. coli)	4A			5.72	2008	L
J07R-03-BAC - Butterwood Creek							
Recreation	Escherichia coli (E. coli)	4A			5.62	2010	L
J08R-01-BAC - Flat Creek							
Recreation	Escherichia coli (E. coli)	4A			4.1	2006	L
J08R-02-BAC - Flat Creek							
Recreation	Escherichia coli (E. coli)	4A			29.9	2008	L
J09R-01-BAC - Nibbs Creek							
Recreation	Escherichia coli (E. coli)	4A			5.47	2006	L
J09R-02-BAC - Nibbs Creek							
Recreation	Escherichia coli (E. coli)	4A			0.64	2010	L
J09R-03-BAC - Nibbs Creek							
Recreation	Escherichia coli (E. coli)	4A			5.87	2012	L
J10R-03-BAC - Smacks Creek							
Recreation	Escherichia coli (E. coli)	4A			9.07	2010	L
J11R-03-BAC - Bland Creek							
Recreation	Escherichia coli (E. coli)	4A			6.51	2012	L
J11R-04-BAC - Cellar Creek							
Recreation	Escherichia coli (E. coli)	4A			10.97	2010	L
Recreation	Escherichia coli (E. coli)	4A			2.7	2016	L
J11R-05-BAC - Woody Creek							
Recreation	Escherichia coli (E. coli)	4A			7.98	2010	L
J11R-06-BAC - Lees Creek							
Recreation	Escherichia coli (E. coli)	4A			3.32	2010	L
J11R-07-BAC - UT to Wittingham Creek (easternmost)							
Recreation	Escherichia coli (E. coli)	4A			2.16	2010	L
J11R-08-BAC - Beaverpond Creek							
Recreation	Escherichia coli (E. coli)	4A			6.48	2012	L
J11R-09-BAC - Sweathouse Creek							
Recreation	Escherichia coli (E. coli)	4A			11.41	2012	L
J11R-10-BAC - Wittingham Creek							
Recreation	Escherichia coli (E. coli)	4A			5.94	2012	L
J11R-11-BAC - UT to Wittingham Creek (West)							
Recreation	Escherichia coli (E. coli)	4A			2.07	2012	L
J11R-12-BAC - Deep Creek							
Recreation	Escherichia coli (E. coli)	4A			1.66	2010	L
J11R-13-BAC - Rocky Run							
Recreation	Escherichia coli (E. coli)	4A			3.43	2012	L
J11R-14-BAC - West Creek							
Recreation	Escherichia coli (E. coli)	4A			7.37	2006	L
J12R-01-BAC - Winticomack Creek							
Recreation	Escherichia coli (E. coli)	4A			4.07	2010	L
J12R-08-BAC - Appomattox River							
Recreation	Escherichia coli (E. coli)	4A			8.78	2008	L

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Appendix 1c - 2024 Impaired Waters (Category 4A/4D) TMDL Approved and (Category 4B) Other Control Measures Present

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
J14R-02-BAC - Stoney Creek							
Recreation	Escherichia coli (E. coli)	4A			2.59	2020	L
J14R-03-BAC - Whipponock Creek							
Recreation	Escherichia coli (E. coli)	4A			6.82	2010	L
J15R-01-BAC - Appomattox River							
Recreation	Escherichia coli (E. coli)	4A			1.95	2020	L
J15R-02-BAC - Oldtown Creek							
Recreation	Escherichia coli (E. coli)	4A			4.23	2020	L
Recreation	Fecal Coliform	4A			4.23	2006	L
J15R-03-BAC - Harrison Creek							
Recreation	Escherichia coli (E. coli)	4A			3.23	2006	L
J15R-04-BAC - Poor Creek							
Recreation	Fecal Coliform	4A			3.14	2004	L
J15R-06-BAC - Lieutenant Run							
Recreation	Escherichia coli (E. coli)	4A			3.5	2008	L
J15R-07-BAC - Ashton Creek							
Recreation	Escherichia coli (E. coli)	4A			7.81	2006	L
J15R-09-BAC - Cattail Run							
Recreation	Escherichia coli (E. coli)	4A			4.27	2012	L
J16R-01-BAC - Swift Creek							
Recreation	Escherichia coli (E. coli)	4A			1.8	2006	L
J16R-03-BAC - Horsepen Creek							
Recreation	Escherichia coli (E. coli)	4A			3.58	2018	L
J17E-01-BAC - Swift Creek							
Recreation	Escherichia coli (E. coli)	4A	0.087			2006	L
J17L-02-BAC - Lakeview Reservoir							
Recreation	Escherichia coli (E. coli)	4A		43.5		2016	L
J17R-03-BAC - Franks Branch							
Recreation	Escherichia coli (E. coli)	4A			10.36	2020	L
J17R-04-BAC - Swift Creek							
Recreation	Escherichia coli (E. coli)	4A			5.12	2006	L
J17R-06-BAC - Nuttree Branch							
Recreation	Escherichia coli (E. coli)	4A			5.58	2018	L
J17R-12-BAC - Licking Creek							
Recreation	Escherichia coli (E. coli)	4A			0.47	2010	L
JMSMH-SAV-BAY - Chesapeake Bay segment JMSMH							
Aquatic Life	Aquatic Plants (Macrophytes)	4A	106.47			2006	L
Aquatic Life	Aquatic Plants (Macrophytes)	4A	12.042			2014	L
Shallow-Water	Aquatic Plants (Macrophytes)	4A	106.47			2006	L
Submerged Aquatic Vegetation							
Shallow-Water	Aquatic Plants (Macrophytes)	4A	12.042			2014	L
Submerged Aquatic Vegetation							
JMSPH-SAV-BAY - Chesapeake Bay segment JMSPH							
Aquatic Life	Aquatic Plants (Macrophytes)	4A	28.765			2006	L
Aquatic Life	Aquatic Plants (Macrophytes)	4A	0.915			2020	L
Shallow-Water	Aquatic Plants (Macrophytes)	4A	28.765			2006	L
Submerged Aquatic Vegetation							
Shallow-Water	Aquatic Plants (Macrophytes)	4A	0.915			2020	L
Submerged Aquatic Vegetation							
JMSTFL-SAV-BAY - James River Tidal Freshwater (Lower) Estuary							
Aquatic Life	Aquatic Plants (Macrophytes)	4A	29.026			2006	L
Aquatic Life	Aquatic Plants (Macrophytes)	4A	0.042			2008	L
Shallow-Water	Aquatic Plants (Macrophytes)	4A	29.026			2006	L
Submerged Aquatic Vegetation							
Shallow-Water	Aquatic Plants (Macrophytes)	4A	0.042			2008	L
Submerged Aquatic Vegetation							

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Appendix 1c - 2024 Impaired Waters (Category 4A/4D) TMDL Approved and (Category 4B) Other Control Measures Present

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
JMSTFU-SAV-BAY - James River Tidal Freshwater (Upper) Estuary							
Aquatic Life	Aquatic Plants (Macrophytes)	4A	7.746			2006	L
Shallow-Water	Aquatic Plants (Macrophytes)	4A	7.746			2006	L
Submerged Aquatic Vegetation							
SBEMH-DO-BAY - Chesapeake Bay segment SBEMH (Southern Branch, Elizabeth River)							
Aquatic Life	Dissolved Oxygen	4A	3.152			2006	L
Deep-Water Aquatic Life	Dissolved Oxygen	4A	2.868			2006	L
Open-Water Aquatic Life	Dissolved Oxygen	4A	3.152			2006	L
WBEMH-DO-BAY - Chesapeake Bay segment WBEMH (Western Branch, Elizabeth River)							
Aquatic Life	Dissolved Oxygen	4A	2.814			2006	L
Open-Water Aquatic Life	Dissolved Oxygen	4A	2.814			2006	L

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Rappahannock River Basin

Cause Group - Water Name		Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Impaired Use	Cause						
CRRMH-DO-BAY - Corrotoman River Mesohaline Estuary (CRRMH)							
Aquatic Life	Dissolved Oxygen	4A	3.769			1998	L
Aquatic Life	Dissolved Oxygen	4A	5.435			2006	L
Open-Water Aquatic Life	Dissolved Oxygen	4A	3.769			1998	L
Open-Water Aquatic Life	Dissolved Oxygen	4A	5.435			2006	L
CRRMH-SAV-BAY - Corrotoman River Mesohaline Estuary (CRRMH)							
Aquatic Life	Aquatic Plants (Macrophytes)	4A	9.204			2012	L
Shallow-Water	Aquatic Plants (Macrophytes)	4A	9.204			2012	L
Submerged Aquatic Vegetation							
E01R-01-BAC - Thumb Run							
Recreation	Escherichia coli (E. coli)	4A			7.68	2010	L
E01R-02-BAC - Thumb Run, West Branch							
Recreation	Escherichia coli (E. coli)	4A			12.09	2002	L
E01R-03-BAC - Rappahannock River							
Recreation	Escherichia coli (E. coli)	4A			2.28	2006	L
Recreation	Escherichia coli (E. coli)	4A			7.77	2020	L
E01R-04-BAC - Thumb Run, East Branch							
Recreation	Escherichia coli (E. coli)	4A			6.59	2004	L
E01R-05-BAC - Fiery Run							
Recreation	Escherichia coli (E. coli)	4A			9.39	2010	L
E01R-06-BAC - Jordan River							
Recreation	Escherichia coli (E. coli)	4A			7.05	2012	L
Recreation	Escherichia coli (E. coli)	4A			3.85	2020	L
E01R-07-BAC - Buck Run							
Recreation	Escherichia coli (E. coli)	4A			9.76	2016	L
E01R-08-BAC - Rappahannock River							
Recreation	Escherichia coli (E. coli)	4A			4.09	2020	L
E01R-09-BAC - Indian Run							
Recreation	Escherichia coli (E. coli)	4A			1.88	2020	L
E02R-01-BAC - Carter Run							
Recreation	Escherichia coli (E. coli)	4A			3.62	1998	L
Recreation	Escherichia coli (E. coli)	4A			8.77	2006	L
E02R-02-BAC - Great Run							
Recreation	Escherichia coli (E. coli)	4A			16.67	2004	L
E02R-03-BAC - Rappahannock River							
Recreation	Escherichia coli (E. coli)	4A			7.05	2006	L
Recreation	Escherichia coli (E. coli)	4A			2.99	2016	L
Recreation	Escherichia coli (E. coli)	4A			6.24	2020	L
E02R-04-BAC - Barrows Run							
Recreation	Escherichia coli (E. coli)	4A			4.53	2006	L
E02R-05-BAC - South Run							
Recreation	Escherichia coli (E. coli)	4A			4.1	2006	L
E02R-07-BAC - Glascock Run							
Recreation	Escherichia coli (E. coli)	4A			3.82	2012	L
E02R-08-BAC - Horner Run							
Recreation	Escherichia coli (E. coli)	4A			2.36	2020	L
E03R-01-BAC - Hughes River							
Recreation	Escherichia coli (E. coli)	4A			3.85	2004	L
E03R-02-BAC - Popham Run							
Recreation	Escherichia coli (E. coli)	4A			2.22	2012	L
E04R-01-BAC - Hazel River							
Recreation	Escherichia coli (E. coli)	4A			5.78	2002	L
Recreation	Escherichia coli (E. coli)	4A			3.64	2016	L
Recreation	Escherichia coli (E. coli)	4A			0.83	2022	L
E04R-02-BAC - Blackwater Creek							
Recreation	Escherichia coli (E. coli)	4A			8.98	2010	L
E04R-03-BAC - Hazel River							
Recreation	Escherichia coli (E. coli)	4A			2.97	2020	L

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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
E05R-01-BAC - Rush River							
Recreation	Escherichia coli (E. coli)	4A			5.87	2002	L
E05R-02-BAC - Thornton River							
Recreation	Escherichia coli (E. coli)	4A			3.45	2006	L
E05R-03-BAC - Big Branch							
Recreation	Escherichia coli (E. coli)	4A			3.05	2010	L
E05R-04-BAC - Rush River							
Recreation	Escherichia coli (E. coli)	4A			3.36	2024	L
E05R-05-BAC - Thornton River, North Fork							
Recreation	Escherichia coli (E. coli)	4A			1.94	2022	L
E05R-06-BAC - Covington River							
Recreation	Escherichia coli (E. coli)	4A			7.38	2024	L
E06R-01-BAC - Thornton River							
Recreation	Escherichia coli (E. coli)	4A			5.52	2006	L
E06R-02-BAC - Battle Run							
Recreation	Escherichia coli (E. coli)	4A			2.24	2008	L
E06R-03-BAC - Unnamed tributary to Thornton River							
Recreation	Escherichia coli (E. coli)	4A			5.02	2012	L
E06R-04-BAC - Mill Run							
Recreation	Escherichia coli (E. coli)	4A			5.9	2020	L
E07R-01-BAC - Muddy Run							
Recreation	Escherichia coli (E. coli)	4A			6.09	1996	L
Recreation	Escherichia coli (E. coli)	4A			8.25	2002	L
E07R-02-BAC - Hazel River							
Recreation	Escherichia coli (E. coli)	4A			3.36	2006	L
E07R-03-BAC - Indian Run							
Recreation	Escherichia coli (E. coli)	4A			3.84	2020	L
E07R-04-BAC - Waterford Run							
Recreation	Escherichia coli (E. coli)	4A			6.23	2020	L
E08R-01-BAC - Marsh Run							
Recreation	Escherichia coli (E. coli)	4A			2.32	1996	L
Recreation	Escherichia coli (E. coli)	4A			3.87	2008	L
Recreation	Escherichia coli (E. coli)	4A			6.01	2012	L
E08R-02-BAC - Browns Run							
Recreation	Escherichia coli (E. coli)	4A			2.55	2002	L
E08R-03-BAC - Craig Run							
Recreation	Escherichia coli (E. coli)	4A			3.72	2004	L
E08R-04-BAC - Rappahannock River							
Recreation	Escherichia coli (E. coli)	4A			2.11	2004	L
E08R-05-BAC - Rappahannock River							
Recreation	Escherichia coli (E. coli)	4A			2.86	2006	L
E08R-06-BAC - Tinpot Run							
Recreation	Escherichia coli (E. coli)	4A			1.29	2008	L
E09L-01-BAC - Mountain Run Reservoir							
Recreation	Escherichia coli (E. coli)	4A		72.76		2020	L
E09R-01-BAC - Mountain Run							
Recreation	Escherichia coli (E. coli)	4A			7.59	1996	L
E09R-02-BAC - Mountain Run							
Recreation	Escherichia coli (E. coli)	4A			6.65	2010	L
Recreation	Escherichia coli (E. coli)	4A			4.63	2016	L
Recreation	Escherichia coli (E. coli)	4A			5.67	2022	L
E09R-03-BAC - Mountain Run							
Recreation	Escherichia coli (E. coli)	4A			1.63	2006	L
E09R-04-BAC - Jonas Run							
Recreation	Escherichia coli (E. coli)	4A			3.78	2008	L
E09R-05-BAC - Flat Run							
Recreation	Escherichia coli (E. coli)	4A			6.23	2014	L
E09R-06-BAC - Unnamed tributary to Jonas Run							
Recreation	Escherichia coli (E. coli)	4A			0.53	2020	L
E10R-01-BAC - Deep 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
Recreation	Escherichia coli (E. coli)	4A			4.93	1996	L
Recreation	Escherichia coli (E. coli)	4A			3.75	2014	L
E10R-03-BAC - Alcott Run							
Recreation	Escherichia coli (E. coli)	4A			5.17	2012	L
E11R-01-BAC - Garth Run							
Recreation	Escherichia coli (E. coli)	4A			1.61	2014	L
Recreation	Escherichia coli (E. coli)	4A			5.82	2018	L
E12R-01-BAC - Rapidan River							
Recreation	Escherichia coli (E. coli)	4A			7.27	2006	L
E12R-02-BAC - Rippin Run							
Recreation	Escherichia coli (E. coli)	4A			0.6	2012	L
E12R-03-BAC - South River							
Recreation	Escherichia coli (E. coli)	4A			1.67	2020	L
E13R-01-BAC - Blue Run							
Recreation	Escherichia coli (E. coli)	4A			4.35	2002	L
Recreation	Escherichia coli (E. coli)	4A			8.38	2006	L
E13R-03-BAC - Unnamed tributary to Beautiful Run							
Recreation	Escherichia coli (E. coli)	4A			2.02	2020	L
E13R-04-BAC - Unnamed tributary to the Rapidan River							
Recreation	Escherichia coli (E. coli)	4A			2.67	2004	L
E13R-05-BAC - Beautiful Run							
Recreation	Escherichia coli (E. coli)	4A			1.18	2006	L
Recreation	Escherichia coli (E. coli)	4A			2.51	2012	L
Recreation	Escherichia coli (E. coli)	4A			8.46	2016	L
E13R-06-BAC - Rapidan River							
Recreation	Escherichia coli (E. coli)	4A			4.34	2006	L
E13R-07-BAC - Unnamed tributary to Rapidan River							
Recreation	Escherichia coli (E. coli)	4A			3.11	2006	L
E13R-08-BAC - Marsh Run							
Recreation	Escherichia coli (E. coli)	4A			5.65	2014	L
E13R-09-BAC - Poplar Run							
Recreation	Escherichia coli (E. coli)	4A			4.15	2014	L
E14R-02-BAC - Finks Run							
Recreation	Escherichia coli (E. coli)	4A			3.17	2006	L
E14R-03-BAC - White Oak Run							
Recreation	Escherichia coli (E. coli)	4A			3.19	2006	L
E14R-04-BAC - Leathers Run							
Recreation	Escherichia coli (E. coli)	4A			2.18	2006	L
E15R-01-BAC - Little Dark Run							
Recreation	Escherichia coli (E. coli)	4A			4.54	1998	L
E15R-02-BAC - Robinson River							
Recreation	Escherichia coli (E. coli)	4A			5.32	2004	L
Recreation	Escherichia coli (E. coli)	4A			8.83	2022	L
E15R-03-BAC - Deep Run							
Recreation	Escherichia coli (E. coli)	4A			2.48	2008	L
E15R-04-BAC - Crooked Run							
Recreation	Escherichia coli (E. coli)	4A			7.89	2008	L
E15R-05-BAC - Great Run							
Recreation	Escherichia coli (E. coli)	4A			9.31	2008	L
E15R-06-BAC - Dark Run							
Recreation	Escherichia coli (E. coli)	4A			8.59	2010	L
E16R-01-BAC - Cedar Run							
Recreation	Escherichia coli (E. coli)	4A			3.54	2006	L
Recreation	Escherichia coli (E. coli)	4A			2.26	2018	L
E16R-02-BAC - Rapidan River							
Recreation	Escherichia coli (E. coli)	4A			4.66	2006	L
E16R-03-BAC - Rapidan River							
Recreation	Escherichia coli (E. coli)	4A			3.4	2008	L
E16R-04-BAC - Cabin Branch							
Recreation	Escherichia coli (E. coli)	4A			3.19	2022	L

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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
E17R-01-BAC - Mine Run							
Recreation	Escherichia coli (E. coli)	4A			10.5	2002	L
E17R-02-BAC - Mountain Run							
Recreation	Escherichia coli (E. coli)	4A			10.11	2002	L
Recreation	Escherichia coli (E. coli)	4A			7.46	2006	L
E17R-03-BAC - Black Walnut Run							
Recreation	Escherichia coli (E. coli)	4A			6.48	2006	L
E17R-04-BAC - Sumerduck Run							
Recreation	Escherichia coli (E. coli)	4A			6.21	2014	L
E17R-05-BAC - Potato Run							
Recreation	Escherichia coli (E. coli)	4A			6.84	2014	L
E17R-06-BAC - Brook Run							
Recreation	Escherichia coli (E. coli)	4A			2.51	2018	L
E18R-02-BAC - Wilderness Run							
Recreation	Escherichia coli (E. coli)	4A			5.56	2008	L
E18R-03-BAC - Rapidan River							
Recreation	Escherichia coli (E. coli)	4A			3.41	2008	L
E20E-01-BAC - Rappahannock River							
Recreation	Escherichia coli (E. coli)	4A	0.33			2002	L
Recreation	Escherichia coli (E. coli)	4A	3.436			2006	L
E20R-01-BAC - Claiborne Run							
Recreation	Escherichia coli (E. coli)	4A			4.52	2004	L
E20R-02-BAC - Hazel Run							
Recreation	Escherichia coli (E. coli)	4A			4.73	2004	L
E20R-03-BAC - Massaponax Creek							
Recreation	Escherichia coli (E. coli)	4A			5.19	2004	L
Recreation	Escherichia coli (E. coli)	4A			1.21	2006	L
Recreation	Escherichia coli (E. coli)	4A			1.67	2010	L
E20R-04-BAC - Massaponax Creek							
Recreation	Escherichia coli (E. coli)	4A			2.17	2008	L
E20R-05-BAC - Unnamed Tributary to Hazel Run							
Recreation	Escherichia coli (E. coli)	4A			1.53	2014	L
E20R-06-BAC - Unnamed tributary to Hazel Run							
Recreation	Escherichia coli (E. coli)	4A			2.23	2014	L
E20R-07-BAC - Little Falls Run							
Recreation	Escherichia coli (E. coli)	4A			4.93	2016	L
E20R-08-BAC - Deep Run							
Recreation	Escherichia coli (E. coli)	4A			1.67	2018	L
E20R-09-BAC - Rappahannock River							
Recreation	Escherichia coli (E. coli)	4A			2.66	2018	L
E21R-01-BAC - Muddy Creek							
Recreation	Escherichia coli (E. coli)	4A			3.58	2008	L
E21R-02-BAC - Ware Creek							
Recreation	Escherichia coli (E. coli)	4A			4.5	2010	L
E21R-04-BAC - Goldenvale Creek							
Recreation	Escherichia coli (E. coli)	4A			5.31	2020	L
E21R-05-BAC - Mount Creek							
Recreation	Escherichia coli (E. coli)	4A			4.46	2008	L
E21R-06-BAC - Lambs Creek							
Recreation	Escherichia coli (E. coli)	4A			0.54	2008	L
E21R-07-BAC - Mill Creek							
Recreation	Escherichia coli (E. coli)	4A			4.59	2008	L
E21R-10-BAC - Jetts Creek							
Recreation	Escherichia coli (E. coli)	4A			1.85	2010	L
E21R-11-BAC - Portobago Creek							
Recreation	Escherichia coli (E. coli)	4A			7	2010	L
E21R-12-BAC - White Oak Run							
Recreation	Escherichia coli (E. coli)	4A			6.52	2014	L
E22E-03-BAC - Peedee Creek							
Recreation	Enterococcus	4A	0.15			2014	L

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Appendix 1c - 2024 Impaired Waters (Category 4A/4D) TMDL Approved and (Category 4B) Other Control Measures Present

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
E22E-04-BAC - Occupacia Creek							
Recreation	Enterococcus	4A	0.668			2014	L
E22E-05-BAC - Rappahannock River							
Recreation	Enterococcus	4A	1.344			2014	L
E22E-06-BAC - Rappahannock River							
Recreation	Enterococcus	4A	6.958			2014	L
E22E-07-BAC - Rappahannock River							
Recreation	Enterococcus	4A	2.003			2014	L
E22E-09-BAC - Waterview Creek							
Recreation	Enterococcus	4A	0.038			2018	L
E22E-10-BAC - Bridge Creek							
Recreation	Enterococcus	4A	0.123			2020	L
E22R-01-BAC - Occupacia Creek							
Recreation	Escherichia coli (E. coli)	4A			2.34	2006	L
E22R-02-BAC - Farmers Hall Creek							
Recreation	Escherichia coli (E. coli)	4A			4.01	2022	L
E22R-04-BAC - Elmwood Creek and Tributary XHY							
Recreation	Escherichia coli (E. coli)	4A			9.07	2014	L
E22R-05-BAC - Bayers Creek							
Recreation	Escherichia coli (E. coli)	4A			5.89	2008	L
E22R-06-BAC - Peedee Creek							
Recreation	Escherichia coli (E. coli)	4A			3.3	2020	L
E22R-08-BAC - Stillwater Creek							
Recreation	Escherichia coli (E. coli)	4A			3.53	2014	L
E22R-11-BAC - Smoots Mill Run, UT							
Recreation	Escherichia coli (E. coli)	4A			1.67	2020	L
E22R-12-BAC - Troy Creek							
Recreation	Escherichia coli (E. coli)	4A			4.29	2020	L
E23E-01-SF - Upper Rappahannock River, Little Carter Creek, Jugs Creek							
Shellfishing	Fecal Coliform	4A	9.131			1998	L
Shellfishing	Fecal Coliform	4A	0.049			2006	L
E23E-02-BAC - Cat Point Creek							
Recreation	Enterococcus	4A	1.28			2010	L
E23E-03-BAC - Hoskins Creek							
Recreation	Enterococcus	4A	0.084			2006	L
E23E-03-BAC2 - Hoskins Creek, Church Swamp							
Recreation	Enterococcus	4A	0.016			2006	L
Recreation	Enterococcus	4A	0.054			2008	L
E23E-05-BAC - Little Carter Creek & Jugs Creek							
Recreation	Enterococcus	4A	0.419			2012	L
E23E-06-BAC - Piscataway Creek							
Recreation	Enterococcus	4A	0.589			2016	L
E23E-07-BAC - Mount Landing Creek							
Recreation	Enterococcus	4A	0.172			2020	L
E23R-04-BAC - Hoskins Creek							
Recreation	Escherichia coli (E. coli)	4A			13.17	2014	L
E23R-06-BAC - Cat Point Creek and Tributaries							
Recreation	Escherichia coli (E. coli)	4A			5.34	2010	L
Recreation	Escherichia coli (E. coli)	4A			3.58	2012	L
Recreation	Escherichia coli (E. coli)	4A			109.44	2014	L
E23R-08-BAC - Muddy Run							
Recreation	Escherichia coli (E. coli)	4A			4.66	2014	L
E23R-19-BAC - Clarks Run							
Recreation	Escherichia coli (E. coli)	4A			3.83	2014	L
E23R-22-BAC - Mount Landing Creek							
Recreation	Escherichia coli (E. coli)	4A			1.16	2020	L
E24E-01-SF - Richardson Creek / Rappahannock River / Totuskey Creek							
Shellfishing	Fecal Coliform	4A	0.321			1998	L
Shellfishing	Fecal Coliform	4A	0.378			2018	L
Shellfishing	Fecal Coliform	4A	0.064			2024	L

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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
E24E-02-BAC - Totuskey Creek							
Recreation	Enterococcus	4A	1.068			2006	L
E24E-06-SF - Garrett's Marina							
Shellfishing	Fecal Coliform	4A	0.003			2022	L
E24E-07-SF - Rappahannock River at Brown's Point							
Shellfishing	Fecal Coliform	4A	0.061			2024	L
E24R-01-BAC - Bookers Mill Stream							
Recreation	Escherichia coli (E. coli)	4A			6.54	2012	L
E24R-02-BAC - Totuskey Creek							
Recreation	Escherichia coli (E. coli)	4A			8.05	2006	L
E24R-03-BAC - Muddy Gut							
Recreation	Escherichia coli (E. coli)	4A			2.64	2008	L
E24R-04-BAC - Little Totuskey Creek							
Recreation	Escherichia coli (E. coli)	4A			1.91	2012	L
E24R-06-BAC - Richardson Creek and Tributaries							
Recreation	Escherichia coli (E. coli)	4A			17.22	2012	L
E24R-07-BAC - Totuskey Creek Tributaries							
Recreation	Escherichia coli (E. coli)	4A			75.28	2012	L
E24R-10-BAC - Bellview Creek							
Recreation	Escherichia coli (E. coli)	4A			3.31	2020	L
E25E-01-BAC - Lagrange Creek							
Recreation	Enterococcus	4A	0.598			2012	L
E25E-01-SF - Lagrange Creek							
Shellfishing	Fecal Coliform	4A	0.561			1998	L
E25E-02-BAC - Robinson Creek							
Recreation	Fecal Coliform	4A	0.168			1998	L
Recreation	Fecal Coliform	4A	0.039			2002	L
Shellfishing	Fecal Coliform	4A	0.168			1998	L
Shellfishing	Fecal Coliform	4A	0.039			2002	L
E25E-02-SF - Robinson Creek							
Recreation	Fecal Coliform	4A	0.168			1998	L
Shellfishing	Fecal Coliform	4A	0.168			1998	L
E25E-05-BAC - Farnham Creek							
Recreation	Enterococcus	4A	0.425			2010	L
E25E-05-SF - Farnham Creek							
Shellfishing	Fecal Coliform	4A	0.35			1998	L
E25E-07-SF - Parrotts Creek							
Shellfishing	Fecal Coliform	4A	0.153			1998	L
E25E-10-SF - Deep Creek							
Shellfishing	Fecal Coliform	4A	0.049			1998	L
E25E-10-SF2 - Deep Creek							
Shellfishing	Fecal Coliform	4A	0.182			2002	L
E25E-11-SF - Lancaster Creek							
Shellfishing	Fecal Coliform	4A	0.27			1998	L
E25E-11-SF2 - Lancaster Creek							
Shellfishing	Fecal Coliform	4A	0.489			2002	L
E25E-12-SF - Morattico Creek							
Shellfishing	Fecal Coliform	4A	0.345			2002	L
E25E-13-SF - Mulberry Creek							
Shellfishing	Fecal Coliform	4A	0.148			1998	L
Shellfishing	Fecal Coliform	4A	0.1			2024	L
E25E-15-BAC - Greenvale Creek							
Recreation	Enterococcus	4A	0.087			2012	L
E25E-15-SF - Greenvale Creek							
Shellfishing	Fecal Coliform	4A	0.087			1998	L
E25E-22-SF - Robinson Creek / Perkins Creek							
Shellfishing	Fecal Coliform	4A	0.039			2006	L
Shellfishing	Fecal Coliform	4A	0.039			2024	L
E25E-27-SF - Parrotts Creek							
Shellfishing	Fecal Coliform	4A	0.011			2008	L

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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
E25E-30-BAC - Town Bridge Swamp							
Recreation	Enterococcus	4A	0.002			2012	L
E25E-32-SF - Greenvale Creek							
Shellfishing	Fecal Coliform	4A	0.012			2022	L
E25E-33-SF - Rappahannock River							
Shellfishing	Fecal Coliform	4A	0.003			2024	L
E25E-34-SF - Lancaster Creek							
Shellfishing	Fecal Coliform	4A	0.023			2024	L
E25E-36-SF - Weeks Creek							
Shellfishing	Fecal Coliform	4A	0.123			2024	L
E25E-37-SF - Robinson Creek, UT							
Shellfishing	Fecal Coliform	4A	0.013			2024	L
E25R-01-BAC - Laton Swamp							
Recreation	Escherichia coli (E. coli)	4A			4.87	2014	L
E25R-03-BAC - Nickleberry Swamp							
Recreation	Escherichia coli (E. coli)	4A			1.86	2012	L
E25R-04-BAC - South Branch Lagrange Creek							
Recreation	Escherichia coli (E. coli)	4A			0.4	2012	L
E26E-01-SF - Meachim Creek							
Shellfishing	Fecal Coliform	4A	0.077			1998	L
Shellfishing	Fecal Coliform	4A	0.036			2024	L
E26E-02-SF - Meachim Creek							
Shellfishing	Fecal Coliform	4A	0.032			1998	L
Shellfishing	Fecal Coliform	4A	0.004			2022	L
E26E-05-SF - Myer Creek							
Shellfishing	Fecal Coliform	4A	0.081			1998	L
Shellfishing	Fecal Coliform	4A	0.095			2022	L
E26E-08-SF - Senior Creek							
Shellfishing	Fecal Coliform	4A	0.053			1998	L
E26E-09-SF - Western Branch Corrotoman River							
Shellfishing	Fecal Coliform	4A	0.566			1998	L
Shellfishing	Fecal Coliform	4A	0.009			2002	L
E26E-10-SF - Bush Park Creek / Rappahannock River							
Shellfishing	Fecal Coliform	4A	0.103			1998	L
Shellfishing	Fecal Coliform	4A	0.002			2022	L
E26E-11-SF - Mill Creek							
Shellfishing	Fecal Coliform	4A	0.111			1998	L
E26E-12-SF - Sturgeon Creek							
Shellfishing	Fecal Coliform	4A	0.085			1998	L
E26E-13-BAC - Locklies Creek							
Recreation	Enterococcus	4A	0.101			2012	L
E26E-13-SF - Locklies Creek							
Shellfishing	Fecal Coliform	4A	0.101			1998	L
E26E-14-SF - Hills Creek							
Shellfishing	Fecal Coliform	4A	0.038			1998	L
E26E-16-SF - Eastern Branch Corrotoman River							
Shellfishing	Fecal Coliform	4A	0.429			1998	L
E26E-17-SF - Eastern Branch Carter Creek							
Shellfishing	Fecal Coliform	4A	0.084			1998	L
E26E-21-SF - XII - Windmill Point, UT (aka White Marsh)							
Shellfishing	Fecal Coliform	4A	0.034			2018	L
E26E-26-BAC - Little Branch							
Recreation	Enterococcus	4A	0.114			2006	L
E26E-27-BAC - Belwood Swamp							
Recreation	Enterococcus	4A	0.009			2012	L
E26E-28-BAC - Western Branch Corrotoman River							
Recreation	Enterococcus	4A	0.452			2012	L
E26E-42-SF - Hunting Creek							
Shellfishing	Fecal Coliform	4A	0.02			2008	L
E26E-46-SF - Eastern Branch Carter Creek							

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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
Shellfishing	Fecal Coliform	4A	0.072			2002	L
E26E-55-SF - Mosquito Creek							
Shellfishing	Fecal Coliform	4A	0.069			2020	L
E26E-56-SF - Roane Cove of Locklies Creek							
Shellfishing	Fecal Coliform	4A	0.034			2022	L
E26E-60-SF - Eastern Branch Corrotoman River, UT							
Shellfishing	Fecal Coliform	4A	0.011			2022	L
E26E-61-SF - Moran Creek, UT							
Shellfishing	Fecal Coliform	4A	0.049			2022	L
E26E-62-SF - Taylor Creek							
Shellfishing	Fecal Coliform	4A	0.068			2022	L
E26E-65-SF - Millenbeck Prong							
Shellfishing	Fecal Coliform	4A	0.037			2024	L
E26E-66-SF - Whitehouse Creek							
Shellfishing	Fecal Coliform	4A	0.045			2024	L
E26E-67-SF - Whitehouse Creek, UT							
Shellfishing	Fecal Coliform	4A	0.005			2024	L
E26R-01-BAC - Belwood Swamp and Tributaries							
Recreation	Escherichia coli (E. coli)	4A			24.54	2012	L
E26R-04-BAC - Browns Creek							
Recreation	Escherichia coli (E. coli)	4A			2.59	2008	L
E26R-05-BAC - Little Branch							
Recreation	Escherichia coli (E. coli)	4A			0.64	2014	L
RPPMH-DO-BAY - Rappahannock River							
Aquatic Life	Dissolved Oxygen	4A	93.533			1998	L
Aquatic Life	Dissolved Oxygen	4A	8.763			2020	L
Aquatic Life	Dissolved Oxygen	4D	1.074			1998	L
Deep-Channel Seasonal	Dissolved Oxygen	4A	92.315			1998	L
Refuge							
Deep-Channel Seasonal	Dissolved Oxygen	4A	5.091			2020	L
Refuge							
Deep-Channel Seasonal	Dissolved Oxygen	4D	0.061			1998	L
Refuge							
Deep-Water Aquatic Life	Dissolved Oxygen	4A	93.533			1998	L
Deep-Water Aquatic Life	Dissolved Oxygen	4A	8.763			2020	L
Deep-Water Aquatic Life	Dissolved Oxygen	4D	0.2			1998	L
Migratory Fish Spawning	Dissolved Oxygen	4A	10.871			1998	L
and Nursery							
Migratory Fish Spawning	Dissolved Oxygen	4A	0.004			2020	L
and Nursery							
Migratory Fish Spawning	Dissolved Oxygen	4D	0.935			1998	L
and Nursery							
Open-Water Aquatic Life	Dissolved Oxygen	4A	93.533			1998	L
Open-Water Aquatic Life	Dissolved Oxygen	4A	8.763			2020	L
Open-Water Aquatic Life	Dissolved Oxygen	4D	1.074			1998	L
RPPMH-SAV-BAY - Rappahannock River							
Aquatic Life	Aquatic Plants (Macrophytes)	4A	0.071			2006	L
Aquatic Life	Aquatic Plants (Macrophytes)	4A	123.615			2024	L
Shallow-Water	Aquatic Plants (Macrophytes)	4A	0.071			2006	L
Submerged Aquatic							
Vegetation							
Shallow-Water	Aquatic Plants (Macrophytes)	4A	123.615			2024	L
Submerged Aquatic							
Vegetation							
RPPTF-DO-BAY - Rappahannock Tidal Freshwater Estuary							
Aquatic Life	Dissolved Oxygen	4A	14.356			2018	L
Migratory Fish Spawning	Dissolved Oxygen	4A	14.356			2018	L
and Nursery							
Open-Water Aquatic Life	Dissolved Oxygen	4A	14.356			2018	L

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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-BAC - Roanoke River, South Fork and Goose Creek							
Recreation	Escherichia coli (E. coli)	4A			13.34	2012	L
Recreation	Escherichia coli (E. coli)	4A			6.27	2016	L
L01R-01-BEN - Smith Creek, UT (XMV)							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			1.61	2010	L
L02R-01-BAC - Roanoke River, North Fork							
Recreation	Escherichia coli (E. coli)	4A			6.94	2006	L
Recreation	Escherichia coli (E. coli)	4A			9.16	2012	L
L02R-02-BAC - Wilson Creek and Wilson Creek, UT							
Recreation	Escherichia coli (E. coli)	4A			7.02	2004	L
L02R-03-BAC - Bradshaw Creek							
Recreation	Escherichia coli (E. coli)	4A			10.37	2010	L
L04R-01-BAC - Roanoke River and Smith Mountain Lake							
Recreation	Escherichia coli (E. coli)	4A		165.3	30.6	2006	L
Recreation	Escherichia coli (E. coli)	4A			1.27	2022	L
L04R-01-BEN - Roanoke River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			5.82	1996	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			0.77	2024	L
L04R-02-BAC - Mud Lick Creek							
Recreation	Escherichia coli (E. coli)	4A			7.61	2006	L
L04R-02-BEN - Mud Lick Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			7.61	2008	L
L04R-04-BAC - Ore Branch							
Recreation	Escherichia coli (E. coli)	4A			2.56	2006	L
L04R-04-BEN - Ore Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			2.56	2014	L
L04R-05-BAC - Mason Creek							
Recreation	Escherichia coli (E. coli)	4A			7.72	2006	L
L04R-05-BEN - Mason Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			7.72	2008	L
L04R-06-BAC - Peters Creek							
Recreation	Escherichia coli (E. coli)	4A			7.21	2006	L
L04R-06-BEN - Barnhardt Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			5.31	2012	L
L04R-07-BAC - Murray Run							
Recreation	Fecal Coliform	4A			3.58	2004	L
L04R-07-BEN - Murray Run							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			3.58	2012	L
L04R-08-BEN - Gish Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			2.4	2014	L
L04R-09-BEN - Peters Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			7.21	2016	L
L04R-10-BAC - Wolf Creek							
Recreation	Escherichia coli (E. coli)	4A			4.52	2018	L
L05R-01-BAC - Tinker Creek							
Recreation	Escherichia coli (E. coli)	4A			19.61	2006	L
L05R-02-BAC - Carvin Creek							
Recreation	Escherichia coli (E. coli)	4A			1.83	2004	L
Recreation	Escherichia coli (E. coli)	4A			3.62	2006	L
L05R-02-BEN - Deer Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			1.38	2014	L
L05R-03-BAC - Glade Creek							
Recreation	Escherichia coli (E. coli)	4A			12.95	2006	L
L05R-04-BAC - Lick Run							
Recreation	Escherichia coli (E. coli)	4A			9.65	2004	L
L05R-05-BAC - Laymantown Creek							
Recreation	Escherichia coli (E. coli)	4A			2.12	2006	L
L05R-06-BAC - Deer Branch							
Recreation	Escherichia coli (E. coli)	4A			1.38	2018	L

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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
L06R-02-BAC - Back Creek							
Recreation	Escherichia coli (E. coli)	4A			1.83	2020	L
L07L-02-BAC - Smith Mtn. Lake (Lynville Creek)							
Recreation	Escherichia coli (E. coli)	4A		76.75		2020	L
L07L-03-BAC - Smith Mtn. Lake (Roanoke River)							
Recreation	Escherichia coli (E. coli)	4A		184.71		2010	L
L07R-01-BAC - Beaverdam Creek							
Recreation	Escherichia coli (E. coli)	4A			4.99	2006	L
L08R-01-BAC - Green Creek							
Recreation	Escherichia coli (E. coli)	4A			4.1	2008	L
L08R-02-BAC - Blackwater River, South Fork							
Recreation	Escherichia coli (E. coli)	4A			6.22	2004	L
Recreation	Escherichia coli (E. coli)	4A			3.23	2018	L
L08R-03-BAC - Blackwater River, North Fork							
Recreation	Escherichia coli (E. coli)	4A			3.22	2004	L
Recreation	Escherichia coli (E. coli)	4A			9.24	2006	L
L08R-03-BEN - Blackwater River, North Fork							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			3.22	1996	L
L08R-04-BAC - Blackwater River (Upper)							
Recreation	Escherichia coli (E. coli)	4A			28.28	2004	L
L08R-04-BEN - Blackwater River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			5.61	1996	L
L08R-05-BAC - Little Creek and Little Creek, UT (XKF)							
Recreation	Escherichia coli (E. coli)	4A			7.88	2004	L
Recreation	Escherichia coli (E. coli)	4A			1.04	2006	L
L08R-06-BAC - Teels Creek							
Recreation	Escherichia coli (E. coli)	4A			4.76	2004	L
L08R-07-BAC - Buck Run							
Recreation	Escherichia coli (E. coli)	4A			3.77	2014	L
L09R-01-BAC - Maggoodee Creek							
Recreation	Escherichia coli (E. coli)	4A			15.18	2004	L
Recreation	Escherichia coli (E. coli)	4A			0.99	2006	L
Recreation	Escherichia coli (E. coli)	4A			4.44	2012	L
L09R-02-BAC - Mollie Branch							
Recreation	Escherichia coli (E. coli)	4A			0.92	2004	L
Recreation	Escherichia coli (E. coli)	4A			1.84	2006	L
L10L-05-BAC - Smith Mountain Lake - Crazy Horse Camp Ground							
Recreation	Escherichia coli (E. coli)	4A		30.27		2004	L
L10R-01-BAC - Blackwater River (Lower), Foul Ground Creek and Smith Mountain Lake (Blackwater Riverine)							
Recreation	Escherichia coli (E. coli)	4A			3.03	2004	L
Recreation	Escherichia coli (E. coli)	4A		114.22	8.23	2006	L
Recreation	Escherichia coli (E. coli)	4A		351.98		2022	L
Recreation	Fecal Coliform	4A			4.2	2004	L
L11R-01-BAC - Gills Creek							
Recreation	Escherichia coli (E. coli)	4A		197.42	9.24	2004	L
Recreation	Escherichia coli (E. coli)	4A			11.22	2010	L
L11R-02-BAC - North Fork Gills Creek							
Recreation	Escherichia coli (E. coli)	4A			16.5	2018	L
L12L-01-PCB - Roanoke River, Tinker Creek, and Peters Creek							
Fish Consumption	PCBs in Fish Tissue	4A			28.7	2002	L
Fish Consumption	PCBs in Fish Tissue	4A			2.59	2004	L
Fish Consumption	PCBs in Fish Tissue	4A			5.37	2006	L
Fish Consumption	Polychlorinated biphenyls (PCBs)	4A			12.15	2010	L
Public Water Supply	Polychlorinated biphenyls (PCBs)	4A			1.64	2010	L
Wildlife	Polychlorinated biphenyls (PCBs)	4A			12.15	2010	L
L12L-02-PCB - Roanoke River, Blackwater River and Smith Mountain Lake.							
Fish Consumption	PCBs in Fish Tissue	4A		2710.05	3.17	2002	L
Fish Consumption	PCBs in Fish Tissue	4A		17104.44	11.26	2006	L
Fish Consumption	Polychlorinated biphenyls (PCBs)	4A			3.17	2010	L
Public Water Supply	Polychlorinated biphenyls (PCBs)	4A			3.17	2010	L
Wildlife	Polychlorinated biphenyls (PCBs)	4A			3.17	2010	L

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Appendix 1c - 2024 Impaired Waters (Category 4A/4D) TMDL Approved and (Category 4B) Other Control Measures Present

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
L13L-02-BAC - Leesville Lake (Pigg River)							
Recreation	Escherichia coli (E. coli)	4A		158.37		2006	L
L13R-01-BAC - Old Womans Creek							
Recreation	Escherichia coli (E. coli)	4A			4.9	2006	L
L14R-01-BAC - Pigg River and Doe Run							
Recreation	Escherichia coli (E. coli)	4A			23.92	2006	L
Recreation	Escherichia coli (E. coli)	4A			10.92	2008	L
Recreation	Escherichia coli (E. coli)	4A			2.97	2016	L
Recreation	Fecal Coliform	4A			5.68	2006	L
L14R-02-BAC - Storey Creek							
Recreation	Escherichia coli (E. coli)	4A			11.87	2006	L
L15R-01-BAC - Big Chestnut Creek							
Recreation	Escherichia coli (E. coli)	4A			12.43	2006	L
Recreation	Escherichia coli (E. coli)	4A			6.78	2016	L
L15R-02-BAC - Root Mill Creek							
Recreation	Escherichia coli (E. coli)	4A			3.46	2020	L
L17R-01-BAC - Snow Creek and Turkeycock Creek							
Recreation	Escherichia coli (E. coli)	4A			10.95	2006	L
Recreation	Escherichia coli (E. coli)	4A			6.5	2008	L
Recreation	Escherichia coli (E. coli)	4A			6.5	2012	L
L17R-02-BAC - Poplar Branch							
Recreation	Escherichia coli (E. coli)	4A			2.57	2016	L
L18R-01-BAC - Pigg River							
Recreation	Escherichia coli (E. coli)	4A			28.97	2006	L
L18R-02-BAC - Harpen Creek							
Recreation	Escherichia coli (E. coli)	4A			5.36	2006	L
L18R-03-BAC - Tomahawk Creek							
Recreation	Escherichia coli (E. coli)	4A			5.82	2006	L
L18R-04-BAC - Fryingpan Creek							
Recreation	Escherichia coli (E. coli)	4A			2.56	2016	L
L19R-01-PCB - Roanoke (Staunton) River, Cub Creek							
Fish Consumption	PCBs in Fish Tissue	4A			24.56	1998	L
Fish Consumption	PCBs in Fish Tissue	4A			63.22	2002	L
Fish Consumption	PCBs in Fish Tissue	4A			14.39	2008	L
Fish Consumption	Polychlorinated biphenyls (PCBs)	4A			73.78	2010	L
Public Water Supply	Polychlorinated biphenyls (PCBs)	4A			73.78	2010	L
L19R-02-BAC - Lynch Creek							
Recreation	Escherichia coli (E. coli)	4A			3.53	2008	L
Recreation	Escherichia coli (E. coli)	4A			0.37	2010	L
L19R-02-BEN - Lynch Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			3.9	2010	L
L19R-03-BAC - Reed Creek							
Recreation	Escherichia coli (E. coli)	4A			8.91	2020	L
L19R-03-BEN - Reed Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			8.91	2010	L
L19R-04-BAC - Roanoke (Staunton) River, Unnamed tributary							
Recreation	Escherichia coli (E. coli)	4A			4.1	2020	L
L19R-05-BAC - Roanoke (Staunton) River and Sycamore Creek							
Recreation	Escherichia coli (E. coli)	4A			16.76	2018	L
Recreation	Escherichia coli (E. coli)	4A			24.43	2022	L
L20R-01-BAC - Goose Creek							
Recreation	Escherichia coli (E. coli)	4A			6.94	2006	L
L21R-01-BAC - Goose Creek							
Recreation	Escherichia coli (E. coli)	4A			7.24	2008	L
L21R-02-BAC - Wolf Creek							
Recreation	Escherichia coli (E. coli)	4A			7.13	2008	L
L21R-03-BAC - Bore Auger Creek							
Recreation	Escherichia coli (E. coli)	4A			9.57	2012	L
L21R-04-BAC - Stony Fork							
Recreation	Escherichia coli (E. coli)	4A			13.18	2012	L
L22R-01-BAC - Goose Creek							

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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
Recreation	Escherichia coli (E. coli)	4A			11.13	2012	L
L22R-02-BAC - Mill Creek							
Recreation	Escherichia coli (E. coli)	4A			5.26	2010	L
L22R-03-BAC - Hunting Creek							
Recreation	Escherichia coli (E. coli)	4A			2.64	2010	L
L22R-04-BAC - Carter Mill Creek							
Recreation	Escherichia coli (E. coli)	4A			7.27	2012	L
L23R-01-BAC - Big Otter River and Sheeps Creek							
Recreation	Escherichia coli (E. coli)	4A			9.63	2006	L
Recreation	Escherichia coli (E. coli)	4A			8.14	2010	L
L23R-02-BAC - Stony Creek							
Recreation	Escherichia coli (E. coli)	4A			4.37	2010	L
L24R-01-BAC - Oslin Creek, U.T. (XOJ)							
Recreation	Escherichia coli (E. coli)	4A			7.12	2018	L
L25R-01-BAC - Big Otter River, Elk Creek and North Otter Creek							
Recreation	Escherichia coli (E. coli)	4A			24.86	2008	L
Recreation	Escherichia coli (E. coli)	4A			6.81	2010	L
Recreation	Fecal Coliform	4A			7.34	2004	L
L26R-01-BAC - Little Otter River and Machine Creek							
Recreation	Escherichia coli (E. coli)	4A			7.44	2008	L
Recreation	Escherichia coli (E. coli)	4A			31.8	2010	L
L26R-01-BEN - Little Otter River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			5.9	2002	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			7.44	2008	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			8.72	2010	L
L26R-01-PCB - Little Otter River							
Fish Consumption	PCBs in Fish Tissue	4A			14.62	2002	L
L26R-02-BAC - Johns Creek							
Recreation	Escherichia coli (E. coli)	4A			2.24	2014	L
L26R-02-BEN - Johns Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			2.24	2002	L
L26R-03-BAC - Wells Creek							
Recreation	Escherichia coli (E. coli)	4A			3.94	2014	L
L26R-03-BEN - Wells Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			3.94	2008	L
L27R-01-BAC - Big Otter River and Falling Creek							
Recreation	Escherichia coli (E. coli)	4A			5.39	2010	L
Recreation	Fecal Coliform	4A			5.92	2004	L
L27R-01-BEN - Buffalo Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			8.54	2008	L
L27R-02-BAC - Buffalo Creek							
Recreation	Escherichia coli (E. coli)	4A			8.54	2006	L
L28R-01-BAC - Big Otter River							
Recreation	Escherichia coli (E. coli)	4A			9.45	2010	L
Recreation	Escherichia coli (E. coli)	4A			4.57	2016	L
L29R-02-BAC - Flat Creek							
Recreation	Escherichia coli (E. coli)	4A			7.67	2018	L
L30R-01-BAC - Buffalo Creek							
Recreation	Escherichia coli (E. coli)	4A			10.23	2008	L
L30R-02-BAC - Childrey Creek							
Recreation	Escherichia coli (E. coli)	4A			14.54	2006	L
L30R-03-BAC - Straightstone Creek							
Recreation	Escherichia coli (E. coli)	4A			8.75	2006	L
L30R-04-BAC - Whipping Creek							
Recreation	Escherichia coli (E. coli)	4A			13.91	2006	L
L30R-05-BAC - Little Straightstone Creek							
Recreation	Escherichia coli (E. coli)	4A			7.57	2006	L
L32R-01-BAC - Falling River							
Recreation	Escherichia coli (E. coli)	4A			18.17	2006	L
L33R-01-BAC - Button Creek							

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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
Recreation	Escherichia coli (E. coli)	4A			7.86	2006	L
L33R-02-BAC - South Fork Falling River							
Recreation	Escherichia coli (E. coli)	4A			16.79	2006	L
L34R-01-BAC - Falling River							
Recreation	Escherichia coli (E. coli)	4A			17.88	2006	L
L34R-02-BAC - Little Falling River							
Recreation	Escherichia coli (E. coli)	4A			9.71	2006	L
Recreation	Escherichia coli (E. coli)	4A			4.41	2012	L
Recreation	Escherichia coli (E. coli)	4A			1.82	2014	L
L34R-03-BAC - Suck Creek							
Recreation	Escherichia coli (E. coli)	4A			8.49	2006	L
L34R-04-BAC - Entry Creek							
Recreation	Escherichia coli (E. coli)	4A			4.74	2008	L
L34R-05-BAC - Hickory Creek							
Recreation	Escherichia coli (E. coli)	4A			2.77	2010	L
L34R-06-BAC - Dog Creek							
Recreation	Escherichia coli (E. coli)	4A			2.66	2010	L
L35R-01-BAC - Mollys Creek							
Recreation	Escherichia coli (E. coli)	4A			17.6	2006	L
L36R-01-BAC - Turnip Creek							
Recreation	Escherichia coli (E. coli)	4A			19.75	2006	L
L36R-03-BAC - Buckskin Creek							
Recreation	Escherichia coli (E. coli)	4A			7.65	2008	L
L36R-04-BAC - Armistead Branch							
Recreation	Escherichia coli (E. coli)	4A			3.2	2010	L
Recreation	Escherichia coli (E. coli)	4A			1.92	2014	L
L37R-01-BAC - Cub Creek							
Recreation	Escherichia coli (E. coli)	4A			8.8	2006	L
Recreation	Escherichia coli (E. coli)	4A			5.59	2008	L
L37R-02-BAC - Louse Creek							
Recreation	Escherichia coli (E. coli)	4A			8.71	2006	L
L37R-03-BAC - Big Cub Creek							
Recreation	Escherichia coli (E. coli)	4A			33.69	2006	L
L37R-05-BAC - Terrys Creek							
Recreation	Escherichia coli (E. coli)	4A			7.14	2008	L
L38R-02-BAC - Black Walnut Creek							
Recreation	Escherichia coli (E. coli)	4A			6.39	2014	L
L38R-03-BAC - Hunting Creek							
Recreation	Escherichia coli (E. coli)	4A			3.24	2014	L
L39R-01-BAC - Ash Camp Creek							
Recreation	Fecal Coliform	4A			8.19	2004	L
L39R-01-BEN - Ash Camp Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			8.19	1998	L
L39R-02-BAC - Twittys Creek							
Recreation	Escherichia coli (E. coli)	4A			14.79	2012	L
L39R-02-BEN - Twittys Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			14.79	1998	L
L39R-03-BAC - Horsepen Creek							
Recreation	Escherichia coli (E. coli)	4A			1.87	2012	L
Recreation	Escherichia coli (E. coli)	4A			5.32	2022	L
L39R-04-BAC - Wards Fork Creek							
Recreation	Escherichia coli (E. coli)	4A			5.31	2008	L
L39R-05-BAC - Roanoke Creek							
Recreation	Escherichia coli (E. coli)	4A			2.65	2006	L
Recreation	Escherichia coli (E. coli)	4A			7.86	2010	L
L39R-06-BAC - Middle Branch Wards Fork Creek							
Recreation	Escherichia coli (E. coli)	4A			7.4	2008	L
L39R-07-BAC - Little Roanoke Creek							
Recreation	Escherichia coli (E. coli)	4A			4.47	2018	L
L39R-09-BAC - Spencer Creek, UT							

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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
Recreation	Escherichia coli (E. coli)	4A			2.9	2022	L
L39R-10-BAC - Little Roanoke Creek							
Recreation	Escherichia coli (E. coli)	4A			10.16	2020	L
L40R-01-BAC - Berles Creek							
Recreation	Escherichia coli (E. coli)	4A			2.28	2006	L
L40R-04-BAC - Sandy Creek							
Recreation	Escherichia coli (E. coli)	4A			5.41	2012	L
L40R-05-BAC - Unnamed Tributary to Buffalo Creek							
Recreation	Escherichia coli (E. coli)	4A			1.49	2002	L
L40R-06-BAC - Buffalo Creek							
Recreation	Escherichia coli (E. coli)	4A			2.36	2006	L
L40R-07-BAC - Cargills Creek							
Recreation	Escherichia coli (E. coli)	4A			4.27	2008	L
L41R-01-BAC - Difficult Creek							
Recreation	Escherichia coli (E. coli)	4A			7	2008	L
L42L-06-BAC - Townes Reservoir							
Recreation	Escherichia coli (E. coli)	4A		28.13		2018	L
L42R-01-BAC - Little Dan River							
Recreation	Escherichia coli (E. coli)	4A			7.27	2008	L
L42R-02-BAC - Dan River							
Recreation	Escherichia coli (E. coli)	4A			8.46	2012	L
L42R-03-BAC - Elk Creek							
Recreation	Escherichia coli (E. coli)	4A			7.78	2012	L
L42R-04-BAC - Peters Creek							
Recreation	Escherichia coli (E. coli)	4A			5.97	2012	L
L42R-05-BAC - Dan River							
Recreation	Escherichia coli (E. coli)	4A			15.48	2014	L
L43R-01-BAC - South Mayo River							
Recreation	Escherichia coli (E. coli)	4A			16.81	2008	L
Recreation	Escherichia coli (E. coli)	4A			20.69	2010	L
L43R-02-BAC - Russell Creek							
Recreation	Escherichia coli (E. coli)	4A			8.54	2012	L
L44R-01-BAC - Spoon Creek							
Recreation	Escherichia coli (E. coli)	4A			8.17	2006	L
L46R-01-BAC - North Mayo River							
Recreation	Escherichia coli (E. coli)	4A			10.36	2008	L
Recreation	Fecal Coliform	4A			12.59	2004	L
L47R-01-BAC - Horse Pasture Creek							
Recreation	Escherichia coli (E. coli)	4A			7.45	2006	L
L48R-01-BAC - Mayo River							
Recreation	Escherichia coli (E. coli)	4A			4.02	2016	L
L50R-01-BAC - Smith River and Sycamore Creek							
Recreation	Escherichia coli (E. coli)	4A			15.67	2012	L
Recreation	Escherichia coli (E. coli)	4A			7.88	2018	L
L51R-01-BAC - Goblintown Creek							
Recreation	Escherichia coli (E. coli)	4A			6.8	2014	L
L51R-02-BAC - Shooting Creek							
Recreation	Escherichia coli (E. coli)	4A			7.33	2014	L
L51R-03-BAC - Nicholas Creek							
Recreation	Escherichia coli (E. coli)	4A			5.41	2016	L
L51R-04-BAC - Rennet Bag Creek							
Recreation	Escherichia coli (E. coli)	4A			11.55	2016	L
L52R-01-BAC - Smith River							
Recreation	Escherichia coli (E. coli)	4A			3.33	2006	L
Recreation	Escherichia coli (E. coli)	4A			7.01	2008	L
Recreation	Escherichia coli (E. coli)	4A			2.54	2020	L
L52R-02-BAC - Blackberry Creek and Blackberry, UTs							
Recreation	Escherichia coli (E. coli)	4A			15.52	2004	L
L52R-03-BAC - Town Creek							
Recreation	Escherichia coli (E. coli)	4A			1.88	2012	L

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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
L53L-01-BAC - Martinsville (Beaver Creek) Reservoir							
Recreation	Escherichia coli (E. coli)	4A		182.29		2010	L
L53R-01-BEN - Smith River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			4.75	2008	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			2.26	2014	L
L53R-02-BAC - Jordan Creek							
Recreation	Escherichia coli (E. coli)	4A			6	2006	L
L53R-03-BAC - Beaver Creek							
Recreation	Escherichia coli (E. coli)	4A			5.3	2006	L
Recreation	Escherichia coli (E. coli)	4A			6.98	2016	L
L53R-04-BAC - Reed Creek							
Recreation	Escherichia coli (E. coli)	4A			4.14	2008	L
L53R-05-BAC - Daniels Creek							
Recreation	Escherichia coli (E. coli)	4A			3.99	2016	L
L53R-06-BAC - Jones Creek, UT (XMP)							
Recreation	Escherichia coli (E. coli)	4A			2	2016	L
L54R-01-BAC - Smith River							
Recreation	Escherichia coli (E. coli)	4A			20.07	2008	L
L54R-01-BEN - Smith River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			10.1	1998	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			3.66	2004	L
L54R-02-BAC - Mulberry Creek							
Recreation	Escherichia coli (E. coli)	4A			2.6	2016	L
L54R-03-BAC - Machine Branch							
Recreation	Escherichia coli (E. coli)	4A			0.69	2016	L
L55R-01-BAC - Marrowbone Creek							
Recreation	Escherichia coli (E. coli)	4A			4.48	2008	L
L56R-01-BAC - Leatherwood Creek and Headwater Tributaries							
Recreation	Escherichia coli (E. coli)	4A			25.35	2006	L
Recreation	Escherichia coli (E. coli)	4A			8.46	2008	L
L56R-02-BAC - West Fork Leatherwood Creek							
Recreation	Escherichia coli (E. coli)	4A			23.46	2012	L
L57R-01-BAC - Dan River							
Recreation	Escherichia coli (E. coli)	4A			7.37	2006	L
L57R-04-BAC - Cascade Creek							
Recreation	Escherichia coli (E. coli)	4A			11.82	2006	L
L58R-01-BAC - Sandy River							
Recreation	Escherichia coli (E. coli)	4A			7.23	2010	L
L58R-02-BAC - Tanyard Creek							
Recreation	Escherichia coli (E. coli)	4A			2.86	2006	L
L58R-04-BAC - Sandy River							
Recreation	Escherichia coli (E. coli)	4A			10.79	2006	L
L58R-05-BAC - Sugartree Creek							
Recreation	Escherichia coli (E. coli)	4A			6.97	2008	L
L58R-06-BAC - Stewart Creek							
Recreation	Escherichia coli (E. coli)	4A			7.34	2008	L
L58R-07-BAC - South Prong Sandy River							
Recreation	Escherichia coli (E. coli)	4A			13.23	2018	L
L59R-01-BAC - Sandy Creek							
Recreation	Escherichia coli (E. coli)	4A			9.49	2008	L
L60R-01-BAC - Dan River							
Recreation	Escherichia coli (E. coli)	4A			35.12	1998	L
Recreation	Escherichia coli (E. coli)	4A			1.84	2004	L
L60R-02-BAC - Pumpkin Creek							
Recreation	Escherichia coli (E. coli)	4A			4.28	2006	L
L60R-03-BAC - Cane Creek							
Recreation	Escherichia coli (E. coli)	4A			12.25	2008	L
L60R-05-BAC - Dan River							
Recreation	Escherichia coli (E. coli)	4A			4.66	2018	L
Recreation	Escherichia coli (E. coli)	4A			2.03	2022	L

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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
L61R-01-BAC - Fall Creek							
Recreation	Escherichia coli (E. coli)	4A			11.97	2008	L
L61R-02-BAC - Lawless Creek							
Recreation	Escherichia coli (E. coli)	4A			4.72	2014	L
L62R-03-BAC - Double Creek							
Recreation	Escherichia coli (E. coli)	4A			8.89	2008	L
L62R-04-BAC - Byrds Branch							
Recreation	Escherichia coli (E. coli)	4A			3.76	2008	L
L62R-05-BAC - Big Toby Creek							
Recreation	Escherichia coli (E. coli)	4A			7.57	2008	L
L62R-06-BAC - Powells Creek							
Recreation	Escherichia coli (E. coli)	4A			4.63	2008	L
L62R-08-BAC - Sandy Creek							
Recreation	Escherichia coli (E. coli)	4A			9.41	2012	L
L62R-09-BAC - Winns Creek							
Recreation	Escherichia coli (E. coli)	4A			7.12	2016	L
L62R-10-BAC - Sandy Creek, Unnamed Tributary							
Recreation	Escherichia coli (E. coli)	4A			2.29	2016	L
L63R-01-BAC - Birch Creek							
Recreation	Escherichia coli (E. coli)	4A			20.16	2004	L
L63R-02-BAC - Unnamed Tributary to Birch Creek							
Recreation	Escherichia coli (E. coli)	4A			5.35	2006	L
L63R-03-BAC - Germy Creek							
Recreation	Escherichia coli (E. coli)	4A			5.37	2014	L
L64R-01-BAC - Lawsons Creek							
Recreation	Escherichia coli (E. coli)	4A			8.27	2008	L
Recreation	Escherichia coli (E. coli)	4A			7.27	2012	L
L64R-02-BAC - Miry Creek							
Recreation	Escherichia coli (E. coli)	4A			1.12	2006	L
Recreation	Escherichia coli (E. coli)	4A			11.96	2018	L
L64R-03-BAC - Grassy Creek							
Recreation	Escherichia coli (E. coli)	4A			0.83	2020	L
L64R-04-BAC - Poplar Creek							
Recreation	Escherichia coli (E. coli)	4A			4.05	2020	L
L64R-05-BAC - Reedy Creek							
Recreation	Escherichia coli (E. coli)	4A			2.92	2020	L
L64R-06-BAC - Stokes Creek							
Recreation	Escherichia coli (E. coli)	4A			4.46	2014	L
L65R-01-BAC - Banister River							
Recreation	Escherichia coli (E. coli)	4A			6.79	2008	L
Recreation	Escherichia coli (E. coli)	4A			5.09	2010	L
L65R-02-BAC - Bearskin Creek							
Recreation	Escherichia coli (E. coli)	4A			9.57	2006	L
L65R-03-BAC - White Oak Creek							
Recreation	Escherichia coli (E. coli)	4A			6.37	2010	L
L65R-04-BAC - Strawberry Creek							
Recreation	Escherichia coli (E. coli)	4A			5.96	2020	L
L66R-01-BAC - Cherrystone Creek							
Recreation	Escherichia coli (E. coli)	4A			5.98	2008	L
L66R-02-BAC - Little Cherrystone Creek							
Recreation	Escherichia coli (E. coli)	4A			4.84	2008	L
L66R-03-BAC - Pole Bridge Branch							
Recreation	Escherichia coli (E. coli)	4A			5.02	2010	L
L67R-01-BAC - Banister River							
Recreation	Escherichia coli (E. coli)	4A			13.1	2004	L
Recreation	Escherichia coli (E. coli)	4A			9.31	2012	L
Recreation	Escherichia coli (E. coli)	4A			16.87	2016	L
L67R-02-BAC - Allen Creek							
Recreation	Escherichia coli (E. coli)	4A			6.02	2008	L
L67R-04-BAC - Bradley Creek							

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Appendix 1c - 2024 Impaired Waters (Category 4A/4D) TMDL Approved and (Category 4B) Other Control Measures Present

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
Recreation	Escherichia coli (E. coli)	4A			6.47	2014	L
L67R-05-BAC - Bye Creek							
Recreation	Escherichia coli (E. coli)	4A			7.3	2014	L
L68R-01-BAC - Whitehorn Creek							
Recreation	Escherichia coli (E. coli)	4A			15.9	2006	L
L68R-02-BAC - Mill Creek							
Recreation	Escherichia coli (E. coli)	4A			9.29	2020	L
L69R-01-BAC - Stinking River							
Recreation	Escherichia coli (E. coli)	4A			14.15	2008	L
L70R-01-BAC - Sandy Creek							
Recreation	Escherichia coli (E. coli)	4A			5.9	2010	L
Recreation	Escherichia coli (E. coli)	4A			14.57	2014	L
L70R-04-BAC - Lick Branch							
Recreation	Escherichia coli (E. coli)	4A			3	2018	L
L71R-04-BAC - Banister River							
Recreation	Escherichia coli (E. coli)	4A			2.34	2008	L
Recreation	Escherichia coli (E. coli)	4A			9.65	2012	L
L71R-05-BAC - Polecat Creek							
Recreation	Escherichia coli (E. coli)	4A			9.71	2010	L
L71R-06-BAC - Winn Creek							
Recreation	Escherichia coli (E. coli)	4A			7.09	2008	L
L71R-07-BAC - Gibson Creek							
Recreation	Escherichia coli (E. coli)	4A			5.39	2014	L
L71R-08-BAC - Kents Creek							
Recreation	Escherichia coli (E. coli)	4A			1.9	2018	L
L73R-01-BAC - Aarons Creek							
Recreation	Escherichia coli (E. coli)	4A			9.41	2016	L
L73R-02-BAC - North Fork Aarons Creek							
Recreation	Escherichia coli (E. coli)	4A			9.75	2012	L
L73R-03-BAC - Peter Creek							
Recreation	Escherichia coli (E. coli)	4A			6.61	2016	L
L74R-01-BAC - Hyco River							
Recreation	Escherichia coli (E. coli)	4A			17.48	2006	L
Recreation	Escherichia coli (E. coli)	4A			6.12	2008	L
L74R-03-BAC - Coleman Creek							
Recreation	Escherichia coli (E. coli)	4A			8.49	2008	L
L74R-03-BEN - Coleman Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			8.49	2008	L
L74R-06-BAC - Mayo Creek							
Recreation	Escherichia coli (E. coli)	4A			4.93	2016	L
L74R-07-BAC - Powells Creek							
Recreation	Escherichia coli (E. coli)	4A			4.66	2016	L
L75R-03-BAC - Beech Creek							
Recreation	Escherichia coli (E. coli)	4A			4.7	2008	L
L76R-01-BAC - Little Buffalo Creek							
Recreation	Escherichia coli (E. coli)	4A			2.51	2004	L
L77R-01-BAC - Little Bluestone Creek							
Recreation	Escherichia coli (E. coli)	4A			9.39	2006	L
L77R-02-BAC - Bluestone Creek							
Recreation	Escherichia coli (E. coli)	4A			8.26	2006	L
L78R-02-BAC - Unnamed Tributary to Allen Creek							
Recreation	Fecal Coliform	4A			1.27	2004	L
L78R-03-BAC - Allen Creek							
Recreation	Escherichia coli (E. coli)	4A			8.97	2006	L
Recreation	Escherichia coli (E. coli)	4A			15.28	2012	L
L78R-04-BAC - Cox Creek							
Recreation	Escherichia coli (E. coli)	4A			10.81	2020	L
L78R-05-BAC - Cotton Creek							
Recreation	Escherichia coli (E. coli)	4A			4.4	2008	L
L78R-06-BAC - Layton Creek							

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Appendix 1c - 2024 Impaired Waters (Category 4A/4D) TMDL Approved and (Category 4B) Other Control Measures Present

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
Recreation	Escherichia coli (E. coli)	4A			8.65	2012	L
L78R-07-BAC - Kettles Creek							
Recreation	Escherichia coli (E. coli)	4A			5.48	2012	L
L79R-01-BAC - Flat Creek							
Recreation	Escherichia coli (E. coli)	4A			7.93	2006	L
Recreation	Escherichia coli (E. coli)	4A			1.42	2016	L
L79R-01-BEN - Flat Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			7.66	1996	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			1.69	2008	L
L79R-02-BAC - Smith Creek							
Recreation	Escherichia coli (E. coli)	4A			1.91	2008	L
L80R-01-BAC - Great Creek							
Recreation	Escherichia coli (E. coli)	4A			6.69	2006	L
L80R-02-BAC - Hagood Creek							
Recreation	Escherichia coli (E. coli)	4A			6.8	2008	L
L80R-03-BAC - Long Branch							
Recreation	Escherichia coli (E. coli)	4A			2.08	2008	L
L81R-02-BAC - Lizard Creek							
Recreation	Escherichia coli (E. coli)	4A			2.73	2010	L

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Appendix 1c - 2024 Impaired Waters (Category 4A/4D) TMDL Approved and (Category 4B) Other Control Measures Present

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-BAC - Middle Meherrin River							
Recreation	Escherichia coli (E. coli)	4A			7.15	2010	L
Recreation	Escherichia coli (E. coli)	4A			11.26	2014	L
K02R-01-BAC - North Meherrin River							
Recreation	Escherichia coli (E. coli)	4A			7.55	2014	L
K02R-02-BAC - Big Juniper Creek							
Recreation	Escherichia coli (E. coli)	4A			6.69	2006	L
K02R-03-BAC - Kits Creek							
Recreation	Escherichia coli (E. coli)	4A			4.83	2018	L
K02R-03-BEN - Kits Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			4.83	2008	L
K02R-04-BAC - Reedy Creek							
Recreation	Escherichia coli (E. coli)	4A			10.41	2008	L
K02R-05-BAC - Ledbetter Creek							
Recreation	Escherichia coli (E. coli)	4A			9.08	2010	L
K02R-06-BAC - Couches Creek							
Recreation	Escherichia coli (E. coli)	4A			7.38	2014	L
K02R-07-BAC - Little Tussekiah Creek							
Recreation	Escherichia coli (E. coli)	4A			1.82	2020	L
K02R-08-BAC - North Meherrin River							
Recreation	Escherichia coli (E. coli)	4A			0.58	2020	L
K03R-01-BAC - Flat Rock Creek							
Recreation	Escherichia coli (E. coli)	4A			9.76	2008	L
K03R-02-BAC - Flat Rock Creek							
Recreation	Escherichia coli (E. coli)	4A			1.74	2006	L
K03R-03-BAC - Broad Branch							
Recreation	Escherichia coli (E. coli)	4A			3.54	2006	L
K03R-04-BAC - Meherrin River							
Recreation	Escherichia coli (E. coli)	4A			3.17	2008	L
Recreation	Escherichia coli (E. coli)	4A			8.27	2012	L
K03R-05-BAC - XFH - Flat Rock Creek, UT							
Recreation	Escherichia coli (E. coli)	4A			3.44	2008	L
K03R-07-BAC - Flat Rock Creek							
Recreation	Escherichia coli (E. coli)	4A			4.7	2008	L
K03R-08-BAC - Flat Rock Creek							
Recreation	Escherichia coli (E. coli)	4A			3.89	2008	L
K04R-01-BAC - Stony Creek							
Recreation	Escherichia coli (E. coli)	4A			14.24	2010	L
K04R-02-BAC - Shining Creek							
Recreation	Escherichia coli (E. coli)	4A			7.74	2010	L
K04R-03-BAC - Taylors Creek							
Recreation	Escherichia coli (E. coli)	4A			10.35	2010	L
K04R-04-BAC - Meherrin River							
Recreation	Escherichia coli (E. coli)	4A			6.95	2010	L
K05R-01-BAC - Genito Creek							
Recreation	Escherichia coli (E. coli)	4A			8.14	2006	L
K05R-02-BAC - Meherrin River							
Recreation	Escherichia coli (E. coli)	4A			26.22	2006	L
K05R-03-BAC - Briery Branch							
Recreation	Escherichia coli (E. coli)	4A			4.01	2010	L
K05R-04-BAC - Hicks Creek							
Recreation	Escherichia coli (E. coli)	4A			7.37	2010	L
K05R-07-BAC - Evans Creek							
Recreation	Escherichia coli (E. coli)	4A			11.73	2010	L
K05R-08-BAC - Totaro Creek							
Recreation	Escherichia coli (E. coli)	4A			5.33	2010	L
K05R-09-BAC - Allen Creek							
Recreation	Escherichia coli (E. coli)	4A			6.96	2016	L

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Appendix 1c - 2024 Impaired Waters (Category 4A/4D) TMDL Approved and (Category 4B) Other Control Measures Present

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
K06R-02-BAC - Great Creek							
Recreation	Escherichia coli (E. coli)	4A			8.63	2006	L
Recreation	Escherichia coli (E. coli)	4A			2.75	2008	L
Recreation	Escherichia coli (E. coli)	4A			7.57	2018	L
K06R-03-BAC - Stevens Branch							
Recreation	Escherichia coli (E. coli)	4A			4.31	2010	L
K06R-04-BAC - Tea Branch							
Recreation	Escherichia coli (E. coli)	4A			3.24	2010	L
K06R-05-BAC - XHQ - Great Creek, UT							
Recreation	Escherichia coli (E. coli)	4A			2.12	2010	L
K07R-03-BAC - Rocky Run							
Recreation	Escherichia coli (E. coli)	4A			21.28	2010	L
K07R-04-BAC - Roses Creek							
Recreation	Escherichia coli (E. coli)	4A			1.96	2010	L
K07R-05-BAC - Soloman Creek							
Recreation	Escherichia coli (E. coli)	4A			4.98	2018	L
K08R-02-BAC - Robinson Creek							
Recreation	Escherichia coli (E. coli)	4A			6.08	2010	L
K10R-02-BAC - Fontaine Creek (Fountains Creek)							
Recreation	Escherichia coli (E. coli)	4A			0.57	2010	L
K10R-03-BAC - Quarrel Creek							
Recreation	Escherichia coli (E. coli)	4A			3.34	2016	L
K11R-03-BAC - Cattail Creek							
Recreation	Escherichia coli (E. coli)	4A			5.34	2010	L
K11R-05-BAC - Beaverpond Creek							
Recreation	Escherichia coli (E. coli)	4A			3.35	2020	L
K12R-01-BAC - Fontaine Creek							
Recreation	Escherichia coli (E. coli)	4A			14.48	2006	L
K13R-01-BAC - Tarrara Creek							
Recreation	Escherichia coli (E. coli)	4A			14.5	2008	L
K13R-04-BAC - Flat Swamp							
Recreation	Escherichia coli (E. coli)	4A			8.48	2016	L
K14R-01-BAC - Nottoway River							
Recreation	Escherichia coli (E. coli)	4A			17.56	2006	L
K14R-02-BAC - Big Hounds Creek							
Recreation	Escherichia coli (E. coli)	4A			10.34	2006	L
K14R-03-BAC - Modest Creek							
Recreation	Escherichia coli (E. coli)	4A			4.86	2018	L
K15R-01-BAC - Little Nottoway River							
Recreation	Escherichia coli (E. coli)	4A			9.98	2006	L
K15R-02-BAC - Carys Creek							
Recreation	Escherichia coli (E. coli)	4A			6.35	2006	L
K15R-03-BAC - Lazaretto Creek							
Recreation	Escherichia coli (E. coli)	4A			4.98	2010	L
K15R-05-BAC - Whetstone Creek							
Recreation	Escherichia coli (E. coli)	4A			8.42	2014	L
K16R-01-BEN - XBL - Hurricane Branch, UT							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			1.07	1994	L
K16R-02-BAC - Beaver Pond Creek							
Recreation	Escherichia coli (E. coli)	4A			7.44	2004	L
K16R-03-BEN - XBL - Hurricane Branch, UT							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			2.1	2008	L
K23R-03-BAC - XDV - Nebletts Mill Run, UT							
Recreation	Escherichia coli (E. coli)	4A			1.78	2006	L
K25R-02-BAC - Raccoon Creek							
Recreation	Escherichia coli (E. coli)	4A			19.91	2008	L
K26R-01-BAC - Three Creek							
Recreation	Escherichia coli (E. coli)	4A			6.55	2018	L
K26R-02-BAC - Three Creek							

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Appendix 1c - 2024 Impaired Waters (Category 4A/4D) TMDL Approved and (Category 4B) Other Control Measures Present

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)	4A			5.44	2006	L
K26R-04-BAC - Maclins Creek							
Recreation	Escherichia coli (E. coli)	4A			8.8	2012	L
K27R-02-BAC - Three Creek - Lower & Upper & UT to Angelico Cr							
Recreation	Escherichia coli (E. coli)	4A			10.68	2002	L
Recreation	Escherichia coli (E. coli)	4A			9.17	2006	L
Recreation	Escherichia coli (E. coli)	4A			4.06	2018	L
Recreation	Escherichia coli (E. coli)	4A			1.9	2020	L
K28R-01-BAC - Mill Swamp							
Recreation	Escherichia coli (E. coli)	4A			10.49	2006	L
K29R-01-BAC - Seacorrie Swamp, German Swamp, XDW and XDX							
Recreation	Escherichia coli (E. coli)	4A			10.54	2006	L
Recreation	Escherichia coli (E. coli)	4A			2.62	2010	L
K29R-04-BAC - XGS - Assamoosick Swamp, UT							
Recreation	Escherichia coli (E. coli)	4A			2.36	2010	L
K30R-01-BAC - Darden Mill Run							
Recreation	Escherichia coli (E. coli)	4A			10.72	2006	L
K31R-01-BAC - Blackwater Swamp, Warwick Swamp							
Recreation	Escherichia coli (E. coli)	4A			22.91	2006	L
Recreation	Escherichia coli (E. coli)	4A			13.21	2008	L
K31R-02-BAC - Second Swamp							
Recreation	Escherichia coli (E. coli)	4A			9.52	2010	L
K31R-04-BAC - Warwick Swamp							
Recreation	Escherichia coli (E. coli)	4A			3.03	2010	L
K31R-05-BAC - North Fork Blackwater Swamp							
Recreation	Escherichia coli (E. coli)	4A			6.11	2010	L
K31R-08-BAC - XHO - Warwick Swamp, UT							
Recreation	Escherichia coli (E. coli)	4A			2.42	2012	L
K31R-09-BAC - XGX - Warwick Swamp, UT							
Recreation	Escherichia coli (E. coli)	4A			2.22	2012	L
K32R-01-BAC - Blackwater River							
Recreation	Escherichia coli (E. coli)	4A			23.95	2006	L
Recreation	Escherichia coli (E. coli)	4A			2.33	2008	L
K32R-02-BAC - Spring Branch							
Recreation	Escherichia coli (E. coli)	4A			4.16	2012	L
Recreation	Escherichia coli (E. coli)	4A			0.11	2018	L
K32R-02-BEN - Spring Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			4.16	1998	L
K32R-02-PH - Spring Branch							
Aquatic Life	pH	4A			4.16	2008	L
K32R-04-BAC - Otterdam Swamp							
Recreation	Escherichia coli (E. coli)	4A			5.86	2006	L
Recreation	Escherichia coli (E. coli)	4A			7.44	2016	L
K32R-05-BAC - Coppahaunk Swamp, UT - XDT							
Recreation	Escherichia coli (E. coli)	4A			0.91	2006	L
K32R-07-BAC - Cypress Swamp Tributaries							
Recreation	Escherichia coli (E. coli)	4A			143.63	2006	L
K32R-08-BAC - Cypress Swamp							
Recreation	Escherichia coli (E. coli)	4A			17.06	2006	L
K32R-11-BAC - XDR - UT to Otterdam Swamp							
Recreation	Escherichia coli (E. coli)	4A			2.61	2010	L
K32R-15-BAC - Spring Branch, UT (XAW)							
Recreation	Escherichia coli (E. coli)	4A			1.07	2010	L
K32R-16-BAC - Spring Branch, UT (XAL)							
Recreation	Escherichia coli (E. coli)	4A			0.72	2012	L
K34R-01-BAC - Mill Swamp							
Recreation	Escherichia coli (E. coli)	4A			8.45	2010	L
K34R-02-BAC - Rattlesnake Swamp							
Recreation	Escherichia coli (E. coli)	4A			6.43	2010	L
K40R-01-DO - Unnamed tributary to Northwest River							

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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	Dissolved Oxygen	4A			4.06	2002	L
K40R-02-DO - Northwest River (Upper, Middle, Lower & Mouth)							
Aquatic Life	Dissolved Oxygen	4A			15.95	1998	L
Aquatic Life	Dissolved Oxygen	4A			1.91	2010	L
K40R-06-DO - Indian Creek tributary to Northwest River							
Aquatic Life	Dissolved Oxygen	4A			3.46	2002	L
K41R-01-DO - Pocaty River							
Aquatic Life	Dissolved Oxygen	4A			7.43	2002	L
K41R-02-DO - Milldam Creek - Lower							
Aquatic Life	Dissolved Oxygen	4A			2.55	2006	L
K41R-03-DO - Albemarle Canal & North Landing River - Middle							
Aquatic Life	Dissolved Oxygen	4A			8.55	2002	L
Aquatic Life	Dissolved Oxygen	4A			2.16	2006	L
K41R-05-BAC - West Neck Creek - Middle							
Recreation	Escherichia coli (E. coli)	4A			3.4	2002	L
K41R-05-DO - West Neck Creek - Middle							
Aquatic Life	Dissolved Oxygen	4A			3.4	2002	L
K42E-01-BAC - Nawney Creek - Upper							
Recreation	Enterococcus	4A	0.016			2004	L
K42E-01-DO - Nawney Creek - Upper							
Aquatic Life	Dissolved Oxygen	4A	0.016			2002	L
K42E-02-BAC - Nawney Creek - Lower							
Recreation	Enterococcus	4A	0.017			2006	L
K42E-02-DO - Nawney Creek - Lower							
Aquatic Life	Dissolved Oxygen	4A	0.017			2008	L
K42E-03-BAC - Hell Point Creek - Lower (at mouth)							
Recreation	Enterococcus	4A	0.015			2006	L
K42E-04-BAC - Muddy Creek							
Recreation	Enterococcus	4A	0.026			2004	L
K42E-05-BAC - Beggars Bridge Creek							
Recreation	Enterococcus	4A	0.042			2004	L
K42E-06-BAC - Ashville Bridge Creek - Lower							
Recreation	Enterococcus	4A	0.022			2006	L
K42E-10-BAC - Hell Point Creek - Upper							
Recreation	Enterococcus	4A	0.03			2006	L
K42E-12-BAC - Lower Scopus Marsh							
Recreation	Enterococcus	4A			1.37	2020	L

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Tennessee and Big Sandy River Basins

Cause Group - Water Name		Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Impaired Use	Cause						
O01R-01-BAC - South Fork Holston River and Tributaries							
Recreation	Escherichia coli (E. coli)	4A			8.73	2002	L
Recreation	Escherichia coli (E. coli)	4A			12.99	2004	L
Recreation	Escherichia coli (E. coli)	4A			17.92	2010	L
Recreation	Escherichia coli (E. coli)	4A			3.68	2016	L
Recreation	Escherichia coli (E. coli)	4A			15.89	2022	L
O02R-05-BAC - Whitetop Laurel Creek							
Recreation	Escherichia coli (E. coli)	4A			3.80	2012	L
Recreation	Escherichia coli (E. coli)	4A			3.19	2022	L
O03R-01-BAC - Middle Fork Holston River and Tributaries							
Recreation	Escherichia coli (E. coli)	4A			12.60	2004	L
Recreation	Escherichia coli (E. coli)	4A			7.67	2006	L
Recreation	Escherichia coli (E. coli)	4A			0.88	2008	L
Recreation	Escherichia coli (E. coli)	4A			14.07	2010	L
Recreation	Escherichia coli (E. coli)	4A			4.25	2014	L
Recreation	Escherichia coli (E. coli)	4A			12.52	2020	L
O03R-01-BEN - Middle Fork Holston River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			3.42	2010	H
O03R-02-BAC - Bear Creek							
Recreation	Escherichia coli (E. coli)	4A			6.51	2010	L
O03R-03-BAC - Staley Creek							
Recreation	Escherichia coli (E. coli)	4A			6.60	2010	L
Recreation	Escherichia coli (E. coli)	4A			1.46	2020	L
O04R-01-BAC - Hungry Mother Creek							
Recreation	Escherichia coli (E. coli)	4A			4.83	2006	L
Recreation	Escherichia coli (E. coli)	4A			24.50	2022	L
O04R-03-BAC - Laurel Springs Creek							
Recreation	Escherichia coli (E. coli)	4A			2.12	2006	L
O04R-04-BAC - Walker Creek							
Recreation	Escherichia coli (E. coli)	4A			13.53	2006	L
O04R-05-BAC - Sulphur Spring Branch and Tributaries							
Recreation	Escherichia coli (E. coli)	4A			11.28	2012	L
O05R-01-BAC - Three Creeks							
Recreation	Escherichia coli (E. coli)	4A			0.50	1996	L
Recreation	Escherichia coli (E. coli)	4A			8.47	2002	L
Recreation	Escherichia coli (E. coli)	4A			10.77	2006	L
Recreation	Escherichia coli (E. coli)	4A			12.02	2020	L
O05R-01-BEN - Three Creeks							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			15.80	2004	H
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			10.80	2004	L
O05R-02-BAC - Greenway Creek							
Recreation	Escherichia coli (E. coli)	4A			5.02	2008	L
O05R-05-BEN - Middle Fork Holston River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			3.80	2006	H
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			9.20	2008	H
O06R-01-BAC - Wolf Creek and Tributaries							
Recreation	Escherichia coli (E. coli)	4A			3.33	2008	L
Recreation	Escherichia coli (E. coli)	4A			5.70	2010	L
Recreation	Escherichia coli (E. coli)	4A			2.67	2016	L
O06R-01-BEN - Wolf Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			3.33	2002	H
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			3.34	2006	H
O06R-04-BAC - Town Creek							
Recreation	Escherichia coli (E. coli)	4A			4.76	2012	L
O07R-01-BAC - Beaver Creek and Tributaries							
Recreation	Escherichia coli (E. coli)	4A			23.06	2006	L
O07R-01-BEN - Beaver Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			15.05	1998	L
O09R-01-BAC - Lick Creek							
Recreation	Escherichia coli (E. coli)	4A			5.73	2006	L

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Appendix 1c - 2024 Impaired Waters (Category 4A/4D) TMDL Approved and (Category 4B) Other Control Measures Present

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
O09R-03-BAC - North Fork Holston River							
Recreation	Escherichia coli (E. coli)	4A			26.01	2010	L
Recreation	Escherichia coli (E. coli)	4A			12.58	2014	L
Recreation	Escherichia coli (E. coli)	4A			1.74	2020	L
O10R-01-BAC - North Fork Holston River							
Recreation	Escherichia coli (E. coli)	4A			18.76	2006	L
Recreation	Escherichia coli (E. coli)	4A			1.84	2008	L
O10R-01-HG - North Fork Holston River							
Fish Consumption	Mercury in Fish Tissue	4A			82.06	1994	L
O10R-05-BAC - North Fork Holston River Tributaries							
Recreation	Escherichia coli (E. coli)	4A			8.88	2006	L
Recreation	Escherichia coli (E. coli)	4A			20.86	2010	L
O11R-03-BEN - North Fork Holston River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			4.92	2006	L
O11R-03-CHLR - North Fork Holston							
Aquatic Life	Chloride	4A			4.92	1996	L
O11R-04-BAC - Logan Creek							
Recreation	Escherichia coli (E. coli)	4A			5.43	2006	L
O11R-05-BAC - Toole Creek							
Recreation	Escherichia coli (E. coli)	4A			5.85	2006	L
O11R-08-BAC - Brumley Creek							
Recreation	Escherichia coli (E. coli)	4A			4.18	2008	L
O11R-09-BAC - East Fork Wolf Creek							
Recreation	Escherichia coli (E. coli)	4A			3.48	2012	L
O11R-11-BAC - Finley Creek							
Recreation	Escherichia coli (E. coli)	4A			1.90	2012	L
O11R-12-BAC - Wolf Creek and West Fork Wolf Creek							
Recreation	Escherichia coli (E. coli)	4A			3.16	2012	L
Recreation	Escherichia coli (E. coli)	4A			0.96	2022	L
O12R-02-BAC - Abrams Creek							
Recreation	Escherichia coli (E. coli)	4A			11.78	2006	L
O12R-03-BAC - Cove Creek and Tribs							
Recreation	Escherichia coli (E. coli)	4A			13.36	2006	L
Recreation	Escherichia coli (E. coli)	4A			0.85	2018	L
O12R-04-BAC - Little Moccasin Creek							
Recreation	Escherichia coli (E. coli)	4A			5.02	2006	L
O12R-05-BAC - Nordyke Creek							
Recreation	Escherichia coli (E. coli)	4A			6.15	2006	L
O12R-06-BAC - Smith Creek and Gaspard Creek							
Recreation	Escherichia coli (E. coli)	4A			8.12	2006	L
Recreation	Escherichia coli (E. coli)	4A			1.38	2016	L
O13R-03-BAC - North Fork Holston River Tributaries							
Recreation	Escherichia coli (E. coli)	4A			8.75	2008	L
Recreation	Escherichia coli (E. coli)	4A			15.90	2010	L
Recreation	Escherichia coli (E. coli)	4A			6.04	2018	L
O14R-01-BAC - Big Moccasin Creek							
Recreation	Escherichia coli (E. coli)	4A			28.49	2008	L
Recreation	Escherichia coli (E. coli)	4A			8.24	2010	L
Recreation	Escherichia coli (E. coli)	4A			2.87	2012	L
Recreation	Escherichia coli (E. coli)	4A			0.67	2024	L
P01R-01-BAC - Clinch River							
Recreation	Escherichia coli (E. coli)	4A			12.25	2010	L
P01R-01-BEN - Cavitts Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			2.40	2016	L
P01R-02-BAC - Plum Creek and North Fork Clinch River							
Recreation	Escherichia coli (E. coli)	4A			5.51	2010	L
P01R-03-BAC - South Fork Clinch River and Cavitts Creek							
Recreation	Escherichia coli (E. coli)	4A			6.57	2010	L
P02R-02-BAC - Laurel Fork							
Recreation	Escherichia coli (E. coli)	4A			4.57	2012	L
P03R-01-BAC - Clinch River Tributaries							

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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
Recreation	Escherichia coli (E. coli)	4A			3.05	2006	L
Recreation	Escherichia coli (E. coli)	4A			7.40	2010	L
Recreation	Escherichia coli (E. coli)	4A			4.35	2018	L
P03R-02-BAC - Clinch River							
Recreation	Escherichia coli (E. coli)	4A			3.01	2004	L
Recreation	Escherichia coli (E. coli)	4A			5.55	2010	L
P04R-01-BAC - Lewis Creek and Hess Creek							
Recreation	Escherichia coli (E. coli)	4A			9.48	2010	L
P04R-01-BEN - Lewis Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			4.98	2002	L
P04R-02-BAC - Swords Creek							
Recreation	Escherichia coli (E. coli)	4A			2.92	2010	L
P04R-03-BAC - Clinch River							
Recreation	Escherichia coli (E. coli)	4A			11.85	2020	L
P05R-01-BAC - Indian Creek							
Recreation	Escherichia coli (E. coli)	4A			4.10	2010	L
P05R-04-BAC - Little River							
Recreation	Escherichia coli (E. coli)	4A			5.26	2010	L
Recreation	Escherichia coli (E. coli)	4A			4.12	2012	L
Recreation	Escherichia coli (E. coli)	4A			14.03	2022	L
P05R-05-BAC - Maiden Spring Creek and Liberty Creek							
Recreation	Escherichia coli (E. coli)	4A			9.52	2010	L
Recreation	Escherichia coli (E. coli)	4A			6.70	2016	L
Recreation	Escherichia coli (E. coli)	4A			3.77	2020	L
P06R-01-BAC - Big Cedar Creek and Tributaries							
Recreation	Escherichia coli (E. coli)	4A			17.96	2006	L
Recreation	Escherichia coli (E. coli)	4A			1.11	2008	L
Recreation	Escherichia coli (E. coli)	4A			12.08	2012	L
P06R-02-BAC - Little Cedar Creek							
Recreation	Escherichia coli (E. coli)	4A			2.20	2012	L
Recreation	Escherichia coli (E. coli)	4A			6.04	2018	L
P07R-01-BAC - Clinch River and Tributaries							
Recreation	Escherichia coli (E. coli)	4A			28.06	2006	L
Recreation	Escherichia coli (E. coli)	4A			3.41	2012	L
P09R-01-BAC - Clinch River							
Recreation	Escherichia coli (E. coli)	4A			6.00	2012	L
Recreation	Escherichia coli (E. coli)	4A			13.72	2014	L
Recreation	Escherichia coli (E. coli)	4A			4.73	2020	L
P09R-03-BAC - Fall Creek, Little Stony Creek & Staunton Creek							
Recreation	Escherichia coli (E. coli)	4A			12.75	2006	L
Recreation	Escherichia coli (E. coli)	4A			2.74	2024	L
P09R-05-BAC - Russell Creek							
Recreation	Escherichia coli (E. coli)	4A			5.23	2008	L
P09R-09-BAC - Ramey Branch							
Recreation	Escherichia coli (E. coli)	4A			3.58	2020	L
P10R-01-BAC - Lick Creek and Tributaries							
Recreation	Escherichia coli (E. coli)	4A			1.14	2004	L
Recreation	Escherichia coli (E. coli)	4A			12.66	2006	L
Recreation	Escherichia coli (E. coli)	4A			2.50	2012	L
P10R-01-BEN - Lick Creek and Tributaries							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			9.62	2002	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			9.71	2004	L
P10R-06-BAC - Honey Branch							
Recreation	Escherichia coli (E. coli)	4A			2.89	2018	L
P11R-01-BEN - Guest River and Tributaries							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			31.44	2006	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			11.83	2014	L
P11R-03-BAC - Guest River and Tributaries							
Recreation	Escherichia coli (E. coli)	4A			4.15	2004	L
Recreation	Escherichia coli (E. coli)	4A			3.10	2006	L
Recreation	Escherichia coli (E. coli)	4A			1.94	2010	L
Recreation	Escherichia coli (E. coli)	4A			28.34	2012	L

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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
Recreation	Escherichia coli (E. coli)	4A			5.08	2014	L
Recreation	Escherichia coli (E. coli)	4A			2.93	2018	L
Recreation	Escherichia coli (E. coli)	4A			3.77	2024	L
P11R-05-BAC - Crab Orchard Creek							
Recreation	Escherichia coli (E. coli)	4A			2.75	2006	L
P11R-06-BAC - Little Tom's Creek							
Recreation	Escherichia coli (E. coli)	4A			4.79	2006	L
P11R-08-BAC - Toms Creek							
Recreation	Escherichia coli (E. coli)	4A			12.62	2006	L
P13R-03-BAC - Clinch River, Cove Creek and Stock Creek							
Recreation	Escherichia coli (E. coli)	4A			21.56	2008	L
Recreation	Escherichia coli (E. coli)	4A			13.57	2014	L
Recreation	Escherichia coli (E. coli)	4A			3.46	2020	L
P14R-01-BAC - Copper Creek and Tributaries							
Recreation	Escherichia coli (E. coli)	4A			18.38	2008	L
Recreation	Escherichia coli (E. coli)	4A			40.43	2014	L
Recreation	Escherichia coli (E. coli)	4A			6.85	2020	L
Recreation	Escherichia coli (E. coli)	4A			13.94	2024	L
P15R-00-BAC - North Fork Clinch River							
Recreation	Escherichia coli (E. coli)	4A			11.40	2008	L
Recreation	Escherichia coli (E. coli)	4A			5.73	2010	L
Recreation	Escherichia coli (E. coli)	4A			2.46	2014	L
Recreation	Escherichia coli (E. coli)	4A			7.33	2018	L
P16R-01-BAC - Blackwater Creek							
Recreation	Escherichia coli (E. coli)	4A			2.10	2008	L
Recreation	Escherichia coli (E. coli)	4A			1.94	2016	L
P17R-01-BAC - Callahan Creek							
Recreation	Escherichia coli (E. coli)	4A			3.64	2006	L
Recreation	Escherichia coli (E. coli)	4A			1.68	2008	L
P17R-01-BEN - Callahan Creek and Tributaries							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			1.68	2002	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			14.31	2014	L
P17R-02-BAC - Powell River							
Recreation	Escherichia coli (E. coli)	4A			2.71	2006	L
Recreation	Escherichia coli (E. coli)	4A			1.00	2008	L
Recreation	Escherichia coli (E. coli)	4A			5.47	2010	L
Recreation	Escherichia coli (E. coli)	4A			9.03	2020	L
P17R-02-BEN - Powell River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			2.71	2002	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			5.70	2010	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			10.61	2014	L
P17R-03-BEN - Black Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			3.12	2002	L
P17R-07-BEN - Pigeon Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			3.42	2012	L
P17R-09-BEN - Roaring Fork and Potcamp Fork							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			5.05	2010	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			2.86	2014	L
P17R-13-BEN - Looney Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			6.05	2014	L
P18R-01-BAC - South Fork Powell River							
Recreation	Escherichia coli (E. coli)	4A			6.45	2012	L
P18R-02-BAC - Butcher Fork							
Recreation	Escherichia coli (E. coli)	4A			4.97	2012	L
P18R-03-BAC - South Fork Powell River							
Recreation	Escherichia coli (E. coli)	4A			5.82	2010	L
P19R-01-BAC - Mud Creek							
Recreation	Escherichia coli (E. coli)	4A			1.82	2010	L
P19R-01-BEN - Powell River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			6.62	2004	L
P20R-00-BEN - Straight Creek and Tributaries							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			28.13	1996	L

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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
P20R-01-BAC - North Fork Powell River							
Recreation	Escherichia coli (E. coli)	4A			6.06	2004	L
Recreation	Escherichia coli (E. coli)	4A			2.99	2020	L
P20R-01-BEN - North Fork Powell River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			6.06	1994	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			2.99	2020	L
P20R-02-BAC - Straight Creek and Tributaries							
Recreation	Escherichia coli (E. coli)	4A			6.81	2002	L
Recreation	Escherichia coli (E. coli)	4A			3.33	2016	L
P20R-03-BAC - Reeds Creek							
Recreation	Escherichia coli (E. coli)	4A			1.35	2012	L
P21R-03-BAC - Powell River							
Recreation	Escherichia coli (E. coli)	4A			12.74	2006	L
P21R-03-BEN - Powell River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			6.47	2008	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			12.74	2012	L
P21R-06-BAC - Station Creek							
Recreation	Escherichia coli (E. coli)	4A			2.31	2012	L
P22R-01-BAC - Wallen Creek							
Recreation	Escherichia coli (E. coli)	4A			42.90	2012	L
Q03R-01-BEN - Pawpaw Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			4.23	1994	L
Q03R-02-BAC - Knox Creek and Guess Fork							
Recreation	Escherichia coli (E. coli)	4A			9.54	2002	L
Recreation	Escherichia coli (E. coli)	4A			7.76	2006	L
Recreation	Escherichia coli (E. coli)	4A			8.70	2010	L
Q03R-02-BEN - Knox Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			17.30	1996	L
Q04R-01-BAC - Levisa Fork and Tributaries							
Recreation	Escherichia coli (E. coli)	4A			8.99	2006	L
Recreation	Escherichia coli (E. coli)	4A			14.10	2008	L
Recreation	Escherichia coli (E. coli)	4A			16.16	2010	L
Recreation	Escherichia coli (E. coli)	4A			3.23	2018	L
Q04R-01-BEN - Levisa Fork and Slate Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			10.95	2002	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			13.32	2004	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			6.31	2006	L
Q04R-01-PCB - Levisa Fork and Garden Creek							
Fish Consumption	PCBs in Fish Tissue	4A			1.84	2004	L
Fish Consumption	PCBs in Fish Tissue	4A			29.88	2006	L
Q04R-02-BAC - Garden Creek and Right Fork Garden Creek							
Recreation	Escherichia coli (E. coli)	4A			18.26	2008	L
Q04R-02-BEN - Garden Creek and Right Fork Garden Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			1.84	1998	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			16.42	2008	L
Q05R-00-BEN - Dismal Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			9.14	2016	L
Q05R-01-BAC - Dismal Creek							
Recreation	Escherichia coli (E. coli)	4A			12.45	2010	L
Recreation	Escherichia coli (E. coli)	4A			5.39	2024	L
Q08R-01-BAC - Bull Creek, Poplar Creek, and Home Creek							
Recreation	Escherichia coli (E. coli)	4A			31.69	2008	L
Recreation	Escherichia coli (E. coli)	4A			4.79	2014	L
Q08R-01-BEN - Bull Creek and Tributaries							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			28.45	1998	L
Q08R-02-BEN - Home Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			4.79	2010	L
Q08R-05-BAC - Conaway Creek							
Recreation	Escherichia coli (E. coli)	4A			2.63	2016	L
Q08R-05-BEN - Conaway Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			5.48	2014	L

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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
Q08R-09-BEN - Poplar Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			3.04	2014	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			0.20	2024	L
Q11R-02-BAC - McClure River and Tributaries							
Recreation	Escherichia coli (E. coli)	4A			13.07	2006	L
Recreation	Escherichia coli (E. coli)	4A			3.25	2008	L
Recreation	Escherichia coli (E. coli)	4A			11.01	2012	L
Recreation	Escherichia coli (E. coli)	4A			1.08	2014	L
Q12R-01-BEN - Russell Prater Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			11.72	1996	L
Q13R-01-BEN - South Fork Pound River and Tributaries							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			5.30	2002	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			5.66	2004	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			2.77	2014	L
Q13R-02-BEN - North Fork Pound River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			1.30	2002	L

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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						
AO23-01-BAC - Atlantic Ocean Beaches - Croatan and 15th Street							
Recreation	Enterococcus	4A	0.316			2024	L
C01E-01-SF - Great Wicomico River							
Shellfishing	Fecal Coliform	4A	0.382			1998	L
C01E-01-SF2 - Blackwells Creek							
Shellfishing	Fecal Coliform	4A	0.061			2004	L
Shellfishing	Fecal Coliform	4A	0.07			2024	L
C01E-02-SF - Balls Creek							
Shellfishing	Fecal Coliform	4A	0.064			1998	L
C01E-02-SF2 - Balls Creek							
Shellfishing	Fecal Coliform	4A	0.112			2002	L
C01E-03-SF - Tipers Creek							
Shellfishing	Fecal Coliform	4A	0.083			1998	L
C01E-04-SF - Henrys Creek							
Shellfishing	Fecal Coliform	4A	0.031			2018	L
C01E-05-SF - Whays Creek							
Shellfishing	Fecal Coliform	4A	0.028			1998	L
C01E-06-SF - Warehouse Creek							
Shellfishing	Fecal Coliform	4A	0.069			1998	L
C01E-06-SF2 - Warehouse Creek							
Shellfishing	Fecal Coliform	4A	0.008			2006	L
C01E-08-BAC - Cockrell Creek							
Recreation	Enterococcus	4A	0.47			2008	L
C01E-09-SF - Prentice Creek							
Shellfishing	Fecal Coliform	4A	0.015			1998	L
C01E-09-SF2 - Prentice Creek							
Shellfishing	Fecal Coliform	4A	0.014			2010	L
C01E-12-BAC - Mill Creek							
Recreation	Enterococcus	4A	0.241			2010	L
C01E-12-SF - Mill Creek							
Shellfishing	Fecal Coliform	4A	0.241			1998	L
C01E-12-SF2 - Mill Creek							
Shellfishing	Fecal Coliform	4A	0.027			2004	L
C01E-14-SF - Gaskin Pond							
Shellfishing	Fecal Coliform	4A	0.076			2010	L
C01E-15-SF - Dividing Creek, Lawrence Creek, Natty Point Cove, UT to Dividing Creek							
Shellfishing	Fecal Coliform	4A	0.33			1998	L
Shellfishing	Fecal Coliform	4A	0.009			2024	L
C01E-19-SF - XEU - Prentice Creek, UT							
Shellfishing	Fecal Coliform	4A	0.011			1998	L
C01E-21-SF - XDL - Great Wicomico River, UT (Big Fleets Pond)							
Shellfishing	Fecal Coliform	4A	0.018			2002	L
C01E-22-SF - Indian Creek & Pitman Cove							
Shellfishing	Fecal Coliform	4A	0.379			1998	L
C01E-23-SF - XUC - Dividing Creek, UT							
Shellfishing	Fecal Coliform	4A	0.013			2020	L
C01E-24-SF - Dymer Creek							
Shellfishing	Fecal Coliform	4A	0.309			1998	L
C01E-27-BAC - Tabbs Creek							
Recreation	Enterococcus	4A	0.18			2012	L
Recreation	Enterococcus	4A	0.054			2020	L
C01E-27-SF - Tabbs Creek							
Shellfishing	Fecal Coliform	4A	0.18			1998	L
C01E-28-SF - Antipoison Creek							
Shellfishing	Fecal Coliform	4A	0.083			1998	L
C01E-29-BAC - Indian Creek							
Recreation	Enterococcus	4A	0.431			2014	L
C01E-30-SF - Dymer Creek, UT							

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Appendix 1c - 2024 Impaired Waters (Category 4A/4D) TMDL Approved and (Category 4B) Other Control Measures Present

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
Shellfishing	Fecal Coliform	4A	0.018			2016	L
C01E-31-SF - Georges Cove							
Shellfishing	Fecal Coliform	4A	0.034			2020	L
C01E-32-SF - Lees Cove							
Shellfishing	Fecal Coliform	4A	0.015			2020	L
C01E-33-SF - Betts Mill Creek							
Shellfishing	Fecal Coliform	4A	0.082			2004	L
C01E-34-SF - Lees Cove							
Shellfishing	Fecal Coliform	4A	0.01			2020	L
C01E-36-SF - Harpers Creek							
Shellfishing	Fecal Coliform	4A	0.022			2020	L
C01E-40-SF - Coles Creek							
Shellfishing	Fecal Coliform	4A	0.019			2008	L
C01E-42-SF - Jarvis Creek							
Shellfishing	Fecal Coliform	4A	0.029			2016	L
C01E-48-SF - Chases Cove							
Shellfishing	Fecal Coliform	4A	0.023			2006	L
C01E-50-SF - Antipoison Creek, UT							
Shellfishing	Fecal Coliform	4A	0.032			2006	L
C01E-51-SF - Antipoison Creek, UT							
Shellfishing	Fecal Coliform	4A	0.005			2006	L
C01E-55-BAC - Head River Branch							
Recreation	Enterococcus	4A	0.02			2012	L
C01E-59-BAC - Dividing Creek and XDB - Dividing Creek, UT							
Recreation	Enterococcus	4A	0.181			2012	L
C01E-64-BAC - Bush Mill Stream							
Recreation	Enterococcus	4A	0.095			2012	L
C01E-65-BAC - Cockrell Creek							
Recreation	Enterococcus	4A	0.612			2022	L
C01E-66-SF - Towles Creek							
Shellfishing	Fecal Coliform	4A	0.027			2022	L
C01E-68-SF - Prentice Creek, UT							
Shellfishing	Fecal Coliform	4A	0.004			2022	L
C01E-70-SF - Long Creek							
Shellfishing	Fecal Coliform	4A	0.017			2022	L
C01E-71-SF - Hunts Cove							
Shellfishing	Fecal Coliform	4A	0.04			2022	L
C01E-73-SF - Great Wicomico River, UT							
Shellfishing	Fecal Coliform	4A	0.033			2024	L
C01E-74-SF - Tipers Creek							
Shellfishing	Fecal Coliform	4A	0.038			2024	L
C01E-75-SF - Horn Harbor							
Shellfishing	Fecal Coliform	4A	0.071			2024	L
C01E-76-SF - Penny Creek							
Shellfishing	Fecal Coliform	4A	0.009			2024	L
C01E-77-SF - Bailey Prong							
Shellfishing	Fecal Coliform	4A	0.052			2024	L
C01E-78-SF - XEV - Mill Creek, UT							
Shellfishing	Fecal Coliform	4A	0.006			2024	L
C01E-79-SF - Cloverdale Creek							
Shellfishing	Fecal Coliform	4A	0.02			2024	L
C01E-80-SF - Ball Creek							
Shellfishing	Fecal Coliform	4A	0.039			2024	L
C01E-81-SF - Jarvis Creek							
Shellfishing	Fecal Coliform	4A	0.037			2024	L
C01E-82-SF - Georges Cove							
Shellfishing	Fecal Coliform	4A	0.02			2024	L
C01E-83-SF - Ashleys Cove							
Shellfishing	Fecal Coliform	4A	0.029			2024	L

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Appendix 1c - 2024 Impaired Waters (Category 4A/4D) TMDL Approved and (Category 4B) Other Control Measures Present

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
C01E-84-SF - Bells Creek							
Shellfishing	Fecal Coliform	4A	0.042			2024	L
C02R-04-BAC - Exol Swamp							
Recreation	Escherichia coli (E. coli)	4A			11.35	2016	L
C02R-11-BAC - XFB - Dragon Swamp, UT							
Recreation	Escherichia coli (E. coli)	4A			1.47	2018	L
C02R-12-BAC - Dragon Swamp							
Recreation	Escherichia coli (E. coli)	4A			4.36	2020	L
C02R-13-BAC - Dragon Swamp							
Recreation	Escherichia coli (E. coli)	4A			12.37	2024	L
C03E-01-BAC - Harpers Creek							
Recreation	Enterococcus	4A	0.062			2010	L
C03E-02-SF - Piankatank River / Harpers Creek							
Shellfishing	Fecal Coliform	4A	2.164			1998	L
C03E-04-BAC - Ferry Creek							
Recreation	Enterococcus	4A	0.124			2010	L
C03E-05-SF - Wilton Creek							
Shellfishing	Fecal Coliform	4A	0.134			1998	L
C03E-06-SF - Healy Creek							
Shellfishing	Fecal Coliform	4A	0.047			1998	L
C03E-12-SF - Cobbs Creek							
Shellfishing	Fecal Coliform	4A	0.092			2014	L
C03E-15-SF - Dancing Creek							
Shellfishing	Fecal Coliform	4A	0.034			2008	L
C03E-16-BAC - Piankatank River							
Recreation	Enterococcus	4A	0.785			2014	L
C03E-17-BAC - Piankatank River							
Recreation	Enterococcus	4A	1.167			2016	L
C03E-18-SF - Cores Creek							
Shellfishing	Fecal Coliform	4A	0.018			2014	L
C03E-19-SF - Porpoise Cove							
Shellfishing	Fecal Coliform	4A	0.011			2008	L
C03E-22-SF - Jackson Creek, UT							
Shellfishing	Fecal Coliform	4A	0.041			2016	L
C03E-25-SF - Piankatank River							
Shellfishing	Fecal Coliform	4A	0.965			2024	L
C03E-26-SF - Ferry Creek							
Shellfishing	Fecal Coliform	4A	0.115			2024	L
C03E-27-SF - Jackson Creek, UT							
Shellfishing	Fecal Coliform	4A	0.013			2024	L
C03E-28-SF - Jackson Creek							
Shellfishing	Fecal Coliform	4A	0.019			2024	L
C04E-01-SF - Queens Creek							
Shellfishing	Fecal Coliform	4A	0.094			1998	L
C04E-03-SF - Edwards Creek							
Shellfishing	Fecal Coliform	4A	0.027			2018	L
C04E-04-SF - Put In Creek							
Shellfishing	Fecal Coliform	4A	0.021			2016	L
C04E-05-SF - Stutts Creek and Morris Creek							
Shellfishing	Fecal Coliform	4A	0.11			1998	L
C04E-05-SF2 - Morris Creek							
Shellfishing	Fecal Coliform	4A	0.045			2002	L
C04E-08-SF - North River							
Shellfishing	Fecal Coliform	4A	0.317			1998	L
Shellfishing	Fecal Coliform	4A	0.025			2010	L
C04E-09-SF - Elmington Creek							
Shellfishing	Fecal Coliform	4A	0.022			2014	L
C04E-09-SF2 - Elmington Creek							
Shellfishing	Fecal Coliform	4A	0.009			2014	L

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Appendix 1c - 2024 Impaired Waters (Category 4A/4D) TMDL Approved and (Category 4B) Other Control Measures Present

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
C04E-10-SF - Back Creek							
Shellfishing	Fecal Coliform	4A	0.085			1998	L
C04E-13-SF - East River							
Shellfishing	Fecal Coliform	4A	0.198			1998	L
C04E-14-SF - Put In Creek							
Shellfishing	Fecal Coliform	4A	0.077			1998	L
C04E-18-SF - Horn Harbor and Horn Harbor, UT							
Shellfishing	Fecal Coliform	4A	0.14			1998	L
C04E-23-SF - Put In Creek, UT							
Shellfishing	Fecal Coliform	4A	0.005			2016	L
C04E-25-SF - Winder Creek							
Shellfishing	Fecal Coliform	4A	0.025			2002	L
C04E-28-SF - Barn Creek							
Shellfishing	Fecal Coliform	4A	0.02			2008	L
C04E-30-SF - Lanes Creek, UT							
Shellfishing	Fecal Coliform	4A	0.002			2008	L
C04E-31-SF - Winter Harbor							
Shellfishing	Fecal Coliform	4A	0.141			2018	L
C04E-34-SF - Edwards Creek							
Shellfishing	Fecal Coliform	4A	0.006			2020	L
C04E-36-SF - Lanes Creek							
Shellfishing	Fecal Coliform	4A	0.033			2020	L
C04E-37-SF - Hudgins Creek							
Shellfishing	Fecal Coliform	4A	0.016			2020	L
C04E-39-SF - Billups Creek							
Shellfishing	Fecal Coliform	4A	0.044			2020	L
C04E-40-SF - Billups Creek							
Shellfishing	Fecal Coliform	4A	0.006			2020	L
C04E-42-SF - Weston Creek							
Shellfishing	Fecal Coliform	4A	0.025			2008	L
C04E-48-SF - Woodas Creek							
Shellfishing	Fecal Coliform	4A	0.029			2008	L
C04E-49-SF - East River							
Shellfishing	Fecal Coliform	4A	0.072			2008	L
C04E-50-SF - Toddsbury Creek							
Shellfishing	Fecal Coliform	4A	0.02			2020	L
C04E-52-SF - North River, UT							
Shellfishing	Fecal Coliform	4A	0.021			2020	L
C04E-56-SF - East River, UT							
Shellfishing	Fecal Coliform	4A	0.013			2022	L
C04E-57-SF - Miles Creek							
Shellfishing	Fecal Coliform	4A	0.03			2022	L
C04E-58-SF - XFA - North River, UT							
Shellfishing	Fecal Coliform	4A	0.02			2022	L
C04E-59-SF - Raymond Creek							
Shellfishing	Fecal Coliform	4A	0.025			2022	L
C04E-60-SF - Doctors Creek							
Shellfishing	Fecal Coliform	4A	0.015			2024	L
C04E-61-SF - Dyer Creek							
Shellfishing	Fecal Coliform	4A	0.052			2024	L
C04E-62-SF - East River, UT							
Shellfishing	Fecal Coliform	4A	0.022			2024	L
C04E-63-SF - North River							
Shellfishing	Fecal Coliform	4A	0.064			2024	L
C04E-64-SF - Belleville Creek							
Shellfishing	Fecal Coliform	4A	0.053			2024	L
C04E-67-SF - Davis Creek							
Shellfishing	Fecal Coliform	4A	0.037			2024	L
C04E-69-SF - Queens Creek, UT							

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Appendix 1c - 2024 Impaired Waters (Category 4A/4D) TMDL Approved and (Category 4B) Other Control Measures Present

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
Shellfishing	Fecal Coliform	4A	0.011			2024	L
C04E-71-SF - Stutts Creek, UT							
Shellfishing	Fecal Coliform	4A	0.005			2024	L
C04R-01-BAC - East River							
Recreation	Escherichia coli (E. coli)	4A			0.59	2012	L
C04R-02-BAC - Burke Mill Stream							
Recreation	Enterococcus	4A	0.025			2012	L
C05E-01-SF - Ware River / Fox Mill Run							
Shellfishing	Fecal Coliform	4A	0.356			1998	L
C05E-01-SF2 - Ware River							
Shellfishing	Fecal Coliform	4A	0.262			2002	L
C05E-02-SF - Wilson Creek							
Shellfishing	Fecal Coliform	4A	0.033			1998	L
C05E-02-SF2 - Wilson Creek							
Shellfishing	Fecal Coliform	4A	0.213			2002	L
C05E-03-BAC - Ware River							
Recreation	Enterococcus	4A	0.27			2018	L
C05E-05-SF - Ware River, UT							
Shellfishing	Fecal Coliform	4A	0.01			2024	L
C05R-01-BAC - Fox Mill Run							
Recreation	Escherichia coli (E. coli)	4A			6.97	2010	L
C05R-04-BAC - XEG - Fox Mill Run, UT							
Recreation	Escherichia coli (E. coli)	4A			1.71	2012	L
C06E-01-SF - Northwest Branch Severn River							
Shellfishing	Fecal Coliform	4A	0.13			2016	L
C06E-03-SF - Vaughans Creek							
Shellfishing	Fecal Coliform	4A	0.121			2016	L
Shellfishing	Fecal Coliform	4A	0.015			2022	L
C06E-04-SF - Heywood Creek							
Shellfishing	Fecal Coliform	4A	0.12			1998	L
C06E-05-SF - Thorntons Creek							
Shellfishing	Fecal Coliform	4A	0.063			1998	L
C06E-08-SF - Free School Creek							
Shellfishing	Fecal Coliform	4A	0.039			2008	L
C06E-09-SF - Blevins Creek							
Shellfishing	Fecal Coliform	4A	0.049			2020	L
C06E-12-SF - Whitaker Creek							
Shellfishing	Fecal Coliform	4A	0.037			2022	L
C06E-13-SF - Northwest Branch Severn River, UT							
Shellfishing	Fecal Coliform	4A	0.034			2024	L
C06R-01-BAC - Northwest Branch of Severn River							
Recreation	Escherichia coli (E. coli)	4A			2.16	2008	L
C06R-02-BAC - XEE - Northwest Branch Severn River, UT							
Recreation	Enterococcus	4A	0.003			2012	L
C07E-01-BAC - Brick Kiln Creek							
Recreation	Enterococcus	4A	0.086			2004	L
C07E-02-BAC - Newmarket Creek - Upper & Lower							
Recreation	Enterococcus	4A	0.152			2006	L
C07E-04-BAC - Poquoson River - Upper							
Recreation	Enterococcus	4A	0.356			1998	L
C07E-05-BAC - SW Br Back R - DSS OPEN [TMDL]							
Recreation	Enterococcus	4A	0.424			2002	L
Recreation	Fecal Coliform	4A	1.263			1998	L
Shellfishing	Fecal Coliform	4A	1.263			1998	L
C07E-06-SF - Lambs Creek - Poquoson River							
Shellfishing	Fecal Coliform	4A	0.116			1998	L
C07E-07-SF - Patricks Creek - Poquoson River							
Shellfishing	Fecal Coliform	4A	0.119			2004	L
C07E-10-SF - Mainstem Back River							
Shellfishing	Fecal Coliform	4A	0.248			1998	L

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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
Shellfishing	Fecal Coliform	4A	0.112			2024	L
C07E-11-SF - Poquoson River - Upper [TMDL - CD]							
Shellfishing	Fecal Coliform	4A	0.356			1998	L
C07E-14-SF - Harris River - Upper							
Shellfishing	Fecal Coliform	4A	0.077			1998	L
C07E-15-SF - DSS Inlet #1 - Unnamed Inlet at Mouth of SW Branch							
Shellfishing	Fecal Coliform	4A	0.025			1998	L
C07E-20-SF - Back Creek - Inlet near Dandy Point							
Shellfishing	Fecal Coliform	4A	0.034			2014	L
C07E-22-SF - Newmarket Creek trib and Southwest Branch (not including headwaters downstream to Langley View) - Back River							
Shellfishing	Fecal Coliform	4A	0.152			1998	L
C07E-23-SF - Chisman Creek - Upper & Goose Cr							
Shellfishing	Fecal Coliform	4A	0.276			1998	L
Shellfishing	Fecal Coliform	4A	0.075			2024	L
C07E-25-SF - Lyons Creek - Upper, Middle							
Shellfishing	Fecal Coliform	4A	0.07			2006	L
C07E-26-SF - Floyds Bay							
Shellfishing	Fecal Coliform	4A	0.024			2006	L
C07E-38-SF - Bennett Creek - Upper (DSS_06-IR)							
Shellfishing	Fecal Coliform	4A	0.039			2012	L
C07E-41-SF - Unsegmented estuaries in Back River - DSS							
Shellfishing	Fecal Coliform	4A	0.097			2012	L
C07E-42-SF - Front Cove							
Shellfishing	Fecal Coliform	4A	0.042			2006	L
Shellfishing	Fecal Coliform	4A	0.036			2022	L
Shellfishing	Fecal Coliform	4A	0.053			2024	L
C07E-44-BAC - Chisman Creek - Lower							
Recreation	Enterococcus	4A	0.684			2006	L
C07R-02-BAC - Newmarket Creek - Lower Riverine							
Recreation	Fecal Coliform	4A			3.96	2006	L
C08E-03-BAC - Thalia Creek, Thurston Branch & Buchanan Creek							
Recreation	Enterococcus	4A	0.286			2006	L
C08E-05-BAC - London Bridge Creek							
Recreation	Enterococcus	4A	0.059			2006	L
C08E-07-BAC - West Neck Creek (Upper) & Canal #2							
Recreation	Enterococcus	4A	0.124			1998	L
C08E-10-SF - Dey Cove/Mill Dam Creek							
Shellfishing	Fecal Coliform	4A	0.042			1998	L
C08E-13-SF - Lynnhaven River System							
Shellfishing	Fecal Coliform	4A	0.591			1998	L
C08E-18-SF - Little Neck Creek-Lower [Condemned SF]							
Shellfishing	Fecal Coliform	4A	0.035			2016	L
C08E-19-SF - Linkhorn Bay							
Shellfishing	Fecal Coliform	4A	0.133			2020	L
Shellfishing	Fecal Coliform	4A	0.035			2024	L
C08E-21-SF - Little Neck Creek-Lower							
Shellfishing	Fecal Coliform	4A	0.144			2020	L
C08E-22-SF - Dey Cove/Mill Dam Creek- Mouth							
Shellfishing	Fecal Coliform	4A	0.006			2022	L
C09E-01-BAC - Bulbeggar Creek							
Recreation	Enterococcus	4A	0.134			2004	L
C09E-01-SF - Pitts Creek							
Shellfishing	Fecal Coliform	4A	0.127			1998	L
Shellfishing	Fecal Coliform	4A	0.069			2018	L
C09E-02-BAC - Pocomoke River							
Recreation	Enterococcus	4A	0.24			2006	L
C09E-10-BAC - Holdens Creek - Upper							
Recreation	Enterococcus	4A	0.034			1998	L
C09E-10-SF - Pocomoke River & Sound; Holdens Creek							
Shellfishing	Fecal Coliform	4A	1.113			1998	L

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Cause Group - Water Name Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Shellfishing	Fecal Coliform	4A	0.218			2006	L
Shellfishing	Fecal Coliform	4A	0.966			2010	L
C09E-11-SF - Unsegmented tidal tributaries in C09E-POCOH							
Shellfishing	Fecal Coliform	4A	0.006			2006	L
C09R-01-DO - Unnamed tributary to Pitts Creek							
Aquatic Life	Dissolved Oxygen	4A			7.49	1998	L
C09R-02-BAC - Unnamed tributary to Pitts Creek							
Recreation	Escherichia coli (E. coli)	4A			7.49	2004	L
C10E-05-BAC - Messongo Creek - Upper							
Recreation	Enterococcus	4A	0.042			2018	L
Shellfishing	Fecal Coliform	4A	0.042			1998	L
C10E-07-BAC - Hunting Creek - Upper & Lower							
Recreation	Enterococcus	4A	0.842			2006	L
C10E-10-BAC - Deep Creek - Middle							
Recreation	Enterococcus	4A	0.16			2024	L
C10E-10-SF - Bagwell Creek							
Shellfishing	Fecal Coliform	4A	0.115			1998	L
C10E-11-SF - Deep Creek - Middle & Upper							
Shellfishing	Fecal Coliform	4A	0.16			1998	L
Shellfishing	Fecal Coliform	4A	0.114			2018	L
C10E-12-SF - Guilford Creek - Upper							
Shellfishing	Fecal Coliform	4A	0.152			1998	L
C10E-17-BAC - Messongo Creek-Lower							
Recreation	Enterococcus	4A	0.858			2018	L
C10E-18-SF - Hunting Creek - Upper							
Shellfishing	Fecal Coliform	4A	0.194			1998	L
C10E-22-BAC - Holdens Creek - Lower							
Recreation	Enterococcus	4A	0.05			2020	L
C10E-23-BAC - Messongo Creek - Middle							
Recreation	Enterococcus	4A	0.214			2018	L
Shellfishing	Fecal Coliform	4A	0.214			2006	L
C10R-01-BAC - Unnamed tributary to Sandy Bottom Branch							
Recreation	Escherichia coli (E. coli)	4A			1.13	2006	L
C10R-01-BAC2 - Unnamed tributary from Tyson Foods							
Recreation	Escherichia coli (E. coli)	4A			1.4	2010	L
C10R-01-BEN - Unnamed tributary to Sandy Bottom Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4B			1.13	1996	
C10R-01-BEN2 - Unnamed tributary from Tyson Foods							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4B			1.4	2008	
C10R-02-BAC - Sandy Bottom Branch							
Recreation	Escherichia coli (E. coli)	4A			1.3	2004	L
C11E-04-BAC - North Branch, Onancock Creek							
Recreation	Enterococcus	4A	0.021			2002	L
Recreation	Enterococcus	4A	0.368			2024	L
C11E-05-BAC - Central Branch, Onancock Creek							
Recreation	Enterococcus	4A	0.018			2008	L
C11E-06-BAC - Southern Branch, Onancock Creek							
Recreation	Enterococcus	4A	0.058			1998	L
C11E-11-SF - Chesconessex Creek - South Br.							
Shellfishing	Fecal Coliform	4A	0.108			1998	L
C11E-12-SF - Finneys Creek							
Shellfishing	Fecal Coliform	4A	0.091			1998	L
C11E-13-SF - Cedar Creek							
Shellfishing	Fecal Coliform	4A	0.063			1998	L
C11E-23-SF - Onancock Creek Mainstem - Upper							
Shellfishing	Fecal Coliform	4A	0.239			2010	L
C11E-24-SF - Chesconessex Creek - South Br. - Middle							
Shellfishing	Fecal Coliform	4A	0.15			2020	L
C12E-10-SF - Pungoteague Creek - Upper, Warehouse Prong- Lower							
Shellfishing	Fecal Coliform	4A	0.186			1998	L

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Appendix 1c - 2024 Impaired Waters (Category 4A/4D) TMDL Approved and (Category 4B) Other Control Measures Present

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
Shellfishing	Fecal Coliform	4A	0.054			2022	L
C12E-11-SF - Taylor Creek							
Shellfishing	Fecal Coliform	4A	0.13			1998	L
C12E-12-SF - Underhill Creek							
Shellfishing	Fecal Coliform	4A	0.07			2006	L
C12E-13-SF - Taylor Creek- Mouth							
Shellfishing	Fecal Coliform	4A	0.032			2020	L
C12E-14-SF - Upper Warehouse Prong							
Shellfishing	Fecal Coliform	4A	0.042			2022	L
C13E-02-BAC - Nassawadox Creek - Lower							
Recreation	Enterococcus	4A	2.121			2008	L
C13E-11-SF - Church Creek -Upper							
Shellfishing	Fecal Coliform	4A	0.165			2016	L
C13E-11-SF2 - Church Creek - Middle, UT North & South Cove							
Shellfishing	Fecal Coliform	4A	0.059			2004	L
C13E-12-SF - Craddock Creek - Upper [TMDL-bact.]							
Shellfishing	Fecal Coliform	4A	0.082			1998	L
C13E-13-SF - Holly Grove Cove- Upper & Kelley Cove							
Shellfishing	Fecal Coliform	4A	0.168			1998	L
C13E-14-SF - Nassawadox Creek - Upper [TMDL-bact.]							
Shellfishing	Fecal Coliform	4A	0.243			1998	L
C13E-15-SF - Occohannock Creek - Upper							
Shellfishing	Fecal Coliform	4A	0.434			1998	L
C13E-18-SF - McLean Gut							
Shellfishing	Fecal Coliform	4A	0.038			1998	L
C13E-19-SF - Nandua Creek - Upper [TMDL-bact.]							
Shellfishing	Fecal Coliform	4A	0.144			1998	L
C13E-20-SF - Nassawadox Creek - Middle, N. Shore Tribs							
Shellfishing	Fecal Coliform	4A	0.126			2008	L
C13E-22-SF - Shields Cove & Fisher Cove							
Shellfishing	Fecal Coliform	4A	0.087			2008	L
C14E-01-BAC - Hungars Creek - Upper							
Recreation	Fecal Coliform	4A	0.17			1998	L
Shellfishing	Fecal Coliform	4A	0.17			1998	L
C14E-10-SF - Barlow Creek							
Shellfishing	Fecal Coliform	4A	0.039			2024	L
C14E-11-SF - Hungars Creek - Upper							
Recreation	Fecal Coliform	4A	0.17			1998	L
Shellfishing	Fecal Coliform	4A	0.17			1998	L
C14E-13-SF - Mattawoman Creek - Upper							
Shellfishing	Fecal Coliform	4A	0.155			2006	L
C14E-14-SF - The Gulf - Upper							
Shellfishing	Fecal Coliform	4A	0.141			1998	L
C14E-16-SF - Westerhouse Creek - Upper and Middle South Branch [TMDL]							
Shellfishing	Fecal Coliform	4A	0.019			1998	L
C14E-18-SF - UT to Hungars Creek							
Shellfishing	Fecal Coliform	4A	0.038			2012	L
C15E-10-SF - Kings Creek - Upper Forks and Middle							
Shellfishing	Fecal Coliform	4A	0.092			1998	L
C16E-10-SF - Old Plantation Creek - Upper [TMDL]							
Shellfishing	Fecal Coliform	4A	0.059			1998	L
CB5MH-DO-BAY - Chesapeake Bay segment CB5MH_VA							
Aquatic Life	Dissolved Oxygen	4D	185.846			2004	L
Deep-Channel Seasonal	Dissolved Oxygen	4D	185.846			2004	L
Refuge							
Deep-Water Aquatic Life	Dissolved Oxygen	4D	185.846			2004	L
Open-Water Aquatic Life	Dissolved Oxygen	4D	185.846			2004	L
CB5MH-SAV-BAY - Chesapeake Bay segment CB5MH							
Aquatic Life	Aquatic Plants (Macrophytes)	4A	214.685			2006	L

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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
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	4A	214.685			2006	L
CB6PH-DO-BAY - Chesapeake Bay segment CB6PH							
Aquatic Life	Dissolved Oxygen	4D	287.502			2006	L
Deep-Water Aquatic Life	Dissolved Oxygen	4D	127.195			2006	L
Open-Water Aquatic Life	Dissolved Oxygen	4D	287.502			2006	L
CB6PH-SAV-BAY - Chesapeake Bay segment CB6PH							
Aquatic Life	Aquatic Plants (Macrophytes)	4A	293.122			2006	L
Aquatic Life	Aquatic Plants (Macrophytes)	4A	3.959			2016	L
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	4A	293.122			2006	L
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	4A	3.959			2016	L
CB7PH-DO-BAY - Chesapeake Bay segment CB7PH							
Aquatic Life	Dissolved Oxygen	4D	541.457			1998	L
Aquatic Life	Dissolved Oxygen	4D	0.312			2006	L
Deep-Water Aquatic Life	Dissolved Oxygen	4D	169.77			1998	L
Open-Water Aquatic Life	Dissolved Oxygen	4D	541.457			1998	L
Open-Water Aquatic Life	Dissolved Oxygen	4D	0.312			2006	L
CB7PH-SAV-BAY - Chesapeake Bay segment CB7PH							
Aquatic Life	Aquatic Plants (Macrophytes)	4A	575.244			2006	L
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	4A	575.244			2006	L
CB8PH-SAV-BAY - Chesapeake Bay segment CB8PH							
Aquatic Life	Aquatic Plants (Macrophytes)	4A	148.577			2006	L
Shallow-Water Submerged Aquatic Vegetation	Aquatic Plants (Macrophytes)	4A	148.577			2006	L
D01E-02-BAC - Little Mosquito Creek							
Recreation	Enterococcus	4A	0.208			2004	L
D01E-04-BAC - Swans Gut Creek							
Recreation	Enterococcus	4A	0.1			2006	L
D02E-01-BAC - Assawoman Creek- Upper/Lower							
Recreation	Enterococcus	4A	0.136			1998	L
D02E-01-SF - Assawoman Creek- Upper/Lower							
Shellfishing	Fecal Coliform	4A	0.126			1998	L
D02E-10-SF - Unsegmented estuaries in D02E							
Shellfishing	Fecal Coliform	4A	0.007			2010	L
D02R-01-BAC - Pettit Branch							
Recreation	Escherichia coli (E. coli)	4A			1.89	1998	L
D02R-01-BEN - Pettit Branch							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			1.89	1996	L
D03E-01-DO - Gargathy Creek - Upper & Lower							
Aquatic Life	Dissolved Oxygen	4A	0.13			2024	L
D03E-02-BAC - Finney Creek - Upper							
Recreation	Fecal Coliform	4A	0.002			2004	L
D03E-05-BAC - Parker Creek - Middle & Lower							
Recreation	Enterococcus	4A	0.047			2006	L
D03E-09-BAC - Folly Creek - Upper & Middle							
Recreation	Enterococcus	4A	0.376			2024	L
D03R-01-BAC - Parker Creek							
Recreation	Escherichia coli (E. coli)	4A			2.03	1994	L
D03R-01-BEN - Parker Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			2.03	1994	L
D03R-02-BAC - Gargathy Creek							
Recreation	Escherichia coli (E. coli)	4A			2.84	2004	L
D04E-05-BAC - Machipongo River							
Recreation	Enterococcus	4A	0.314			2008	L

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Cause Group - Water Name Impaired Use Cause		Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
D05E-01-BAC - Oyster Slip (Harbor) - Upper							
Recreation	Enterococcus	4A	0.034			2006	L
D05E-02-SF - Oyster Slip (Harbor) - Upper							
Shellfishing	Fecal Coliform	4A	0.034			2020	L
D06R-01-DO - Mill Creek							
Aquatic Life	Dissolved Oxygen	4A			2.24	1998	L
D07E-02-SF - Lake Wesley - Upstream Branches							
Shellfishing	Fecal Coliform	4A	0.099			2006	L
D07E-04-BAC - Owl Creek - Upper							
Recreation	Enterococcus	4A	0.006			2002	L
D07E-04-SF - Owl Creek - Upper & Lower							
Shellfishing	Fecal Coliform	4A	0.026			2006	L
D07E-10-SF - Lake Wesley - Upstream Branches							
Shellfishing	Fecal Coliform	4A	0.06			2006	L
LYNPH-SAV-BAY - Lynnhaven River and Broad Bay System CBP segment LYNPH and Tributaries							
Aquatic Life	Aquatic Plants (Macrophytes)	4A	5.181			2006	L
Aquatic Life	Aquatic Plants (Macrophytes)	4A	0.434			2008	L
Aquatic Life	Aquatic Plants (Macrophytes)	4A	1.95			2010	L
Aquatic Life	Aquatic Plants (Macrophytes)	4A	0.41			2014	L
Shallow-Water	Aquatic Plants (Macrophytes)	4A	5.181			2006	L
Submerged Aquatic Vegetation							
Shallow-Water	Aquatic Plants (Macrophytes)	4A	0.434			2008	L
Submerged Aquatic Vegetation							
Shallow-Water	Aquatic Plants (Macrophytes)	4A	1.95			2010	L
Submerged Aquatic Vegetation							
Shallow-Water	Aquatic Plants (Macrophytes)	4A	0.41			2014	L
Submerged Aquatic Vegetation							
MOBPH-SAV-BAY - Chesapeake Bay segment MOBPH (Mobjack Bay)							
Aquatic Life	Aquatic Plants (Macrophytes)	4A	132.743			2006	L
Aquatic Life	Aquatic Plants (Macrophytes)	4A	0.025			2010	L
Aquatic Life	Aquatic Plants (Macrophytes)	4A	0.003			2012	L
Shallow-Water	Aquatic Plants (Macrophytes)	4A	132.743			2006	L
Submerged Aquatic Vegetation							
Shallow-Water	Aquatic Plants (Macrophytes)	4A	0.025			2010	L
Submerged Aquatic Vegetation							
Shallow-Water	Aquatic Plants (Macrophytes)	4A	0.003			2012	L
Submerged Aquatic Vegetation							
PIAMH-SAV-BAY - Piankatank Mesohaline Estuary							
Aquatic Life	Aquatic Plants (Macrophytes)	4A	20.178			2006	L
Shallow-Water	Aquatic Plants (Macrophytes)	4A	20.178			2006	L
Submerged Aquatic Vegetation							
POCMH-SAV-BAY - Chesapeake Bay segment POCMH (Pocomoke Sound)							
Aquatic Life	Aquatic Plants (Macrophytes)	4A	54.528			2006	L
Shallow-Water	Aquatic Plants (Macrophytes)	4A	54.528			2006	L
Submerged Aquatic Vegetation							
TANMH-DO-BAY - Chesapeake Bay segment TANMH (Tangier Sound)							
Aquatic Life	Dissolved Oxygen	4A	122.754			2006	L
Open-Water Aquatic Life	Dissolved Oxygen	4A	122.754			2006	L
TANMH-SAV-BAY - Chesapeake Bay segment TANMH (Tangier Sound)							
Aquatic Life	Aquatic Plants (Macrophytes)	4A	122.754			2006	L
Shallow-Water	Aquatic Plants (Macrophytes)	4A	122.754			2006	L
Submerged Aquatic Vegetation							

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York River Basin

Cause Group - Water Name							
Impaired Use	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
F01R-01-BAC - South Anna River							
Recreation	Escherichia coli (E. coli)	4A			7.1	2002	L
Recreation	Escherichia coli (E. coli)	4A			3.98	2006	L
F01R-02-BAC - Wheeler Creek							
Recreation	Escherichia coli (E. coli)	4A			0.24	2010	L
Recreation	Escherichia coli (E. coli)	4A			6.01	2012	L
F01R-03-BAC - Hudson Creek							
Recreation	Escherichia coli (E. coli)	4A			3.62	2012	L
F01R-04-BAC - Camp Creek							
Recreation	Escherichia coli (E. coli)	4A			2.02	2012	L
F02R-01-BAC - South Anna River							
Recreation	Escherichia coli (E. coli)	4A			5.99	2004	L
Recreation	Escherichia coli (E. coli)	4A			8.19	2018	L
F02R-02-BAC - Unnamed tributary to South Anna River							
Recreation	Escherichia coli (E. coli)	4A			1.34	2008	L
F02R-03-BAC - Fosters Creek							
Recreation	Escherichia coli (E. coli)	4A			4.92	2014	L
F02R-04-BAC - Roundabout Creek							
Recreation	Escherichia coli (E. coli)	4A			3.84	2014	L
F02R-05-BAC - Harris Creek							
Recreation	Escherichia coli (E. coli)	4A			6.97	2016	L
F02R-06-BAC - Rock Creek							
Recreation	Escherichia coli (E. coli)	4A			2.73	2016	L
F03R-02-BAC - Taylors Creek							
Recreation	Escherichia coli (E. coli)	4A			16.54	2008	L
F03R-04-BAC - Fork Creek							
Recreation	Escherichia coli (E. coli)	4A			1.8	2008	L
Recreation	Escherichia coli (E. coli)	4A			5.84	2016	L
F03R-07-BAC - South Anna River							
Recreation	Escherichia coli (E. coli)	4A			1.77	2006	L
F03R-08-BAC - Deep Creek							
Recreation	Escherichia coli (E. coli)	4A			5.79	2012	L
F03R-09-BAC - South Anna River							
Recreation	Escherichia coli (E. coli)	4A			4.63	2012	L
F04R-01-BAC - South Anna River							
Recreation	Escherichia coli (E. coli)	4A			8.91	2008	L
Recreation	Escherichia coli (E. coli)	4A			8.37	2014	L
F04R-02-BAC - South Anna River							
Recreation	Escherichia coli (E. coli)	4A			4.77	2012	L
F04R-03-BAC - Staggy Creek							
Recreation	Escherichia coli (E. coli)	4A			6.56	2006	L
F05R-01-BAC - Newfound River							
Recreation	Escherichia coli (E. coli)	4A			10.96	2008	L
F06R-01-BAC - Mountain Run							
Recreation	Escherichia coli (E. coli)	4A			2.65	1998	L
F06R-02-BAC - Beaver Creek							
Recreation	Escherichia coli (E. coli)	4A			2.84	1998	L
F06R-03-BAC - Gold Mine Creek							
Recreation	Escherichia coli (E. coli)	4A			7.53	2002	L
F06R-07-BAC - White Creek							
Recreation	Escherichia coli (E. coli)	4A			6.06	2014	L
F07R-01-BAC - Pamunkey Creek							
Recreation	Escherichia coli (E. coli)	4A			12.71	1998	L
F07R-02-BAC - Terrys Run							
Recreation	Escherichia coli (E. coli)	4A			1.99	1998	L
Recreation	Escherichia coli (E. coli)	4A			3.67	2006	L
F07R-03-BAC - Plentiful Creek							
Recreation	Escherichia coli (E. coli)	4A			3.3	1998	L
F07R-04-BAC - Tomahawk Creek							

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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
Recreation	Escherichia coli (E. coli)	4A			3.84	2014	L
F07R-05-BAC - Berry Run							
Recreation	Escherichia coli (E. coli)	4A			2.34	2006	L
Recreation	Escherichia coli (E. coli)	4A			2.96	2014	L
F07R-06-BAC - Terrys Run							
Recreation	Escherichia coli (E. coli)	4A			4.37	2010	L
F07R-07-BAC - Clear Creek							
Recreation	Escherichia coli (E. coli)	4A			2.44	2014	L
F07R-08-BAC - Riga Run							
Recreation	Escherichia coli (E. coli)	4A			7.36	2014	L
F07R-09-BAC - Rocky Run							
Recreation	Escherichia coli (E. coli)	4A			2.41	2014	L
F07R-10-BAC - Church Run							
Recreation	Escherichia coli (E. coli)	4A			0.72	2014	L
F07R-11-BAC - Little Creek							
Recreation	Escherichia coli (E. coli)	4A			2.15	2014	L
F07R-12-BAC - Poor House Run							
Recreation	Escherichia coli (E. coli)	4A			3.51	2014	L
F09R-01-BAC - Northeast Creek							
Recreation	Escherichia coli (E. coli)	4A			6.37	2006	L
Recreation	Escherichia coli (E. coli)	4A			1.09	2008	L
Recreation	Escherichia coli (E. coli)	4A			3.52	2012	L
F09R-02-BAC - Music Branch							
Recreation	Escherichia coli (E. coli)	4A			3.57	2008	L
F09R-04-BAC - Mill Creek							
Recreation	Escherichia coli (E. coli)	4A			4.37	2012	L
F09R-06-BAC - North Anna River							
Recreation	Escherichia coli (E. coli)	4A			4.75	2016	L
F09R-07-BAC - Unnamed tributary to Northeast Creek							
Recreation	Escherichia coli (E. coli)	4A			3	2016	L
F10R-01-BAC - Little River							
Recreation	Escherichia coli (E. coli)	4A			4.17	2006	L
F10R-02-BAC - Little River							
Recreation	Escherichia coli (E. coli)	4A			1.29	2014	L
F10R-03-BAC - Long Creek							
Recreation	Escherichia coli (E. coli)	4A			5.16	2014	L
F11R-01-BAC - Little River							
Recreation	Escherichia coli (E. coli)	4A			10.52	2008	L
F11R-02-BAC - Beaverdam Creek							
Recreation	Escherichia coli (E. coli)	4A			8.48	2012	L
F11R-03-BAC - Little River							
Recreation	Escherichia coli (E. coli)	4A			3.74	2014	L
F11R-04-BAC - Locust Creek							
Recreation	Escherichia coli (E. coli)	4A			6.6	2020	L
F12R-02-BAC - Mechumps Creek							
Recreation	Escherichia coli (E. coli)	4A			5.78	2006	L
F12R-05-BAC - Mechumps Creek							
Recreation	Escherichia coli (E. coli)	4A			1.06	2010	L
F12R-07-BAC - Crump Creek							
Recreation	Escherichia coli (E. coli)	4A			10	2008	L
F12R-08-BAC - Pamunkey River							
Recreation	Escherichia coli (E. coli)	4A			12.28	2016	L
F12R-09-BAC - XEG - Mechumps Creek, UT							
Recreation	Escherichia coli (E. coli)	4A			0.48	2010	L
F12R-11-BAC - Kersey Creek							
Recreation	Escherichia coli (E. coli)	4A			3.33	2012	L
F12R-12-BAC - XJC - Crump Creek, UT							
Recreation	Escherichia coli (E. coli)	4A			1.96	2012	L
F12R-13-BAC - Pollard Creek							
Recreation	Escherichia coli (E. coli)	4A			4.21	2012	L

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Cause Group - Water Name Impaired Use Cause		Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
F12R-14-BAC - Pamunkey River							
Recreation	Escherichia coli (E. coli)	4A			9.17	2020	L
Recreation	Escherichia coli (E. coli)	4A			11.56	2022	L
F13E-01-BAC - Pamunkey River							
Recreation	Escherichia coli (E. coli)	4A	0.306			2008	L
F13E-02-BAC - Pamunkey River							
Recreation	Escherichia coli (E. coli)	4A	0.898			2008	L
F13R-01-BAC - Matadequin Creek							
Recreation	Escherichia coli (E. coli)	4A			4.92	2006	L
F13R-02-BAC - Totopotomoy Creek							
Recreation	Escherichia coli (E. coli)	4A			10.27	2006	L
F13R-03-BAC - Jacks Creek and major tributaries							
Recreation	Escherichia coli (E. coli)	4A			21.2	2008	L
F13R-04-BAC - Moncuin Creek, Webb Creek							
Recreation	Escherichia coli (E. coli)	4A			12.12	2006	L
F13R-08-BAC - Black Creek							
Recreation	Escherichia coli (E. coli)	4A			1.96	2018	L
F13R-09-BAC - XDX - UT to XDW (Pamunkey River, UT)							
Recreation	Escherichia coli (E. coli)	4A			3.85	2012	L
F13R-11-BAC - XDW - Pamunkey River, UT							
Recreation	Escherichia coli (E. coli)	4A			5.51	2012	L
F13R-15-BAC - XIW - Jacks Creek, UT							
Recreation	Escherichia coli (E. coli)	4A			2.28	2014	L
F14E-03-BAC - Pamunkey River							
Recreation	Enterococcus	4A	4.364			2006	L
F14E-06-BAC - Harrison Creek							
Recreation	Escherichia coli (E. coli)	4A	0.044			2012	L
F14E-08-BAC - Pamunkey River							
Recreation	Escherichia coli (E. coli)	4A	3.638			2022	L
F14R-02-BAC - Harrison Creek							
Recreation	Escherichia coli (E. coli)	4A			2.8	2008	L
F14R-04-BAC - XJD - Harrison Creek, UT							
Recreation	Escherichia coli (E. coli)	4A			0.16	2012	L
F15R-01-BAC - Ni River							
Recreation	Escherichia coli (E. coli)	4A			5.69	2020	L
F15R-02-BAC - Brock Run							
Recreation	Escherichia coli (E. coli)	4A			2.57	2008	L
F16R-01-BAC - Po River							
Recreation	Escherichia coli (E. coli)	4A			7.22	2010	L
Recreation	Escherichia coli (E. coli)	4A			12.89	2018	L
F16R-02-BAC - Gladly Run							
Recreation	Escherichia coli (E. coli)	4A			9.31	2010	L
F17R-02-BAC - Mattaponi River							
Recreation	Escherichia coli (E. coli)	4A			8.24	2006	L
Recreation	Escherichia coli (E. coli)	4A			3.21	2008	L
Recreation	Escherichia coli (E. coli)	4A			10.25	2020	L
F17R-03-BAC - Poni River							
Recreation	Escherichia coli (E. coli)	4A			3.21	2010	L
F17R-04-BAC - Unnamed Tributary to Poni River							
Recreation	Escherichia coli (E. coli)	4A			0.67	2018	L
F18R-02-BAC - Matta River							
Recreation	Escherichia coli (E. coli)	4A			11.89	2006	L
Recreation	Escherichia coli (E. coli)	4A			1.24	2020	L
F18R-03-BAC - Mat River							
Recreation	Escherichia coli (E. coli)	4A			2.3	2014	L
Recreation	Escherichia coli (E. coli)	4A			5.2	2018	L
F18R-04-BAC - Ta River							
Recreation	Escherichia coli (E. coli)	4A			3.76	2018	L
F19R-01-BAC - South River							
Recreation	Escherichia coli (E. coli)	4A			9.1	2020	L

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Appendix 1c - 2024 Impaired Waters (Category 4A/4D) TMDL Approved and (Category 4B) Other Control Measures Present

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
F19R-02-BAC - Motto River							
Recreation	Escherichia coli (E. coli)	4A			1.81	2014	L
F19R-03-BAC - Hobby Swamp							
Recreation	Escherichia coli (E. coli)	4A			1.28	2020	L
F20R-02-BAC - Polecat Creek							
Recreation	Escherichia coli (E. coli)	4A			5.31	2012	L
F21R-03-BAC - Reedy Creek							
Recreation	Escherichia coli (E. coli)	4A			12.7	2010	L
F21R-04-BAC - Chapel Creek							
Recreation	Escherichia coli (E. coli)	4A			4.65	2014	L
F21R-05-BAC - Herring Creek							
Recreation	Escherichia coli (E. coli)	4A			5.09	2016	L
Recreation	Escherichia coli (E. coli)	4A			2.14	2018	L
F21R-08-BAC - Dorrell Creek							
Recreation	Escherichia coli (E. coli)	4A			4.97	2018	L
F21R-09-BAC - Gravel Run							
Recreation	Escherichia coli (E. coli)	4A			3.55	2018	L
F22R-01-BAC - Maracossic Creek							
Recreation	Escherichia coli (E. coli)	4A			4.22	2006	L
Recreation	Escherichia coli (E. coli)	4A			6.77	2018	L
Recreation	Escherichia coli (E. coli)	4A			5.14	2020	L
F22R-02-BAC - Doctors Creek							
Recreation	Escherichia coli (E. coli)	4A			2.33	2014	L
F22R-03-BAC - Root Swamp							
Recreation	Escherichia coli (E. coli)	4A			7.84	2014	L
F22R-04-BAC - Beverly Run							
Recreation	Escherichia coli (E. coli)	4A			3.07	2016	L
F23E-02-BAC - Mattaponi River							
Recreation	Escherichia coli (E. coli)	4A	1.756			2016	L
F23E-03-BAC - Mattaponi River							
Recreation	Escherichia coli (E. coli)	4A	0.159			2020	L
F23R-01-BAC - Garnetts Creek							
Recreation	Escherichia coli (E. coli)	4A			2.84	2010	L
F23R-04-BAC - Aylett Creek							
Recreation	Escherichia coli (E. coli)	4A			6.84	2012	L
F23R-08-BAC - Dickeys Swamp							
Recreation	Escherichia coli (E. coli)	4A			4.34	2014	L
F23R-09-BAC - Market Swamp							
Recreation	Escherichia coli (E. coli)	4A			2.01	2014	L
F23R-10-BAC - XJG - Dickeys Swamp, UT							
Recreation	Escherichia coli (E. coli)	4A			1.99	2014	L
F23R-11-BAC - Dogwood Fork							
Recreation	Escherichia coli (E. coli)	4A			2.92	2014	L
F23R-12-BAC - XDN - Garnetts Creek, UT							
Recreation	Escherichia coli (E. coli)	4A			2.53	2016	L
F23R-13-BAC - Dickeys Swamp							
Recreation	Escherichia coli (E. coli)	4A			3.99	2020	L
F23R-14-BAC - Dickeys Swamp							
Recreation	Escherichia coli (E. coli)	4A			0.08	2020	L
F23R-15-BAC - Mattaponi River							
Recreation	Escherichia coli (E. coli)	4A			4.72	2022	L
F24E-02-BAC - Mattaponi River							
Recreation	Escherichia coli (E. coli)	4A	1.384			2018	L
F24R-01-BAC - Heartquake Creek							
Recreation	Escherichia coli (E. coli)	4A			2.27	2012	L
F24R-03-BAC - Courthouse Creek							
Recreation	Escherichia coli (E. coli)	4A			0.72	2016	L
F25E-01-BAC - Mattaponi River							
Recreation	Enterococcus	4A	2.525			2006	L

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Appendix 1c - 2024 Impaired Waters (Category 4A/4D) TMDL Approved and (Category 4B) Other Control Measures Present

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
F25R-01-BAC - Tastine Swamp and Little Tastine Swamp							
Recreation	Escherichia coli (E. coli)	4A			6.26	2010	L
F25R-03-BAC - XIN - Tastine Swamp, UT							
Recreation	Escherichia coli (E. coli)	4A			2.4	2010	L
F26E-03-BAC - Queens Creek							
Recreation	Enterococcus	4A	0.432			2002	L
F26E-12-SF - Adams Creek-Upper							
Shellfishing	Fecal Coliform	4A	0.116			1998	L
F26E-14-SF - Poropotank River							
Shellfishing	Fecal Coliform	4A	0.583			1998	L
F26E-15-SF - Aberdeen Creek - Upper							
Shellfishing	Fecal Coliform	4A	0.094			1998	L
F26E-16-SF - Queens Creek							
Shellfishing	Fecal Coliform	4A	0.296			1998	L
F26E-17-SF - Skimino Creek							
Shellfishing	Fecal Coliform	4A	0.174			1998	L
F26E-18-SF - Taskinas Creek							
Shellfishing	Fecal Coliform	4A	0.026			1998	L
F26E-19-SF - Ware Creek							
Shellfishing	Fecal Coliform	4A	0.133			1998	L
F26E-20-SF - Baker Creek, Philbates Creek, York River at Hockley & Unsegmented SF Condemned in F26E							
Shellfishing	Fecal Coliform	4A	0.042			2002	L
Shellfishing	Fecal Coliform	4A	2.175			2006	L
Shellfishing	Fecal Coliform	4A	0.017			2008	L
Shellfishing	Fecal Coliform	4A	0.042			2010	L
Shellfishing	Fecal Coliform	4A	3.962			2024	L
F26E-22-SF - Hockley Creek							
Shellfishing	Fecal Coliform	4A	0.054			2002	L
F26E-29-SF - York River							
Shellfishing	Fecal Coliform	4A	0.457			2014	L
F26R-05-BAC - France Swamp							
Recreation	Escherichia coli (E. coli)	4A			4.53	2018	L
F27E-05-BAC - King Creek							
Recreation	Enterococcus	4A	0.42			1998	L
Shellfishing	Fecal Coliform	4A	0.072			2000	L
F27E-13-SF - King Creek - Upper							
Shellfishing	Fecal Coliform	4A	0.128			1998	L
F27E-15-SF - Northwest & Northeast Branch Sarah Creek							
Shellfishing	Fecal Coliform	4A	0.029			1998	L
Shellfishing	Fecal Coliform	4A	0.02			2016	L
Shellfishing	Fecal Coliform	4A	0.056			2024	L
F27E-16-SF - Timberneck Creek - Upper [TMDL-bact]							
Shellfishing	Fecal Coliform	4A	0.127			1998	L
F27E-17-SF - Cedarbush Creek - Upper [TMDL-bact]							
Shellfishing	Fecal Coliform	4A	0.078			1998	L
Shellfishing	Fecal Coliform	4A	0.029			2006	L
F27E-18-SF - Carter Cr. (Gloucester Co.) - Upper portion [TMDL-bact]							
Shellfishing	Fecal Coliform	4A	0.104			1998	L
Shellfishing	Fecal Coliform	4A	0.253			2024	L
F27E-20-SF - Water Name Cedarbush Creek - Mouth							
Shellfishing	Fecal Coliform	4A	0.015			2010	L
F27E-28-SF - Jones Creek							
Shellfishing	Fecal Coliform	4A	0.051			2002	L
F27E-29-SF - Perrin River - Upper							
Shellfishing	Fecal Coliform	4A	0.052			2002	L
Shellfishing	Fecal Coliform	4A	0.015			2020	L
MPNOH-DO-BAY - Mattaponi River							
Aquatic Life	Dissolved Oxygen	4A	3.081			2006	L
Migratory Fish Spawning and Nursery	Dissolved Oxygen	4A	3.081			2006	L
Open-Water Aquatic Life	Dissolved Oxygen	4A	3.081			2006	L

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Appendix 1c - 2024 Impaired Waters (Category 4A/4D) TMDL Approved and (Category 4B) Other Control Measures Present

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
MPNTF-DO-BAY - Mattaponi River							
Aquatic Life	Dissolved Oxygen	4D	3.3			1998	L
Migratory Fish Spawning and Nursery	Dissolved Oxygen	4D	3.3			1998	L
Open-Water Aquatic Life	Dissolved Oxygen	4D	3.3			1998	L
PMKOH-DO-BAY - Pamunkey River Oligohaline Estuary							
Aquatic Life	Dissolved Oxygen	4D	5.272			1998	L
Migratory Fish Spawning and Nursery	Dissolved Oxygen	4D	5.272			1998	L
Open-Water Aquatic Life	Dissolved Oxygen	4D	5.272			1998	L
PMKTF-DO-BAY - Pamunkey River Tidal Freshwater Estuary							
Aquatic Life	Dissolved Oxygen	4A	4.843			1998	L
Aquatic Life	Dissolved Oxygen	4A	1.061			2020	L
Migratory Fish Spawning and Nursery	Dissolved Oxygen	4A	4.843			1998	L
Migratory Fish Spawning and Nursery	Dissolved Oxygen	4A	1.061			2020	L
Open-Water Aquatic Life	Dissolved Oxygen	4A	4.843			1998	L
Open-Water Aquatic Life	Dissolved Oxygen	4A	1.061			2020	L
YRKMH-DO-BAY - York Mesohaline							
Aquatic Life	Dissolved Oxygen	4A	0.83			1998	L
Aquatic Life	Dissolved Oxygen	4A	34.062			2006	L
Migratory Fish Spawning and Nursery	Dissolved Oxygen	4A	0.398			1998	L
Migratory Fish Spawning and Nursery	Dissolved Oxygen	4A	0.958			2006	L
Open-Water Aquatic Life	Dissolved Oxygen	4A	0.83			1998	L
Open-Water Aquatic Life	Dissolved Oxygen	4A	34.062			2006	L
YRKMH-SAV-BAY - York Mesohaline							
Aquatic Life	Aquatic Plants (Macrophytes)	4A	34.892			2006	L
Shallow-Water	Aquatic Plants (Macrophytes)	4A	34.892			2006	L
Submerged Aquatic Vegetation							
YRKPH-DO-BAY - Chesapeake Bay segment YRKPH							
Aquatic Life	Dissolved Oxygen	4A	11.796			2004	L
Aquatic Life	Dissolved Oxygen	4A	16.242			2006	L
Aquatic Life	Dissolved Oxygen	4A	0.531			2008	L
Aquatic Life	Dissolved Oxygen	4A	0.304			2010	L
Deep-Water Aquatic Life	Dissolved Oxygen	4A	11.796			2004	L
Deep-Water Aquatic Life	Dissolved Oxygen	4A	15.585			2006	L
Deep-Water Aquatic Life	Dissolved Oxygen	4A	0.531			2008	L
Open-Water Aquatic Life	Dissolved Oxygen	4A	11.796			2004	L
Open-Water Aquatic Life	Dissolved Oxygen	4A	16.242			2006	L
Open-Water Aquatic Life	Dissolved Oxygen	4A	0.531			2008	L
Open-Water Aquatic Life	Dissolved Oxygen	4A	0.304			2010	L
YRKPH-SAV-BAY - Chesapeake Bay segment YRKPH							
Aquatic Life	Aquatic Plants (Macrophytes)	4A	28.874			2006	L
Shallow-Water	Aquatic Plants (Macrophytes)	4A	28.874			2006	L
Submerged Aquatic Vegetation							

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Appendix 1c - 2024 Impaired Waters (Category 4A/4D) TMDL Approved and (Category 4B) Other Control Measures Present

New River Basin

Cause Group - Water Name		Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Impaired Use	Cause						
N05R-01-BAC - Elk Creek & Tributaries							
Recreation	Escherichia coli (E. coli)	4A			24.9	2006	L
Recreation	Escherichia coli (E. coli)	4A			3.06	2016	L
Recreation	Escherichia coli (E. coli)	4A			6	2018	L
N06R-01-BAC - Chestnut Creek and Tributaries							
Recreation	Escherichia coli (E. coli)	4A			3.21	2004	L
Recreation	Escherichia coli (E. coli)	4A			8.69	2014	L
Recreation	Escherichia coli (E. coli)	4A			5.69	2016	L
Recreation	Escherichia coli (E. coli)	4A			10.73	2022	L
N06R-01-BEN - Chestnut Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			8.69	2002	L
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			5.69	2004	L
N09R-01-BAC - Cripple Creek and Crigger Creek							
Recreation	Escherichia coli (E. coli)	4A			16.11	2010	L
Recreation	Escherichia coli (E. coli)	4A			15.89	2018	L
N09R-03-BAC - Slate Spring Branch and Dean Branch							
Recreation	Escherichia coli (E. coli)	4A			8.06	2010	L
N10R-02-BAC - South Fork Reed Creek and Mill Creek							
Recreation	Escherichia coli (E. coli)	4A			13.17	2006	L
Recreation	Escherichia coli (E. coli)	4A			14.83	2012	L
N10R-03-BAC - Stony Fork							
Recreation	Escherichia coli (E. coli)	4A			1.9	2006	L
Recreation	Escherichia coli (E. coli)	4A			4.74	2012	L
N10R-04-BAC - Tate Run							
Recreation	Escherichia coli (E. coli)	4A			0.56	2006	L
N11R-01-BAC - Reed Creek and Pine Run							
Recreation	Escherichia coli (E. coli)	4A			9.88	2004	L
Recreation	Escherichia coli (E. coli)	4A			20.95	2006	L
Recreation	Escherichia coli (E. coli)	4A			1.44	2008	L
Recreation	Escherichia coli (E. coli)	4A			6.21	2010	L
Recreation	Escherichia coli (E. coli)	4A			10.98	2012	L
N11R-02-BAC - Miller Creek							
Recreation	Escherichia coli (E. coli)	4A			0.43	2006	L
Recreation	Escherichia coli (E. coli)	4A			3.64	2012	L
N11R-03-BAC - McGavock Creek							
Recreation	Escherichia coli (E. coli)	4A			2.58	2012	L
N12R-01-BAC - Cove Creek and St. Lukes Fork							
Recreation	Escherichia coli (E. coli)	4A			9.93	2006	L
Recreation	Escherichia coli (E. coli)	4A			1.78	2016	L
N17R-01-BAC - Peak Creek and Tract Fork							
Recreation	Escherichia coli (E. coli)	4A			6.51	2006	L
Recreation	Escherichia coli (E. coli)	4A			1.25	2012	L
N17R-01-BEN - Peak Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			3.49	1996	L
N17R-01-CU - Peak Creek							
Aquatic Life	Copper	4A			3.49	2006	L
N17R-01-ZN - Peak Creek							
Aquatic Life	Zinc	4A			3.49	2006	L
N18R-01-BAC - Crab Creek							
Recreation	Escherichia coli (E. coli)	4A			10.53	2004	L
N18R-01-BEN - Crab Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			10.53	1996	L
N19R-01-BAC - Little River (Upper)							
Recreation	Escherichia coli (E. coli)	4A			34.69	2006	L
N19R-01-TEMP - Little River							
Aquatic Life	Temperature	4A			7.6	2002	L
Aquatic Life	Temperature	4A			27.09	2008	L
N19R-02-BAC - Meadow Run							
Recreation	Escherichia coli (E. coli)	4A			4.01	2006	L
N19R-02-BEN - Meadow Run							

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Appendix 1c - 2024 Impaired Waters (Category 4A/4D) TMDL Approved and (Category 4B) Other Control Measures Present

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	4A			4.01	2008	L
N19R-03-BAC - Pine Creek								
	Recreation	Escherichia coli (E. coli)	4A			3.92	2006	L
N19R-03-TEMP - Pine Creek								
	Aquatic Life	Temperature	4A			3.92	2008	L
N20R-01-BAC - Dodd Creek and West Fork Dodd Creek								
	Recreation	Escherichia coli (E. coli)	4A			6.45	2008	L
	Recreation	Escherichia coli (E. coli)	4A			1.31	2010	L
	Recreation	Fecal Coliform	4A			8.19	1998	L
	Recreation	Fecal Coliform	4A			0.53	2002	L
N20R-01-TEMP - West Fork Dodd Creek								
	Aquatic Life	Temperature	4A			1.31	2002	L
N20R-02-TEMP - Dodd Creek								
	Aquatic Life	Temperature	4A			6.45	2008	L
	Aquatic Life	Temperature	4A			2.46	2010	L
N20R-03-TEMP - West Fork Little River								
	Aquatic Life	Temperature	4A			4.53	2018	L
N21R-01-BAC - Little River (Lower)								
	Recreation	Escherichia coli (E. coli)	4A		60.45	3.71	2006	L
	Recreation	Escherichia coli (E. coli)	4A				2008	L
	Recreation	Escherichia coli (E. coli)	4A			0.49	2010	L
	Recreation	Escherichia coli (E. coli)	4A			18.26	2012	L
	Recreation	Escherichia coli (E. coli)	4A			8.37	2014	L
	Recreation	Fecal Coliform	4A			13.43	2004	L
N21R-02-BAC - Meadow Creek								
	Recreation	Escherichia coli (E. coli)	4A			4.65	2010	L
N21R-03-BAC - Mill Creek, Poplar Branch, Mill Creek UTs (XDE & XDF)								
	Recreation	Escherichia coli (E. coli)	4A			7.6	2010	L
	Recreation	Fecal Coliform	4A			8.33	2002	L
N21R-05-BAC - Brush Creek								
	Recreation	Escherichia coli (E. coli)	4A			5.95	2012	L
N21R-06-BAC - Laurel Creek								
	Recreation	Escherichia coli (E. coli)	4A			3.45	2012	L
N21R-07-BAC - Big Indian Creek								
	Recreation	Escherichia coli (E. coli)	4A			7.84	2010	L
N21R-07-TEMP - Big Indian Creek								
	Aquatic Life	Temperature	4A			7.84	2004	L
N21R-08-BAC - Beaver Creek								
	Recreation	Escherichia coli (E. coli)	4A			7.11	2020	L
N21R-08-BEN - Beaver Creek								
	Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			7.11	2020	L
N21R-08-TEMP - Beaver Creek								
	Aquatic Life	Temperature	4A			7.11	2020	L
N22R-02-BEN - Stroubles Creek								
	Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			5.09	1996	L
N22R-03-BAC - Back Creek								
	Recreation	Escherichia coli (E. coli)	4A			17.53	2006	L
N22R-03-BEN - Back Creek								
	Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			17.53	2002	L
N25R-01-BAC - Walker Creek and Town Creek								
	Recreation	Escherichia coli (E. coli)	4A			33.55	2006	L
	Recreation	Escherichia coli (E. coli)	4A			4.4	2010	L
	Recreation	Escherichia coli (E. coli)	4A			6.49	2022	L
N26R-01-BAC - East Wilderness Creek, Kimberling Creek, and Nobusiness Creek								
	Recreation	Escherichia coli (E. coli)	4A			10.24	2010	L
	Recreation	Escherichia coli (E. coli)	4A			2.54	2024	L
N29R-01-PCB - New River, Reed Creek, Claytor Lake, Peak Creek, Stony Creek, Walker Creek, And Unknown Tributary XAG.								
	Fish Consumption	PCBs in Fish Tissue	4A		295.04	56	2002	L
	Fish Consumption	PCBs in Fish Tissue	4A		4009.57	41.46	2006	L
	Fish Consumption	PCBs in Fish Tissue	4A			8.39	2010	L
	Fish Consumption	PCBs in Fish Tissue	4A			5.85	2016	L

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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
Fish Consumption	Polychlorinated biphenyls (PCBs)	4A			8.4	2014	L
Fish Consumption	Polychlorinated biphenyls (PCBs)	4A			6.69	2016	L
Wildlife	Polychlorinated biphenyls (PCBs)	4A			8.4	2014	L
Wildlife	Polychlorinated biphenyls (PCBs)	4A			6.69	2016	L
N30R-01-BAC - Wolf Creek and Tributaries							
Recreation	Escherichia coli (E. coli)	4A			27.3	2006	L
Recreation	Escherichia coli (E. coli)	4A			1.89	2010	L
Recreation	Escherichia coli (E. coli)	4A			1.89	2014	L
N31R-01-BAC - Hunting Camp Creek							
Recreation	Escherichia coli (E. coli)	4A			8.94	2006	L
N31R-01-BEN - Hunting Camp Creek							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			8.94	2022	L
N32R-01-BAC - Wolf Creek							
Recreation	Escherichia coli (E. coli)	4A			22.33	2006	L
N36R-01-BAC - Bluestone River and Big Branch							
Recreation	Escherichia coli (E. coli)	4A			6.24	2004	L
Recreation	Escherichia coli (E. coli)	4A			7.4	2006	L
Recreation	Escherichia coli (E. coli)	4A			3.33	2010	L
Recreation	Escherichia coli (E. coli)	4A			2.98	2018	L
N36R-01-BEN - Bluestone River							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			6.86	2002	L
N37R-01-BAC - Laurel Fork							
Recreation	Escherichia coli (E. coli)	4A			4.7	2006	L
N37R-01-BEN - Laurel Fork							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			4.7	1996	L
N37R-02-BEN - Laurel Fork							
Aquatic Life	Benthic Macroinvertebrates Bioassessments	4A			8.3	2014	L

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

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

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