



2016 Impaired Waters - 303(d) List

Category 5 - Waters needing Total Maximum Daily Load Study

Potomac and Shenandoah River Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
A02R-02-BEN Aquatic Life	North Fork Catoctin Creek Benthic-Macroinvertebrate Bioassessments	5A			4.42	2008	H, 2yr
A02R-04-BEN Aquatic Life	North Fork Catoctin Creek Benthic-Macroinvertebrate Bioassessments	5A			2.54	2014	L
A03R-02-BAC Recreation	Clarks Run Escherichia coli	5A			5.46	2008	L
A05R-01-BEN Aquatic Life	Wancopin Creek Benthic-Macroinvertebrate Bioassessments	5A			3.44	2008	L
A05R-02-BEN Aquatic Life	Jeffries Branch Benthic-Macroinvertebrate Bioassessments	5A			6.19	2012	L
A06R-01-BEN Aquatic Life	North Fork Goose Creek Benthic-Macroinvertebrate Bioassessments	5A			4.69	2010	L
A07R-02-BEN Aquatic Life	North Fork Beaverdam Creek Benthic-Macroinvertebrate Bioassessments	5A			4.81	2008	L
A08R-01-PCB Fish Consumption	Broad Run, Difficult Run, Goose Creek PCB in Fish Tissue	5A		39.63	15.34	2006	L
A08R-04-BEN Aquatic Life	Tuscarora Creek Benthic-Macroinvertebrate Bioassessments	5A			3.89	2014	L
A08R-05-BEN Aquatic Life	Dry Mill Branch Benthic-Macroinvertebrate Bioassessments	5A			2.97	2016	L
A09R-01-BAC Recreation	Unnamed tributary to the Potomac River Escherichia coli	5A			1.74	2010	M
A09R-01-BEN Aquatic Life	Broad Run Benthic-Macroinvertebrate Bioassessments Benthic-Macroinvertebrate Bioassessments	5A 5A			2.93 5.49	2006 2008	M M
A09R-01-HG Fish Consumption	Broad Run Mercury in Fish Tissue	5A			2.93	2010	L
A09R-02-BAC Recreation	Broad Run Escherichia coli Escherichia coli	5A 5A			3.22 2.93	2010 2014	M M
A09R-02-BEN Aquatic Life	Broad Run Benthic-Macroinvertebrate Bioassessments	5A			1.42	2008	M
A09R-03-BAC Recreation	Broad Run Escherichia coli	5A			1.42	2012	M
A09R-03-BEN Aquatic Life	Horsepen Run Benthic-Macroinvertebrate Bioassessments	5A			8.17	2016	M
A09R-04-BAC Recreation	South Fork Broad Run Escherichia coli	5A			5.28	2014	M



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A09R-04-BEN Aquatic Life	South Fork Broad Run Benthic-Macroinvertebrate Bioassessments	5A			5.28	2014	M
A09R-05-BAC Recreation	Beaverdam Run Escherichia coli	5A			3.85	2014	M
A09R-05-BEN Aquatic Life	Beaverdam Run Benthic-Macroinvertebrate Bioassessments	5A			3.85	2016	L
A09R-06-BAC Recreation	Indian Creek Escherichia coli	5A			3.48	2014	M
A09R-07-BAC Recreation	Horsepen Run Escherichia coli	5A			8.17	2016	L
A10R-01-BEN Aquatic Life	Sugarland Run Benthic-Macroinvertebrate Bioassessments	5A			9.71	2012	L
A11R-01-HEPOXID Fish Consumption	Difficult Run Heptachlor epoxide	5A			3.17	2006	L
A11R-02-BEN Aquatic Life	Captain Hickory Run Benthic-Macroinvertebrate Bioassessments	5A			3.27	2008	L
A11R-03-BEN Aquatic Life	Difficult Run Benthic-Macroinvertebrate Bioassessments	5A			6.37	2008	L
A11R-04-BEN Aquatic Life	Colvin Run Benthic-Macroinvertebrate Bioassessments	5A			2.09	2010	L
A11R-05-BEN Aquatic Life	Snakeden Branch Benthic-Macroinvertebrate Bioassessments	5A			0.97	2010	L
A11R-06-BEN Aquatic Life	Little Difficult Run Benthic-Macroinvertebrate Bioassessments	5A			1.75	2010	L
A11R-07-BEN Aquatic Life	Old Courthouse Spring Branch Benthic-Macroinvertebrate Bioassessments	5A			2.11	2010	L
A11R-08-BAC Recreation	Nichols Run Escherichia coli	5A			4.56	2012	L
A11R-08-BEN Aquatic Life	Turkey Run Benthic-Macroinvertebrate Bioassessments	5A			1.34	2012	L
A11R-09-BEN Aquatic Life	Dead Run Benthic-Macroinvertebrate Bioassessments	5A			2.82	2012	L
A12E-01-CDANE Fish Consumption	Four Mile Run Chlordane	5A	0.050			2010	L
A12R-01-BEN Aquatic Life	Pimmit Run Benthic-Macroinvertebrate Bioassessments	5A			2.76	2012	L
A12R-03-CDANE Fish Consumption	Pimmit Run Chlordane	5A			1.64	2006	L



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A12R-03-HEPOXID	Pimmit Run							
Fish Consumption		Heptachlor epoxide	5A			1.64	2006	L
A13R-01-PCB	Indian Run							
Fish Consumption		PCB in Fish Tissue	5A			3.18	2006	L
A13R-03-BEN	Holmes Run							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			6.09	2004	M
A13R-04-BEN	Tripps Run							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			3.70	2004	M
A14R-01-BAC	Paul Springs Branch							
Recreation		Escherichia coli	5A			3.38	2010	L
A14R-01-BEN	Paul Springs Branch							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			3.38	2010	L
A14R-01-DO	Paul Springs Branch							
Aquatic Life		Oxygen, Dissolved	5A			3.38	2014	L
A14R-02-BAC	Dogue Creek							
Recreation		Escherichia coli	5A			1.41	2014	L
A15E-01-PH	Pohick Bay							
Aquatic Life		pH	5A	0.619			2012	L
A15L-01-HG	Lake Accotink							
Fish Consumption		Mercury in Fish Tissue	5A		73.93		2010	L
A15L-01-PCB	Lake Accotink							
Fish Consumption		PCB in Fish Tissue	5A		73.93		2010	L
A15R-01-BEN	Accotink Creek							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			7.47	1996	H
		Benthic-Macroinvertebrate Bioassessments	5A			2.62	2010	H
A15R-01-CHLR	Accotink Creek							
Aquatic Life		Chloride	5A			5.22	2016	L
Wildlife		Chloride	5A			5.22	2016	L
A15R-01-PCB	Accotink Creek							
Fish Consumption		PCB in Fish Tissue	5A			10.09	2010	L
A15R-04-BEN	Accotink Creek							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			3.34	2008	H
		Benthic-Macroinvertebrate Bioassessments	5A			8.25	2010	H
A15R-05-BEN	Long Branch							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			2.37	2008	H
A16E-01-BZOKFL	Pohick Creek							
Fish Consumption		Benzo[k]fluoranthene	5A	0.292			2002	L



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A16R-01-BAC	Pohick Creek							
Recreation		Escherichia coli	5A			3.78	2006	M
A16R-01-BEN	Pohick Creek							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			2.61	2014	M
A16R-02-BAC	Pohick Creek							
Recreation		Escherichia coli	5A			1.77	2006	M
		Escherichia coli	5A			5.41	2012	M
		Escherichia coli	5A			2.61	2016	M
A16R-03-BAC	South Run							
Recreation		Escherichia coli	5A			4.16	2016	L
A16R-04-BAC	Middle Run							
Recreation		Escherichia coli	5A			2.85	2016	L
A18R-02-BEN	Lucky Run							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			3.48	2008	L
A21R-01-BEN	Catharpin Creek							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			6.80	2012	M
A21R-01-PCB	Bull Run							
Fish Consumption		PCB in Fish Tissue	5A			5.81	2004	L
		PCB in Fish Tissue	5A		63.12	5.72	2006	L
A21R-02-BEN	Bull Run							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			4.66	2016	L
A22R-01-BEN	Flatlick Branch							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			3.22	2008	M
A22R-02-BEN	Big Rocky Run							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			4.34	2010	M
A22R-03-BEN	Cub Run							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			6.89	2012	M
		Benthic-Macroinvertebrate Bioassessments	5A			6.34	2016	M
A22R-04-BEN	Elklick Run							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			2.27	2014	M
A23R-03-BEN	Little Rocky Run							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			5.23	2010	M
A24R-01-BAC	Wolf Run							
Recreation		Escherichia coli	5A			2.50	2006	L
A24R-02-BAC	Sandy Run							
Recreation		Escherichia coli	5A			6.08	2008	L
A24R-03-BAC	Hooes Run							
Recreation		Escherichia coli	5A			0.98	2012	L



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A25E-02-BAC Recreation	Neabsco Creek Escherichia coli	5A	0.545			2004	L
A25E-03-BAC Recreation	Occoquan River Escherichia coli	5A	0.074			2014	L
A25E-04-BAC Recreation	Marumsco Creek Escherichia coli	5A	0.025			2012	L
A25E-04-EBEN Aquatic Life	Occoquan River Estuarine Bioassessments	5A	0.286			2006	L
A25R-01-BEN Aquatic Life	Giles Run Benthic-Macroinvertebrate Bioassessments	5A			6.48	2012	L
A25R-02-BAC Recreation	Mills Branch Escherichia coli	5A			1.72	2014	L
A25R-03-BAC Recreation	Giles Run Escherichia coli	5A			6.48	2014	L
A25R-04-BAC Recreation	Marumsco Creek Escherichia coli	5A			0.53	2014	L
A25R-05-BAC Recreation	Unnamed Tributary to Occoquan River Escherichia coli	5A			1.11	2016	L
A26E-01-BZOKFL Fish Consumption	Powells Creek Benzo[k]fluoranthene	5A	0.402			2002	L
A26E-03-EBEN Aquatic Life	Quantico Creek Estuarine Bioassessments	5A	0.419			2006	L
A26E-03-EBTOX Aquatic Life	Quantico Creek Sediment Bioassays for Estuarine and Marine Water	5A	0.419			2006	L
A26L-01-HG Fish Consumption	Lake Montclair Mercury in Fish Tissue	5A		103.54		2010	L
A26R-02-PH Aquatic Life	Unnamed tributary to Potomac River pH	5A			3.67	2014	L
A27R-01-BAC Recreation	Aquia Creek Escherichia coli	5A			6.36	2006	L
A27R-01-DO Aquatic Life	Unnamed tributary to Aquia Creek Oxygen, Dissolved	5A			2.25	2010	L
A27R-02-BAC Recreation	Aquia Creek Escherichia coli	5A			8.81	2012	L
A29E-01-PH Aquatic Life	Potomac Creek pH	5A	0.587			2014	L



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A29E-02-BAC Recreation	Fairview Beach (Potomac River) Enterococcus	5R	0.005			2006	L
A29E-03-BAC Recreation	Chotank Creek Enterococcus	5A	0.054			2012	L
A29R-01-BEN Aquatic Life	Unnamed tributary to Long Branch Benthic-Macroinvertebrate Bioassessments	5A			2.30	2016	L
A29R-03-DO Aquatic Life	Potomac Run Oxygen, Dissolved	5A			6.59	2014	L
A30R-01-DO Aquatic Life	Pepper Mill Creek Oxygen, Dissolved	5C			8.66	2010	L
A30R-01-PH Aquatic Life	Pepper Mill Creek pH	5C			8.66	2010	L
A30R-02-DO Aquatic Life	Gambo Creek Oxygen, Dissolved	5C			0.50	2016	L
A30R-02-PH Aquatic Life	Gambo Creek pH	5C	0.177		0.50	2016	L
A31E-01-BAC Recreation	Rosier Creek Enterococcus	5A	0.274			2010	L
A31E-11-BAC Recreation	Bridges Creek Enterococcus	5A	0.182			2012	L
A31R-01-BAC Recreation	Pine Hill Creek Watershed Escherichia coli	5A			34.91	2014	L
A32E-09-EBEN Aquatic Life	Lower Machodoc Creek Estuarine Bioassessments	5A	0.687			2016	L
A32R-01-DO Aquatic Life	Thompson Branch Oxygen, Dissolved	5C			1.60	2006	L
A32R-01-PH Aquatic Life	Thompson Branch pH	5C			1.60	2006	L
A32R-03-PH Aquatic Life	XLK - Nomini Creek, UT pH	5C			1.45	2010	L
A32R-05-PH Aquatic Life	Tavern Run pH	5C			3.27	2012	L
A32R-06-PH Aquatic Life	Nontidal Nomini Creek Tributaries pH	5C			16.36	2014	L
A32R-07-DO Aquatic Life	Marshall Creek Oxygen, Dissolved	5C			2.88	2014	L
A32R-08-DO Aquatic Life	Barnes Creek Oxygen, Dissolved	5C			1.94	2014	L



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A32R-08-PH Aquatic Life	Barnes Creek pH	5C			1.94	2014	L
A32R-09-DO Aquatic Life	Mount Pleasant Creek Oxygen, Dissolved	5C			2.26	2014	L
A32R-09-PH Aquatic Life	Mount Pleasant Creek pH	5C			2.26	2014	L
A33E-04-BAC Recreation	Lodge Creek Enterococcus	5A	0.301			2006	L
A33L-01-DO Aquatic Life	Hampton Hall, Gardy Millpond Oxygen, Dissolved	5C		45.86		2016	L
A33R-02-BAC Recreation	Lodge Creek Escherichia coli	5A			3.44	2014	L
A33R-02-DO Aquatic Life	Lodge Creek Oxygen, Dissolved	5C			3.44	2010	L
A33R-03-DO Aquatic Life	Gardner Creek Oxygen, Dissolved	5C			1.40	2010	L
A33R-03-PH Aquatic Life	Gardner Creek pH	5C			1.40	2010	L
A33R-04-DO Aquatic Life	XMB - Hampton Hall Creek, UT Oxygen, Dissolved	5C			3.48	2014	L
A33R-04-PH Aquatic Life	XMB - Hampton Hall Creek, UT pH	5C			3.48	2014	L
A33R-05-PH Aquatic Life	XLZ - Hampton Hall Creek, UT pH	5C			3.13	2014	L
A33R-07-BAC Recreation	XMC - Lodge Creek, UT Escherichia coli	5A			1.69	2014	L
A34R-02-PH Aquatic Life	Little Wicomico River pH	5C			2.33	2006	L
A34R-03-DO Aquatic Life	XLL - Coan Mill Stream, UT Oxygen, Dissolved	5C			2.10	2010	L
B02R-01-BAC Recreation	West Strait Creek Escherichia coli	5A			0.87	2010	L
B02R-06-BAC Recreation	Strait Creek Escherichia coli	5A			2.77	2006	L
B03R-03-BAC Recreation	South Fork South Branch Potomac River Escherichia coli	5A			2.71	2012	L
B04R-01-BAC Recreation	Middle Fork Sleepy Creek Escherichia coli	5A			2.93	2014	L



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B04R-02-BAC	Sleepy Creek							
Recreation		Escherichia coli	5A			7.72	2016	L
B05R-01-BAC	Back Creek							
Recreation		Escherichia coli	5A			17.61	2010	L
B05R-02-BAC	Little Isaacs Creek							
Recreation		Escherichia coli	5A			9.93	2008	L
B05R-03-BAC	Isaacs Creek							
Recreation		Escherichia coli	5A			2.84	2016	L
B12R-01-PCB	Lewis Creek							
Fish Consumption		PCB in Fish Tissue	5A			10.06	2004	H
B14R-03-TEMP	Long Meadow Run							
Aquatic Life		Temperature, water	5C			11.06	2006	L
B16L-01-TEMP	Elkhorn Lake							
Aquatic Life		Temperature, water	5A		52.66		2010	L
B16R-01-PH	North River							
Aquatic Life		pH	5A			4.46	2002	L
B18R-01-BEN	Wolf Run							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			1.18	2002	L
		Benthic-Macroinvertebrate Bioassessments	5A			2.11	2004	L
B18R-01-PH	Wolf Run							
Aquatic Life		pH	5A			3.29	2006	L
B18R-02-PH	Briery Branch							
Aquatic Life		pH	5C			7.18	2002	L
B18R-06-PH	Rocky Run							
Aquatic Life		pH	5A			1.93	2006	L
B18R-07-PH	Union Springs Run							
Aquatic Life		pH	5A			3.73	2006	L
B20L-01-TEMP	Switzer Lake							
Aquatic Life		Temperature, water	5A		100.81		2006	L
B20R-01-PH	Dry River							
Aquatic Life		pH	5A			9.54	2002	L
		pH	5A			0.64	2008	L
B30R-02-PH	Loves Run							
Aquatic Life		pH	5A			5.63	2006	M
B30R-03-BEN	Pine Run							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			20.38	2014	L
B31L-01-PH	Coles Run Reservoir							
Aquatic Life		pH	5A		10.84		2008	L



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B31R-01-BAC Recreation	Back Creek Escherichia coli	5A			12.85	2012	L
B31R-01-BEN Aquatic Life	Back Creek Benthic-Macroinvertebrate Bioassessments	5A			12.85	2002	L
B31R-02-BEN Aquatic Life	Mills Creek Benthic-Macroinvertebrate Bioassessments	5A			9.12	2002	L
B31R-04-PH Aquatic Life	Coles Run pH	5A			6.88	2006	M
B31R-05-PH Aquatic Life	Johns Run pH	5A			5.45	2006	M
B31R-06-PH Aquatic Life	Kennedy Creek pH	5A			15.47	2006	M
B31R-07-PH Aquatic Life	Orebank Creek pH	5A			3.55	2006	M
B32R-02-PCB Fish Consumption	South River PCB in Fish Tissue	5A			5.37	2008	L
B32R-03-PH Aquatic Life	Paine Run pH	5A			6.73	2004	M
B32R-04-PH Aquatic Life	Meadow Run pH	5A			8.82	2004	M
B33R-02-PH Aquatic Life	Deep Run pH	5A			4.49	2004	M
B33R-03-PH Aquatic Life	Lower Lewis Run pH	5A			3.93	2006	M
B35R-01-BAC Recreation	Boone Run Fecal Coliform Escherichia coli	5A 5A			13.81 13.81	2002 2010	L L
B35R-02-BAC Recreation	Quail Run Fecal Coliform Escherichia coli Escherichia coli	5A 5A 5A			5.12 5.12 1.46	2004 2008 2010	L L L
B35R-03-BEN Aquatic Life	Quail Run Benthic-Macroinvertebrate Bioassessments	5C			1.46	2002	L
B35R-04-PH Aquatic Life	Two Mile Run pH	5A			5.05	2006	M
B35R-05-PH Aquatic Life	One Mile Run pH	5A			9.16	2010	M



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B37R-01-PCB Fish Consumption	South Fork Shenandoah River PCB in Fish Tissue	5A			19.12	2010	L
B37R-02-BAC Recreation	Line Run Escherichia coli	5A			4.93	2006	L
B37R-03-BAC Recreation	Honey Run Escherichia coli	5A			5.10	2008	L
B37R-04-TEMP Aquatic Life	Cub Run Temperature, water	5A			9.79	2012	L
B38R-02-BAC Recreation	Big Run Escherichia coli	5A			6.40	2006	L
B39R-03-BEN Aquatic Life	East Hawksbill Creek Benthic-Macroinvertebrate Bioassessments	5A			9.38	2008	L
B39R-03-PH Aquatic Life	Rocky Branch pH	5A			4.25	2004	L
B39R-03-TEMP Aquatic Life	Pass Run Temperature, water	5A			9.47	2010	L
B39R-04-BEN Aquatic Life	Dry Run Benthic-Macroinvertebrate Bioassessments	5A			5.52	2012	L
B40R-01-BAC Recreation	Jeremys Run Escherichia coli	5A			11.69	2012	H
B40R-02-BAC Recreation	Flint Run Fecal Coliform Escherichia coli	5A 5A			12.58 12.58	2004 2016	H H
B40R-03-BAC Recreation	Gooney Run Escherichia coli	5A			20.17	2010	H
B40R-04-TEMP Aquatic Life	Flint Run Temperature, water	5A			4.10	2010	L
B41R-04-BAC Recreation	South Fork Shenandoah River Escherichia coli Escherichia coli	5A 5A			4.47 5.84	2010 2012	H H
B42R-01-BAC Recreation	Crab Run Escherichia coli	5A			3.93	2010	L
B42R-01-BEN Aquatic Life	North Fork Shenandoah River Benthic-Macroinvertebrate Bioassessments	5A			2.59	2010	L
B45R-01-BEN Aquatic Life	Long Meadow Run Benthic-Macroinvertebrate Bioassessments	5A			9.85	2002	H
B45R-02-BEN Aquatic Life	Turley Creek Benthic-Macroinvertebrate Bioassessments	5A			4.03	2002	H



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B45R-05-BEN	North Fork Shenandoah River						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			11.54	2008	L
	Benthic-Macroinvertebrate Bioassessments	5A			1.98	2012	L
B47R-01-BEN	Fridley Run						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			2.38	2002	L
B47R-01-PH	Fridley Run						
Aquatic Life	pH	5A			2.38	2006	L
B47R-07-BEN	Dry Fork						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			10.85	2006	L
B48R-02-BEN	Crooked Run						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			4.07	2008	L
B49R-01-BEN	Stony Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			5.85	2008	L
	Benthic-Macroinvertebrate Bioassessments	5A			3.43	2016	L
B49R-05-TEMP	Little Stony Creek						
Aquatic Life	Temperature, water	5A			4.91	2012	L
B49R-07-TEMP	Stony Creek						
Aquatic Life	Temperature, water	5A			4.70	2002	L
	Temperature, water	5A			4.68	2004	L
	Temperature, water	5A			9.46	2006	L
B50R-03-BAC	Pughs Run						
Recreation	Fecal Coliform	5A			7.00	2004	L
	Escherichia coli	5A			7.00	2008	L
B50R-03-BEN	Pughs Run						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			7.00	2012	L
B51R-01-BAC	Tumbling Run						
Recreation	Fecal Coliform	5A			4.24	2004	H
	Escherichia coli	5A			4.24	2008	H
B51R-02-BAC	North Fork Shenandoah River						
Recreation	Escherichia coli	5A			5.42	2008	H
	Escherichia coli	5A			6.27	2010	H
B52R-01-PH	Cedar Creek						
Aquatic Life	pH	5A			4.82	2014	M
	pH	5A			3.45	2016	M
B52R-04-BAC	Cedar Creek						
Recreation	Escherichia coli	5A			7.58	2012	H
	Escherichia coli	5A			9.22	2014	H
B52R-05-BAC	Fall Run						
Recreation	Escherichia coli	5A			15.17	2014	H



2016 Impaired Waters - 303(d) List

Category 5 - Waters needing Total Maximum Daily Load Study

Potomac and Shenandoah River Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
B52R-06-BAC Recreation	Gravel Springs Escherichia coli	5A			3.29	2016	L
B53R-01-BAC Recreation	Cedar Creek Escherichia coli	5A			3.75	2014	H
B54R-01-BAC Recreation	Passage Creek Fecal Coliform Escherichia coli	5A 5A			10.42 10.42	2006 2008	H H
B54R-01-PH Aquatic Life	Passage Creek pH	5A			5.44	2010	L
B56R-01-DO Aquatic Life	Crooked Run Oxygen, Dissolved	5A			2.32	2008	L
B56R-02-BEN Aquatic Life	Stephens Run Benthic-Macroinvertebrate Bioassessments	5A			0.99	2016	L
B57R-03-BAC Recreation	Chapel Run Escherichia coli	5A			11.74	2008	H
B57R-03-BEN Aquatic Life	Chapel Run Benthic-Macroinvertebrate Bioassessments	5A			11.74	2006	L
B57R-05-BAC Recreation	Shenandoah River Escherichia coli	5A			5.40	2014	L
B58R-02-BAC Recreation	Dog Run Escherichia coli	5A			6.13	2008	H
B58R-03-BAC Recreation	Wheat Spring Branch Escherichia coli	5A			4.69	2008	H
B58R-04-BAC Recreation	Long Marsh Run Escherichia coli	5A			7.09	2012	L
B58R-05-BAC Recreation	Shenandoah River Escherichia coli	5A			7.90	2012	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) = formal EPA priority to be addressed with a plan by 2022; M (Medium) = DEQ priority that may be addressed with a plan by 2022; or L (Low) = not prioritized to be addressed with a plan by 2022. Within the H or M priority there may be "2yr" noted which means the priority is to be addressed within the two next years.

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



2016 Impaired Waters - 303(d) List

Category 5 - Waters needing Total Maximum Daily Load Study

James River Basin

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
G01E-02-EBEN	James River						
Aquatic Life	Estuarine Bioassessments	5A	31.358			2012	L
G01E-03-PCB	James River and Various Tributaries						
Fish Consumption	PCB in Fish Tissue	5A	62.904			2002	H, 2yr
	PCB in Fish Tissue	5A	1.914			2004	H, 2yr
	PCB in Fish Tissue	5A	183.259		7.51	2006	H, 2yr
	PCB in Fish Tissue	5A	0.002			2008	H, 2yr
G01L-01-DO	Falling Creek Reservoir						
Aquatic Life	Oxygen, Dissolved	5A		88.37		2012	L
G01R-01-PCB	Goode Creek						
Fish Consumption	PCB in Water Column	5A			1.21	2012	H, 2yr
G01R-02-PCB	Almond Creek						
Fish Consumption	PCB in Water Column	5A			2.10	2012	H, 2yr
G01R-02-PH	XVO and XVP - Almond Creek, UT						
Aquatic Life	pH	5A			0.82	2004	L
G01R-04-DO	Falling Creek						
Aquatic Life	Oxygen, Dissolved	5A			0.98	2008	L
G01R-05-PH	Kingsland Creek						
Aquatic Life	pH	5C			8.54	2006	L
G01R-06-PCB	Gillies Creek						
Fish Consumption	PCB in Water Column	5A			5.88	2012	H, 2yr
G01R-06-PH	Gillies Creek						
Aquatic Life	pH	5A			5.88	2004	L
G01R-07-DO	Redwater Creek						
Aquatic Life	Oxygen, Dissolved	5C			2.96	2010	L
G01R-09-DO	UT to James River - XPF						
Aquatic Life	Oxygen, Dissolved	5C			0.39	2004	L
G01R-09-PH	UT to James River - XPF						
Aquatic Life	pH	5C			0.39	2004	L
G01R-12-PH	XYI - Coles Run, UT						
Aquatic Life	pH	5C			0.94	2006	L
G01R-15-BEN	Proctors Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			8.26	2010	L
G01R-21-DO	Great Branch						
Aquatic Life	Oxygen, Dissolved	5C			4.38	2014	L
G01R-22-CU	XVP - Almond Creek, UT						
Aquatic Life	Copper	5A			0.36	2012	L
Wildlife	Copper	5A			0.36	2012	L



2016 Impaired Waters - 303(d) List

Category 5 - Waters needing Total Maximum Daily Load Study

James River Basin

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
G01R-22-ZN	XVP - Almond Creek, UT						
Aquatic Life	Zinc	5A			0.36	2012	L
Wildlife	Zinc	5A			0.36	2012	L
G01R-23-PH	XFU - Pocoshock Creek, UT						
Aquatic Life	pH	5A			3.83	2016	L
G02E-04-PCB	James River						
Fish Consumption	PCB in Water Column	5A	3.972			2012	L
Public Water Supply	PCB in Water Column	5A	3.972			2012	L
G02R-03-DO	Johnson Creek Watershed						
Aquatic Life	Oxygen, Dissolved	5C			16.27	2004	L
G02R-03-PH	Johnson Creek Watershed						
Aquatic Life	pH	5C			16.27	2004	L
G02R-05-DO	Crewes Channel						
Aquatic Life	Oxygen, Dissolved	5C			3.24	2012	L
G02R-09-DO	Roundabout Creek						
Aquatic Life	Oxygen, Dissolved	5C			3.96	2014	L
G02R-09-PH	Roundabout Creek						
Aquatic Life	pH	5C			3.96	2014	L
G02R-10-PH	XBE - Roundabout Creek, UT						
Aquatic Life	pH	5C			1.43	2014	L
G02R-11-PH	Turkey Island Creek						
Aquatic Life	pH	5C			7.03	2016	L
G03E-01-PCB	Bailey Creek (tidal), Cattail Creek (tidal)						
Fish Consumption	PCB in Water Column	5A	0.114			2012	L
G03E-01-PH	Bailey Creek (tidal), Cattail Creek (tidal)						
Aquatic Life	pH	5A	0.114			2004	L
G03E-03-PH	James River						
Aquatic Life	pH	5A	10.194			2014	L
G03L-01-DO	Harrison Lake						
Aquatic Life	Oxygen, Dissolved	5A		60.16		2006	L
G03L-01-HG	Harrison Lake						
Fish Consumption	Mercury in Fish Tissue	5A		60.16		2008	L
G03L-01-PH	Harrison Lake						
Aquatic Life	pH	5A		60.16		2006	L
G03R-02-ALD	Bailey Creek						
Fish Consumption	Aldrin	5A			6.47	2002	L
G03R-02-BEN	Bailey Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			6.47	2014	L



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Category 5 - Waters needing Total Maximum Daily Load Study

James River Basin

Cause Group Code	Water Name	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
G03R-02-PCB	Bailey Creek							
Fish Consumption		PCB in Fish Tissue	5A			6.47	2002	H, 2yr
G03R-03-PCB	Poythress Run							
Aquatic Life		PCB in Water Column	5A			0.70	2012	H, 2yr
Fish Consumption		PCB in Water Column	5A			0.70	2012	H, 2yr
Wildlife		PCB in Water Column	5A			0.70	2012	H, 2yr
G03R-04-PH	West Run							
Aquatic Life		pH	5C			1.86	2004	L
G03R-05-PCB	XYO - Cattail Creek, UT							
Fish Consumption		PCB in Water Column	5A			0.34	2012	H, 2yr
G03R-06-BEN	XUD - West Run, UT							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			1.57	2008	L
G03R-06-DO	Upper West Run / East Run Watershed							
Aquatic Life		Oxygen, Dissolved	5C			45.27	2016	L
G03R-06-PH	Upper West Run / East Run Watershed							
Aquatic Life		pH	5C			1.57	2006	L
		pH	5C			43.70	2016	L
G04E-02-EBEN	James River							
Aquatic Life		Estuarine Bioassessments	5A	20.409			2004	L
G04L-01-BAC	Sunken Meadow Pond							
Recreation		Escherichia coli	5A		172.85		2016	L
G04L-01-DO	Sunken Meadow Pond							
Aquatic Life		Oxygen, Dissolved	5C		172.85		2010	L
G04R-03-MIREX	Bailey Branch							
Aquatic Life		Mirex	5A			5.69	2010	L
Wildlife		Mirex	5A			5.69	2010	L
G05R-01-NH3	Chickahominy River, UT - Unnamed Tributary							
Aquatic Life		Ammonia (Un-ionized)	5A			1.17	2008	L
Wildlife		Ammonia (Un-ionized)	5A			1.17	2008	L
G05R-04-PH	Chickahominy River							
Aquatic Life		pH	5C			2.30	2012	L
G05R-06-DO	Grassy Swamp Creek							
Aquatic Life		Oxygen, Dissolved	5C			1.02	2008	L
G05R-07-DO	Chickahominy River, UT (XDD)							
Aquatic Life		Oxygen, Dissolved	5C			0.56	2006	L
G05R-07-PH	Chickahominy River, UT (XDD)							
Aquatic Life		pH	5C			0.56	2006	L



2016 Impaired Waters - 303(d) List

Category 5 - Waters needing Total Maximum Daily Load Study

James River Basin

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
G05R-09-BEN	North Run						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			3.66	2008	M
	Benthic-Macroinvertebrate Bioassessments	5A			4.24	2014	M
G05R-09-PH	North Run						
Aquatic Life	pH	5A			3.66	2006	L
G05R-10-DO	Upham Brook						
Aquatic Life	Oxygen, Dissolved	5A			1.16	2008	L
G05R-11-DO	Upham Brook, UT (XXP)						
Aquatic Life	Oxygen, Dissolved	5C			1.46	2008	L
G05R-14-BEN	Jordans Branch						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			2.19	2016	L
G05R-15-DO	XCJ - North Run, UT						
Aquatic Life	Oxygen, Dissolved	5A			0.42	2016	L
G05R-15-PH	XCJ - North Run, UT						
Aquatic Life	pH	5A			0.42	2016	L
G05R-16-BEN	Upham Brook						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			12.15	2016	L
G06L-04-TEMP	Westhaven Lake						
Aquatic Life	Temperature, water	5A		15.12		2014	L
G06R-01-HG	Chickahominy River						
Fish Consumption	Mercury in Fish Tissue	5A			7.45	2010	L
G06R-05-DO	Powwhite Creek						
Aquatic Life	Oxygen, Dissolved	5C			2.14	2014	L
G06R-06-PH	Beaverdam Creek						
Aquatic Life	pH	5C			2.67	2004	L
G06R-07-DO	Boatswain Creek						
Aquatic Life	Oxygen, Dissolved	5C			3.75	2016	L
G06R-07-PH	Boatswain Creek						
Aquatic Life	pH	5C			3.75	2004	L
G06R-11-PH	Bloody Run						
Aquatic Life	pH	5C			1.16	2004	L
G07L-01-DO	Chickahominy Lake						
Aquatic Life	Oxygen, Dissolved	5A		1,050.46		2002	L
G07L-01-HG	Chickahominy Lake						
Fish Consumption	Mercury in Fish Tissue	5A		1,050.46		2008	L
G07R-01-DO	Collins Run						
Aquatic Life	Oxygen, Dissolved	5C			4.49	2010	L



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Category 5 - Waters needing Total Maximum Daily Load Study

James River Basin

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
G07R-01-PH Aquatic Life	Collins Run pH	5C			4.49	2012	L
G07R-02-DO Aquatic Life	Rumley Marsh Oxygen, Dissolved	5A			1.31	2002	L
G07R-02-PH Aquatic Life	Rumley Marsh pH	5A			1.31	2010	L
G07R-04-DO Aquatic Life	Schiminoe Creek Oxygen, Dissolved	5C			6.22	2012	L
G07R-04-PH Aquatic Life	Schiminoe Creek pH	5C			6.22	2012	L
G07R-06-DO Aquatic Life	XWS - Rumley Marsh, UT Oxygen, Dissolved	5A			2.17	2012	L
G07R-06-PH Aquatic Life	XWS - Rumley Marsh, UT pH	5A			2.17	2012	L
G07R-07-PH Aquatic Life	XAB - Collins Run, UT pH	5C			1.72	2012	L
G08E-03-BAC Recreation	Diascund Creek Enterococcus	5A	0.271			2010	H
G08E-07-EBEN Aquatic Life	XAC - Chickahominy River, UT Estuarine Bioassessments	5A	0.017			2010	L
G08R-02-BAC Recreation	Mill Creek Escherichia coli	5A			4.81	2012	H
G08R-04-DO Aquatic Life	Yarmouth Creek Oxygen, Dissolved	5C			4.09	2012	L
G08R-05-BAC Recreation	Barrows Creek Escherichia coli	5A			6.93	2014	H
G08R-05-DO Aquatic Life	Barrows Creek Oxygen, Dissolved	5C			6.93	2014	L
G09L-01-HG Fish Consumption	Diascund Creek Reservoir Mercury in Fish Tissue	5A		1,056.13		2010	L
G09R-01-BAC Recreation	Beaverdam Creek Escherichia coli	5A			4.34	2012	H
G09R-01-DO Aquatic Life	Beaverdam Creek Oxygen, Dissolved	5A			4.34	2002	L
G09R-01-PH Aquatic Life	Beaverdam Creek pH	5A			4.34	2012	L
G09R-02-DO Aquatic Life	Diascund Creek Oxygen, Dissolved	5C			6.88	2008	L



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Category 5 - Waters needing Total Maximum Daily Load Study

James River Basin

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
G09R-02-PH Aquatic Life	Diascund Creek pH	5C			6.88	2012	L
G09R-03-DO Aquatic Life	XAL - Diascund Creek, UT Oxygen, Dissolved	5C			1.22	2012	L
G09R-03-PH Aquatic Life	XAL - Diascund Creek, UT pH	5C			1.22	2012	L
G09R-04-DO Aquatic Life	XAK - Diascund Creek, UT Oxygen, Dissolved	5C			2.91	2012	L
G09R-05-DO Aquatic Life	XAJ - Diascund Creek, UT Oxygen, Dissolved	5C			2.93	2012	L
G09R-06-BAC Recreation	XAH - Beaverdam Creek, UT Escherichia coli	5A			2.23	2012	H
G09R-06-DO Aquatic Life	XAH - Beaverdam Creek, UT Oxygen, Dissolved	5A			2.23	2012	L
G09R-07-DO Aquatic Life	Wahrani Swamp Oxygen, Dissolved	5C			3.66	2014	L
G09R-08-DO Aquatic Life	XBY - Beaverdam Creek, UT Oxygen, Dissolved	5A			1.08	2016	L
G10E-05-EBEN Aquatic Life	James River (Oligohaline) Estuarine Bioassessments Estuarine Bioassessments Estuarine Bioassessments	5A 5A 5A	26.412 0.578 1.129			2004 2012 2016	L L L
G10R-01-BAC Recreation	College Run Fecal Coliform	5A			2.61	2002	L
G10R-02-BEN Aquatic Life	Powhatan Creek Benthic-Macroinvertebrate Bioassessments	5A			5.36	2002	L
G10R-03-BAC Recreation	Dark Swamp, UT (XHC) Escherichia coli	5A			1.30	2012	L
G10R-03-DO Aquatic Life	Dark Swamp, UT (XHC) Oxygen, Dissolved	5A			1.30	2010	L
G10R-04-BAC Recreation	Unnamed tributary to Mill Creek Escherichia coli	5A			1.22	2012	L
G10R-05-BAC Recreation	Dark Swamp Escherichia coli	5A			3.15	2014	L
G11E-20-BAC Recreation	James River - Hilton Beach Area Enterococcus	5A	0.110			2012	L
G11E-21-BAC Recreation	James River - Huntington Beach Area Enterococcus	5A	0.008			2006	L



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Category 5 - Waters needing Total Maximum Daily Load Study

James River Basin

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
G11L-01-CU	Lee Hall Reservoir						
Aquatic Life	Copper	5A		292.14		2004	L
Wildlife	Copper	5A		292.14		2004	L
G11L-01-HG	Lee Hall Reservoir						
Fish Consumption	Mercury in Fish Tissue	5A		292.14		2010	L
G11L-01-PCB	Lee Hall Reservoir						
Fish Consumption	PCB in Fish Tissue	5A		292.14		2010	L
G11L-05-DO	Lee Hall Reservoir						
Aquatic Life	Oxygen, Dissolved	5A		292.14		2008	L
G11L-06-DO	Scotts Factory Pond						
Aquatic Life	Oxygen, Dissolved	5A		14.83		2016	L
G11R-02-BEN	Chuckatuck Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			1.53	2004	L
G11R-03-BAC	Champion Swamp						
Recreation	Escherichia coli	5A			3.16	2010	L
G11R-04-BAC	Pagan River (including Wrenns Millpond)						
Recreation	Escherichia coli	5A			1.35	2012	L
G12L-01-DO	Lake Cahoon						
Aquatic Life	Oxygen, Dissolved	5A		454.16		2006	L
G12L-02-DO	Lake Meade						
Aquatic Life	Oxygen, Dissolved	5A		489.49		2006	L
G12L-02-TP	Lake Meade						
Aquatic Life	Phosphorus (Total)	5A		489.49		2012	L
G12L-03-CHLA	Speights Run Lake						
Aquatic Life	Chlorophyll-a	5A		120.87		2010	L
G12L-03-DO	Speights Run Lake						
Aquatic Life	Oxygen, Dissolved	5A		120.87		2006	L
G12L-04-DO	Lake Kilby						
Aquatic Life	Oxygen, Dissolved	5A		200.03		2006	L
G12L-04-TP	Lake Kilby						
Aquatic Life	Phosphorus (Total)	5A		200.03		2014	L
G13E-07-PH	Shingle Creek - Tributary to Nansemond R.						
Aquatic Life	pH	5A	0.040			2002	L
G14L-01-DO	Lake Burnt Mills						
Aquatic Life	Oxygen, Dissolved	5A		637.99		2006	L
G14L-01-PH	Lake Burnt Mills						
Aquatic Life	pH	5A		637.99		2016	L



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Category 5 - Waters needing Total Maximum Daily Load Study

James River Basin

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
G14L-02-DO Aquatic Life	Western Branch Reservoir Oxygen, Dissolved	5A		1,209.67		2006	L
G14L-02-TP Aquatic Life	Western Branch Reservoir Phosphorus (Total)	5A		1,209.67		2012	L
G14L-03-DO Aquatic Life	Lake Prince Reservoir Oxygen, Dissolved	5A		715.37		2006	L
G14R-01-PH Aquatic Life	Carbell Swamp - Upper pH	5C			2.95	2002	L
G14R-02-BAC Recreation	Carbell Swamp - Lower Escherichia coli	5A			2.88	2010	L
G14R-02-DO Aquatic Life	Carbell Swamp - Lower Oxygen, Dissolved	5A			2.88	2008	L
G15E-01-01-TCDD Fish Consumption	Elizabeth River Southern Branch and its tidal tributaries. CBP segment SBEMH. Dioxin (including 2,3,7,8-TCDD)		5A	3.147		2010	L
G15E-02-04-EBEN Aquatic Life	Eastern Branch Elizabeth River, Broad Creek and Unsegmented estuaries in EBEMH Estuarine Bioassessments		5A	1.764		2004	L
	Estuarine Bioassessments		5A	0.587		2006	L
G15E-03-01-EBEN Aquatic Life	Elizabeth River Mainstem Estuarine Bioassessments		5A	4.473		2004	L
	Estuarine Bioassessments		5A	3.445		2010	L
G15E-03-03-EBEN Aquatic Life	Scott Creek Estuarine Bioassessments	5A	0.194			2016	L
G15E-04-02-EBEN Aquatic Life	Western Branch Elizabeth River and Unsegmented estuaries in WBEMH Estuarine Bioassessments		5A	0.561		2006	L
	Estuarine Bioassessments		5A	2.164		2010	L
G15E-06-01-BAC Recreation	James River - King/Lincoln Park Beach Area Enterococcus	5A	0.009			2006	L
G15E-06-02-BAC Recreation	James River - Anderson Park Beach Area Enterococcus	5A	0.011			2012	L
G15E-06-04-BAC Recreation	Willoughby Bay - Beach Area Enterococcus	5A	0.142			2014	M
H01R-01-HG Fish Consumption	James River Mercury in Fish Tissue	5A			15.83	2010	L
H01R-02-BAC Recreation	James River Escherichia coli	5A			7.42	2014	L
H01R-03-BAC Recreation	James River Escherichia coli	5A			5.36	2016	L



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Category 5 - Waters needing Total Maximum Daily Load Study

James River Basin

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
H03R-01-BEN	Blackwater Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			10.54	2010	L
H03R-03-BEN	Ivy Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			21.44	2010	L
H03R-04-PCB	James River						
Fish Consumption	PCB in Fish Tissue	5A			10.74	2004	H
	PCB in Fish Tissue	5A			158.36	2006	H
	PCB in Fish Tissue	5A			3.89	2008	H
	PCB in Fish Tissue	5A			23.24	2008	H
	PCB in Fish Tissue	5A			3.05	2014	H
H03R-05-BEN	Burton Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			3.47	2010	L
H03R-06-BEN	Judith Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			11.08	2010	L
H03R-07-BEN	Tomahawk Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			6.06	2010	L
H05R-01-BAC	James River						
Recreation	Escherichia coli	5A			15.93	2010	L
H05R-03-BAC	Beaver Creek						
Recreation	Escherichia coli	5A			8.67	2004	H
H05R-06-BAC	Little Beaver Creek						
Recreation	Escherichia coli	5A			7.13	2010	L
H05R-08-BAC	Beck Creek						
Recreation	Escherichia coli	5A			6.28	2012	L
H05R-09-BAC	Partridge Creek						
Recreation	Escherichia coli	5A			10.40	2012	L
H05R-10-BAC	Archer Creek						
Recreation	Escherichia coli	5A			7.46	2016	L
H05R-11-BAC	Allens Creek						
Recreation	Escherichia coli	5A			7.18	2016	L
H08R-01-BAC	Dauids Creek						
Recreation	Escherichia coli	5A			5.18	2012	L
H09R-01-PH	Montebello Spring Branch						
Aquatic Life	pH	5A			0.13	2004	L
H09R-02-BEN	Hat Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			9.51	2012	H
H09R-04-BEN	Tye River						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			7.70	2012	H



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H09R-05-BEN Aquatic Life	Black Creek Benthic-Macroinvertebrate Bioassessments	5A			1.95	2014	H
H11L-01-DO Aquatic Life	Stonehouse Creek Reservoir Oxygen, Dissolved	5A		33.53		2008	L
H11L-01-PH Aquatic Life	Stonehouse Creek Reservoir pH	5A		33.53		2006	L
H11L-02-CHLA Aquatic Life	Thrashers Creek Reservoir Chlorophyll-a	5A		31.95		2014	L
H11L-02-PH Aquatic Life	Thrashers Creek Reservoir pH	5A		31.95		2006	L
H11L-03-PH Aquatic Life	Mill Creek Reservoir pH	5A		186.40		2014	L
H12R-01-BEN Aquatic Life	Rutledge Creek Benthic-Macroinvertebrate Bioassessments	5A			3.32	2010	L
H13L-01-DO Aquatic Life	Lake Nelson Oxygen, Dissolved	5A		40.62		2016	L
H14R-01-BEN Aquatic Life	Mallorys Creek Benthic-Macroinvertebrate Bioassessments	5A			8.75	2016	L
H14R-01-HG Fish Consumption	James River Mercury in Fish Tissue	5A			18.57	2010	L
H15R-03-BEN Aquatic Life	Taylor Creek Benthic-Macroinvertebrate Bioassessments	5A			4.99	2008	L
H16R-02-BAC Recreation	Beaver Creek Escherichia coli	5A			7.41	2012	L
H16R-03-BAC Recreation	Cove Creek Escherichia coli	5A			10.46	2012	L
H16R-04-BAC Recreation	Rockfish River Escherichia coli	5A			17.28	2012	L
H16R-05-BAC Recreation	Rockfish River UT Escherichia coli	5A			2.69	2016	L
H17L-01-DO Aquatic Life	Totier Creek Reservoir Oxygen, Dissolved	5A		37.23		2012	L
H17R-02-BAC Recreation	James River Escherichia coli	5A			18.69	2008	L
	James River Escherichia coli	5A			16.32	2012	L
H17R-05-BEN Aquatic Life	Totier Creek Benthic-Macroinvertebrate Bioassessments	5A			0.71	2006	L



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H20R-02-BAC Recreation	South Creek Escherichia coli	5A			6.66	2014	L
H21L-01-DO Aquatic Life	Troublesome Reservoir Oxygen, Dissolved	5A		52.68		2010	L
H21R-01-BEN Aquatic Life	Horsepen Creek Benthic-Macroinvertebrate Bioassessments	5A			5.86	2014	L
H21R-02-BEN Aquatic Life	Walton Fork Benthic-Macroinvertebrate Bioassessments	5A			2.99	2016	L
H23L-01-CHLA Aquatic Life	Lake Albemarle Chlorophyll-a	5A		37.01		2016	L
H23L-01-DO Aquatic Life	Lake Albemarle Oxygen, Dissolved	5A		37.01		2016	L
H23R-01-BEN Aquatic Life	Broad Axe Run Benthic-Macroinvertebrate Bioassessments	5A			8.31	2004	H
H23R-02-BEN Aquatic Life	Lickinghole Creek Benthic-Macroinvertebrate Bioassessments	5A			8.93	2010	H
H23R-03-BEN Aquatic Life	Mechums River Benthic-Macroinvertebrate Bioassessments	5A			15.16	2004	H
H23R-04-BEN Aquatic Life	Slabtown Branch Benthic-Macroinvertebrate Bioassessments	5A			4.92	2010	H
H23R-06-BEN Aquatic Life	Parrott Branch X-trib Benthic-Macroinvertebrate Bioassessments	5A			1.15	2010	H
H23R-07-BEN Aquatic Life	Spring Creek Benthic-Macroinvertebrate Bioassessments	5A			3.48	2012	H
H23R-08-BAC Recreation	Stockton Creek Escherichia coli	5A			12.06	2014	L
H24R-01-TEMP Aquatic Life	Moormans River North Fork/Pond Ridge Branch Temperature, water	5A			21.10	2014	L
H24R-02-BEN Aquatic Life	X-trib to Doyles River Benthic-Macroinvertebrate Bioassessments	5A			4.74	2012	H
H25R-01-BAC Recreation	Buck Mountain Creek Escherichia coli	5A			10.59	2010	L
H25R-02-BEN Aquatic Life	Piney Creek X-trib Benthic-Macroinvertebrate Bioassessments	5A			3.22	2012	H
H26R-01-BAC Recreation	Ivy Creek Escherichia coli	5A			9.51	2014	H
H26R-02-PH Aquatic Life	Ivy Creek pH	5A			5.49	2006	L



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H26R-03-BEN	Ivy Creek							
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			6.58	2008	H	
	Benthic-Macroinvertebrate Bioassessments	5A			5.49	2010	H	
H26R-04-BEN	South Fork Rivanna River							
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			3.47	2010	H	
H26R-05-BEN	Powell Creek							
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			10.36	2010	H	
H26R-06-BEN	Naked Creek							
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			9.82	2010	H	
H26R-07-BEN	South Fork Rivanna River X-trib							
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			3.20	2010	H	
H26R-08-BEN	Fishing Creek							
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			12.53	2012	H	
H26R-09-BEN	Little Ivy Creek X-trib							
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			4.44	2016	L	
H27R-01-BEN	Flat Branch X-trib							
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			2.03	2010	H	
H27R-02-BAC	Swift Run	Escherichia coli	5A			1.91	2010	H
H27R-02-BEN	Swift Run							
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			1.91	2012	H, 2yr	
H27R-03-BEN	Preddy Creek North Branch							
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			6.24	2010	H, 2yr	
H27R-05-BEN	Marsh Run							
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			3.65	2010	H	
H27R-06-BEN	Blue Run							
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			8.72	2012	H	
H27R-07-BEN	Stanardsville Run							
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			5.70	2014	H	
H27R-08-BEN	Preddy Creek							
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			7.48	2016	L	
H27R-09-BEN	North Fork Rivanna River							
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			7.33	2016	L	
H27R-10-BEN	Quarter Creek							
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			1.58	2016	L	
H28R-02-BEN	Moores Creek							
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			6.32	2008	H	



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H28R-04-BEN Aquatic Life	Moores Creek X-trib Benthic-Macroinvertebrate Bioassessments	5A			1.66	2006	H
H28R-05-BEN Aquatic Life	Meadow Creek Benthic-Macroinvertebrate Bioassessments	5A			4.98	2006	H
H28R-07-BAC Recreation	Schenks Branch Escherichia coli	5A			2.91	2010	L
H28R-07-BEN Aquatic Life	Schenks Branch Benthic-Macroinvertebrate Bioassessments	5A			2.91	2008	H
H28R-08-BEN Aquatic Life	Biscuit Run Benthic-Macroinvertebrate Bioassessments	5A			6.59	2010	L
H28R-09-BEN Aquatic Life	Morey Creek Benthic-Macroinvertebrate Bioassessments	5A			2.93	2010	L
H28R-10-BEN Aquatic Life	Town Branch Benthic-Macroinvertebrate Bioassessments	5A			1.19	2010	L
H28R-11-BEN Aquatic Life	Meadow Creek X-trib Benthic-Macroinvertebrate Bioassessments	5A			1.78	2010	L
H28R-12-BEN Aquatic Life	X-trib to Moores Creek Benthic-Macroinvertebrate Bioassessments	5A			2.23	2012	L
H29R-03-BAC Recreation	Buck Island Creek Escherichia coli	5A			9.16	2008	L
H29R-03-BEN Aquatic Life	Buck Island Creek Benthic-Macroinvertebrate Bioassessments	5A			2.65	2010	L
H29R-04-BEN Aquatic Life	Carroll Creek Benthic-Macroinvertebrate Bioassessments	5A			18.45	2010	L
H30R-01-BEN Aquatic Life	Mechunk Creek Benthic-Macroinvertebrate Bioassessments	5A			12.60	2012	L
H30R-02-BEN Aquatic Life	East Prong Beaverdam Creek Benthic-Macroinvertebrate Bioassessments	5A			4.69	2012	L
H30R-03-BEN Aquatic Life	Jacks Branch Benthic-Macroinvertebrate Bioassessments	5A			7.16	2012	L
H31R-02-BEN Aquatic Life	Carys Creek Benthic-Macroinvertebrate Bioassessments	5A			1.79	2010	L
H31R-03-BEN Aquatic Life	X-trib to Boston Creek Benthic-Macroinvertebrate Bioassessments	5A			2.29	2010	L
H31R-04-BEN Aquatic Life	X-trib to Rivanna River Benthic-Macroinvertebrate Bioassessments	5A			1.00	2010	L
H31R-05-BAC Recreation	Rivanna River Escherichia coli	5A			8.38	2016	L



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H32L-01-DO Aquatic Life	Fluvanna Ruritan Lake Oxygen, Dissolved	5A		51.13		2012	L
H32R-01-BEN Aquatic Life	Middle Fork Cunningham Creek Benthic-Macroinvertebrate Bioassessments	5C			4.02	2004	H, 2yr
H32R-02-BAC Recreation	Middle Fork Cunningham Creek Escherichia coli	5A			3.40	2006	H, 2yr
	Escherichia coli	5A			4.02	2008	H, 2yr
H32R-02-BEN Aquatic Life	Middle Fork Cunningham Creek Benthic-Macroinvertebrate Bioassessments	5A			3.40	2010	H, 2yr
H32R-03-BAC Recreation	Middle Fork Cunningham Creek X-trib Escherichia coli	5A			3.77	2008	H, 2yr
H32R-04-BEN Aquatic Life	X-trib to North Fork Cunningham Creek Benthic-Macroinvertebrate Bioassessments	5A			0.59	2010	L
H32R-05-BEN Aquatic Life	Cunningham Creek North Fork Benthic-Macroinvertebrate Bioassessments	5A			4.18	2012	L
H32R-06-BEN Aquatic Life	Cunningham Creek Benthic-Macroinvertebrate Bioassessments	5A			5.62	2012	L
H33L-01-CHLA Aquatic Life	Powhatan Lake Chlorophyll-a	5A		61.36		2014	L
H33L-01-DO Aquatic Life	Powhatan Lake Oxygen, Dissolved	5A		61.36		2012	L
H33R-02-DO Aquatic Life	Deep Creek Oxygen, Dissolved	5C			0.37	2008	L
H34R-04-BEN Aquatic Life	Phils Creek Benthic-Macroinvertebrate Bioassessments	5A			6.69	2016	L
H36R-02-BEN Aquatic Life	Randolph Creek Benthic-Macroinvertebrate Bioassessments	5A			11.80	2008	L
H36R-03-BEN Aquatic Life	Buffalo Creek Benthic-Macroinvertebrate Bioassessments	5A			7.10	2016	L
H36R-05-BEN Aquatic Life	Reynolds Creek Benthic-Macroinvertebrate Bioassessments	5A			6.84	2014	L
H36R-06-BEN Aquatic Life	Bigger Creek Benthic-Macroinvertebrate Bioassessments	5A			4.43	2016	L
H38R-01-PH Aquatic Life	Little Creek pH	5C			0.65	2012	L
H38R-07-DO Aquatic Life	Branch Creek Oxygen, Dissolved	5C			5.51	2008	L



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H39R-01-PH Aquatic Life	Broad Branch pH	5A			2.63	2006	L
H39R-05-BEN Aquatic Life	Powhite Creek Benthic-Macroinvertebrate Bioassessments	5A			8.13	2008	L
H39R-06-PH Aquatic Life	Reedy Creek pH	5A			0.35	2010	L
H39R-07-DO Aquatic Life	XZE - James River, UT Oxygen, Dissolved	5A			1.30	2010	L
H39R-08-DO Aquatic Life	XAB - Salles Creek, UT Oxygen, Dissolved	5A			0.10	2010	L
H39R-08-PH Aquatic Life	XAB - Salles Creek, UT pH	5A			0.10	2010	L
H39R-09-DO Aquatic Life	James River - South Channel Oxygen, Dissolved	5A			0.94	2012	L
H39R-10-DO Aquatic Life	Bernards Creek Oxygen, Dissolved	5A			8.12	2014	L
H39R-11-HG Fish Consumption	James River Mercury in Fish Tissue	5A			4.37	2010	L
H39R-13-BEN Aquatic Life	Stony Run Benthic-Macroinvertebrate Bioassessments	5A			1.01	2008	M
H39R-14-BEN Aquatic Life	Jones Creek Benthic-Macroinvertebrate Bioassessments	5A			8.19	2008	L
H39R-15-BEN Aquatic Life	Stony Run, UT (XYT) Benthic-Macroinvertebrate Bioassessments	5A			1.27	2008	M
H39R-16-HG Fish Consumption	James River Mercury in Fish Tissue	5A			3.88	2010	L
H39R-17-CDANE Fish Consumption	James River Chlordane	5A			3.88	2010	L
H39R-17-DDE Fish Consumption	James River DDE	5A			3.88	2010	L
H39R-17-DDT Fish Consumption	James River DDT	5A			3.88	2010	L
H39R-19-DO Aquatic Life	Deep Run Oxygen, Dissolved	5C			1.49	2012	L
H39R-24-DO Aquatic Life	Little Tuckahoe Creek Oxygen, Dissolved	5C			6.02	2014	L
H39R-27-BEN Aquatic Life	Deep Run Benthic-Macroinvertebrate Bioassessments	5A			4.16	2016	L



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H39R-28-BEN	Stony Run							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			1.35	2016	L
H39R-29-DO	XBH - Reedy Creek, UT							
Aquatic Life		Oxygen, Dissolved	5A			0.11	2016	L
I01R-01-TEMP	Jackson River							
Aquatic Life		Temperature, water	5C			13.49	2004	L
		Temperature, water	5C			15.37	2010	L
I01R-02-TEMP	Bolar Run							
Aquatic Life		Temperature, water	5C			2.09	2006	L
I02R-02-BAC	Back Creek							
Recreation		Escherichia coli	5A			15.05	2010	L
I04R-01-BAC	Falling Spring							
Recreation		Escherichia coli	5A			5.10	2008	H
I09R-01-BAC	Smith Creek							
Recreation		Fecal Coliform	5A			1.21	2004	H
I09R-01-DO	Jackson River							
Aquatic Life		Oxygen, Dissolved	5A			11.36	1996	H
I09R-01-PCB	Jackson River							
Fish Consumption		PCB in Fish Tissue	5A			12.63	2008	L
I09R-02-BAC	Jackson River							
Recreation		Escherichia coli	5A			3.40	2008	H
		Escherichia coli	5A			9.23	2010	H
I09R-02-TEMP	Wilson Creek							
Aquatic Life		Temperature, water	5C			6.74	2004	L
I10R-01-TEMP	Potts Creek							
Aquatic Life		Temperature, water	5C			5.66	2006	L
I12R-01-BAC	Cowpasture River							
Recreation		Escherichia coli	5A			8.30	2016	L
I13R-01-BAC	Bullpasture River							
Recreation		Escherichia coli	5A			11.94	2006	H, 2yr
I13R-02-TEMP	Bullpasture River							
Aquatic Life		Temperature, water	5A			24.56	2012	L
I14R-04-PH	Laurel Run							
Aquatic Life		pH	5A			2.03	2006	L
I16R-01-PH	Porters Mill Creek							
Aquatic Life		pH	5A			4.85	2006	L
I18R-01-BAC	James River							
Recreation		Escherichia coli	5A			7.63	2014	H, 2yr



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I18R-03-BAC Recreation	Sinking Creek Escherichia coli	5A			6.42	2014	H, 2yr
I19R-01-BAC Recreation	Craig Creek Escherichia coli	5A			7.90	2004	H, 2yr
I22R-01-BAC Recreation	Barbours Creek Fecal Coliform	5A			7.15	2004	H, 2yr
I22R-01-PH Aquatic Life	Mill Creek pH	5A			4.24	2012	L
I22R-01-TEMP Aquatic Life	Barbours Creek Temperature, water	5C			7.15	2002	L
I22R-02-BAC Recreation	Craig Creek Escherichia coli	5A			11.43	2012	H, 2yr
I22R-04-BAC Recreation	Little Patterson Creek Escherichia coli	5A			4.24	2012	H, 2yr
I22R-05-BAC Recreation	Craig Creek Escherichia coli Escherichia coli	5A 5A			10.70 16.86	2016 2016	L L
I24R-01-BAC Recreation	Lapsley Run Escherichia coli	5A			9.01	2008	H, 2yr
I25R-01-BAC Recreation	Catawba Creek Escherichia coli	5A			13.46	2010	H, 2yr
I25R-01-BEN Aquatic Life	Catawba Creek Benthic-Macroinvertebrate Bioassessments	5A			3.23	2008	H, 2yr
I26R-01-BEN Aquatic Life	Mill Creek, UT (XUL) Benthic-Macroinvertebrate Bioassessments	5A			5.37	2010	L
I27R-01-BAC Recreation	James River Escherichia coli Escherichia coli	5A 5A			7.15 9.52	2014 2016	L L
I28R-02-BAC Recreation	Elk Creek Escherichia coli	5A			3.98	2014	L
I29R-01-TEMP Aquatic Life	Ramseys Draft Temperature, water	5A			10.29	2016	L
I30R-01-BAC Recreation	Calfpasture River Escherichia coli	5A			2.83	2006	L
I30R-03-BAC Recreation	Hamilton Branch Escherichia coli	5A			6.28	2016	L
I30R-03-PH Aquatic Life	Piney Branch pH	5A			2.33	2006	L



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I32R-03-BAC	Little Calfpasture River						
Recreation	Fecal Coliform	5A			12.35	2004	L
	Escherichia coli	5A			12.35	2010	L
I33R-01-BAC	Cedar Grove Branch						
Recreation	Fecal Coliform	5A			4.62	2004	L
	Escherichia coli	5A			4.62	2008	L
I33R-03-BAC	Kerrs Creek						
Recreation	Escherichia coli	5A			11.86	2012	L
I35R-02-BAC	Mill Creek						
Recreation	Fecal Coliform	5A			9.13	2006	L
	Escherichia coli	5A			9.13	2008	L
I35R-02-BEN	Mill Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			9.13	2016	L
I35R-03-BAC	Woods Creek						
Recreation	Escherichia coli	5A			6.05	2012	H
I35R-03-BEN	Woods Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			6.05	2008	H
I36R-02-BEN	Moore's Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			9.09	2006	L
I36R-03-PH	Saint Marys River						
Aquatic Life	pH	5A			1.97	2006	L
I36R-03-TEMP	Saint Marys River						
Aquatic Life	Temperature, water	5A			1.97	2010	L
I36R-05-BEN	Marl Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			7.74	2012	L
I36R-06-BAC	South River						
Recreation	Escherichia coli	5A			7.95	2012	L
I37R-02-PCB	Maury River						
Fish Consumption	PCB in Fish Tissue	5A			4.58	2004	H
	PCB in Fish Tissue	5A			12.34	2006	H
I37R-03-BAC	Poague Run						
Recreation	Escherichia coli	5A			17.12	2014	L
I38L-01-PH	Lexington Reservoir						
Aquatic Life	pH	5A		22.60		2010	L
J01R-02-BEN	Horsepen Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			4.00	2016	L
J01R-09-BEN	Crane Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			5.18	2010	M, 2yr



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J03R-06-BEN Aquatic Life	Sandy River Benthic-Macroinvertebrate Bioassessments	5A			4.08	2014	L
J04R-01-BEN Aquatic Life	Bush River Benthic-Macroinvertebrate Bioassessments	5A			11.48	2010	L
J04R-02-BEN Aquatic Life	Mountain Creek Benthic-Macroinvertebrate Bioassessments	5A			8.97	2010	M, 2yr
J05R-01-BEN Aquatic Life	Briery Creek Benthic-Macroinvertebrate Bioassessments	5A			10.48	2008	M, 2yr
J05R-03-BEN Aquatic Life	Rice Creek Benthic-Macroinvertebrate Bioassessments	5A			4.59	2014	L
J06R-03-BEN Aquatic Life	Horsepen Creek Benthic-Macroinvertebrate Bioassessments	5A			3.99	2014	L
J07L-01-PH Aquatic Life	Amelia Lake pH	5C		98.31		2014	L
J09R-04-BEN Aquatic Life	Nibbs Creek South Branch Benthic-Macroinvertebrate Bioassessments	5A			5.86	2014	L
J10R-01-BEN Aquatic Life	UT to Appomattox River Benthic-Macroinvertebrate Bioassessments	5A			1.49	2008	L
J10R-02-DO Aquatic Life	Goodes Creek Oxygen, Dissolved	5C			2.91	2010	L
J10R-03-DO Aquatic Life	Smacks Creek Oxygen, Dissolved	5C			9.06	2012	L
J11R-03-DO Aquatic Life	Bland Creek Oxygen, Dissolved	5C			6.51	2010	L
J11R-04-DO Aquatic Life	Cellar Creek Oxygen, Dissolved	5C			2.70	2012	L
J11R-05-DO Aquatic Life	Woody Creek Oxygen, Dissolved	5C			7.97	2014	L
J12R-01-BEN Aquatic Life	Winticomack Creek Benthic-Macroinvertebrate Bioassessments	5A			4.07	2010	L
J12R-06-PH Aquatic Life	Horsepen Branch pH	5C			4.44	2006	L
J13R-01-DO Aquatic Life	Namozine Creek Oxygen, Dissolved	5C			12.91	2016	L
J14R-02-PH Aquatic Life	Stoney Creek pH	5C			2.59	2010	L
J14R-03-DO Aquatic Life	Whipponock Creek Oxygen, Dissolved	5C			6.82	2016	L



2016 Impaired Waters - 303(d) List

Category 5 - Waters needing Total Maximum Daily Load Study

James River Basin

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
J15E-01-EBTOX	Appomattox River						
Aquatic Life	Sediment Bioassays for Estuarine and Marine Water	5A	0.113			2010	L
	Sediment Bioassays for Estuarine and Marine Water	5A	1.361			2012	L
J15R-01-BEN	Appomattox River						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			5.57	2012	L
J15R-02-BEN	Oldtown Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			4.22	2010	M
J15R-05-BEN	Rohoic Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			13.45	2012	L
J15R-08-PH	Oldtown Creek						
Aquatic Life	pH	5C			6.22	2010	L
J16R-02-DO	Blackman Creek						
Aquatic Life	Oxygen, Dissolved	5C			4.56	2004	L
J17L-01-DO	Swift Creek Lake						
Aquatic Life	Oxygen, Dissolved	5A		107.74		2006	L
J17R-01-BEN	Swift Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			7.25	2010	L
J17R-01-DO	Swift Creek						
Aquatic Life	Oxygen, Dissolved	5A			7.25	2002	L
J17R-05-PH	Church Branch						
Aquatic Life	pH	5C			2.64	2010	L
J17R-06-BEN	Nuttree Branch						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			5.58	2012	L
J17R-06-DO	Nuttree Branch						
Aquatic Life	Oxygen, Dissolved	5C			5.58	2010	L
J17R-06-PH	Nuttree Branch						
Aquatic Life	pH	5C			5.58	2010	L
J17R-07-PH	Second Branch						
Aquatic Life	pH	5C			6.22	2010	L
J17R-08-DO	Swift Creek						
Aquatic Life	Oxygen, Dissolved	5A			3.78	2010	L
J17R-09-BEN	Swift Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			2.88	2010	L
J17R-11-DO	Long Swamp						
Aquatic Life	Oxygen, Dissolved	5C			3.72	2016	L
J17R-11-PH	Long Swamp						
Aquatic Life	pH	5C			3.72	2010	L



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Category 5 - Waters needing Total Maximum Daily Load Study

James River Basin

Cause Group Code	Water Name	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Impaired Use	Cause						

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) = formal EPA priority to be addressed with a plan by 2022; M (Medium) = DEQ priority that may be addressed with a plan by 2022; or L (Low) = not prioritized to be addressed with a plan by 2022. Within the H or M priority there may be "2yr" noted which means the priority is to be addressed within the two next years.

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Category 5 - Waters needing Total Maximum Daily Load Study

Rappahannock River Basin

Cause Group Code	Water Name	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
E01R-01-BEN	Thumb Run, East Branch							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			6.59	2012	L
E01R-02-BEN	Unnamed Tributary to Thumb Run, West Branch							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			0.80	2014	L
E02R-01-BEN	Great Run							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			4.38	2010	L
		Benthic-Macroinvertebrate Bioassessments	5A			2.81	2012	L
E03R-01-TEMP	Hughes River							
Aquatic Life		Temperature, water	5A			3.20	2008	L
E04R-01-TEMP	Hazel River							
Aquatic Life		Temperature, water	5A			3.63	2016	L
E05R-01-BEN	Thornton River							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			0.86	2010	L
E08R-01-BEN	Marsh Run							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			6.01	2012	L
E09R-01-BEN	Mountain Run							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			19.90	2008	M
E09R-01-PCB	Mountain Run							
Fish Consumption		PCB in Fish Tissue	5A			19.90	2006	H, 2yr
E09R-02-BEN	Jonas Run							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			3.78	2012	M
E09R-02-PCB	Mountain Run							
Fish Consumption		PCB in Fish Tissue	5A			4.63	2016	L
E10R-01-BEN	Sumerduck Run							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			1.85	2012	M
E10R-04-BAC	Sumerduck Run							
Recreation		Escherichia coli	5A			1.85	2016	L
E11R-01-BEN	Conway River							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			2.98	2010	L
E12R-01-BEN	Rippin Run							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			0.60	2012	L
E13R-01-BEN	Beautiful Run							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			2.50	2012	L
E14R-01-TEMP	Robinson River							
Aquatic Life		Temperature, water	5A			3.00	2004	L
E14R-02-TEMP	Rose River							
Aquatic Life		Temperature, water	5A			2.58	2006	L



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Category 5 - Waters needing Total Maximum Daily Load Study

Rappahannock River Basin

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
E17R-01-BEN Aquatic Life	Brook Run Benthic-Macroinvertebrate Bioassessments	5A			2.51	2012	L
E18R-01-HG Fish Consumption	Rapidan River Mercury in Fish Tissue	5A			9.79	2010	L
E19L-01-HG Fish Consumption	Motts Run Reservoir Mercury in Fish Tissue	5A		137.17		2008	L
E19R-01-BAC Recreation	Horsepen Run Escherichia coli	5A			5.70	2014	L
E19R-02-BAC Recreation	Mine Run Escherichia coli	5A			4.01	2014	L
E20E-03-PCB Fish Consumption	Rappahannock River PCB in Fish Tissue PCB in Fish Tissue PCB in Fish Tissue PCB in Fish Tissue	5A 5A 5A 5A	0.139 3.782 124.983 0.042			2002 2004 2006 2008	L L L L
E20R-01-BEN Aquatic Life	Falls Run Benthic-Macroinvertebrate Bioassessments	5A			7.35	2012	L
E20R-02-BEN Aquatic Life	Hazel Run Benthic-Macroinvertebrate Bioassessments	5A			4.72	2012	L
E20R-03-BEN Aquatic Life	Little Falls Run Benthic-Macroinvertebrate Bioassessments	5A			4.92	2016	L
E20R-03-PH Aquatic Life	Massaponax Creek pH	5A			5.19	2006	L
E20R-04-PH Aquatic Life	Deep Run pH	5A			1.56	2012	L
E20R-05-PH Aquatic Life	Unnamed tributary to Massaponax Creek pH	5A			1.27	2016	L
E21R-01-BEN Aquatic Life	Muddy Creek Benthic-Macroinvertebrate Bioassessments	5A			3.58	2010	L
E21R-02-BEN Aquatic Life	Ware Creek Benthic-Macroinvertebrate Bioassessments	5A			3.06	2008	L
E21R-02-PH Aquatic Life	Ware Creek pH pH	5C 5C			3.06 4.50	2004 2008	L L
E21R-03-BAC Recreation	Gingoteague Creek Escherichia coli	5A			1.49	2008	L
E21R-03-BEN Aquatic Life	Gingoteague Creek Benthic-Macroinvertebrate Bioassessments	5A			1.49	2012	L



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Category 5 - Waters needing Total Maximum Daily Load Study

Rappahannock River Basin

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
E21R-03-PH Aquatic Life	Gingoteague Creek pH	5C			1.49	2008	L
E21R-04-BEN Aquatic Life	Mill Creek Benthic-Macroinvertebrate Bioassessments	5A			3.59	2008	L
E21R-05-BEN Aquatic Life	White Oak Run Benthic-Macroinvertebrate Bioassessments	5A			6.51	2014	L
E21R-05-PH Aquatic Life	Mount Creek pH	5C			4.46	2008	L
E21R-07-BAC Recreation	Mill Creek Escherichia coli	5A			4.58	2008	L
E21R-07-PH Aquatic Life	Mill Creek pH	5C			4.58	2008	L
E21R-08-PH Aquatic Life	Goldenvale Creek pH	5C			5.31	2008	L
E21R-09-PH Aquatic Life	Hugh Run pH	5C			2.45	2010	L
E21R-10-BAC Recreation	Jetts Creek Escherichia coli	5A			1.85	2010	L
E21R-10-PH Aquatic Life	White Oak Run pH	5C			6.51	2014	L
E21R-11-BAC Recreation	Portobago Creek Escherichia coli	5A			7.00	2010	L
E21R-11-DO Aquatic Life	Portobago Creek Oxygen, Dissolved	5C			7.00	2010	L
E22E-01-EBEN Aquatic Life	Rappahannock River Estuarine Bioassessments	5A	6.302			2010	L
E22E-02-EBEN Aquatic Life	Rappahannock River Estuarine Bioassessments	5A	110.178			2006	L
	Estuarine Bioassessments	5A	0.014			2008	L
	Estuarine Bioassessments	5A	0.028			2008	L
E22E-03-BAC Recreation	Peedee Creek Enterococcus	5A	0.150			2014	L
E22E-05-BAC Recreation	Rappahannock River Enterococcus	5A	1.344			2014	L
E22E-08-CHLR Aquatic Life Wildlife	Rappahannock River Chloride	5C	5.133			2004	L
	Chloride	5C	5.133			2004	L



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Rappahannock River Basin

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
E22R-02-DO Aquatic Life	Farmers Hall Creek Oxygen, Dissolved	5C			4.00	2012	L
E22R-02-PH Aquatic Life	Farmers Hall Creek pH	5C			4.00	2006	L
E22R-03-MIREX Aquatic Life Wildlife	Occupacia Creek and Tributaries Mirex Mirex	5A 5A			74.69 74.69	2010 2010	L L
E22R-04-BAC Recreation	Elmwood Creek and Tributary XHY Escherichia coli	5A			9.07	2014	M, 2yr
E22R-04-DO Aquatic Life	Elmwood Creek and Tributary XHY Oxygen, Dissolved	5C			9.07	2014	L
E22R-04-PH Aquatic Life	Elmwood Creek and Tributary XHY pH	5C			9.07	2006	L
E22R-05-BAC Recreation	Baylors Creek Escherichia coli	5A			5.89	2008	M, 2yr
E22R-05-PH Aquatic Life	Baylors Creek pH	5C			5.89	2008	L
E22R-06-BAC Recreation	Peedee Creek Escherichia coli	5A			3.29	2008	L
E22R-06-DO Aquatic Life	Peedee Creek Oxygen, Dissolved	5C			3.29	2010	L
E22R-06-PH Aquatic Life	Peedee Creek pH	5C			3.29	2008	L
E22R-08-BAC Recreation	Stillwater Creek Escherichia coli	5A			3.52	2014	M, 2yr
E22R-08-DO Aquatic Life	Stillwater Creek Oxygen, Dissolved	5C			3.52	2014	L
E22R-08-PH Aquatic Life	Stillwater Creek pH	5C			3.52	2014	L
E22R-09-BAC Recreation	XHW - UT to Peedee Creek, UT (XHV) Escherichia coli	5A			0.47	2014	L
E22R-10-PH Aquatic Life	Mill Swamp pH	5C			0.72	2014	L
E22R-11-DO Aquatic Life	Smoots Mill Run, UT Oxygen, Dissolved	5C			1.67	2014	L
E22R-11-PH Aquatic Life	Smoots Mill Run, UT pH	5C			1.67	2014	L



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Category 5 - Waters needing Total Maximum Daily Load Study

Rappahannock River Basin

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
E23L-01-HG Fish Consumption	Chandlers Millpond Mercury in Fish Tissue	5A		47.99		2008	L
E23R-04-DO Aquatic Life	Hoskins Creek Oxygen, Dissolved	5C			13.16	2014	L
E23R-07-BEN Aquatic Life	Ruin Branch Benthic-Macroinvertebrate Bioassessments	5A			2.53	2014	L
E23R-12-DO Aquatic Life	Mussell Swamp Oxygen, Dissolved	5C			5.13	2006	L
E23R-16-BEN Aquatic Life	Church Swamp Benthic-Macroinvertebrate Bioassessments	5A			3.24	2008	L
E23R-20-DO Aquatic Life	Scates Millstream Oxygen, Dissolved	5C			2.89	2014	L
E23R-20-PH Aquatic Life	Scates Millstream pH	5C			2.89	2014	L
E24E-02-EBTOX Aquatic Life	Totuskey Creek Sediment Bioassays for Estuarine and Marine Water	5A	1.068			2006	L
E24E-05-PH Aquatic Life	Little Totuskey Creek pH	5C	0.055			2012	L
E24R-01-DO Aquatic Life	Bookers Mill Stream Oxygen, Dissolved	5C			6.53	2012	L
E24R-03-PH Aquatic Life	Muddy Gut pH	5C			2.63	2008	L
E24R-05-PH Aquatic Life	Branham Mill Swamp pH	5C			3.66	2012	L
E24R-06-DO Aquatic Life	Richardson Creek and Tributaries Oxygen, Dissolved	5C			17.21	2012	L
E24R-06-PH Aquatic Life	Richardson Creek and Tributaries pH	5C			17.21	2012	L
E24R-08-PH Aquatic Life	XHL - Bookers Mill Stream, UT pH	5C			2.01	2012	L
E24R-09-DO Aquatic Life	Marshy Swamp Oxygen, Dissolved	5C			9.53	2012	L
E25R-02-DO Aquatic Life	Lagrange Creek Oxygen, Dissolved	5C			2.49	2010	L
E25R-04-DO Aquatic Life	South Branch Lagrange Creek Oxygen, Dissolved	5A			0.40	2012	L



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Rappahannock River Basin

Cause Group Code	Water Name	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Impaired Use	Cause						
E25R-17-DO	Masons Mill Swamp						
Aquatic Life	Oxygen, Dissolved	5C			3.37	2008	L
E26E-04-EBEN	Corrotoman River						
Aquatic Life	Estuarine Bioassessments	5A	6.954			2014	L
E26E-24-BAC	Whiting Creek						
Recreation	Enterococcus	5A	0.195			2012	L
E26R-03-DO	Norris Prong						
Aquatic Life	Oxygen, Dissolved	5C			2.47	2008	L
E26R-04-DO	Browns Creek						
Aquatic Life	Oxygen, Dissolved	5C			2.58	2008	L

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

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Category 5 - Waters needing Total Maximum Daily Load Study

Roanoke and Yadkin River Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
L01R-01-TEMP	Roanoke River, South Fork						
Aquatic Life	Temperature, water	5C			6.27	2004	L
	Temperature, water	5C			6.43	2010	L
	Temperature, water	5C			4.61	2012	L
L01R-02-TEMP	Bottom Creek						
Aquatic Life	Temperature, water	5C			4.49	2008	L
L02R-01-PH	Bradshaw Creek						
Aquatic Life	pH	5C			10.36	2010	L
L03R-01-TEMP	Roanoke River						
Aquatic Life	Temperature, water	5C			13.09	2002	L
L04R-01-HG	Roanoke River						
Fish Consumption	Mercury in Fish Tissue	5A			10.28	2010	L
L04R-03-BEN	Roanoke River						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			3.16	2008	H, 2yr
L05R-01-BEN	Tinker Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			5.37	2010	H, 2yr
L05R-01-TEMP	Tinker Creek						
Aquatic Life	Temperature, water	5C			11.87	2002	L
L05R-02-BEN	Deer Branch						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			1.38	2014	H, 2yr
L06R-01-BEN	Back Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			6.92	2014	H, 2yr
L07L-01-PH	Beaverdam Reservoir						
Aquatic Life	pH	5C		66.93		2012	L
L07R-01-BEN	Beaverdam Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			10.33	2010	M
L07R-02-BEN	Merriman Run, UT (XUO)						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			0.88	2010	M
L08R-01-TEMP	Green Creek						
Aquatic Life	Temperature, water	5C			4.09	2012	L
L08R-02-TEMP	Blackwater River, South Fork						
Aquatic Life	Temperature, water	5C			6.20	2016	L
L08R-05-BEN	Little Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			7.85	2002	M
L08R-06-BEN	Teels Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			4.76	2002	M
L08R-07-BEN	Buck Run						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			3.77	2008	M



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Roanoke and Yadkin River Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
L09R-01-BEN Aquatic Life	Maggodee Creek Benthic-Macroinvertebrate Bioassessments	5A			7.47	2002	M
L09R-01-TEMP Aquatic Life	Maggodee Creek Temperature, water	5C			4.43	2008	L
L09R-02-BEN Aquatic Life	Maggodee Creek Benthic-Macroinvertebrate Bioassessments	5A			5.42	2016	L
L10L-01-HG Fish Consumption	Blackwater River Mercury in Fish Tissue	5A		524.78	8.21	2010	L
L10L-05-BAC Recreation	Smith Mountain Lake - Crazy Horse Camp Ground Escherichia coli	5A		30.27		2004	L
L10R-01-BEN Aquatic Life	Blackwater River Benthic-Macroinvertebrate Bioassessments	5A			8.21	2008	M
L11R-01-BEN Aquatic Life	North Fork Gills Creek, UT (XML) Benthic-Macroinvertebrate Bioassessments	5A			1.43	2008	M
L12L-01-HG Fish Consumption	Smith Mountain Lake Mercury in Fish Tissue	5A		6,480.10		2010	L
L12R-01-BAC Recreation	Craddock Creek (XME) Escherichia coli	5A			1.23	2012	M
L14R-01-BEN Aquatic Life	Pigg River Benthic-Macroinvertebrate Bioassessments	5A			4.43	2012	M
L14R-02-BEN Aquatic Life	Storey Creek Benthic-Macroinvertebrate Bioassessments	5A			9.82	2016	L
L17R-01-BEN Aquatic Life	Poplar Branch Benthic-Macroinvertebrate Bioassessments	5A			2.56	2008	M
L18R-01-BEN Aquatic Life	Fryingpan Creek Benthic-Macroinvertebrate Bioassessments	5A			2.56	2006	M
L19R-01-HG Fish Consumption	Roanoke (Staunton) River, Cub Creek, Kerr Reservoir Mercury in Fish Tissue	5A		31,884.59	102.09	2008	L
L19R-02-BEN Aquatic Life	Lynch Creek Benthic-Macroinvertebrate Bioassessments	5A			3.90	2010	M
L19R-03-BEN Aquatic Life	Reed Creek Benthic-Macroinvertebrate Bioassessments	5A			8.90	2010	M
L19R-04-BEN Aquatic Life	Roanoke (Staunton) River, Unnamed tributary Benthic-Macroinvertebrate Bioassessments	5A			4.10	2010	M
L21R-01-BEN Aquatic Life	Wolf Creek Benthic-Macroinvertebrate Bioassessments	5A			7.13	2012	M
L21R-02-BEN Aquatic Life	Bore Auger Creek Benthic-Macroinvertebrate Bioassessments	5A			9.56	2014	M



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Roanoke and Yadkin River Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
L26R-01-BEN	Little Otter River						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			5.90	2002	L
	Benthic-Macroinvertebrate Bioassessments	5A			7.44	2008	L
	Benthic-Macroinvertebrate Bioassessments	5A			8.71	2010	L
L26R-01-HG	Little Otter River						
Fish Consumption	Mercury in Fish Tissue	5A			14.61	2010	L
L26R-02-BEN	Johns Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			2.24	2002	L
L26R-03-BEN	Wells Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			3.93	2008	L
L29R-01-BEN	Flat Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			8.21	2010	L
L31R-01-BEN	East Little Seneca Creek, Unnamed Tributary						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			1.50	2008	L
L34R-04-PH	Entry Creek						
Aquatic Life	pH	5A			4.73	2008	L
L34R-07-BEN	Entry Creek, Unnamed Tributary						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			1.69	2012	L
L35R-01-BEN	Mollys Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			1.99	2010	L
L36R-04-BEN	Armistead Branch						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			3.20	2014	L
L38L-01-DO	Conner Lake						
Aquatic Life	Oxygen, Dissolved	5A		101.92		2016	L
L38L-01-HG	Conner Lake						
Fish Consumption	Mercury in Fish Tissue	5A		101.92		2010	L
L39R-03-BEN	Horsepen Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			5.32	2008	M
L39R-05-HG	Roanoke Creek						
Fish Consumption	Mercury in Fish Tissue	5A			10.50	2010	L
L39R-07-BEN	Little Roanoke Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			10.15	2010	M
L39R-08-BEN	Bush Ford Branch						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			3.09	2010	M
L39R-09-BEN	UT, Spencer Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			2.90	2014	M
L40R-01-BEN	Berles Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			2.28	2016	L



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Roanoke and Yadkin River Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
L40R-06-BEN Aquatic Life	Buffalo Creek Benthic-Macroinvertebrate Bioassessments	5A			2.35	2014	L
L42L-01-HG Fish Consumption	Talbott Reservoir Mercury in Fish Tissue	5A		140.51		2010	L
L42R-01-TEMP Aquatic Life	Dan River Temperature, water	5C			9.66	2002	L
	Temperature, water	5C			5.81	2008	L
L43R-01-TEMP Aquatic Life	South Mayo River Temperature, water	5C			4.73	2010	L
L45R-01-HG Fish Consumption	South Mayo River Mercury in Fish Tissue	5A			10.97	2010	L
L47R-01-BEN Aquatic Life	Horse Pasture Creek Benthic-Macroinvertebrate Bioassessments	5A			7.44	2010	L
L50R-01-TEMP Aquatic Life	Smith River Temperature, water	5C			9.48	2002	L
L51L-01-HG Fish Consumption	Philpott Reservoir Mercury in Fish Tissue	5A		2,813.52		2010	L
L51R-01-HG Fish Consumption	Goblintown Creek Mercury in Fish Tissue	5A			6.80	2010	L
L51R-01-TEMP Aquatic Life	Rennet Bag Creek Temperature, water	5C			11.54	2002	L
L51R-02-TEMP Aquatic Life	Shooting Creek Temperature, water	5C			7.32	2008	L
L51R-03-TEMP Aquatic Life	Smith River Temperature, water	5C			6.43	2016	L
	Temperature, water	5C			2.55	2016	L
L53R-01-TEMP Aquatic Life	Smith River Temperature, water	5A			6.50	2016	L
L53R-03-BEN Aquatic Life	Beaver Creek Benthic-Macroinvertebrate Bioassessments	5A			6.97	2008	L
L53R-04-BEN Aquatic Life	Jones Creek, UT (XMP) Benthic-Macroinvertebrate Bioassessments	5A			2.00	2006	L
L53R-05-BEN Aquatic Life	Beaver Creek Benthic-Macroinvertebrate Bioassessments	5A			5.30	2016	L
L53R-06-BEN Aquatic Life	Daniels Creek Benthic-Macroinvertebrate Bioassessments	5A			3.99	2016	L
L53R-07-BEN Aquatic Life	Jones Creek Benthic-Macroinvertebrate Bioassessments	5A			2.36	2016	L



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Roanoke and Yadkin River Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
L54R-02-BEN Aquatic Life	Machine Branch Benthic-Macroinvertebrate Bioassessments	5A			0.68	2010	L
L54R-03-BEN Aquatic Life	Mulberry Creek Benthic-Macroinvertebrate Bioassessments	5A			2.60	2010	L
L60R-01-HG Fish Consumption	Dan River, Banister River and Hyco River Mercury in Fish Tissue	5A		1,655.18	57.41	2008	L
	Mercury in Fish Tissue	5A			5.44	2010	L
L60R-01-PCB Fish Consumption	Dan River, Banister River and Hyco River PCB in Fish Tissue	5A		1,655.18	34.13	2002	L
	PCB in Fish Tissue	5A			12.44	2004	L
	PCB in Fish Tissue	5A			2.33	2004	L
	PCB in Fish Tissue	5A			8.51	2006	L
	PCB in Fish Tissue	5A			4.27	2010	L
	PCB in Fish Tissue	5A			1.17	2010	L
L60R-02-BEN Aquatic Life	Pumpkin Creek Benthic-Macroinvertebrate Bioassessments	5A			4.28	2012	L
L60R-03-BEN Aquatic Life	Cane Creek Benthic-Macroinvertebrate Bioassessments	5A			12.25	2012	L
L60R-04-BEN Aquatic Life	Rutledge Creek Benthic-Macroinvertebrate Bioassessments	5A			4.37	2012	L
L61R-01-BEN Aquatic Life	Fall Creek Benthic-Macroinvertebrate Bioassessments	5A			11.97	2014	L
L61R-01-HG Fish Consumption	Fall Creek Mercury in Fish Tissue	5A			11.97	2010	L
L62R-07-BEN Aquatic Life	Wolfe Creek Benthic-Macroinvertebrate Bioassessments	5A			2.86	2008	L
L62R-10-BEN Aquatic Life	Sandy Creek, Unnamed Tributary Benthic-Macroinvertebrate Bioassessments	5A			2.29	2016	L
L63R-01-BEN Aquatic Life	Birch Creek Benthic-Macroinvertebrate Bioassessments	5A			20.15	2016	L
L64R-01-DO Aquatic Life	Lawsons Creek Oxygen, Dissolved	5A			8.26	2010	L
L64R-03-BEN Aquatic Life	Grassy Creek Benthic-Macroinvertebrate Bioassessments	5A			0.83	2008	M
L64R-04-BEN Aquatic Life	Poplar Creek Benthic-Macroinvertebrate Bioassessments	5A			4.04	2010	M
L64R-05-BEN Aquatic Life	Reedy Creek Benthic-Macroinvertebrate Bioassessments	5A			2.92	2010	M



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Roanoke and Yadkin River Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
L65R-02-BEN Aquatic Life	Bearskin Creek Benthic-Macroinvertebrate Bioassessments	5A			9.57	2010	L
L65R-04-BEN Aquatic Life	Strawberry Creek Benthic-Macroinvertebrate Bioassessments	5A			5.96	2014	L
L66L-01-DO Aquatic Life	Cherrystone Reservoir Oxygen, Dissolved	5A		104.27		2010	L
L66L-02-DO Aquatic Life	Roaring Fork Reservoir Oxygen, Dissolved	5A		19.58		2008	L
L66L-02-PH Aquatic Life	Roaring Fork Reservoir pH	5A		19.58		2016	L
L67R-03-BEN Aquatic Life	Elkhorn Creek Benthic-Macroinvertebrate Bioassessments	5A			12.90	2010	L
L67R-04-BEN Aquatic Life	Bradley Creek Benthic-Macroinvertebrate Bioassessments	5A			6.46	2016	L
L68R-01-BEN Aquatic Life	Whitehorn Creek Benthic-Macroinvertebrate Bioassessments	5A			15.10	2016	L
L70R-02-BEN Aquatic Life	Sweden Fork Benthic-Macroinvertebrate Bioassessments	5A			8.63	2014	L
L70R-03-BEN Aquatic Life	Bar Branch Benthic-Macroinvertebrate Bioassessments	5A			4.03	2016	L
L71R-05-BEN Aquatic Life	Polecat Creek Benthic-Macroinvertebrate Bioassessments	5A			9.70	2016	L
L71R-07-DO Aquatic Life	Gibson Creek Oxygen, Dissolved	5A			5.38	2008	L
L72R-01-BAC Recreation	Terrible Creek Escherichia coli	5A			4.82	2014	L
L72R-01-BEN Aquatic Life	Terrible Creek Benthic-Macroinvertebrate Bioassessments	5A			4.82	2014	L
L73R-03-DO Aquatic Life	Peter Creek Oxygen, Dissolved	5A			6.61	2016	L
L74R-03-DO Aquatic Life	Coleman Creek Oxygen, Dissolved	5A			8.48	2014	L
L74R-04-DO Aquatic Life	Big Bluewing Creek Oxygen, Dissolved	5A			11.23	2008	L
L74R-05-BEN Aquatic Life	Bowes Branch Benthic-Macroinvertebrate Bioassessments	5A			1.44	2008	L
L75L-01-PCB Fish Consumption	Kerr Reservoir PCB in Fish Tissue	5A		31,884.59		2002	L



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Roanoke and Yadkin River Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
L75R-03-BEN Aquatic Life	Beech Creek Benthic-Macroinvertebrate Bioassessments	5A			4.69	2016	L
L76R-01-BAC Recreation	Little Buffalo Creek Escherichia coli	5A			2.51	2004	L
L76R-01-BEN Aquatic Life	Little Buffalo Creek Benthic-Macroinvertebrate Bioassessments	5A			2.51	2012	L
L77R-01-BAC Recreation	Little Bluestone Creek Escherichia coli	5A			9.38	2006	H
L77R-02-BAC Recreation	Bluestone Creek Escherichia coli	5A			8.25	2006	H
L77R-02-BEN Aquatic Life	Bluestone Creek Benthic-Macroinvertebrate Bioassessments	5A			13.73	2014	L
L78R-02-BAC Recreation	Unnamed Tributary to Allen Creek Fecal Coliform	5A			1.27	2004	H
L78R-03-BAC Recreation	Allen Creek Escherichia coli Escherichia coli	5A 5A			8.97 15.27	2006 2012	H H
L78R-03-BEN Aquatic Life	Allen Creek Benthic-Macroinvertebrate Bioassessments	5A			15.27	2016	L
L78R-04-BEN Aquatic Life	Cox Creek Benthic-Macroinvertebrate Bioassessments	5A			10.80	2008	M
L78R-04-DO Aquatic Life	Cox Creek Oxygen, Dissolved	5A			10.80	2004	M
L78R-04-PH Aquatic Life	Cox Creek pH	5A			10.80	2006	M
L78R-05-BAC Recreation	Cotton Creek Escherichia coli	5A			4.39	2008	H
L78R-06-BAC Recreation	Layton Creek Escherichia coli	5A			8.64	2012	H
L78R-06-BEN Aquatic Life	Layton Creek Benthic-Macroinvertebrate Bioassessments	5A			8.64	2012	M
L78R-07-BAC Recreation	Kettles Creek Escherichia coli	5A			5.48	2012	H
L78R-07-DO Aquatic Life	Kettles Creek Oxygen, Dissolved	5A			5.48	2012	M
L79L-02-CHLA Aquatic Life	Lake Gordon Chlorophyll-a	5A		107.48		2016	L



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Roanoke and Yadkin River Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
L79L-02-HG Fish Consumption	Lake Gordon Mercury in Fish Tissue	5A		107.48		2010	L
L79R-01-DO Aquatic Life	Flat Creek Oxygen, Dissolved	5A			1.69	2006	L
L79R-02-BAC Recreation	Smith Creek Escherichia coli	5A			1.90	2008	H
L79R-03-BAC Recreation	Miles Creek Escherichia coli	5A			5.97	2016	L
L80L-01-PCB Fish Consumption	Lake Gaston PCB in Fish Tissue	5A		4,440.93	5.69	2004	L
L81R-02-BAC Recreation	Lizard Creek Escherichia coli	5A			2.73	2010	H
L81R-03-BAC Recreation	Little Poplar Creek Escherichia coli	5A			6.51	2016	L
L82R-01-BAC Recreation	Pea Hill Creek Escherichia coli	5A			4.86	2016	L
M02L-01-DDD Fish Consumption	Lovills Creek Lake DDD	5A		42.46		2010	L
M02L-01-DDE Fish Consumption	Lovills Creek Lake DDE	5A		42.46		2010	L
M02L-01-DDT Fish Consumption	Lovills Creek Lake DDT in Fish Tissue	5A		42.46		2010	L
M02L-01-HG Fish Consumption	Lovills Creek Lake Mercury in Fish Tissue	5A		42.46		2010	L
M02R-01-BAC Recreation	Lovills Creek Escherichia coli	5A			2.15	2008	M
M02R-01-DDE Fish Consumption	Lovills Creek DDE	5A			2.15	2010	L
M02R-01-DDT Fish Consumption	Lovills Creek DDT in Fish Tissue	5A			2.15	2010	L
M02R-01-TEMP Aquatic Life	Lovills Creek and Stewarts Creek Temperature, water	5A			2.15	2008	M
	Temperature, water	5A			2.05	2016	M
M03R-01-BAC Recreation	Ararat River Escherichia coli	5A			6.13	2010	H
M03R-01-HG Fish Consumption	Ararat River Mercury in Fish Tissue	5A			6.13	2010	L



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Roanoke and Yadkin River Basins

Cause Group Code	Water Name	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Impaired Use	Cause						
M03R-01-TEMP	Johnson Creek						
Aquatic Life	Temperature, water	5C			9.15	2008	L
M03R-02-BAC	Johnson Creek						
Recreation	Escherichia coli	5A			9.15	2014	H

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

TMDL Development Priorities are: H (High) = formal EPA priority to be addressed with a plan by 2022; M (Medium) = DEQ priority that may be addressed with a plan by 2022; or L (Low) = not prioritized to be addressed with a plan by 2022. Within the H or M priority there may be "2yr" noted which means the priority is to be addressed within the two next years.

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



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Category 5 - Waters needing Total Maximum Daily Load Study

Chowan River and Dismal Swamp Basins

Cause Group Code	Water Name	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
K01R-01-BEN	Middle Meherrin River							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			11.25	2014	M
K01R-03-BEN	Finneywood Creek							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			5.11	2008	M
K02R-01-BEN	North Meherrin River							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			7.54	2010	L
		Benthic-Macroinvertebrate Bioassessments	5A			2.63	2014	L
K02R-03-BEN	Kits Creek							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			4.82	2008	H
K02R-04-BEN	Couches Creek							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			7.37	2010	L
K02R-04-PH	Couches Creek							
Aquatic Life		pH	5A			7.37	2014	L
K02R-05-DO	Ledbetter Creek							
Aquatic Life		Oxygen, Dissolved	5A			9.08	2010	L
K03R-01-BEN	Flat Rock Creek							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			15.99	2014	L
K03R-06-BEN	Mason Creek							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			8.05	2014	L
K05R-05-DO	Hays Creek							
Aquatic Life		Oxygen, Dissolved	5C			6.39	2010	L
K05R-06-BEN	Little Genito Creek							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			12.05	2010	L
K07R-03-BEN	Rocky Run							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			21.27	2008	L
K08L-01-HG	Emporia Lake (Meherrin Reservoir)							
Fish Consumption		Mercury in Fish Tissue	5A		263.68		2014	L
K08L-02-CHLA	Brunswick Lake							
Aquatic Life		Chlorophyll-a	5A		160.33		2016	L
K08L-02-DO	Brunswick Lake							
Aquatic Life		Oxygen, Dissolved	5A		160.33		2006	L
K08R-03-BAC	Wilson Creek							
Recreation		Escherichia coli	5A			2.74	2012	M, 2yr
K08R-03-BEN	Wilson Creek							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			2.74	2010	L
K08R-04-BAC	UT to Dukes Branch							
Recreation		Escherichia coli	5A			1.71	2016	L



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Category 5 - Waters needing Total Maximum Daily Load Study

Chowan River and Dismal Swamp Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
K08R-05-BAC Recreation	Dukes Branch Escherichia coli	5A			2.41	2016	L
K09R-01-BAC Recreation	Meherrin River Escherichia coli	5A			26.75	2016	L
K09R-01-HG Fish Consumption	Meherrin River, Fontaine Creek, Mill Swamp Mercury in Fish Tissue	5A			67.74	2010	L
K09R-01-PCB Fish Consumption	Meherrin River PCB in Fish Tissue	5A			26.75	2004	L
K10R-01-DO Aquatic Life	Rattlesnake Creek Oxygen, Dissolved	5C			17.18	2010	L
K10R-02-DO Aquatic Life	Fontaine Creek (Fountains Creek)(Partial delist16 .56 miles) Oxygen, Dissolved	5C			16.64	2010	L
K10R-03-DO Aquatic Life	Quarrel Creek Oxygen, Dissolved	5C			3.34	2010	L
K10R-03-PH Aquatic Life	Quarrel Creek pH	5C			3.34	2016	L
K10R-04-DO Aquatic Life	Beddingfield Creek Oxygen, Dissolved	5C			4.18	2010	L
K10R-06-PH Aquatic Life	Rocky Run pH	5C			0.86	2010	L
K11R-04-DO Aquatic Life	Fontaine Creek Oxygen, Dissolved	5C			7.30	2012	L
K11R-05-DO Aquatic Life	Beaverpond Creek Oxygen, Dissolved	5C			3.35	2010	L
K11R-06-PH Aquatic Life	XGV - Fontaine Creek, UT pH	5C			1.95	2010	L
K11R-08-DO Aquatic Life	XGU - Fontaine Creek, UT Oxygen, Dissolved	5C			1.82	2010	L
K11R-08-PH Aquatic Life	XGU - Fontaine Creek, UT pH	5C			1.82	2010	L
K13R-04-BAC Recreation	Flat Swamp Escherichia coli	5A			8.48	2016	L
K14L-02-BAC Recreation	Nottoway Falls Lake Escherichia coli	5A		32.19		2014	L
K14L-02-DO Aquatic Life	Nottoway Falls Lake Oxygen, Dissolved	5A		32.19		2004	L
K14L-02-HG Fish Consumption	Nottoway Falls Lake Mercury in Fish Tissue	5A		32.19		2010	L



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Chowan River and Dismal Swamp Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
K14R-01-BEN Aquatic Life	Nottoway River Benthic-Macroinvertebrate Bioassessments	5A			7.26	2010	M
K15L-01-HG Fish Consumption	Nottoway Pond Mercury in Fish Tissue	5A		50.70		2010	L
K15R-03-DO Aquatic Life	Lazaretto Creek Oxygen, Dissolved	5A			4.97	2010	L
K15R-04-BEN Aquatic Life	Mallorys Creek Benthic-Macroinvertebrate Bioassessments	5A			7.11	2014	L
K16L-01-TP Aquatic Life	Fort Pickett Reservoir Phosphorus (Total)	5A		318.95		2012	L
K16R-04-BAC Recreation	Nottoway River Escherichia coli	5A			3.39	2006	H, 2yr
K16R-06-BAC Recreation	Tommeheton Creek Escherichia coli	5A			7.84	2016	L
K16R-06-DO Aquatic Life	Tommeheton Creek Oxygen, Dissolved	5A			7.84	2010	M
K16R-07-BEN Aquatic Life	Seay Creek Benthic-Macroinvertebrate Bioassessments	5A			7.48	2014	M
K17R-01-BAC Recreation	Nottoway River Escherichia coli	5A			9.99	2010	M, 2yr
K17R-02-BAC Recreation	Waqua Creek Escherichia coli	5A			3.57	2012	M, 2yr
K17R-03-BAC Recreation	Waqua Creek Escherichia coli	5A			5.59	2016	L
K17R-04-BAC Recreation	Great Creek Escherichia coli	5A			5.45	2016	L
K17R-05-BAC Recreation	Reedy Creek Escherichia coli	5A			6.02	2016	L
K17R-05-DO Aquatic Life	Reedy Creek Oxygen, Dissolved	5C			6.02	2016	L
K17R-06-BAC Recreation	Turkey Egg Creek Escherichia coli	5A			5.64	2016	L
K17R-07-BAC Recreation	Waqua Creek Escherichia coli	5A			1.09	2016	L
K17R-07-DO Aquatic Life	Hickory Run Oxygen, Dissolved	5C			4.94	2016	L
K17R-07-PH Aquatic Life	Hickory Run pH	5C			4.94	2016	L



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Chowan River and Dismal Swamp Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
K18R-01-DO Aquatic Life	Sturgeon Creek Oxygen, Dissolved	5C			12.96	2014	L
K19R-01-BAC Recreation	Masons Branch Escherichia coli	5A			4.89	2012	M, 2yr
K19R-03-BAC Recreation	Buckskin Creek Escherichia coli	5A			11.90	2010	M, 2yr
K19R-03-DO Aquatic Life	Buckskin Creek Oxygen, Dissolved	5A			1.96	2012	L
K19R-04-HG Fish Consumption	Nottoway River and Tributaries Mercury in Fish Tissue	5A			113.57	2008	L
	Mercury in Fish Tissue	5A			53.09	2010	L
	Mercury in Fish Tissue	5A			19.84	2010	L
K19R-05-BEN Aquatic Life	XEJ - Nottoway River, UT Benthic-Macroinvertebrate Bioassessments	5A			2.88	2008	L
K19R-06-BEN Aquatic Life	Nottoway River Benthic-Macroinvertebrate Bioassessments	5A			1.04	2008	L
K19R-07-DO Aquatic Life	XAD - Buckskin Creek, UT Oxygen, Dissolved	5C			2.90	2012	L
K19R-08-DO Aquatic Life	XHW - Buckskin Creek, UT Oxygen, Dissolved	5A			1.63	2012	L
K19R-09-BAC Recreation	XHX - Buckskin Creek, UT Escherichia coli	5A			2.66	2012	M, 2yr
K19R-10-BAC Recreation	XHY - Buckskin Creek, UT Escherichia coli	5A			1.61	2012	M, 2yr
K19R-11-BAC Recreation	Moores Swamp Escherichia coli	5A			5.08	2016	L
K21R-03-HG Fish Consumption	Stony Creek Mercury in Fish Tissue	5A			8.35	2010	L
K21R-05-BAC Recreation	Mortar Branch Escherichia coli	5A			6.12	2014	M, 2yr
K21R-05-DO Aquatic Life	Mortar Branch Oxygen, Dissolved	5C			6.12	2014	L
K21R-05-PH Aquatic Life	Mortar Branch pH	5C			6.12	2014	L
K21R-06-BAC Recreation	Stony Creek Escherichia coli	5A			2.60	2016	L
K21R-07-PH Aquatic Life	Chamberlains Bed pH	5C			1.32	2016	L



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Chowan River and Dismal Swamp Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
K21R-08-DO Aquatic Life	Chamberlains Bed Oxygen, Dissolved	5C			2.82	2016	L
K21R-08-PH Aquatic Life	Chamberlains Bed pH	5C			2.82	2016	L
K22R-03-BAC Recreation	Sappony Creek (partial Delist 9.18mi(upper portion) Escherichia coli	5A			11.86	2006	M, 2yr
K22R-04-BAC Recreation	Sappony Creek Escherichia coli	5A			4.35	2016	L
K23R-01-BAC Recreation	Arthur Swamp Escherichia coli	5A			8.38	2008	L
K23R-02-BAC Recreation	Joseph Swamp Escherichia coli	5A			11.22	2010	M, 2yr
K23R-04-BAC Recreation	Jones Hole Sw/Moores Sw and all tribs(ptl Delist 4.2&9.11mi) Escherichia coli	5A			70.67	2010	M, 2yr
K23R-05-BAC Recreation	Gosee Swamp and Tributaries Escherichia coli	5A			27.71	2014	M, 2yr
K23R-10-BAC Recreation	Rowanty Creek Escherichia coli	5A			14.07	2012	M, 2yr
K24R-03-BAC Recreation	Hunting Quarter Swamp Escherichia coli	5A			16.67	2008	L
K24R-04-BAC Recreation	Nottoway River Escherichia coli	5A			15.61	2016	L
K24R-05-BAC Recreation	Thweatt Branch Tributaries Escherichia coli	5A			7.26	2016	L
K27R-03-BEN Aquatic Life	Applewhite Swamp Benthic-Macroinvertebrate Bioassessments	5A			8.16	2008	L
K27R-05-BEN Aquatic Life	Three Creek - Upper Benthic-Macroinvertebrate Bioassessments	5A			9.17	2006	L
K28R-01-DO Aquatic Life	Mill Swamp Oxygen, Dissolved	5C			10.49	2006	L
K28R-02-BEN Aquatic Life	Buckhorn Swamp Benthic-Macroinvertebrate Bioassessments	5A			5.68	2008	L
K28R-04-BEN Aquatic Life	Unnamed Tributary to Mill Swamp Benthic-Macroinvertebrate Bioassessments	5A			1.85	2014	L
K28R-05-BAC Recreation	Buckhorn Swamp Escherichia coli	5A			4.22	2012	H
K28R-05-DO Aquatic Life	Buckhorn Swamp Oxygen, Dissolved	5C			4.22	2014	M



2016 Impaired Waters - 303(d) List

Category 5 - Waters needing Total Maximum Daily Load Study

Chowan River and Dismal Swamp Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
K28R-05-PH Aquatic Life	Buckhorn Swamp pH	5C			4.22	2016	L
K28R-06-DO Aquatic Life	Nottoway Swamp Oxygen, Dissolved	5C			8.12	2012	L
K28R-06-PH Aquatic Life	Nottoway Swamp pH	5C			8.12	2012	L
K29R-02-BAC Recreation	Assamoosick Swamp Escherichia coli	5A			2.46	2010	L
K29R-03-BAC Recreation	XGT - Assamoosick Swamp, UT Escherichia coli	5A			1.93	2010	L
K30R-01-DO Aquatic Life	Darden Mill Run Oxygen, Dissolved	5C			10.72	2002	L
K30R-01-PH Aquatic Life	Darden Mill Run pH	5C			10.72	2004	L
K30R-02-DO Aquatic Life	Nottoway River - Lower Oxygen, Dissolved	5A			4.54	2014	L
K30R-04-BAC Recreation	Nottoway River - Upper Escherichia coli	5A			0.45	2008	L
K32R-01-BEN Aquatic Life	Blackwater River - Lower Benthic-Macroinvertebrate Bioassessments	5A			2.32	2008	L
K32R-13-HG Fish Consumption	Blackwater River Basin Mercury in Fish Tissue	5A			36.91	2004	L
	Mercury in Fish Tissue	5A			26.81	2006	L
	Mercury in Fish Tissue	5A			701.67	2008	L
	Mercury in Fish Tissue	5A			611.63	2008	L
	Mercury in Fish Tissue	5A			1.45	2010	L
	Mercury in Fish Tissue	5A			417.95	2010	L
	Mercury in Fish Tissue	5A			3.98	2012	L
K32R-18-BEN Aquatic Life	Blackwater River, UT Benthic-Macroinvertebrate Bioassessments	5A			3.13	2008	L
K33R-02-BAC Recreation	Blackwater River - Middle Escherichia coli	5A			1.04	2012	H
K33R-02-BEN Aquatic Life	Blackwater River - Upper Benthic-Macroinvertebrate Bioassessments	5A			19.10	2008	L
K33R-03-BEN Aquatic Life	Blackwater River - Lower and Burnt Mills Swamp Benthic-Macroinvertebrate Bioassessments	5A			4.18	2008	L
	Benthic-Macroinvertebrate Bioassessments	5A			5.16	2012	L
K35L-01-DO Aquatic Life	Airfield Pond Oxygen, Dissolved	5C		120.07		2008	L



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Category 5 - Waters needing Total Maximum Daily Load Study

Chowan River and Dismal Swamp Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
K35L-01-HG Fish Consumption	Airfield Pond Mercury in Fish Tissue	5A		120.07		2010	L
K35L-01-PH Aquatic Life	Airfield Pond pH	5C		120.07		2008	L
K35R-02-BAC Recreation	Seacock Swamp - Lower Fecal Coliform	5A			2.59	2004	L
K35R-02-BEN Aquatic Life	Seacock Swamp - Lower Benthic-Macroinvertebrate Bioassessments	5A			2.59	2008	L
K35R-03-BAC Recreation	UT Seacock Swamp Fecal Coliform	5A			1.02	2004	L
K35R-04-BAC Recreation	UT Airfield Pond - Lower Escherichia coli	5A			0.71	2004	L
K35R-05-BAC Recreation	UT Airfield Pond - Upper Escherichia coli	5A			0.68	2004	L
K35R-06-BAC Recreation	Seacock Swamp - Upper and Lower Fecal Coliform Escherichia coli	5A 5A			0.84 2.50	2006 2012	L L
K35R-08-BEN Aquatic Life	Round Hill Swamp Benthic-Macroinvertebrate Bioassessments	5A			0.64	2008	L
K36R-02-BAC Recreation	Blackwater River - Lower Middle Escherichia coli	5A			2.83	2006	L
K36R-02-BEN Aquatic Life	Black Creek Benthic-Macroinvertebrate Bioassessments	5A			4.95	2008	L
K36R-04-BAC Recreation	Cypress Swamp Escherichia coli	5A			5.16	2012	L
K36R-04-BEN Aquatic Life	Unsegmented Tributary to Blackwater Benthic-Macroinvertebrate Bioassessments	5A			2.75	2008	L
K36R-05-BAC Recreation	Washole Creek Escherichia coli	5A			0.55	2014	L
K36R-06-BAC Recreation	Blackwater River - Lower Middle Escherichia coli	5A			0.77	2014	L
K36R-07-BAC Recreation	Blackwater River - Upper Escherichia coli	5A			2.47	2016	L
K38R-01-BEN Aquatic Life	Somerton Creek Benthic-Macroinvertebrate Bioassessments	5A			9.38	2006	L
K38R-02-BAC Recreation	March Swamp Escherichia coli	5A			7.71	2008	L



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Category 5 - Waters needing Total Maximum Daily Load Study

Chowan River and Dismal Swamp Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
K38R-02-DO Aquatic Life	March Swamp Oxygen, Dissolved	5C			7.71	2004	L
K38R-02-PH Aquatic Life	March Swamp pH	5C			7.71	2004	L
K38R-03-DO Aquatic Life	Chapel Swamp Oxygen, Dissolved	5C			8.28	2004	L
K38R-03-PH Aquatic Life	Chapel Swamp pH	5C			8.28	2004	L
K38R-04-BAC Recreation	Unsegmented rivers in K38R Escherichia coli	5A			1.80	2014	L
K38R-05-BAC Recreation	Chapel Swamp Escherichia coli	5A			8.28	2014	L
K38R-06-BAC Recreation	Somerton Creek Escherichia coli	5A			9.38	2016	L
K39L-01-HG Fish Consumption	Lake Drummond Mercury in Fish Tissue	5A		3,241.96		2006	L
K39L-01-PH Aquatic Life	Lake Drummond pH	5C		3,241.96		2008	L
K39R-01-HG Fish Consumption	Dismal Swamp Canal & Feeder Ditch to Lake Drummond Mercury in Fish Tissue	5A			13.21	2004	L
K39R-02-HG Fish Consumption	Unsegmented rivers in K39R Mercury in Fish Tissue	5A			15.28	2010	L
K40R-02-BAC Recreation	Northwest River - Middle (PWS) Escherichia coli	5A			6.33	2006	L
K40R-04-BAC Recreation	Northwest River - Lower (PWS) Escherichia coli	5A			1.70	2016	L
K40R-04-HG Fish Consumption	Northwest River - Middle Mercury in Fish Tissue	5A			6.33	2010	L
K40R-09-BAC Recreation	Indian Creek tributary to Northwest River Escherichia coli	5A			3.46	2006	L
K41R-01-BEN Aquatic Life	Pocaty River Benthic-Macroinvertebrate Bioassessments	5A			7.43	2010	L
K41R-05-PCB Fish Consumption	West Neck Creek - Middle PCB in Fish Tissue	5A			2.74	2010	L
K41R-12-BEN Aquatic Life	Unnamed Trib to Milldam Creek Benthic-Macroinvertebrate Bioassessments	5A			0.66	2012	L
K41R-12-DO Aquatic Life	Unnamed Trib to Milldam Creek Oxygen, Dissolved	5A			0.66	2014	L



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Category 5 - Waters needing Total Maximum Daily Load Study

Chowan River and Dismal Swamp Basins

Cause Group Code	Water Name	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
K41R-13-DO Aquatic Life	Blackwater Creek Oxygen, Dissolved	5A			4.47	2008	L
K42E-06-PH Aquatic Life	Ashville Bridge Creek - Lower pH	5C	0.016			2010	L
K42E-07-DO Aquatic Life	Beggars Bridge Creek Oxygen, Dissolved	5A	0.042			2010	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) = formal EPA priority to be addressed with a plan by 2022; M (Medium) = DEQ priority that may be addressed with a plan by 2022; or L (Low) = not prioritized to be addressed with a plan by 2022. Within the H or M priority there may be "2yr" noted which means the priority is to be addressed within the two next years.

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



2016 Impaired Waters - 303(d) List

Category 5 - Waters needing Total Maximum Daily Load Study

Tennessee and Big Sandy River Basins

Cause Group Code	Water Name	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
O01R-01-BAC	South Fork Holston River and Tributaries							
Recreation		Escherichia coli	5A			8.73	2002	H
		Escherichia coli	5A			12.98	2004	H
		Fecal Coliform	5A			9.58	2004	H
		Escherichia coli	5A			9.58	2010	H
		Escherichia coli	5A			8.33	2010	H
		Escherichia coli	5A			3.68	2016	H
O01R-02-PH	Hurricane Creek Tributary							
Aquatic Life		pH	5A			1.12	2010	M
O02R-01-HG	South Fork Holston River							
Fish Consumption		Mercury in Fish Tissue	5A			6.14	2010	L
O02R-03-HG	Beaverdam Creek							
Fish Consumption		Mercury in Fish Tissue	5A			2.01	2010	L
O02R-05-BAC	Whitetop Laurel Creek							
Recreation		Escherichia coli	5A			3.80	2012	M
O03R-01-BEN	Middle Fork Holston River							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			3.42	2010	L
O03R-02-BAC	Bear Creek							
Recreation		Escherichia coli	5A			6.51	2010	M
O03R-03-BAC	Staley Creek							
Recreation		Escherichia coli	5A			6.59	2010	M
O04L-01-HG	Hungry Mother Lake							
Fish Consumption		Mercury in Fish Tissue	5A		103.23		2010	L
O05R-02-BEN	Greenway Creek							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			5.02	2010	H
O06L-01-HG	South Holston Reservoir							
Fish Consumption		Mercury in Fish Tissue	5A		1,699.97		2010	L
O06L-01-PCB	South Holston Reservoir							
Fish Consumption		PCB in Fish Tissue	5A		1,699.97		2010	L
O06R-01-PCB	Wolf Creek							
Fish Consumption		PCB in Fish Tissue	5A			6.67	2006	L
O06R-02-BAC	Fifteen Mile Creek							
Recreation		Escherichia coli	5A			12.93	2008	M
O06R-03-BAC	Spring Creek							
Recreation		Escherichia coli	5A			4.43	2008	M
O07R-01-PCB	Beaver Creek and Little Creek							
Fish Consumption		PCB in Fish Tissue	5A			15.04	2006	L
		PCB in Fish Tissue	5A			2.29	2006	L



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Category 5 - Waters needing Total Maximum Daily Load Study

Tennessee and Big Sandy River Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
O07R-04-BAC Recreation	Sinking Creek Escherichia coli	5A			3.79	2012	M
O07R-05-BAC Recreation	Stoffel Creek Escherichia coli	5A			5.22	2012	M
O08R-01-BAC Recreation	Boozy Creek Escherichia coli	5A			2.53	2012	M
O10R-01-PCB Fish Consumption	North Fork Holston River PCB in Fish Tissue	5A			15.27	1996	L
O10R-05-BEN Aquatic Life	Laurel Creek Benthic-Macroinvertebrate Bioassessments	5A			2.65	2002	L
O11L-01-TEMP Aquatic Life	Hidden Valley Lake Temperature, water	5C		61.10		2010	L
O11L-02-PH Aquatic Life	Laurel Bed Lake pH	5C		359.43		2006	L
O11L-02-TEMP Aquatic Life	Laurel Bed Lake Temperature, water	5C		359.43		2010	L
O12R-03-BEN Aquatic Life	Greendale Creek Benthic-Macroinvertebrate Bioassessments	5A			5.03	2010	M
P01L-03-HG Fish Consumption	Lake Witten Mercury in Fish Tissue	5A		53.17		2010	L
P01R-02-BEN Aquatic Life	Plum Creek Benthic-Macroinvertebrate Bioassessments	5A			2.88	2010	L
P03R-01-BEN Aquatic Life	Clinch River Tributaries Benthic-Macroinvertebrate Bioassessments Benthic-Macroinvertebrate Bioassessments	5A 5A			3.12 3.75	2008 2010	L L
P03R-02-HG Fish Consumption	Clinch River Mercury in Fish Tissue	5A			5.55	2010	L
P04R-02-BEN Aquatic Life	Swords Creek Benthic-Macroinvertebrate Bioassessments	5A			2.91	2006	L
P04R-03-BEN Aquatic Life	Mill Creek Benthic-Macroinvertebrate Bioassessments	5A			3.22	2014	M
P06R-01-BEN Aquatic Life	Big Cedar Creek Benthic-Macroinvertebrate Bioassessments	5A			4.20	2016	L
P07R-02-BEN Aquatic Life	Mill Creek Benthic-Macroinvertebrate Bioassessments	5A			1.84	2014	M
P09L-01-HG Fish Consumption	Bark Camp Lake Mercury in Fish Tissue	5A		41.06		2010	L



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Category 5 - Waters needing Total Maximum Daily Load Study

Tennessee and Big Sandy River Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
P09R-02-BAC Recreation	Clinch River Escherichia coli	5A			11.96	2012	M
P11R-03-PCB Fish Consumption	Guest River and Bear Creek PCB in Fish Tissue	5A			1.94	2004	L
	PCB in Fish Tissue	5A			4.15	2004	L
	PCB in Fish Tissue	5A			19.87	2006	L
P11R-05-BEN Aquatic Life	Eastland Creek Benthic-Macroinvertebrate Bioassessments	5A			2.00	2010	L
P12R-01-BEN Aquatic Life	Bark Camp Branch Benthic-Macroinvertebrate Bioassessments	5A			3.07	2004	M
P12R-01-PH Aquatic Life	Bark Camp Branch pH	5A			3.07	2010	M
P12R-02-BEN Aquatic Life	Devil Fork Benthic-Macroinvertebrate Bioassessments	5A			4.40	2006	M
P12R-02-pH Aquatic Life	Devil Fork pH	5A			4.40	2014	M
P13R-02-PCB Fish Consumption	Stock Creek PCB in Fish Tissue	5A			4.78	2004	L
P14R-02-BEN Aquatic Life	Blackoak Branch Tributary Benthic-Macroinvertebrate Bioassessments	5A			0.76	2012	M
P17R-00-PH Aquatic Life	Dark Hollow pH	5A			1.40	2012	H
P17R-04-BEN Aquatic Life	Unnamed tributary to Callahan Creek Benthic-Macroinvertebrate Bioassessments	5A			0.58	2016	L
P17R-09-BEN Aquatic Life	Roaring Fork and Potcamp Fork Benthic-Macroinvertebrate Bioassessments	5A			5.04	2010	H
	Benthic-Macroinvertebrate Bioassessments	5A			21.73	2014	H
P17R-12-BEN Aquatic Life	Powell River Benthic-Macroinvertebrate Bioassessments	5A			1.00	2010	L
P17R-13-BEN Aquatic Life	Looney Creek Benthic-Macroinvertebrate Bioassessments	5A			8.54	2014	H
P18L-01-HG Fish Consumption	Big Cherry Reservoir Mercury in Fish Tissue	5A		104.00		2010	L
P18L-01-PH Aquatic Life	Big Cherry Reservoir pH	5C		104.00		2002	M
P18R-01-PH Aquatic Life	South Fork Powell River pH	5A			3.83	2016	L



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Category 5 - Waters needing Total Maximum Daily Load Study

Tennessee and Big Sandy River Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
P20L-01-HG Fish Consumption	Lake Keokee Mercury in Fish Tissue	5A		96.21		2010	L
P20R-01-TEMP Aquatic Life	North Fork Powell River Temperature, water	5A			2.98	2014	M
	Temperature, water	5A			7.67	2016	M
P20R-04-BEN Aquatic Life	North Fork Powell River Tributaries Benthic-Macroinvertebrate Bioassessments	5A			8.23	2014	L
P21R-02-BAC Recreation	Hardy Creek Escherichia coli	5A			12.52	2006	M
P21R-03-BAC Recreation	Powell River and Town Creek Escherichia coli	5A			2.69	2006	M
	Escherichia coli	5A			3.73	2012	M
P21R-04-BAC Recreation	Dry Creek Escherichia coli	5A			8.87	2012	M
P22R-01-TEMP Aquatic Life	Wallen Creek Temperature, water	5A			42.90	2012	M
P23R-02-BAC Recreation	Martin Creek Escherichia coli	5A			9.66	2008	M
P23R-03-BAC Recreation	Fourmile Creek Escherichia coli	5A			2.36	2014	M
P24R-01-BAC Recreation	Indian Creek Escherichia coli	5A			8.18	2008	M
	Escherichia coli	5A			4.44	2014	M
Q03R-02-PCB Fish Consumption	Knox Creek and Tributaries PCB in Fish Tissue	5A			186.05	2004	L
	PCB in Fish Tissue	5A			8.70	2006	L
	PCB in Fish Tissue	5A			6.00	2006	L
Q03R-03-BAC Recreation	Pawpaw Creek and Jacobs Fork Escherichia coli	5A			6.57	2010	M
Q05R-00-TEMP Aquatic Life	Dismal Creek Temperature, water	5A			5.38	2008	M
Q08R-05-BEN Aquatic Life	Conaway Creek Benthic-Macroinvertebrate Bioassessments	5A			2.62	2014	L
Q08R-06-BEN Aquatic Life	State Line Branch Benthic-Macroinvertebrate Bioassessments	5A			1.35	2014	M
Q08R-07-BEN Aquatic Life	Home Creek Headwaters Benthic-Macroinvertebrate Bioassessments	5A			0.80	2014	M
Q08R-08-BEN Aquatic Life	Conaway Creek and Tributaries Benthic-Macroinvertebrate Bioassessments	5A			6.99	2014	M



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Category 5 - Waters needing Total Maximum Daily Load Study

Tennessee and Big Sandy River Basins

Cause Group Code	Water Name	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Q08R-09-BEN	Poplar Creek							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			3.03	2014	L
Q09R-01-BAC	Russell Fork							
Recreation		Escherichia coli	5A			8.87	2004	H, 2yr
		Escherichia coli	5A			2.25	2006	H, 2yr
		Escherichia coli	5A			15.34	2010	H, 2yr
		Escherichia coli	5A			3.90	2012	H, 2yr
		Escherichia coli	5A			4.12	2016	H, 2yr
Q09R-01-BEN	Indian Creek							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			2.69	2012	M
Q09R-02-BEN	Sullivan Branch							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			1.62	2008	M
Q10R-01-BEN	Fryingpan Creek							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			9.45	2012	H
Q11R-02-BAC	McClure River and Tributaries							
Recreation		Escherichia coli	5A			9.68	2006	H
		Escherichia coli	5A			3.38	2006	H
		Escherichia coli	5A			3.25	2008	H
		Escherichia coli	5A			11.01	2012	H
		Escherichia coli	5A			1.08	2014	H
Q11R-02-BEN	McClure River and Tributaries							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			1.80	2014	M
Q11R-04-BEN	Cowan Rose Branch							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			3.30	2014	M
Q11R-05-BEN	Dismal Fork							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			4.51	2014	M
Q12R-01-BAC	Russell Prater Creek							
Recreation		Escherichia coli	5A			11.72	2008	L
Q12R-05-BEN	Middle Fork (Hunts Creek)							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			2.93	2014	M
Q13L-01-HG	John Flannagan Reservoir							
Fish Consumption		Mercury in Fish Tissue	5A		1,177.21		2010	L
Q13R-02-TEMP	North Fork Pound River							
Aquatic Life		Temperature, water	5C			10.25	2012	H
Q13R-03-BAC	Pound River							
Recreation		Escherichia coli	5A			16.94	2008	H
Q13R-03-TEMP	North Fork Pound River							
Aquatic Life		Temperature, water	5C			1.29	2010	L



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Category 5 - Waters needing Total Maximum Daily Load Study

Tennessee and Big Sandy River Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Q13R-04-BEN Aquatic Life	Indian Creek Benthic-Macroinvertebrate Bioassessments	5A			2.98	2012	H
Q13R-06-BEN Aquatic Life	Pound River Benthic-Macroinvertebrate Bioassessments	5A			16.94	2004	H
Q13R-07-BEN Aquatic Life	Bear Pen Branch Benthic-Macroinvertebrate Bioassessments	5A			3.30	2010	M
Q13R-09-BAC Recreation	Big Branch Escherichia coli	5A			1.46	2014	M
Q13R-09-BEN Aquatic Life	North Fork Pound River Benthic-Macroinvertebrate Bioassessments	5A			4.29	2010	H
Q13R-10-BAC Recreation	South Fork Pound River Escherichia coli	5A			5.80	2014	L
	Escherichia coli	5A			3.44	2016	L
Q14R-01-BAC Recreation	Cranesnest River Escherichia coli	5A			7.52	2004	H, 2yr
	Escherichia coli	5A			12.93	2010	H, 2yr
Q14R-01-BEN Aquatic Life	Birchfield Creek and Cranestnest River Benthic-Macroinvertebrate Bioassessments	5A			15.45	2010	H, 2yr
Q14R-02-BEN Aquatic Life	Dotson Creek Benthic-Macroinvertebrate Bioassessments	5A			3.81	2012	H, 2yr

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) = formal EPA priority to be addressed with a plan by 2022; M (Medium) = DEQ priority that may be addressed with a plan by 2022; or L (Low) = not prioritized to be addressed with a plan by 2022. Within the H or M priority there may be "2yr" noted which means the priority is to be addressed within the two next years.

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



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Category 5 - Waters needing Total Maximum Daily Load Study

Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
AO23-01-BAC Recreation	Atlantic Ocean Beaches - Croatan Enterococcus	5A	0.410			2016	L
C01E-17-PCB Fish Consumption	Chesapeake Bay and Tidal Tributaries PCB in Fish Tissue	5A	1,825.564			2006	L
	PCB in Fish Tissue	5A	0.025			2010	L
	PCB in Fish Tissue	5A	0.003			2012	L
C01R-01-BAC Recreation	Crabbe Mill Stream Escherichia coli	5A			3.90	2012	L
C01R-01-DO Aquatic Life	Crabbe Mill Stream Oxygen, Dissolved	5C			3.90	2012	L
C01R-01-PH Aquatic Life	Crabbe Mill Stream pH	5C			3.90	2012	L
C01R-02-BEN Aquatic Life	Dymer Creek Benthic-Macroinvertebrate Bioassessments	5A			2.06	2014	L
C02R-03-HG Fish Consumption	Dragon Swamp/Piankatank River Mercury in Fish Tissue	5A	2.661			2004	L
	Mercury in Fish Tissue	5A			31.97	2006	L
	Mercury in Fish Tissue	5A	0.062			2008	L
C03E-10-EBEN Aquatic Life	Piankatank River Estuarine Bioassessments	5A	1.167			2006	L
	Estuarine Bioassessments	5A	0.785			2008	L
	Estuarine Bioassessments	5A	17.545			2014	L
C03E-16-BAC Recreation	Piankatank River Enterococcus	5A	0.785			2014	L
C03E-17-BAC Recreation	Piankatank River Escherichia coli	5A	1.167			2016	L
C04E-53-BAC Recreation	Whites Creek - Festival Beach Enterococcus	5A	0.046			2012	L
C04R-01-DO Aquatic Life	East River Oxygen, Dissolved	5C			0.59	2012	L
C04R-01-PH Aquatic Life	East River pH	5C			0.59	2012	L
C07E-01-PCB Fish Consumption	Chesapeake Bay & Tidal Tributaries VDH Fish Consumption Advisory for PCBs PCB in Fish Tissue	5A	16.028			2006	L
C07E-33-EBEN Aquatic Life	Northwest Br. Back River - Upper near Marsh Point Estuarine Bioassessments	5A	0.248			2010	L
C07E-38-SF Shellfishing	Bennett Creek - Upper (DSS_06-IR) Fecal Coliform	5B	0.039			2012	L



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Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
C07E-41-SF Shellfishing	Unsegmented estuaries in Back River - DSS Fecal Coliform	5B	0.097			2012	L
C07E-43-BAC Recreation	Buckroe Beaches Enterococcus	5A	0.224			2016	L
C07L-01-CU Aquatic Life Wildlife	Harwood Mills Reservoir Copper Copper	5A 5A		257.68 257.68		2004 2004	L L
C07L-02-DO Aquatic Life	Harwoods Mill Reservoir (PWS) Oxygen, Dissolved	5A		257.68		2004	L
C07R-01-DO Aquatic Life	Newmarket Creek - Lower Riverine Oxygen, Dissolved	5A			2.01	2006	L
C08E-01-EBEN Aquatic Life	London Bridge Creek Estuarine Bioassessments	5A	7.976			2008	L
C08E-01-PCB Fish Consumption	Eastern Branch -Lynnhaven River System VDH Fish Consumption Advisory PCB in Fish Tissue	5A	3.833			2006	L
C08E-14-BAC Recreation	Sara Constance Park, East End Enterococcus	5A	0.140			2014	M
C08E-15-BAC Recreation	13th View Beach Enterococcus	5A	0.353			2016	L
C08E-16-BAC Recreation	Chicks Beach Enterococcus	5A	0.433			2016	L
C08L-01-CHLA Aquatic Life	Lake Whitehurst Chlorophyll-a	5A		482.28		2010	L
C08L-01-DO Aquatic Life	Lake Whitehurst Oxygen, Dissolved	5A		482.28		2008	L
C08L-01-HG Fish Consumption	Lake Whitehurst Mercury in Fish Tissue	5A		482.28		2008	L
C08L-01-PCB Fish Consumption	Lake Whitehurst VDH Fish Consumption Advisory PCB in Fish Tissue	5A		482.28		2006	L
C08L-01-TP Aquatic Life	Lake Whitehurst Phosphorus (Total)	5A		482.28		2010	L
C08L-03-CHLA Aquatic Life	Little Creek Reservoir Chlorophyll-a	5A		199.79		2010	L
C08L-03-PCB Fish Consumption	Little Creek Reservoir VDH Fish Consumption Advisory PCB in Fish Tissue	5A		199.79		2008	L
C08L-03-TP Aquatic Life	Little Creek Reservoir Phosphorus (Total)	5A		199.79		2010	L



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Cause Group Code	Water Name	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
C08L-04-CHLA	Lake Smith							
Aquatic Life		Chlorophyll-a	5A		184.89		2010	L
C08L-04-DO	Lake Smith							
Aquatic Life		Oxygen, Dissolved	5A		184.89		2002	L
C08L-04-TP	Lake Smith							
Aquatic Life		Phosphorus (Total)	5A		184.89		2010	L
C08L-06-HG	Lake Trashmore - Western Pond	VDH Fish Consumption Advisory for Mercury						
Fish Consumption		Mercury in Fish Tissue	5A		54.39		2006	L
C08L-06-PCB	Lake Trashmore - Western Pond	VDH Fish Consumption Advisory for PCBs						
Fish Consumption		PCB in Fish Tissue	5A		54.39		2006	L
C08L-07-DO	Lake Wright							
Aquatic Life		Oxygen, Dissolved	5A		15.62		2014	L
C09R-02-PH	Unnamed tributary to Pitts Creek							
Aquatic Life		pH	5A			7.50	2006	L
C10E-02-BAC	Muddy Creek - Upper							
Recreation		Enterococcus	5A	0.214			2006	L
C10R-03-BEN	Guilford Creek							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			0.85	2008	L
C11E-15-SF	Matchotank Creek - Upper							
Shellfishing		Fecal Coliform	5B	0.069			2006	H
C11R-01-BAC	Joynes Branch							
Recreation		Escherichia coli	5A			2.37	2008	H
C12R-01-BEN	Taylor Creek							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			0.90	2004	L
C12R-02-BEN	Bull Branch							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			2.25	2008	L
C13E-02-BAC	Nassawadox Creek - Lower							
Recreation		Enterococcus	5A	2.108			2008	H
C13E-11-SF2	Church Creek - Middle, UT North Cove [No TMDL]							
Shellfishing		Fecal Coliform	5B	0.059			2004	H
C13E-20-SF	Nassawadox Creek - Middle, N. Shore Tribs							
Shellfishing		Fecal Coliform	5B	0.140			2008	H
C13R-01-BEN	Taylor Branch - Occohannock Creek							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			2.31	2008	L
D01E-02-DO	Little Mosquito Creek							
Aquatic Life		Oxygen, Dissolved	5A	0.138			2004	H
		Oxygen, Dissolved	5A	0.071			2008	H



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
D01E-03-BAC Recreation	Powells Bay Enterococcus	5A	0.596			2006	H
D01E-04-DO Aquatic Life	Swan Gut Creek Oxygen, Dissolved	5A	0.100			2004	L
D02E-01-DO Aquatic Life	Assawoman Creek Oxygen, Dissolved Oxygen, Dissolved	5A 5A	0.063 0.073			2004 2008	H H
D02E-11-SF Shellfishing	Little Cat Creek Fecal Coliform	5B	0.096			2006	L
D03E-07-BAC Recreation	Wachapreague Channel Enterococcus	5A	0.055			2008	L
D03E-08-DO Aquatic Life	Northam Creek Oxygen, Dissolved	5A	0.028			2004	L
D03R-03-BEN Aquatic Life	Ross Branch Benthic-Macroinvertebrate Bioassessments	5A			3.20	2002	L
D03R-04-BEN Aquatic Life	Unnamed tributary to Folly Creek Benthic-Macroinvertebrate Bioassessments	5A			1.53	2002	L
D03R-05-BEN Aquatic Life	Rattrap Creek Benthic-Macroinvertebrate Bioassessments	5A			2.73	2012	L
D03R-06-BEN Aquatic Life	North Fork Benthic-Macroinvertebrate Bioassessments	5A			3.13	2016	L
D03R-07-BEN Aquatic Life	Custis Creek Benthic-Macroinvertebrate Bioassessments	5A			1.22	2016	L
D04E-01-DO Aquatic Life	Red Bank Creek Oxygen, Dissolved	5A	0.003			2004	L
D04E-02-DO Aquatic Life	Unnamed tributary to Red Bank Creek Oxygen, Dissolved	5A	0.009			2004	L
D04R-01-DO Aquatic Life	Red Bank Creek Oxygen, Dissolved	5C			1.36	2016	L
D04R-03-BEN Aquatic Life	Frogstool Branch Benthic-Macroinvertebrate Bioassessments	5A			4.27	2012	L
D04R-04-BEN Aquatic Life	UT to Mill Creek Benthic-Macroinvertebrate Bioassessments	5A			1.48	2014	L
D05E-01-HG Fish Consumption	Oyster Slip (Harbor) - Upper Mercury in Fish Tissue	5A	0.034			2010	L
D05R-01-BAC Recreation	Taylor Creek Fecal Coliform	5A			1.26	2002	L



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Cause Group Code	Water Name	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
D05R-02-BAC	Holt Creek							
Recreation		Escherichia coli	5A			1.74	2004	L
D05R-03-BAC	Holt Creek Unnamed Tributary							
Recreation		Escherichia coli	5A			1.42	2004	L
D05R-03-BEN	Holt Creek Unnamed Tributary							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			1.42	2012	L
D06E-01-DO	Magothy Bay - Lower							
Aquatic Life		Oxygen, Dissolved	5A	0.037			2004	L
D06E-02-PCB	Raccoon Creek							
Fish Consumption		PCB in Fish Tissue	5A	0.004			2010	L
D06R-01-PH	Mill Creek							
Aquatic Life		pH	5A			2.23	1998	L
D06R-02-BAC	Narrow Channel Branch							
Recreation		Escherichia coli	5A			1.84	2004	L
D06R-02-BEN	Narrow Channel Branch							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			1.84	2004	L
D06R-02-DO	Narrow Channel Branch							
Aquatic Life		Oxygen, Dissolved	5A			1.84	2014	L
D06R-03-BAC	Tommy's Ditch							
Recreation		Escherichia coli	5A			1.44	2008	L
D07E-02-BAC	Lake Rudee - Upper							
Recreation		Enterococcus	5A	0.099			2004	H, 2yr
D07E-02-SF	Lake Rudee - Upper							
Shellfishing		Fecal Coliform	5B	0.099			2006	H, 2yr
D07E-04-BAC	Owl Creek - Upper & Lower							
Recreation		Enterococcus	5A	0.005			2002	H, 2yr
		Enterococcus	5A	0.019			2008	H, 2yr
D07E-04-DO	Owl Creek - Upper							
Aquatic Life		Oxygen, Dissolved	5A	0.005			2006	M, 2yr
D07E-04-SF	Owl Creek - Upper & Lower							
Shellfishing		Fecal Coliform	5B	0.025			2006	H, 2yr
D07E-10-SF	Lake Rudee - Lower and Lake Wesley							
Shellfishing		Fecal Coliform	5B	0.060			2006	H, 2yr



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Chesapeake Bay/Atlantic/Small Coastal Basins

Cause Group Code	Water Name	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Impaired Use	Cause						

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) = formal EPA priority to be addressed with a plan by 2022; M (Medium) = DEQ priority that may be addressed with a plan by 2022; or L (Low) = not prioritized to be addressed with a plan by 2022. Within the H or M priority there may be "2yr" noted which means the priority is to be addressed within the two next years.

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



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
F01L-01-HG Fish Consumption	Lake Gordonsville Mercury in Fish Tissue	5A		77.31		2006	L
F01R-01-BEN Aquatic Life	South Anna River Benthic-Macroinvertebrate Bioassessments	5A			1.90	2010	L
F01R-02-BEN Aquatic Life	Wheeler Creek Benthic-Macroinvertebrate Bioassessments	5A			6.00	2008	L
F01R-03-BEN Aquatic Life	Camp Creek Benthic-Macroinvertebrate Bioassessments	5A			2.01	2012	L
F03R-01-BEN Aquatic Life	Cub Creek Benthic-Macroinvertebrate Bioassessments	5A			3.10	2014	L
F03R-02-BEN Aquatic Life	Taylor's Creek Benthic-Macroinvertebrate Bioassessments	5A			16.54	2016	L
F03R-03-DO Aquatic Life	Cub Creek Oxygen, Dissolved	5A			3.10	2008	L
F04R-03-DO Aquatic Life	Stagg Creek Oxygen, Dissolved	5C			6.56	2008	L
F04R-03-PH Aquatic Life	Stagg Creek pH	5C			6.56	2016	L
F06R-04-BAC Recreation	North Anna River Escherichia coli Escherichia coli	5A 5A			3.78 2.79	2006 2010	H, 2yr H, 2yr
F06R-05-BAC Recreation	Christopher Creek Escherichia coli	5A			1.98	2010	H, 2yr
F06R-06-BAC Recreation	Hickory Creek Escherichia coli	5A			1.72	2012	H, 2yr
F06R-08-BAC Recreation	Duckinghoe Creek Escherichia coli	5A			6.98	2016	L
F06R-09-BAC Recreation	South Fork Hickory Creek Escherichia coli	5A			4.63	2016	L
F07L-01-BAC Recreation	Goldmine Creek/Lake Anna Escherichia coli	5A		91.62		2008	L
F07L-01-BZOKFL Fish Consumption	Gold Mine Creek Benzo[k]fluoranthene	5A		91.62	7.53	2010	L
F07L-01-HG Fish Consumption	Lake Anna Mercury in Fish Tissue	5A		1,563.36		2010	L
F07L-01-PAHHMW Fish Consumption	Gold Mine Creek Benzo(a)pyrene (PAHs)	5A		91.62	7.53	2010	L



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
F07L-01-PCB	Lake Anna and Contrary Creek, Goldmine Creek, and Terrys Run tributaries						
Fish Consumption	PCB in Fish Tissue	5A		2,128.04		2002	L
	PCB in Fish Tissue	5A		7,468.77	23.06	2006	L
	PCB in Water Column	5A		1,233.83		2010	L
F07L-02-HG	Terrys Run/Lake Anna						
Fish Consumption	Mercury in Fish Tissue	5A		431.09		2010	L
F07L-02-PAHHMW	Gold Mine Creek						
Fish Consumption	Benzo[b]fluoranthene	5A		91.62	7.53	2010	L
F07R-01-BEN	Pamunkey Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			7.21	2012	L
F08R-01-CD	Contrary Creek						
Aquatic Life	Cadmium	5A		27.87	5.52	2008	M
Wildlife	Cadmium	5A		27.87	5.52	2008	M
F08R-01-CU	Contrary Creek						
Aquatic Life	Copper	5A		27.87	5.52	2008	M
Wildlife	Copper	5A		27.87	5.52	2008	M
F08R-01-PH	Contrary Creek						
Aquatic Life	pH	5A			5.52	2002	M
	pH	5A		27.87		2008	M
F08R-01-TEMP	Contrary Creek						
Aquatic Life	Temperature, water	5A			5.52	2016	L
F08R-01-ZN	Contrary Creek						
Aquatic Life	Zinc	5A		27.87	5.52	2008	M
Wildlife	Zinc	5A		27.87	5.52	2008	M
F09R-02-BEN	North Anna River, UT (XHS)						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			1.09	2008	L
F09R-03-PH	North Anna River, UT (XIM)						
Aquatic Life	pH	5C			0.70	2010	L
F09R-04-PH	Mill Creek						
Aquatic Life	pH	5C			4.37	2012	L
F09R-05-PH	North Anna River, UT - XJP						
Aquatic Life	pH	5C			1.01	2016	L
F10R-01-BAC	Little River						
Recreation	Escherichia coli	5A			4.17	2006	L
F10R-02-BAC	Little River						
Recreation	Escherichia coli	5A			1.29	2014	L
F10R-02-DO	Long Creek						
Aquatic Life	Oxygen, Dissolved	5C			5.15	2014	L



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
F10R-03-BAC Recreation	Long Creek Escherichia coli	5A			5.15	2014	L
F11R-01-BEN Aquatic Life	Locust Creek Benthic-Macroinvertebrate Bioassessments	5A			6.59	2010	L
F11R-01-DO Aquatic Life	Little River Oxygen, Dissolved	5A			6.29	2008	L
F11R-02-PH Aquatic Life	Beaverdam Creek pH	5A			8.47	2012	L
F12R-05-DO Aquatic Life	Mechumps Creek Oxygen, Dissolved	5A			1.05	2010	L
F12R-05-PH Aquatic Life	Mechumps Creek pH	5A			1.05	2006	L
F12R-07-PH Aquatic Life	Crump Creek pH	5C			10.00	2010	L
F12R-10-PH Aquatic Life	Millpond Creek pH	5C			3.02	2012	L
F12R-11-PH Aquatic Life	Kersey Creek pH	5C			3.32	2012	L
F12R-12-PH Aquatic Life	XJC - Crump Creek, UT pH	5C			1.96	2012	L
F12R-13-PH Aquatic Life	Pollard Creek pH	5C			4.20	2012	L
F13R-04-PCB Fish Consumption	Moncuin Creek, Webb Creek PCB in Fish Tissue	5A			12.12	2010	L
F13R-06-DO Aquatic Life	Sullens Creek Oxygen, Dissolved	5C			4.60	2012	L
F13R-06-PH Aquatic Life	Sullens Creek pH	5C			4.60	2004	L
F13R-09-PH Aquatic Life	XDX - UT to XDW (Pamunkey River, UT) pH	5C			3.85	2012	L
F13R-11-PH Aquatic Life	XDW - UT to Pamunkey River pH	5C			5.51	2012	L
F13R-12-PH Aquatic Life	Judy Swamp pH	5C			3.33	2012	L
F13R-13-HG Fish Consumption	Pamunkey River Mercury in Fish Tissue	5A	1.090		11.55	2006	L
	Mercury in Fish Tissue	5A	9.424			2010	L



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
F13R-13-PCB Fish Consumption	Pamunkey River PCB in Fish Tissue	5A	10.513		11.55	2010	L
F13R-14-PH Aquatic Life	Mehixen Creek and tributary XIV pH	5C			6.44	2012	L
F14E-05-EBEN Aquatic Life	Pamunkey River Estuarine Bioassessments	5A	5.272			2010	L
F14R-01-DO Aquatic Life	Cohoke Mill Creek Oxygen, Dissolved	5C			7.38	2010	L
F14R-02-DO Aquatic Life	Harrison Creek Oxygen, Dissolved	5C			2.80	2014	L
F14R-04-PH Aquatic Life	XJD - Harrison Creek, UT pH	5C			0.16	2012	L
F15R-01-BEN Aquatic Life	Ni River Benthic-Macroinvertebrate Bioassessments	5A			5.68	2010	L
F15R-01-DO Aquatic Life	Brock Run Oxygen, Dissolved	5A			2.56	2012	L
F15R-01-PH Aquatic Life	Brock Run pH	5A			3.21	2014	L
F15R-02-DO Aquatic Life	Lewis Run Oxygen, Dissolved	5A			1.46	2012	L
F15R-02-PH Aquatic Life	Unnamed tributary to Cool Spring Lake pH	5A			1.29	2016	L
F15R-03-DO Aquatic Life	Unnamed tributary to Cool Spring Lake Oxygen, Dissolved	5A			1.29	2012	L
F17L-01-HG Fish Consumption	Bowies Pond Mercury in Fish Tissue	5A		25.71		2008	L
F18R-01-DO Aquatic Life	Ta River Oxygen, Dissolved	5C			3.76	2010	L
F18R-02-PH Aquatic Life	Ta River pH	5C			3.76	2010	L
F18R-03-BEN Aquatic Life	Matta River Benthic-Macroinvertebrate Bioassessments	5A			1.24	2008	L
F20R-01-BEN Aquatic Life	Polecat Creek Benthic-Macroinvertebrate Bioassessments	5A			6.97	2014	L
F20R-01-DO Aquatic Life	Polecat Creek Oxygen, Dissolved	5C			6.97	2010	L
F20R-02-PH Aquatic Life	Polecat Creek pH	5C			5.31	2014	L



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
F21R-01-BEN Aquatic Life	Herring Creek Benthic-Macroinvertebrate Bioassessments	5A			4.75	2008	L
F21R-01-HG Fish Consumption	Herring Creek Mercury in Fish Tissue	5A			7.23	2006	L
F21R-02-BEN Aquatic Life	Reedy Creek Benthic-Macroinvertebrate Bioassessments	5A			12.69	2014	L
F21R-02-HG Fish Consumption	Mattaponi River Mercury in Fish Tissue	5A	3.723		15.70	2006	L
	Mercury in Fish Tissue	5A	3.242			2010	L
F21R-03-HG Fish Consumption	Reedy Creek and Reedy Millpond Mercury in Fish Tissue	5A		41.25	12.82	2010	L
F21R-04-PH Aquatic Life	Chapel Creek pH	5C			4.64	2008	L
F21R-05-BAC Recreation	Herring Creek Escherichia coli	5A			5.09	2016	L
F21R-06-BAC Recreation	Mattaponi River Escherichia coli	5A			8.00	2016	L
F22L-01-HG Fish Consumption	Collins Pond Mercury in Fish Tissue	5A		63.93		2010	L
F22R-02-PH Aquatic Life	Root Swamp pH	5C			7.83	2006	L
F22R-03-DO Aquatic Life	Unnamed tributary to Root Swamp Oxygen, Dissolved	5C			0.70	2006	L
F22R-03-PH Aquatic Life	Unnamed tributary to Root Swamp pH	5C			0.70	2006	L
F22R-04-PH Aquatic Life	Beverly Run pH	5C			3.31	2008	L
F22R-05-PH Aquatic Life	Doctors Creek pH	5C			2.32	2008	L
F23E-02-BAC Recreation	Mattaponi River Escherichia coli	5A	1.756			2016	L
F23R-01-BAC Recreation	Garnetts Creek Escherichia coli	5A			2.83	2010	M, 2yr
F23R-03-DO Aquatic Life	Walkerton Branch Oxygen, Dissolved	5C			4.62	2006	L
F23R-03-PH Aquatic Life	Walkerton Branch pH	5C			4.62	2004	L



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Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
F23R-04-BAC Recreation	Aylett Creek Escherichia coli	5A			6.83	2012	M, 2yr
F23R-04-PH Aquatic Life	Aylett Creek pH	5C			6.83	2012	L
F23R-06-PCB Fish Consumption	Mattaponi River PCB in Fish Tissue	5A	0.159		4.72	2006	L
	PCB in Fish Tissue	5A	6.806		10.98	2010	L
	PCB in Fish Tissue	5A				2010	L
F23R-08-BAC Recreation	Dickeys Swamp Escherichia coli	5A			4.33	2014	L
F23R-09-BAC Recreation	Market Swamp Escherichia coli	5A			2.01	2014	L
F23R-10-BAC Recreation	XJG - Dickeys Swamp, UT Escherichia coli	5A			1.99	2014	L
F23R-11-BAC Recreation	Dogwood Fork Escherichia coli	5A			2.91	2014	L
F23R-12-BAC Recreation	XDN - Garnetts Creek, UT Escherichia coli	5A			2.53	2016	L
F24R-03-BAC Recreation	Courthouse Creek Escherichia coli	5A			0.72	2016	L
F24R-03-DO Aquatic Life	Courthouse Creek Oxygen, Dissolved	5A			0.72	2014	L
F25R-01-DO Aquatic Life	Tastine Swamp and Little Tastine Swamp Oxygen, Dissolved	5C			6.25	2016	L
F25R-02-DO Aquatic Life	Tastine Swamp Oxygen, Dissolved	5C			2.15	2010	L
F26E-01-PCB Fish Consumption	York River, Queens Creek, Kings Creek PCB in Fish Tissue	5A	0.503			2002	L
	PCB in Fish Tissue	5A	57.392			2006	L
F26E-06-SF Shellfishing	Fox Creek Fecal Coliform	5B	0.016			2006	L
F26E-10-SF Shellfishing	Carter Creek Fecal Coliform	5B	0.025			2004	L
	Fecal Coliform	5B	0.023			2012	L
F26L-01-DO Aquatic Life	Waller Mill Reservoir Oxygen, Dissolved	5A		287.70		2006	L
F26R-01-BAC Recreation	Carter Creek Fecal Coliform	5A			3.38	2004	L



2016 Impaired Waters - 303(d) List

Category 5 - Waters needing Total Maximum Daily Load Study

York River Basin

Cause Group Code	Water Name	Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
F26R-01-BEN	Carter Creek							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			3.38	2004	L
F26R-02-BEN	XEA - Bland Creek, UT							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			1.23	2008	L
F26R-04-BEN	Bird Creek							
Aquatic Life		Benthic-Macroinvertebrate Bioassessments	5A			2.47	2012	L
F27E-06-BAC	York River - Yorktown Beach							
Recreation		Enterococcus	5A	0.024			2016	L
F27E-07-BAC	York River - Gloucester Point Beach							
Recreation		Enterococcus	5A	0.018			2016	L

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

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



2016 Impaired Waters - 303(d) List

Category 5 - Waters needing Total Maximum Daily Load Study

New River Basin

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
N01R-01-BAC	Big Horse Creek						
Recreation	Escherichia coli	5A			7.90	2004	M
	Fecal Coliform	5A			7.90	2004	M
N01R-02-BAC	Little Helton Creek						
Recreation	Fecal Coliform	5A			6.30	2004	M
	Escherichia coli	5A			6.30	2010	M
N02R-02-BAC	New River and Grassy Creek						
Recreation	Fecal Coliform	5A			8.92	2004	M
	Escherichia coli	5A			12.56	2010	M
	Escherichia coli	5A			5.98	2012	M
	Escherichia coli	5A			1.13	2014	M
N02R-02-HG	New River						
Fish Consumption	Mercury in Fish Tissue	5A			25.04	2006	L
	Mercury in Fish Tissue	5A			1.47	2008	L
	Mercury in Fish Tissue	5A			3.61	2010	L
N02R-03-BAC	Wilson Creek						
Recreation	Fecal Coliform	5A			8.90	2004	M
	Escherichia coli	5A			8.90	2010	M
N03R-01-BAC	Fox Creek						
Recreation	Fecal Coliform	5A			7.65	2004	M
	Escherichia coli	5A			19.11	2010	M
N04R-02-BAC	Little River						
Recreation	Escherichia coli	5A			6.55	2012	M
N04R-03-BAC	Peach Bottom Creek						
Recreation	Fecal Coliform	5A			2.81	2004	M
	Escherichia coli	5A			2.81	2006	M
	Escherichia coli	5A			13.86	2012	M
	Escherichia coli	5A			5.34	2016	M
N04R-07-BAC	Saddle Creek						
Recreation	Escherichia coli	5A			3.17	2006	M
N05R-01-BEN	Elk Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			9.38	2008	L
N06R-03-BAC	Meadow Creek & New River						
Recreation	Escherichia coli	5A			5.38	2004	M
	Escherichia coli	5A			10.53	2010	M
	Escherichia coli	5A			5.03	2014	M
N06R-04-BAC	Brush Creek						
Recreation	Escherichia coli	5A			7.29	2014	M
N07R-01-BAC	Crooked Creek						
Recreation	Fecal Coliform	5A			23.54	2004	M
	Escherichia coli	5A			27.90	2010	M



2016 Impaired Waters - 303(d) List

Category 5 - Waters needing Total Maximum Daily Load Study

New River Basin

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
N07R-01-TEMP	Crooked Creek						
Aquatic Life	Temperature, water	5A			4.36	2010	M
N08R-01-BAC	New River						
Recreation	Fecal Coliform	5A			4.37	2004	M
	Escherichia coli	5A			0.61	2006	M
	Escherichia coli	5A			4.37	2010	M
	Escherichia coli	5A			1.43	2010	M
	Escherichia coli	5A			13.08	2016	M
N08R-03-BAC	Shorts Creek and Unnamed Tributary						
Recreation	Fecal Coliform	5A			7.07	2004	M
	Fecal Coliform	5A			3.88	2006	M
	Escherichia coli	5A			10.95	2010	M
	Escherichia coli	5A			3.31	2012	M
N09R-03-BEN	Dean Branch						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			1.92	2016	L
N10R-01-TEMP	Reed Creek						
Aquatic Life	Temperature, water	5A			1.43	2012	L
N11R-02-BEN	Reed Creek tributary						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			2.67	2010	M
N13R-01-BAC	Big Reed Island Creek						
Recreation	Escherichia coli	5A			19.85	2008	M, 2yr
N13R-01-BEN	Big Reed Island Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			19.85	2008	H, 2yr
N13R-02-BAC	Snake Creek						
Recreation	Escherichia coli	5A			3.54	2014	M, 2yr
N14R-01-BAC	Big Reed Island Creek						
Recreation	Fecal Coliform	5A			7.55	2004	H, 2yr
	Escherichia coli	5A			13.81	2010	H, 2yr
	Fecal Coliform	5A			13.81	2014	H, 2yr
N14R-02-BAC	Greasy Creek						
Recreation	Escherichia coli	5A			13.63	2008	H, 2yr
N14R-03-BAC	Big Reed Island Creek						
Recreation	Escherichia coli	5A			9.85	2008	L
N14R-03-BEN	Island Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			13.35	2012	H, 2yr
N15R-01-BAC	Little Reed Island Creek						
Recreation	Escherichia coli	5A			35.98	2008	H, 2yr
N15R-01-TEMP	Little Reed Island Creek						
Aquatic Life	Temperature, water	5A			19.70	2008	H, 2yr



2016 Impaired Waters - 303(d) List

Category 5 - Waters needing Total Maximum Daily Load Study

New River Basin

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
N16R-01-BAC Recreation	Big Macks Creek Escherichia coli	5A			3.78	2014	H, 2yr
N18R-02-BAC Recreation	Connellys Run Escherichia coli	5A			2.85	2010	H, 2yr
N18R-03-BAC Recreation	Plum Creek Escherichia coli	5A			4.72	2010	H, 2yr
N22R-02-BAC Recreation	Stroubles Creek Escherichia coli Escherichia coli	5A 5A			5.08 2.11	2006 2010	H, 2yr H, 2yr
N22R-04-BAC Recreation	Toms Creek Escherichia coli	5A			6.13	2014	H, 2yr
N22R-04-TEMP Aquatic Life	Toms Creek Temperature, water Temperature, water Temperature, water	5C 5C 5C			5.71 6.13 4.56	2008 2012 2014	L L L
N22R-05-BAC Recreation	New River Escherichia coli	5A			9.78	2016	L
N22R-06-BEN Aquatic Life	Unnamed Tributaries XEJ and XEH to Slate Branch Benthic-Macroinvertebrate Bioassessments	5A			2.51	2008	M
N23R-01-BAC Recreation	Sinking Creek Escherichia coli	5A			21.03	2010	H, 2yr
N25R-01-BAC Recreation	Walker Creek Escherichia coli Fecal Coliform Escherichia coli	5A 5A 5A			33.53 25.07 4.40	2006 2006 2010	H H H
N26R-01-BAC Recreation	East Wilderness Creek, Nobusiness Creek and Kimberling Creek Fecal Coliform Escherichia coli Escherichia coli Escherichia coli	5A 5A 5A 5A			6.83 10.23 6.83 2.53	2002 2010 2014 2016	H H H H
N27R-01-BAC Recreation	Little Walker Creek Escherichia coli	5A			17.48	2006	H, 2yr
N29R-01-BAC Recreation	New River Escherichia coli	5A			13.67	2014	H, 2yr



2016 Impaired Waters - 303(d) List

Category 5 - Waters needing Total Maximum Daily Load Study

New River Basin

Cause Group Code Impaired Use	Water Name Cause	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
N29R-01-PCB	New River, Reed Creek, Claytor Lake, Peak Creek, Stony Creek, Walker Creek, And Unknown Tributary XAG.						
Fish Consumption	PCB in Fish Tissue	5A		295.02	55.92	2002	H
	PCB in Fish Tissue	5A			0.51	2006	H
	PCB in Fish Tissue	5A		4,009.54	34.38	2006	H
	PCB in Fish Tissue	5A			8.37	2010	H
	PCB in Water Column	5A			8.39	2014	H
	PCB in Water Column	5A			3.20	2016	H
	PCB in Water Column	5A			3.49	2016	H
	PCB in Fish Tissue	5A			5.85	2016	H
N30R-01-BAC	Wolf Creek and Tributaries						
Recreation	Fecal Coliform	5A			9.11	2002	H
	Escherichia coli	5A			14.36	2006	H
	Escherichia coli	5A			3.80	2006	H
	Escherichia coli	5A			9.11	2006	H
	Escherichia coli	5A			1.89	2010	H
	Escherichia coli	5A			1.89	2014	H
N30R-01-BEN	Little Creek						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5A			1.89	2010	M
N32R-00-BAC	Clear Fork						
Recreation	Escherichia coli	5A			8.94	2012	M
N32R-01-BAC	Wolf Creek						
Recreation	Escherichia coli	5A			5.61	2006	H
	Escherichia coli	5A			16.71	2006	H
N32R-01-TEMP	Wolf Creek						
Aquatic Life	Temperature, water	5C			7.91	2014	M
N33R-01-BAC	Laurel Creek						
Recreation	Fecal Coliform	5A			1.64	2002	H
	Escherichia coli	5A			1.64	2006	H
	Escherichia coli	5A			6.56	2012	H
N33R-01-TEMP	Dry Fork						
Aquatic Life	Temperature, water	5A			5.24	2012	M
N34R-01-BAC	Rich Creek						
Recreation	Escherichia coli	5A			2.85	2008	H, 2yr
N35R-01-BAC	Adair Run						
Recreation	Escherichia coli	5A			0.37	2010	H, 2yr
N36R-01-CDANE	Bluestone River						
Fish Consumption	Chlordane	5A			0.62	2004	L
N36R-01-PCB	Bluestone River						
Fish Consumption	PCB in Fish Tissue	5A			13.62	2002	H, 2yr
	PCB in Water Column	5A			1.48	2010	H, 2yr
	PCB in Water Column	5A			2.99	2012	H, 2yr



2016 Impaired Waters - 303(d) List

Category 5 - Waters needing Total Maximum Daily Load Study

New River Basin

Cause Group Code	Water Name	Cause Category	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)	Initial List Date	TMDL Dev. Priority
Impaired Use	Cause						
N37R-02-BEN	Laurel Fork						
Aquatic Life	Benthic-Macroinvertebrate Bioassessments	5C			8.30	2014	L
N37R-02-DO	Laurel Fork						
Aquatic Life	Oxygen, Dissolved	5C			8.30	2010	L

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