



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F01L-01-HG

Lake Gordonsville

Location: Includes the entirety of Lake Gordonsville, also known as Bowers Mill Lake.

City / County: Louisa Co.

Use(s): Fish Consumption

Cause(s) /

VA Category: Mercury in Fish Tissue / 5A

The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, mercury fish consumption advisory. The advisory, dated 09/30/04, limits largemouth bass consumption to no more than two meals per month.

Lake Gordonsville	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fish Consumption			
Mercury in Fish Tissue - Total Impaired Size by Water Type:			77.31

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F01R-01-BEN

South Anna River

Location: Begins at the headwaters of an unnamed tributary, located approximately 1 mile downstream of the Route 860 bridge, to the South Anna River and continues downstream until the confluence with Dove Fork.

City / County: Louisa Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Benthic-Macroinvertebrate Bioassessments / 5A

2014 Assessment: Four biological monitoring events from station 8-SAR097.82 in 2007 and 2008 resulted in a VSCI score which indicates an impaired macroinvertebrate community.

South Anna River	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Benthic-Macroinvertebrate Bioassessments - Total Impaired Size by Water Type:			1.90

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F01R-02-BEN

Wheeler Creek

Location: Begins at the headwaters of Wheeler Creek and continues downstream until the confluence with Camp Creek.

City / County: Albemarle Co. Louisa Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Benthic-Macroinvertebrate Bioassessments / 5A

Three biological monitoring events in 2009 and 2010 resulted in a VSCI score which indicates an impaired macroinvertebrate community.

Wheeler Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Benthic-Macroinvertebrate Bioassessments - Total Impaired Size by Water Type:			6.00

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F01R-03-BEN **Camp Creek**

Location: Begins at the confluence with Central Branch and continues downstream to the confluence with Wheeler Creek.

City / County: Louisa Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Benthic-Macroinvertebrate Bioassessments / 5A

Three of three biological monitoring events in 2006 and 2008 from station 8-WLR000.31 resulted in a VSCI score which indicates an impaired macroinvertebrate community.

Camp Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Benthic-Macroinvertebrate Bioassessments - Total Impaired Size by Water Type:			2.01

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: **F03R-01-BEN** **Cub Creek**

Location: Begins at the confluence with Turners Creek and continues downstream until the confluence with the South Anna River.

City / County: Louisa Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Benthic-Macroinvertebrate Bioassessments / 5A

Two biological monitoring events in 2012 at station 8-CUB002.73 resulted in a VSCI score which indicates an impaired macroinvertebrate community.

Cub Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Benthic-Macroinvertebrate Bioassessments - Total Impaired Size by Water Type:			3.10

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F03R-02-BEN **Taylors Creek**

Location: Begins at the headwaters of Taylors Creek and continues downstream until the confluence with the South Anna River.

City / County: Hanover Co. Louisa Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Benthic-Macroinvertebrate Bioassessments / 5A

Two biological monitoring events in 2013 at station 8-TLR005.30 and two biological monitoring events in 2014 at station 8-TLR014.44 resulted in a VSCI score which indicates an impaired macroinvertebrate community.

Taylors Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Benthic-Macroinvertebrate Bioassessments - Total Impaired Size by Water Type:			16.54

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F03R-03-DO

Cub Creek

Location: Begins at the confluence with Turners Creek and continues downstream until the confluence with the South Anna River.

City / County: Louisa Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5A

Excursions below the minimum dissolved oxygen criterion (4 of 12 samples - 33.3%) from station 3-CUB001.73, at Route 601.

Cub Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Oxygen, Dissolved - Total Impaired Size by Water Type:			3.10

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F04R-03-DO

Stagg Creek

Location: Headwaters to mouth at South Anna River

City / County: Hanover Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5C

During the 2008 cycle, Stagg Creek was assessed as not supporting of the Aquatic Life Use due to a dissolved oxygen exceedance rate of 2/11 at 8-STG005.46 (Route 686).

Additional monitoring was conducted in the 2016 cycle, however the data was insufficient for assessment (1/9). In addition, 2009 sampling at freshwater probabilistic monitoring station 8-STG000.73 was acceptable; therefore, further monitoring is warranted.

Stagg Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			6.56
Oxygen, Dissolved - Total Impaired Size by Water Type:			

Sources:

- Natural Conditions - Water
- Quality Standards Use
- Attainability Analyses
- Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F04R-03-PH

Stagg Creek

Location: Headwaters to mouth at South Anna River

City / County: Hanover Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: pH / 5C

During the 2016 cycle, Stagg Creek was impaired of the Aquatic Life Use due to a pH exceedance rate of 3/9 at 8-STG005.46 (Route 686) as well as 1/2 at 8-STG000.73.

Stagg Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			6.56
pH - Total Impaired Size by Water Type:			

Sources:

- Natural Conditions - Water
- Quality Standards Use
- Attainability Analyses
- Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F06R-04-BAC

North Anna River

Location: Begins at the confluence with Mountain Run and continues downstream until the confluence with White Oak Creek and begins again at the confluence with Beaver Creek and continues downstream until the confluence with Hickory Creek.

City / County: Louisa Co. Orange Co.

Use(s): Recreation

Cause(s) /

VA Category: Escherichia coli / 5A

E. coli bacteria criterion excursions (12 of 34 samples - 35.3%) from station 8-NAR061.09, at Route 651. E. coli bacteria criterion excursions at citizen monitoring station 8HIK-EX5-LACA (2 of 7 samples - 28.6%). 2014 Assessment: E. coli bacteria criterion excursions (9 of 12 samples - 75.0%) from station 8-NAR066.42, at Route 639.

North Anna River	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Recreation			
Escherichia coli - Total Impaired Size by Water Type:			6.57

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F06R-05-BAC

Christopher Creek

Location: Begins at an unnamed tributary to Christopher Creek and continues downstream until the confluence with Lake Anna.

City / County: Louisa Co.

Use(s): Recreation

Cause(s) /

VA Category: Escherichia coli / 5A

2014 Assessment: E. coli bacteria criterion excursions (8 of 11 samples - 72.7%) from station 8-CRC001.82, at Route 613.

Christopher Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Recreation			
Escherichia coli - Total Impaired Size by Water Type:			1.98

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F06R-06-BAC

Hickory Creek

Location: Begins at the confluence with Fox Branch and continues downstream to the confluence with the North Anna River.

City / County: Louisa Co.

Use(s): Recreation

Cause(s) /

VA Category: Escherichia coli / 5A

E. coli bacteria criterion excursions (5 of 12 samples - 41.7%) at station 8-HIK001.20, at Route 669. E. coli bacteria criterion excursions at citizen monitoring station 8HIK-EX2-LACA (9 of 11 samples - 81.8%).

Hickory Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Recreation			
Escherichia coli - Total Impaired Size by Water Type:			1.72

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: **F06R-08-BAC** **Duckinhoe Creek**

Location: Begins at the headwaters of Duckinhoe Creek and continues downstream until the confluence with Lake Anna.

City / County: Louisa Co.

Use(s): Recreation

Cause(s) /

VA Category: Escherichia coli / 5A

E. coli bacteria criterion excursions (8 of 12 samples - 66.7%) from station 8-DKH001.44, at Route 613.

Duckinhoe Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Recreation			
Escherichia coli - Total Impaired Size by Water Type:			6.98

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F06R-09-BAC

South Fork Hickory Creek

Location: Begins at the headwaters of South Fork Hickory Creek and continues downstream until the confluence with the North Fork Hickory Creek

City / County: Louisa Co.

Use(s): Recreation

Cause(s) /

VA Category: Escherichia coli / 5A

E. coli bacteria criterion excursions (2 of 12 samples - 16.7%) from station 8-HCS000.20, at Route 692.

South Fork Hickory Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Recreation			
Escherichia coli - Total Impaired Size by Water Type:			4.63

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F07L-01-BAC

Goldmine Creek/Lake Anna

Location: Segment includes the Gold Mine Creek arm of Lake Anna

City / County: Louisa Co.

Use(s): Recreation

Cause(s) /

VA Category: Escherichia coli / 5A

2014 Assessment: E. coli bacteria criterion excursions (3 of 28 samples - 10.7%) from station 8-MAR003.24, at the DEQ and LACA colocated lake monitoring station 8-GMC000.23/8GMC-13-LACA.

Goldmine Creek/Lake Anna

Recreation

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Escherichia coli - Total Impaired Size by Water Type:

91.62

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F07L-01-BZOKFL **Gold Mine Creek**

Location: Segment begins at the headwaters of Gold Mine Creek and continues downstream until the confluence with Lake Anna.

City / County: Louisa Co.

Use(s): Fish Consumption

Cause(s) /

VA Category: Benzo[k]fluoranthene / 5A

2010 Assessment: Excursions above the water quality criterion based fish tissue value (TV) of 5.5 parts per billion (ppb) for benzo(k)fluoranthene in fish tissue were recorded in two species (largemouth bass and carp) of fish sampled (2 total excursions) in 2003 at station 8-GMC001.43.

Gold Mine Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fish Consumption			
Benzo[k]fluoranthene - Total Impaired Size by Water Type:		91.62	7.53

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F07L-01-HG

Lake Anna

Location: Segment includes the lower portion of Lake Anna, beginning near the northern end of the Route 690 bridge, and continues downstream until the dam.

City / County: Louisa Co. Spotsylvania Co.

Use(s): Fish Consumption

Cause(s) /

VA Category: Mercury in Fish Tissue / 5A

2010 Assessment: Excursions above the fish tissue value (TV) of 300 parts per billion (ppb) for mercury (Hg) in fish tissue were recorded in tissue from one species of fish (carp) sampled in 2003 and in tissue from one species of fish (channel catfish) sampled in 2006 at monitoring station 8-NAR034.92.

Lake Anna	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fish Consumption			
Mercury in Fish Tissue - Total Impaired Size by Water Type:			1,563.36

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F07L-01-PAHHMW Gold Mine Creek

Location: Begins at the headwaters of Gold Mine Creek and continues downstream until the confluence with Lake Anna (impairment includes the Gold Mine Creek arm).

City / County: Louisa Co.

Use(s): Fish Consumption

Cause(s) /

VA Category: Benzo(a)pyrene (PAHs) / 5A

2010 Assessment: Excursions above the water quality criterion based fish tissue value (TV) of 5.5 parts per billion (ppb) for benzo(a)pyrene in fish tissue were recorded in two species (largemouth bass and carp) of fish sampled (2 total excursions) in 2003 at station 8-GMC001.43.

Gold Mine Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fish Consumption			
Benzo(a)pyrene (PAHs) - Total Impaired Size by Water Type:		91.62	7.53

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F07L-01-PCB

Lake Anna and Contrary Creek, Goldmine Creek, and Terrys Run tributaries

Location: Includes the entirety of Lake Anna, including its tributaries Terrys Run, Goldmine Creek, and Contrary Creek.

City / County: Louisa Co. Orange Co. Spotsylvania Co.

Use(s): Fish Consumption

Cause(s) /

VA Category: PCB in Fish Tissue / 5A

PCB in Water Column / 5A

The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, PCB fish consumption advisory. The advisory, dated 6/15/04 and modified 12/13/04 and 08/31/07, limits consumption of bluegill sunfish, carp, channel catfish, largemouth bass, striped bass, white catfish, and white perch to no more than two meals per month. The advisory also bans the consumption of gizzard shad.

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Lake Anna and Contrary Creek, Goldmine Creek, and Terrys Run tributaries			
Fish Consumption			
PCB in Fish Tissue - Total Impaired Size by Water Type:		9,596.81	23.06
Lake Anna and Contrary Creek, Goldmine Creek, and Terrys Run tributaries			
Fish Consumption			
PCB in Water Column - Total Impaired Size by Water Type:		1,233.83	

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F07L-02-HG

Terrys Run/Lake Anna

Location: Segment includes the Terrys Run arm of Lake Anna.

City / County: Orange Co. Spotsylvania Co.

Use(s): Fish Consumption

Cause(s) /

VA Category: Mercury in Fish Tissue / 5A

2010 Assessment: Excursions above the fish tissue value (TV) of 300 parts per billion (ppb) for mercury (Hg) in fish tissue were recorded in tissue from one species of fish (carp) sampled in 2003 and in tissue from one species of fish (largemouth bass - 2 excursions) sampled in 2006 at monitoring station 8-TRY001.33.

Terrys Run/Lake Anna	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fish Consumption			
Mercury in Fish Tissue - Total Impaired Size by Water Type:			431.09

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F07L-02-PAHHMW Gold Mine Creek

Location: Begins at the headwaters of Gold Mine Creek and continues downstream until the confluence with Lake Anna (impairment includes the Gold Mine Creek arm)..

City / County: Louisa Co.

Use(s): Fish Consumption

Cause(s) /

VA Category: Benzo[b]fluoranthene / 5A

2010 Assessment: Excursions above the water quality criterion based fish tissue value (TV) of 5.5 parts per billion (ppb) for benzo(b)fluoranthene in fish tissue were each recorded in two species (largemouth bass and carp) of fish sampled (2 total excursions) in 2003 at station 8-GMC001.43.

Gold Mine Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fish Consumption			
Benzo[b]fluoranthene - Total Impaired Size by Water Type:		91.62	7.53

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F07R-01-BEN

Pamunkey Creek

Location: Begins at the confluence of Tomahawk Creek and Church Creek, forming Pamunkey Creek, and continues downstream until the confluence with Clear Creek.

City / County: Orange Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Benthic-Macroinvertebrate Bioassessments / 5A

Two biological monitoring events in 2010 at station 8-PMC014.75 resulted in a VSCI score which indicates an impaired macroinvertebrate community.

Pamunkey Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Benthic-Macroinvertebrate Bioassessments - Total Impaired Size by Water Type:			7.21

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F08R-01-PH

Contrary Creek

Location: Begins at the headwaters of Contrary Creek and continues downstream until approximately rivermile 3.53, partially into the inundated waters of Lake Anna.

City / County: Louisa Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: pH / 5A

Excursions below the lower limit of the pH criterion range (34 of 34 samples - 100.0%) from station 8-CON005.38.

Contrary Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
pH - Total Impaired Size by Water Type:			
		27.87	5.52

Sources:

Impacts from Abandoned
Mine Lands (Inactive)



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F08R-01-TEMP **Contrary Creek**

Location: Begins at the headwaters of Contrary Creek and continues downstream until approximately rivermile 3.53, partially into the inundated waters of Lake Anna.

City / County: Louisa Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Temperature, water / 5A

Excursions above the maximum temperature criterion (4 of 34 samples - 11.8%) from station 8-CON005.38.

Contrary Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Temperature, water - Total Impaired Size by Water Type:			5.52

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F09R-02-BEN

North Anna River, UT (XHS)

Location: Unnamed Tributary XHS from its headwaters to its mouth at the North Anna River

City / County: Hanover Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Benthic-Macroinvertebrate Bioassessments / 5A

The unnamed tributary was assessed as not supporting of the Aquatic Life Use in the 2008 cycle due to impairment of the benthic community at station 8-XHS000.72.

Additional 2011 and 2012 benthic monitoring at 8-XHS000.49 also showed benthic community impairment.

North Anna River, UT (XHS)	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Benthic-Macroinvertebrate Bioassessments - Total Impaired Size by Water Type:			1.09

Sources:

Industrial Point Source
Discharge

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F09R-03-PH

North Anna River, UT (XIM)

Location: Unnamed Tributary XIM from its mouth at the North Anna River to the first tributary (near Chandler Crossing)

City / County: Caroline Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: pH / 5C

During the 2010 cycle, the tributary was assessed as not supporting of the Aquatic Life Use due to a pH exceedance rate of 2/2 at freshwater probabilistic monitoring station 8-XIM000.53.

Additional monitoring was conducted during the 2016 cycle; the exceedance rate was 2/12.

North Anna River, UT (XIM)	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
pH - Total Impaired Size by Water Type:			0.70

Sources:

- Natural Conditions - Water
- Quality Standards Use
- Attainability Analyses
- Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F09R-04-PH

Mill Creek

Location: Mill Creek in its entirety.

City / County: Caroline Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: pH / 5C

During the 2012 cycle, Mill Creek was impaired of the Aquatic Life Use due to a pH violation rate of 5/13 at the Route 652 bridge (8-MLL001.19).

Mill Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
pH - Total Impaired Size by Water Type:			4.37

Sources:

- Natural Conditions - Water
- Quality Standards Use
- Attainability Analyses
- Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F09R-05-PH

North Anna River, UT - XJP

Location: Headwaters to mouth

City / County: Hanover Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: pH / 5C

During the 2016 cycle, tributary XJP was impaired of the Aquatic Life Use due to a pH exceedance rate of 6/7 at station 8-XJP000.01, which is located 15 meters above the mouth.

North Anna River, UT - XJP

Aquatic Life

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

pH - Total Impaired Size by Water Type:

1.01

Sources:

- Natural Conditions - Water Quality Standards Use Attainability Analyses Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F10R-01-BAC **Little River**

Location: Begins at the confluence with Hawkins Creek and continues downstream until the confluence with Locust Creek.

City / County: Louisa Co.

Use(s): Recreation

Cause(s) /

VA Category: Escherichia coli / 5A

E. coli bacteria criterion excursions (10 of 34 samples - 29.4%) from station 8-LTL030.55, at Route 654 (Signboard Road).

Little River	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Recreation			
Escherichia coli - Total Impaired Size by Water Type:			4.17

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F10R-02-BAC **Little River**

Location: Begins at the outlet from Swift Millpond and continues downstream until the confluence with Long Creek.

City / County: Louisa Co.

Use(s): Recreation

Cause(s) /

VA Category: Escherichia coli / 5A

E. coli bacteria criterion excursions (4 of 11 samples - 36.4%) from station 8-LTL035.32, at Route 609.

Little River	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Recreation			
Escherichia coli - Total Impaired Size by Water Type:			1.29

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F10R-02-DO

Long Creek

Location: Begins at the headwaters of Long Creek and continues downstream until the confluence with Little River.

City / County: Louisa Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5C

Excursions below the minimum dissolved oxygen criterion (2 of 10 samples - 20.0%) from station 8-LNG000.94 at Route 655.

Long Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Oxygen, Dissolved - Total Impaired Size by Water Type:			5.15

Sources:

- Natural Conditions - Water
- Quality Standards Use
- Attainability Analyses
- Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F10R-03-BAC **Long Creek**

Location: Begins at the headwaters of Long Creek and continues downstream until the confluence with Little River.

City / County: Louisa Co.

Use(s): Recreation

Cause(s) /

VA Category: Escherichia coli / 5A

E. coli bacteria criterion excursions (4 of 11 samples - 36.4%) from station 8-LNG000.94 at Route 655.

Long Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Recreation			5.15
Escherichia coli - Total Impaired Size by Water Type:			5.15

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F11R-01-BEN **Locust Creek**

Location: Begins at the headwaters to of Locust Creek and continues downstream until the confluence with Little River.

City / County: Hanover Co. Louisa Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Benthic-Macroinvertebrate Bioassessments / 5A

2014 Assessment: Two biological monitoring events in 2007 at station 8-LOC000.20 (0.9 miles upstream from Route 608) resulted in a VSCI score which indicates an impaired macroinvertebrate community.

Locust Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Benthic-Macroinvertebrate Bioassessments - Total Impaired Size by Water Type:			6.59

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F11R-01-DO **Little River**

Location: The Little River from its confluence with Locust Creek downstream to the Fulcher Millpond dam.

City / County: Hanover Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5A

During the 2008 cycle, the Little River from Locust Creek downstream to Beaverdam Creek was assessed as not supporting of the Aquatic Life Use due to a dissolved oxygen violation rate of 2/9 at the Route 715 bridge (8-LTL024.86).

During the 2012 cycle, additional monitoring within the segment at station 8-LTL018.80 was acceptable; therefore, further monitoring was recommended.

The original listing station 8-LTL024.86 was subsequently monitored during the 2014 cycle. A dissolved oxygen impairment was confirmed with an exceedance rate of 10/16. The segment was shortened to end at the Fulcher Millpond dam because of the acceptable downstream dissolved oxygen levels and because of the probable impact caused by backwatering from the dam. The downstream segment was partially delisted.

Little River	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Oxygen, Dissolved - Total Impaired Size by Water Type:			6.29

Sources:

Dam or Impoundment

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F11R-02-PH

Beaverdam Creek

Location: Beaverdam Creek mainstem in its entirety.

City / County: Hanover Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: pH / 5A

During the 2012 cycle, Beaverdam Creek was assessed as not supporting of the Aquatic Life Use due to a pH violation rate of 3/10 at the Route 601 bridge (8-BDC000.05).

Beaverdam Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			8.47
pH - Total Impaired Size by Water Type:			

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F12R-05-DO

Mechumps Creek

Location: Headwaters to the confluence with unnamed tributary to XEG

City / County: Hanover Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5A

During the 2010 cycle, Mechumps Creek from its headwaters to the confluence with tributary XEG was assessed as impaired of the Aquatic Life Use due to a dissolved oxygen exceedance rate of 4/23 at 8-MCP009.56, which is located at Arbor Oak Drive.

During the 2016 cycle, the exceedance rate was 3/10.

Mechumps Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Oxygen, Dissolved - Total Impaired Size by Water Type:			1.05

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F12R-05-PH

Mechumps Creek

Location: Headwaters to the confluence with unnamed tributary to XEG

City / County: Hanover Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: pH / 5A

During the 2006 cycle, Mechumps Creek from its headwaters to the confluence with tributary XEG was assessed as impaired of the Aquatic Life Use due to pH exceedances at 8-MCP009.56, which is located at Arbor Oak Drive.

During the 2016 cycle, the exceedance rate was 4/10.

Mechumps Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
pH - Total Impaired Size by Water Type:			1.05

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F12R-07-PH

Crump Creek

Location: The mainstem of Crump Creek.

City / County: Hanover Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: pH / 5C

During the 2010 cycle, Crump Creek was assessed as not supporting of the Aquatic Life Use based on pH violations at the Route 605 bridge (8-CRU000.92). During the 2016 cycle, the violation rates in the segment were as follows:

5/24 at 8-CRU000.92
 5/12 at 8-CRU005.61
 10/12 at 8-CRU008.30

Crump Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			10.00
pH - Total Impaired Size by Water Type:			

Sources:

Natural Conditions - Water
 Quality Standards Use
 Attainability Analyses
 Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F12R-10-PH

Millpond Creek

Location: The mainstem of Millpond Creek downstream of Gravatts Millpond.

City / County: King William Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: pH / 5C

During the 2012 cycle, Millpond Creek was assessed as not supporting of the Aquatic Life Use based on pH exceedances at the Route 614 bridge (8-MLP002.74). The violation rate was 5/23 during the 2016 cycle.

Millpond Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			3.02
pH - Total Impaired Size by Water Type:			

Sources:

- Natural Conditions - Water Quality Standards Use Attainability Analyses Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F12R-11-PH **Kersey Creek**

Location: Kersey Creek mainstem in its entirety.

City / County: Hanover Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: pH / 5C

During the 2012 cycle, Kersey Creek was assessed as impaired of the Aquatic Life Use due to a pH violation rate of 4/12 at the Route 301 bridge (8-KER001.31).

Kersey Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			3.32
pH - Total Impaired Size by Water Type:			3.32

Sources:

- Natural Conditions - Water
- Quality Standards Use
- Attainability Analyses
- Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F12R-12-PH

XJC - Crump Creek, UT

Location: XJC mainstem in its entirety.

City / County: Hanover Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: pH / 5C

During the 2012 cycle, XJC was assessed as impaired of the Aquatic Life Use due to a pH violation rate of 5/12 at the Route 301 bridge (8-XJC001.12).

XJC - Crump Creek, UT

Aquatic Life

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

pH - Total Impaired Size by Water Type:

1.96

Sources:

Natural Conditions - Water
Quality Standards Use
Attainability Analyses
Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F12R-13-PH

Pollard Creek

Location: Pollard Creek mainstem in its entirety.

City / County: Hanover Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: pH / 5C

During the 2012 cycle, Pollard Creek was assessed as impaired of the Aquatic Life Use due to a pH violation rate of 8/12 at the Route 647 bridge (8-PLD001.73).

Pollard Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			4.20
pH - Total Impaired Size by Water Type:			

Sources:

- Natural Conditions - Water
- Quality Standards Use
- Attainability Analyses
- Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F13R-04-PCB

Moncuin Creek, Webb Creek

Location: From the headwaters of Webb Creek downstream to the swampy area around river mile 2.0.

City / County: King William Co.

Use(s): Fish Consumption

Cause(s) /

VA Category: PCB in Fish Tissue / 5A

During the 2010 cycle, Moncuin and Webb Creeks were assessed as impaired of the Fish Consumption Use due to exceedances of the PCB tissue value. PCBs exceeded in yellow bullhead catfish in 2003 and American eel in 2008.

Moncuin Creek, Webb Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fish Consumption			
PCB in Fish Tissue - Total Impaired Size by Water Type:			12.12

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F13R-06-DO

Sullens Creek

Location: Sullens Creek in its entirety.

City / County: King William Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5C

During the 2012 cycle, Sullens Creek was impaired of the Aquatic Life Use due to dissolved oxygen violation rates of 5/14 at the Rt. 652 bridge (8-SLN001.46) and 2/12 at the Rt. 614 bridge (8-SLN003.07).

Sullens Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Oxygen, Dissolved - Total Impaired Size by Water Type:			4.60

Sources:

- Natural Conditions - Water
- Quality Standards Use
- Attainability Analyses
- Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F13R-06-PH

Sullens Creek

Location: Sullens Creek in its entirety.

City / County: King William Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: pH / 5C

Sullens Creek from the pond at Etna Mills downstream to its mouth at Mehixen Creek was initially assessed as not supporting of the Aquatic Life Use goal during the 2004 cycle based on pH exceedances at the Route 652 bridge (8-SLN001.46).

During the 2012 cycle, the impairment was expanded upstream to the headwaters based on a violation rate of 8/13 at 8-SLN001.46 and 6/11 at 8-SLN003.07.

Sullens Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
pH - Total Impaired Size by Water Type:			4.60

Sources:

- Natural Conditions - Water
- Quality Standards Use
- Attainability Analyses
- Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F13R-09-PH

XDX - UT to XDW (Pamunkey River, UT)

Location: The mainstem of unnamed tributary XDX.

City / County: King William Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: pH / 5C

The tributary was considered as not supporting of the Aquatic Life Use goal during the 2012 cycle based on a pH violation rate of 2/11 at the Route 604 bridge (8-XDX000.38).

XDX - UT to XDW (Pamunkey River, UT)

Aquatic Life

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

pH - Total Impaired Size by Water Type:

3.85

Sources:

- Natural Conditions - Water Quality Standards Use Attainability Analyses Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F13R-11-PH

XDW - UT to Pamunkey River

Location: The mainstem of unnamed tributary XDW.

City / County: King William Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: pH / 5C

The tributary was assessed as not supporting of the Aquatic Life Use goal during the 2012 cycle based on pH exceedances at the Route 604 bridge (8-XDW000.67). The violation rate was 4/23 during the 2016 cycle.

XDW - UT to Pamunkey River	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			5.51
pH - Total Impaired Size by Water Type:			5.51

Sources:

- Natural Conditions - Water Quality Standards Use Attainability Analyses Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F13R-12-PH

Judy Swamp

Location: Judy Swamp from its headwaters to its mouth at the Pamunkey River.

City / County: King William Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: pH / 5C

During the 2012 cycle, Judy Swamp was impaired of the Aquatic Life Use due to pH exceedances at 8-JDY000.19 and at 8-JDY001.27, the Rt. 604 and Rt. 639 bridges.

The 2016 cycle's exceedance rates were 4/10 and 9/23, respectively.

Judy Swamp	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
pH - Total Impaired Size by Water Type:			3.33

Sources:

- Natural Conditions - Water
- Quality Standards Use
- Attainability Analyses
- Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F13R-13-HG

Pamunkey River

Location: The Pamunkey River from Nelson Bridge Road (Route 15) downstream approximately 72 miles to the mouth at the York River.

City / County: Hanover Co. King William Co. New Kent Co.

Use(s): Fish Consumption

Cause(s) /

VA Category: Mercury in Fish Tissue / 5A

On 9/30/2004, VDH issued a fish consumption advisory from Nelson Bridge Road to Jacks Creek near Liberty Hall. The advisory recommends that no one eat more than 2 meals per month of blue catfish because of mercury contamination in the fish tissue.

This condemnation was expanded on 10/7/2009 and now extends downstream to the mouth at the York River.

The advisory is based on mercury fish tissue exceedances at DEQ monitoring stations 8-PMK056.87, 8-PMK032.00, and 8-PMK006.36.

Pamunkey River	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fish Consumption			
Mercury in Fish Tissue - Total Impaired Size by Water Type:	10.513		11.55

Sources:

Atmospheric Deposition -
Toxics

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F13R-13-PCB **Pamunkey River**

Location: The Pamunkey River from Nelson Bridge Road (Route 15) downstream approximately 72 miles to the mouth at the York River.

City / County: Hanover Co. King William Co. New Kent Co.

Use(s): Fish Consumption

Cause(s) /

VA Category: PCB in Fish Tissue / 5A

On 10/7/2009, VDH issued a fish consumption advisory from Nelson Bridge Road to the mouth at West Point. The advisory recommends that no one eat more than 2 meals per month of gizzard shad because of PCB contamination in the fish tissue.

The advisory is based on PCB fish tissue exceedances at DEQ monitoring stations 8-PMK056.87, 8-PMK032.00, and 8-PMK006.36.

Pamunkey River	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fish Consumption			
PCB in Fish Tissue - Total Impaired Size by Water Type:	10.513		11.55

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F13R-14-PH

Mehixen Creek and tributary XIV

Location: Headwaters to mouth at the Pamunkey River

City / County: King William Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: pH / 5C

During the 2012 cycle, the creeks were impaired of the Aquatic Life Use due to pH violation rates of 4/11 at stations 8-MHX001.50 and 8-XIV000.88, which are both located at Rt. 652.

Mehixen Creek and tributary XIV	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
pH - Total Impaired Size by Water Type:			6.44

Sources:

- Natural Conditions - Water Quality Standards Use
- Attainability Analyses Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F14E-05-EBEN Pamunkey River

Location: The oligohaline Pamunkey mainstem.

City / County: King William Co. New Kent Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Estuarine Bioassessments / 5A

The oligohaline Pamunkey River mainstem initially failed the Chesapeake Bay Index of Biologic Integrity during the 2010 cycle. The impairment continued during the 2014 cycle.

In addition, a weight-of-evidence analysis at estuarine probabilistic monitoring station 8-PMK017.90 showed benthic alteration probably caused by metals in sediment (Category 5A).

Pamunkey River	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Estuarine Bioassessments - Total Impaired Size by Water Type:	5.272		

Sources:

- | | | | |
|------------------------|-----------------------------------|-----------------------------------|------------------|
| Contaminated Sediments | Industrial Point Source Discharge | Municipal Point Source Discharges | Non-Point Source |
| Source Unknown | | | |



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F14R-01-DO

Cohoke Mill Creek

Location: Cohoke Mill Stream mainstem from its headwaters downstream to Cohoke Millpond

City / County: King William Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5C

During the 2010 cycle, Cohoke Mill Stream was assessed as not supporting of the Aquatic Life Use based on dissolved oxygen violations at 8-CMC005.16, which is located at the Route 626 bridge. The exceedance rate was 9/25 during the 2014 cycle.

Cohoke Mill Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Oxygen, Dissolved - Total Impaired Size by Water Type:			7.38

Sources:

- Natural Conditions - Water Quality Standards Use Attainability Analyses Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F14R-02-DO

Harrison Creek

Location: Harrison Creek and tributary upstream of pond at Elsing Green upstream to nearest tributaries.

City / County: King William Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5C

During the 2014 cycle, Harrison Creek was assessed as not supporting of the Aquatic Life Use based on a dissolved oxygen exceedance rate of 2/11 at the Route 632 bridge (8-HSN002.12). Monitoring at stations 8-HSN002.43 and 8-HSN003.93 was acceptable (1/11).

Harrison Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Oxygen, Dissolved - Total Impaired Size by Water Type:			2.80

Sources:

- Natural Conditions - Water
- Quality Standards Use
- Attainability Analyses
- Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F14R-04-PH

XJD - Harrison Creek, UT

Location: Harrison Creek, UT from its headwaters to its mouth at Harrison Creek

City / County: King William Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: pH / 5C

During the 2012 cycle, XJD was impaired of the Aquatic Life Use due to pH exceedances at 8-XJD000.02. The violation rate was 5/11 during the 2014 cycle.

XJD - Harrison Creek, UT	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
pH - Total Impaired Size by Water Type:			0.16

Sources:

- Natural Conditions - Water Quality Standards Use
- Attainability Analyses Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F15R-01-BEN **Ni River**

Location: Begins at the confluence of an unnamed tributary to the Ni River, approximately 0.95 rivermiles downstream from the Route 608 bridge, and continues downstream until the confluence with the Po River, forming the Poni River.

City / County: Caroline Co. Spotsylvania Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Benthic-Macroinvertebrate Bioassessments / 5A

2014 Assessment: Three biological monitoring events in 2007 and 2008 resulted in a VSCI score which indicates an impaired macroinvertebrate community.

Ni River	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Benthic-Macroinvertebrate Bioassessments - Total Impaired Size by Water Type:			5.68

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F15R-01-DO **Brock Run**

Location: Begins at the confluence with Aunt Sarah Spring Creek and continues downstream until the confluence with the Ni River.

City / County: Spotsylvania Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5A

Excursions below the minimum dissolved oxygen criterion (2 of 9 samples - 22.2%) from station 8-BRK000.06, at Jackson Train off Route 613, and excursions below the minimum dissolved oxygen criterion (8 of 51 samples - 15.7%) recorded at NPS's water quality monitoring station (8BRK-04-NPS) near Jackson Trail.

Brock Run	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Oxygen, Dissolved - Total Impaired Size by Water Type:			2.56

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F15R-01-PH **Brock Run**

Location: Begins at the headwaters of Brock Run, and continues downstream to the confluence with Aunt Sarah Spring Creek.

City / County: Spotsylvania Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: pH / 5A

Excursions below the lower limit of the pH criterion range (2 of 16 samples - 12.5%) recorded at NPS's water quality monitoring station (8BRK-17-NPS) in Wilderness Battlefield.

Brock Run	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
pH - Total Impaired Size by Water Type:			3.21

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F15R-02-DO **Lewis Run**

Location: Begins at the outlet of Cool Spring Lake, and continues downstream to the confluence with the Ni River.

City / County: Caroline Co. Spotsylvania Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5A

Sufficient excursions below the minimum dissolved oxygen criterion (7 of 52 samples - 13.5%) were recorded at NPS's water quality monitoring station (8LWS-01-NPS) upstream of Sickles Drive.

Lewis Run	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Oxygen, Dissolved - Total Impaired Size by Water Type:			1.46

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F15R-02-PH

Unnamed tributary to Cool Spring Lake

Location: Begins at the headwaters of the unnamed tributary, and continues downstream to the inlet of Cool Spring Lake.

City / County: Caroline Co. Spotsylvania Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: pH / 5A

Sufficient excursions below the lower limit of the pH criterion range (6 of 51 samples - 11.8%) were recorded NPS's water quality monitoring station (8XJM-02-NPS) downstream of Stuart Drive.

Unnamed tributary to Cool Spring Lake	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
pH - Total Impaired Size by Water Type:			1.29

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F15R-03-DO

Unnamed tributary to Cool Spring Lake

Location: Begins at the headwaters of the unnamed tributary, and continues downstream to the inlet of Cool Spring Lake.

City / County: Caroline Co. Spotsylvania Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5A

Sufficient excursions below the minimum dissolved oxygen criterion (9 of 30 samples - 30.0%) were recorded at NPS's water quality monitoring station (8XJM-02-NPS) downstream of Stuart Drive.

Unnamed tributary to Cool Spring Lake	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Oxygen, Dissolved - Total Impaired Size by Water Type:			1.29

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F17L-01-HG

Bowies Pond

Location: Includes all of Bowies Pond.

City / County: Caroline Co.

Use(s): Fish Consumption

Cause(s) /

VA Category: Mercury in Fish Tissue / 5A

2012 Assessment: Excursions above the fish tissue value (TV) of 300 parts per billion (ppb) for mercury (Hg) in fish tissue were recorded in tissue from three species (bowfin, chain pickerel, largemouth bass) of fish sampled (six total excursions) in 2005 at monitoring station 8-CAM001.00.

Bowies Pond	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fish Consumption			
Mercury in Fish Tissue - Total Impaired Size by Water Type:			25.71

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: **F18R-01-DO** **Ta River**

Location: Begins at the confluence with Bluff Run, approximately 0.7 rivermile upstream from Route 738, and continues downstream until the confluence with the Mat River, forming the Matta River.

City / County: Spotsylvania Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5C

2014 Assessment: Excursions below the minimum dissolved oxygen criterion (2 of 11 samples - 18.2%) from station (8-TAR002.40), at Route 738.

Ta River	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Oxygen, Dissolved - Total Impaired Size by Water Type:			3.76

Sources:

- Natural Conditions - Water
- Quality Standards Use
- Attainability Analyses
- Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F18R-02-PH **Ta River**

Location: Begins at the confluence with Bluff Run, approximately 0.7 rivermile upstream from Route 738, and continues downstream until the confluence with the Mat River, forming the Matta River.

City / County: Spotsylvania Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: pH / 5C

2014 Assessment: Excursions below the lower limit of the pH criterion range (2 of 11 samples - 18.2%) from station 8-TAR002.40, at Route 738.

Ta River	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
pH - Total Impaired Size by Water Type:			3.76

Sources:

- Natural Conditions - Water
- Quality Standards Use
- Attainability Analyses
- Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F18R-03-BEN Matta River

Location: Begins at the confluence of the Mat River and the Ta River and continues downstream until the confluence with an unnamed tributary to the Matta River, approximately 0.5 rivermile upstream from Route 646.

City / County: Spotsylvania Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Benthic-Macroinvertebrate Bioassessments / 5A

2010 Assessment: One of two biological monitoring events in 2003 at station 8-MTA012.09 (upstream of Route 646) both resulted in a VSCI score which indicates an impaired macroinvertebrate community, as does the mean score of these two samples.

Matta River	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Benthic-Macroinvertebrate Bioassessments - Total Impaired Size by Water Type:			1.24

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F20R-01-BEN **Polecat Creek**

Location: Begins at the confluence with Hackett Creek, approximately 0.5 rivermile upstream from Route 207, and continues downstream until the confluence with the Mattaponi River.

City / County: Caroline Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Benthic-Macroinvertebrate Bioassessments / 5A

Two biological monitoring events from station 8-PCT002.2 in 2011 resulted in a VSCI score which indicates an impaired macroinvertebrate community.

Polecat Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Benthic-Macroinvertebrate Bioassessments - Total Impaired Size by Water Type:			6.97

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F20R-01-DO

Polecat Creek

Location: Begins at the confluence with Hackett Creek, approximately 0.5 rivermile upstream from Route 207, and continues downstream until the confluence with the Mattaponi River.

City / County: Caroline Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5C

Excursions below the minimum dissolved oxygen criterion (5 of 8 samples - 50.0%) from station 8-PCT005.44, at Polecat Creek below Caroline County POTW, and excursions below the minimum dissolved oxygen criterion (5 of 8 samples - 62.5%) from station 8-PCT006.34, at Route 207.

Polecat Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Oxygen, Dissolved - Total Impaired Size by Water Type:			6.97

Sources:

- Natural Conditions - Water
- Quality Standards Use
- Attainability Analyses
- Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F20R-02-PH

Polecat Creek

Location: Begins at the headwaters of Polecat Creek and continues downstream until the confluence with Stevens Mill Run.

City / County: Caroline Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: pH / 5C

Excursions below the lower limit of the pH criterion range (3 of 21 samples - 14.3%) from station 8-PCT010.10 at Route 652.

Polecat Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
pH - Total Impaired Size by Water Type:			5.31

Sources:

- Natural Conditions - Water
- Quality Standards Use
- Attainability Analyses
- Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F21R-01-BEN Herring Creek

Location: Begins at the headwaters of Herring Creek and continues downstream until the confluence with Millpond Creek.

City / County: Caroline Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Benthic-Macroinvertebrate Bioassessments / 5A

2008 Assessment: Two biological monitoring events in 2002 at station 8-HER012.99 (downstream of Route 601) resulted in a MACS score which indicates an impaired macroinvertebrate community.

Herring Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Benthic-Macroinvertebrate Bioassessments - Total Impaired Size by Water Type:			4.75

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F21R-01-HG

Herring Creek

Location: Extends from the Route 628 bridge (Dorrell Road) to the confluence with the Mattaponi River.

City / County: King William Co.

Use(s): Fish Consumption

Cause(s) /

VA Category: Mercury in Fish Tissue / 5A

The fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, mercury fish consumption advisory. The advisory, dated 09/30/04, limits bluegill sunfish and yellow bullhead catfish consumption to no more than two meals per month.

Herring Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fish Consumption			
Mercury in Fish Tissue - Total Impaired Size by Water Type:			7.23

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: **F21R-02-BEN** **Reedy Creek**

Location: Begins at the headwaters of Reedy Creek and continues downstream until the start of Reedy Millpond. Class VII waters.

City / County: Caroline Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Benthic-Macroinvertebrate Bioassessments / 5A

Two biological monitoring events from station 8-RDY003.43 in 2011 resulted in a VSCI score which indicates an impaired macroinvertebrate community.

Reedy Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Benthic-Macroinvertebrate Bioassessments - Total Impaired Size by Water Type:			12.69

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F21R-02-HG

Mattaponi River

Location: Extends from the Route 628 bridge and continues downstream approximately 55 miles, to the confluence with Pamunkey River near West Point.

City / County: King And Queen Co. King William Co.

Use(s): Fish Consumption

Cause(s) /

VA Category: Mercury in Fish Tissue / 5A

During the 2006 cycle, 2003 monitoring indicated three exceedances of the mercury screening value at 8-MPN041.41 (observed effect).

The VDH later issued a fish consumption advisory for mercury from the Route 628 bridge downstream about 40 miles to Melrose Landing at Rt. 602.

The advisory was revised on 10/7/2009. The advisory now extends from Route 628 downstream approximately 55 miles to the mouth of the Mattaponi at West Point. No more than two meals/month of largemouth bass are recommended because of mercury.

The advisory is based on the results of DEQ's fish tissue monitoring program, which indicated mercury exceedances at 8-MPN029.08, 8-MPN014.33 and 8-MPN041.41.

Mattaponi River	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fish Consumption			
Mercury in Fish Tissue - Total Impaired Size by Water Type:	6.965		15.70

Sources:

Atmospheric Deposition -
Toxics

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F21R-03-HG

Reedy Creek and Reedy Millpond

Location: Begins at the headwaters of Reedy Creek and continues downstream until the confluence with the Mattaponi River, includes all of Reedy Millpond.

City / County: Caroline Co. King And Queen Co. King William Co.

Use(s): Fish Consumption

Cause(s) /

VA Category: Mercury in Fish Tissue / 5A

2010 Assessment: excursions above the water quality criterion based fish tissue value (TV) of 300 parts per billion (ppb) for mercury in fish tissue were recorded in 4 species of fish (4 total samples); creek chubsucker (2003), bluegill sunfish (2008), redbreast sunfish (2008) and yellow bullhead catfish (2008), collected at monitoring station 8-RDY003.43. Also, the fish consumption use is categorized as impaired due to a Virginia Department of Health, Division of Health Hazards Control, mercury fish consumption advisory. The advisory, dated 10/07/09, limits redbreast sunfish and yellow bullhead catfish consumption to no more than two meals per month. The affected area extends from the Route 301 bridge crossing downstream to the confluence with the Mattaponi River.

Reedy Creek and Reedy Millpond	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fish Consumption			
Mercury in Fish Tissue - Total Impaired Size by Water Type:		41.25	12.82

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F21R-04-PH

Chapel Creek

Location: Begins at the confluence with Beaver Branch and continues downstream until the confluence with the Mattaponi River.

City / County: King And Queen Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: pH / 5C

Excursions below the lower limit of the pH criterion range (4 of 30 samples - 13.3%) from station 8-CPL004.15, at Route 721.

Chapel Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			4.64
pH - Total Impaired Size by Water Type:			4.64

Sources:

- Natural Conditions - Water
- Quality Standards Use
- Attainability Analyses
- Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F21R-05-BAC **Herring Creek**

Location: Begins at the confluence with Dorrell Creek and continues downstream until the confluence with an unnamed tributary to Herring Creek, at rivermile 2.14.

City / County: King William Co.

Use(s): Recreation

Cause(s) /

VA Category: Escherichia coli / 5A

E. coli bacteria criterion excursions (2 of 12 samples - 16.7%) from station 8-HER005.12, at Route 609.

Herring Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Recreation			5.09
Escherichia coli - Total Impaired Size by Water Type:			5.09

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F21R-06-BAC **Mattaponi River**

Location: Begins at the confluence with Maracossic Creek and continues downstream until the confluence with Gravel Run.

City / County: King And Queen Co. King William Co.

Use(s): Recreation

Cause(s) /

VA Category: Escherichia coli / 5A

E. coli bacteria criterion excursions (5 of 36 samples - 13.9%) from station 8-MPN054.17 at Route 628.

Mattaponi River	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Recreation			
Escherichia coli - Total Impaired Size by Water Type:			8.00

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F22L-01-HG

Collins Pond

Location: Segment includes all of Collins Pond.

City / County: Caroline Co.

Use(s): Fish Consumption

Cause(s) /

VA Category: Mercury in Fish Tissue / 5A

2010 Assessment: Excursions above the fish tissue value (TV) of 300 parts per billion (ppb) for mercury (Hg) in fish tissue were recorded in tissue from two species (largemouth bass, yellow bullhead catfish) of fish samples (three total excursions) collected in 2003 at monitoring station 8-DOC003.63.

Collins Pond

Fish Consumption

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Mercury in Fish Tissue - Total Impaired Size by Water Type:

63.93

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F22R-02-PH **Root Swamp**

Location: Begins at the headwaters of Root Swamp and continues downstream until the confluence with Beverly Run.

City / County: King And Queen Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: pH / 5C

Excursions below the lower limit of the pH criterion range (3 of 19 samples - 15.8%) from station 8-ROT001.09, at Route 721, and excursions below the lower limit of the pH criterion range (5 of 11 samples - 45.5%) from station 8-ROT003.65, at Route 649.

Root Swamp	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
pH - Total Impaired Size by Water Type:			7.83

Sources:

- Natural Conditions - Water
- Quality Standards Use
- Attainability Analyses
- Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F22R-03-DO

Unnamed tributary to Root Swamp

Location: Begins at the headwaters of an unnamed tributary to Root Swamp and continues downstream until the confluence with Root Swamp.

City / County: King And Queen Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5C

2008 Assessment: Excursions below the minimum dissolved oxygen criterion (2 of 6 samples - 33.3%) from station 8-XDY000.27, at Route 689.

Unnamed tributary to Root Swamp	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Oxygen, Dissolved - Total Impaired Size by Water Type:			0.70

Sources:

- Natural Conditions - Water
- Quality Standards Use
- Attainability Analyses
- Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F22R-03-PH

Unnamed tributary to Root Swamp

Location: Begins at the headwaters of an unnamed tributary to Root Swamp and continues downstream until the confluence with Root Swamp.

City / County: King And Queen Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: pH / 5C

2008 Assessment: Excursions below the lower limit of the pH criterion range (6 of 6 samples - 100%) from station 8-XDY000.27, at Route 689.

Unnamed tributary to Root Swamp

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Aquatic Life

pH - Total Impaired Size by Water Type:

0.70

Sources:

- Natural Conditions - Water
- Quality Standards Use
- Attainability Analyses
- Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F22R-04-PH

Beverly Run

Location: Begins at the confluence with Shady Grove Run and continues downstream until the confluence with Mason Swamp.

City / County: Caroline Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: pH / 5C

Excursions below the lower limit of the pH criterion range (6 of 11 samples - 54.5%) from station 8-BEV008.47, at Route 665.

Beverly Run	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
pH - Total Impaired Size by Water Type:			3.31

Sources:

- Natural Conditions - Water
- Quality Standards Use
- Attainability Analyses
- Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F22R-05-PH

Doctors Creek

Location: Begins at the confluence with Tanyard Swamp and continues downstream until the confluence with Maracossic Creek.

City / County: Caroline Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: pH / 5C

Excursions below the lower limit of the pH criterion range (4 of 12 samples -33.3%) from station 8-DOC000.69, at Route 644.

Doctors Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
pH - Total Impaired Size by Water Type:			2.32

Sources:

- Natural Conditions - Water
- Quality Standards Use
- Attainability Analyses
- Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F23E-02-BAC **Mattaponi River**

Location: The mainstem Mattaponi River from Ayletts Creek to the confluence with Garnetts Creek.

City / County: King And Queen Co. King William Co.

Use(s): Recreation

Cause(s) /

VA Category: Escherichia coli / 5A

During the 2016 cycle, the Mattaponi River from Ayletts Creek to Garnetts Creek was assessed as impaired of the Recreation Use due to an E. coli exceedance rate of 2/9 at 8-MPN034.33 (pier at Rosepont.)

Continued monitoring is recommended due to an acceptable exceedance rate (1/68) at 8-MPN029.08 (Rt. 629 bridge near Walkerton.)

Mattaponi River	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Recreation			
Escherichia coli - Total Impaired Size by Water Type:		1.756	

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F23R-01-BAC

Garnetts Creek

Location: The mainstem of Garnetts Creek from the confluence with Dickeys Swamp to the tidal limit.

City / County: King And Queen Co.

Use(s): Recreation

Cause(s) /

VA Category: Escherichia coli / 5A

During the 2010 cycle, Garnetts Creek from the confluence with Dickeys Swamp downstream to the tidal limit was assessed as impaired of the Recreation Use due to E. coli violations at the Route 633 bridge (8-GNT001.54).

The exceedance rate was 6/23 during the 2014 cycle.

Garnetts Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Recreation			
Escherichia coli - Total Impaired Size by Water Type:			2.83

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F23R-03-DO

Walkerton Branch

Location: Watershed upstream of Walkerton Millpond

City / County: King And Queen Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5C

Walkerton Branch was initially assessed as not supporting of the Aquatic Life Use for dissolved oxygen in 2006 based on exceedances at Route 636 (8-WKN003.16). The DO TMDL is due in 2018.

Additional monitoring was conducted during the 2014 cycle. The segment remained impaired for dissolved oxygen with an exceedance rates of 3/11.

Walkerton Branch	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Oxygen, Dissolved - Total Impaired Size by Water Type:			4.62

Sources:

- Natural Conditions - Water
- Quality Standards Use
- Attainability Analyses
- Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F23R-03-PH

Walkerton Branch

Location: Watershed upstream of Walkerton Millpond

City / County: King And Queen Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: pH / 5C

Walkerton Branch was initially assessed as not supporting of the Aquatic Life Use goal in 2004 based on pH exceedances at Route 636 (8-WKN003.16). The pH TMDL is due in 2016.

Additional monitoring was conducted during the 2014 cycle. The segment remained impaired for pH with an exceedance rate of 4/11.

Walkerton Branch	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
pH - Total Impaired Size by Water Type:			4.62

Sources:

- Natural Conditions - Water
- Quality Standards Use
- Attainability Analyses
- Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F23R-04-BAC

Aylett Creek

Location: The mainstem of Aylett Creek.

City / County: King William Co.

Use(s): Recreation

Cause(s) /

VA Category: Escherichia coli / 5A

During the 2012 cycle, Aylett Creek was impaired of the Recreation Use due to an E. coli violation rate of 3/11 at 8-AYL002.27, which is located at the Route 600 bridge.

Aylett Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Recreation			
Escherichia coli - Total Impaired Size by Water Type:			6.83

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F23R-04-PH

Aylett Creek

Location: The mainstem of Aylett Creek.

City / County: King William Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: pH / 5C

Aylett Creek was impaired of the Aquatic Life Use during the 2012 cycle due to a pH exceedance rate of 6/13 at the Route 600 bridge (8-AYL002.27).

Aylett Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			6.83
pH - Total Impaired Size by Water Type:			

Sources:

- Natural Conditions - Water Quality Standards Use
- Attainability Analyses Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F23R-06-PCB Mattaponi River

Location: The Mattaponi River from the Route 628 bridge downstream to the mouth at West Point.

City / County: King And Queen Co. King William Co.

Use(s): Fish Consumption

Cause(s) /

VA Category: PCB in Fish Tissue / 5A

During the 1998 cycle, the Mattaponi River from Herring Creek to the tidal limit was considered fully supporting but threatened of the Fish Consumption Use due to exceedance of a PCB screening value in 1 species (white perch) in 1996.

During the 2006 cycle, 2003 monitoring at 8-MPN041.41 indicated exceedances of the fish tissue level for PCBs in 2 species. In addition, the VDH issued a fish consumption advisory on 12/13/2004 for PCBs from Herring Creek to Aylett Creek which recommends that adults eat no more than 2 meals/month of anadromous striped bass, white perch, and gizzard shad. The TMDL is due in 2018.

The advisory was revised on 10/7/2009. The advisory now extends from Route 628 downstream approximately 55 miles to the mouth of the Mattaponi at West Point. No more than two meals/month of anadromous (coastal) striped bass, white perch, and gizzard shad are recommended due to PCBs.

The advisory is based on the results of DEQ's fish tissue monitoring program, which indicated PCB exceedances at 8-MPN029.08, 8-MPN014.33 and 8-MPN041.41.

Note: In the 2002 cycle, PCBs were accidentally included as an impairment, however previous and current guidance states that confirmation is needed before an impairment; therefore, the listing was in error.

Mattaponi River	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Fish Consumption			
PCB in Fish Tissue - Total Impaired Size by Water Type:	6.965		15.70

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F23R-08-BAC

Dickeys Swamp

Location: Dickeys Swamp from the confluence with Dogwoods Fork downstream to the Route 620 bridge.

City / County: King And Queen Co.

Use(s): Recreation

Cause(s) /

VA Category: Escherichia coli / 5A

During the 2014 cycle, Dickeys Swamp from Dogwoods Fork downstream to the Route 620 bridge was impaired of the Recreation Use due to an E. coli exceedance rate of 4/12 at station 8-DKW004.31.

Note: monitoring at station 8-DKW001.12 was acceptable (0/12).

Dickeys Swamp	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Recreation			
Escherichia coli - Total Impaired Size by Water Type:			4.33

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F23R-09-BAC

Market Swamp

Location: Market Swamp from the Walker Coleman Pond dam downstream to its mouth.

City / County: King And Queen Co.

Use(s): Recreation

Cause(s) /

VA Category: Escherichia coli / 5A

During the 2014 cycle, Market Swamp below Walker Coleman Pond was impaired of the Recreation Use due to an E. coli exceedance rate of 2/12 at station 8-MKT001.04, which is located at the Route 14 bridge .

Note: monitoring at station 8-MKT001.96 was acceptable (0/12).

Market Swamp	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Recreation			
Escherichia coli - Total Impaired Size by Water Type:			2.01

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F23R-10-BAC

XJG - Dickey's Swamp, UT

Location: Tributary XJG in its entirety.

City / County: King And Queen Co.

Use(s): Recreation

Cause(s) /

VA Category: Escherichia coli / 5A

During the 2014 cycle, Dickey's Swamp UT XJG was considered impaired of the Recreation Use due to an E. coli exceedance rate of 5/12 at 8-XJG000.08.

XJG - Dickey's Swamp, UT

Recreation

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Escherichia coli - Total Impaired Size by Water Type:

1.99

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F23R-11-BAC

Dogwood Fork

Location: Dogwood Fork from its headwaters to its mouth at Dickey's Swamp

City / County: King And Queen Co.

Use(s): Recreation

Cause(s) /

VA Category: Escherichia coli / 5A

During the 2014 cycle, Dogwood Fork was impaired of the Recreation Use due to an E. coli exceedance rate of 4/12 at station 8-DWD000.77, which is located at the Route 621 bridge.

Dogwood Fork	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Recreation			
Escherichia coli - Total Impaired Size by Water Type:			2.91

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F23R-12-BAC **XDN - Garnetts Creek, UT**

Location: Headwaters to mouth at Garnetts Creek

City / County: King And Queen Co.

Use(s): Recreation

Cause(s) /

VA Category: Escherichia coli / 5A

Based on monitoring during the 2014 cycle, tributary XDN was impaired of the Recreation Use due to an E. coli exceedance rate of 2/11 at 8-XDN000.12, which is located at the Route 620 bridge. Unfortunately, the impairment was inadvertently left off in the 2014 cycle; although XDN will be first listed in the 2016 cycle, the TMDL will be 2026 to reflect the initial monitoring.

XDN - Garnetts Creek, UT	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Recreation			
Escherichia coli - Total Impaired Size by Water Type:			2.53

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F24R-03-BAC Courthouse Creek

Location: Courthouse Creek from King and Queen Courthouse Pond to the tidal limit

City / County: King And Queen Co.

Use(s): Recreation

Cause(s) /

VA Category: Escherichia coli / 5A

During the 2016 cycle, Courthouse Creek downstream of King and Queen Courthouse Pond was impaired of the Recreation Use due to an E. coli exceedance rate of 3/12 at 8-CTH001.96, which is located at the Route 14 bridge.

Courthouse Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Recreation			0.72
Escherichia coli - Total Impaired Size by Water Type:			

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F24R-03-DO **Courthouse Creek**

Location: Courthouse Creek from King and Queen Courthouse Pond to the tidal limit

City / County: King And Queen Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5A

During the 2014 cycle, Courthouse Creek downstream of King and Queen Courthouse Pond was impaired of the Aquatic Life Use due to dissolved oxygen exceedances at 8-CTH001.96, which is located at the Route 14 bridge.

The exceedance rate was 4/24 during the 2016 cycle.

Courthouse Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Oxygen, Dissolved - Total Impaired Size by Water Type:			0.72

Sources:

- Dam or Impoundment
- Natural Conditions - Water Quality Standards Use Attainability Analyses Needed
- Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F25R-01-DO

Tastine Swamp and Little Tastine Swamp

Location: From the headwaters of Little Tastine Swamp down Tastine Swamp to Corbins Pond.

City / County: King And Queen Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5C

During the 2016 cycle, the segment was impaired of the Aquatic Life Use due to a dissolved oxygen exceedance rate of 2/12 at 8-TST001.81 (Rt. 611 bridge.)

Tastine Swamp and Little Tastine Swamp	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Oxygen, Dissolved - Total Impaired Size by Water Type:			6.25

Sources:

- Natural Conditions - Water
- Quality Standards Use
- Attainability Analyses
- Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F25R-02-DO

Tastine Swamp

Location: From the headwaters of Tastine Swamp downstream to the confluence with Little Tastine Swamp

City / County: King And Queen Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5C

Tastine Swamp from its headwaters down to the confluence with Little Tastine Swamp was assessed as not supporting of the Aquatic Life Use in the 2010 cycle due to a dissolved oxygen violation rate of 2/12 at station 8-TST003.16.

Tastine Swamp	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Oxygen, Dissolved - Total Impaired Size by Water Type:			2.15

Sources:

- Natural Conditions - Water
- Quality Standards Use
- Attainability Analyses
- Needed



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F26E-01-PCB **York River, Queens Creek, Kings Creek**

Location: This cause encompasses the area from the confluence of the Mattaponi and Pamunkey Rivers down to the mouth of the York River including King and Queens Creek

City / County: Gloucester Co. James City Co. King And Queen Co. King William Co. New Kent Co.
 Williamsburg City York Co.

Use(s): Fish Consumption

Cause(s) /

VA Category: PCB in Fish Tissue / 5A

The segment is included under a 12/13/2004 VDH Fish Consumption Advisory due to polychlorinated biphenyls (PCBs) in fish tissue. The advisory recommends that adults eat no more than two meals/month of croaker, gizzard shad, and spot. High risk individual

York River, Queens Creek, Kings Creek

Fish Consumption

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
PCB in Fish Tissue - Total Impaired Size by Water Type:	57.895		

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F26E-06-SF

Fox Creek

Location: Described in VDH Notice and Description of Shellfish Direct Harvesting Condemnation #047-072 A, 6/19/2012.

City / County: Gloucester Co.

Use(s): Shellfishing

Cause(s) /

VA Category: Fecal Coliform / 5B

The Shellfishing Use is impaired based on the VDH-DSS condemnation 047-072A (20130815).

Fox Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Shellfishing			
Fecal Coliform - Total Impaired Size by Water Type:			0.016

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F26E-10-SF

Carter Creek

Location: Described in VDH Notice and Description of Shellfish Direct Harvesting Condemnation # 050-079A, 6/25/2007.

City / County: James City Co. King And Queen Co. New Kent Co. York Co.

Use(s): Shellfishing

Cause(s) /

VA Category: Fecal Coliform / 5B

Portion of VDH-DSS condemnation 050-079A (20030912)Carter Creek has been impaired since the 2004 cycle due to a VDH condemnation. During the 2012 cycle, the condemnation extends into a portion of the York River.2006 70004 / 2008 F26E-10-SF

Carter Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Shellfishing	Fecal Coliform - Total Impaired Size by Water Type:		0.048

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F26L-01-DO

Waller Mill Reservoir

Location: This cause encompasses the headwater impounded portion of Queen Creek. North of Williamsburg in York County.

City / County: York Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Oxygen, Dissolved / 5A

Aquatic Life Use is not supporting based on samples taken at stations 8-QEN007.02, 8-QEN007.22, 8-QEN007.65, 8-QEN008.58 for dissolved oxygen with a pooled violation rate of 14.1% (30 violations/ 212 obs.). Individual exceedances include 8-QEN007.02 (4 vi

Waller Mill Reservoir	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Oxygen, Dissolved - Total Impaired Size by Water Type:			287.70

Sources:

Changes in Ordinary
Stratification and Bottom
Water Hypoxia/Anoxia

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F26R-01-BAC **Carter Creek**

Location: This cause encompasses Carter Creek from the tidal limit upstream to the confluence with an unnamed tributary.

City / County: York Co.

Use(s): Recreation

Cause(s) /

VA Category: Fecal Coliform / 5A

Carter Creek is impaired of the Recreation Use due to fecal coliform exceedances at 8-CTC003.78. The exceedance rate was 2/3 during the 2006 cycle. No additional monitoring has been conducted.

Carter Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Recreation			
Fecal Coliform - Total Impaired Size by Water Type:			3.38

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F26R-01-BEN **Carter Creek**

Location: This cause encompasses Carter Creek from the tidal limit upstream to the confluence with an unnamed tributary.

City / County: York Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Benthic-Macroinvertebrate Bioassessments / 5A

Benthic biological monitoring previously conducted at station 8-CTC003.78 (located at State Route 604) indicated the stream's benthic community was moderately impaired (Benthic MI: 1999, SI S&F 2000, MI F 2001]. As a result, DEQ's General Standard (VR680-21-01.2) is not met for the protection of benthic aquatic life and this segment is assessed as not supporting of the Clean Water Act's Aquatic Life Use. Impairment retained as no more recent data available since 2001.

Carter Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Benthic-Macroinvertebrate Bioassessments - Total Impaired Size by Water Type:			3.38

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F26R-02-BEN **XEA - Bland Creek, UT**

Location: This cause encompasses the tributary XEA from its headwater to its mouth at Bland Creek.

City / County: Gloucester Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Benthic-Macroinvertebrate Bioassessments / 5A

The Aquatic life use is not supporting based on benthic population diversity and abundance measures at this Freshwater Probabilistic Monitoring (FPM) station. The Aquatic Life Use is not supporting based on benthic population diversity and abundance measures at this Freshwater Probabilistic Monitoring (FPM) station, IM-carried forward as no data in cycle. The Aquatic Life Use is not supported based on the benthic data collected in 2001 (Benthic ProbMon-Benthic IM [MI: S&F-01]. Benthic biological monitoring at station 8-XEA000.12 (FPM) indicated the stream's benthic community was moderately impaired. As a result, DEQ's General Standard (VR680-21-01.2) is not met for the protection of benthic aquatic life and this segment is assessed as not supporting of the Clean Water Act's Aquatic Life Use.

XEA - Bland Creek, UT	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Benthic-Macroinvertebrate Bioassessments - Total Impaired Size by Water Type:			1.23

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F26R-04-BEN **Bird Creek**

Location: This cause encompasses Bird Creek from its headwater to its mouth at Ware Creek.

City / County: James City Co.

Use(s): Aquatic Life

Cause(s) /

VA Category: Benthic-Macroinvertebrate Bioassessments / 5A

During the 2012 cycle, Byrd Creek was impaired of the Aquatic Use due to a slightly impaired benthic community at freshwater probabilistic monitoring station 8-BRD000.43.

Bird Creek	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
Aquatic Life			
Benthic-Macroinvertebrate Bioassessments - Total Impaired Size by Water Type:			2.47

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F27E-06-BAC

York River - Yorktown Beach

Location: This cause encompasses Yorktown Beach VDH bathing area. CBP segment YRKPH. No DSS shellfish direct harvesting condemnation.

City / County: York Co.

Use(s): Recreation

Cause(s) /

VA Category: Enterococcus / 5A

Enterococcus is impaired based on a monthly geometric mean violation in 2013 as well as multiple swimming advisories. Enterococcus data at VDHB station VA482894 had 1 geometric mean viol/ 20 obs.

	Estuary (Sq. Miles)	Reservoir (Acres)	River (Miles)
York River - Yorktown Beach Recreation			
Enterococcus - Total Impaired Size by Water Type:	0.024		

Sources:

Source Unknown



Fact Sheets for Impaired (Category 5) Waters in 2016

York River Basin

Cause Group Code: F27E-07-BAC

York River - Gloucester Point Beach

Location: This cause encompasses Gloucester Point Beach VDH bathing area. CBP segment YRKPH. Portion of DSS (OPEN) shellfish direct harvesting condemnation # 046-027 (effective 20120808).

City / County: Gloucester Co.

Use(s): Recreation

Cause(s) /

VA Category: Enterococcus / 5A

Enterococcus is impaired based on a monthly geometric mean violation at VDH Beach Program station VA714367 as well as multiple swimming advisories. Enterococcus data collected at station VA714367 had 1 viol/ 20 obs.

York River - Gloucester Point Beach

Recreation

Estuary
(Sq. Miles)

Reservoir
(Acres)

River
(Miles)

Enterococcus - Total Impaired Size by Water Type:

0.018

Sources:

Source Unknown