

Each Watershed Report Card covers a single 12 digit Hydrologic Unit Code (HUC12), on average a 34 square mile area. Each Watershed Report Card has three components;

1. REPORT CARD - A one page card that summarizes the overall use support for Aquatic Life Integrity, Primary Contact (i.e. Swimming), and Secondary Contact (i.e. Boating) Designated Uses on every Assessment Unit ID (AUID) within the HUC12.
2. HUC 12 MAP - A map of the watershed with abbreviated labels for each AUID within the HUC12.
3. ASSESSMENT DETAILS - Anywhere from one to forty pages with the detailed assessment information for each and every AUID in the Report Card and Map.

How are the Surface Water Quality Assessment determinations made?

All readily available data with reliable Quality Assurance/Quality Control is used in the biennial surface water quality assessments. For a full understanding of how the Surface Water Quality Standards (Env-Wq 1700) are translated into surface water quality assessments we urge the reader to review the 2018 Consolidated Assessment and Listing Methodology (CALM) at

<https://www.des.nh.gov/organization/divisions/water/wmb/swqa/2018/documents/r-wd-19-04.pdf>.

Where can I find more advanced mapping resources?

GIS files are available by assessment cycle at <ftp://pubftp.nh.gov/DES/wmb/WaterQuality/SWQA/2018/GIS>

I'd like to see the more raw water quality data?

The web mapping tool allows you to download the data used in the assessment of the primary contact and aquatic life designated uses by clicking on the "Data Access Waterbody Data (Aquatic Life and Swimming Uses)" link for any assessment unit. (<https://www.des.nh.gov/organization/divisions/water/wmb/swqa/assessment-viewers.htm>)

How are assessments coded in the report card?

Assessment outcomes are displayed on a color scale as well as an alpha numeric scale that provides additional distinctions for the designated use and parameter level assessments as outlined in the table below.

		Severe	Poor	Likely Bad	No Data	Likely Good	Marginal	Good
		Not Supporting, Severe	Not Supporting, Marginal	Insufficient Information – Potentially Not Supporting	No Data	Insufficient Information – Potentially Full Supporting	Full Support, Marginal	Full Support, Good
CATEGORY	Description							
Category 2	Meets standards						2-M or 2-OBS	2-G
Category 3	Insufficient Information			3-PNS	3-ND	3-PAS		
Category 4	Does not Meet Standards;							
4A	TMDL* Completed	4A-P	4A-M or 4A-T					
4B	Other enforceable measure will correct the issue.	4B-P	4B-M or 4B-T					
4C	Non-pollutant (i.e. exotic weeds)	4C-P	4C-M					
Category 5	TMDL^ Needed	5-P	5-M or 5-T					

* TMDL stands for Total Maximum Daily Load studies (<http://des.nh.gov/organization/divisions/water/wmb/tmdl/index.htm>)

WATERSHED 305(b) ASSESSMENT SUMMARY REPORT:

HUC 12 010600020902

HUC 12 NAME SOUTH RIVER

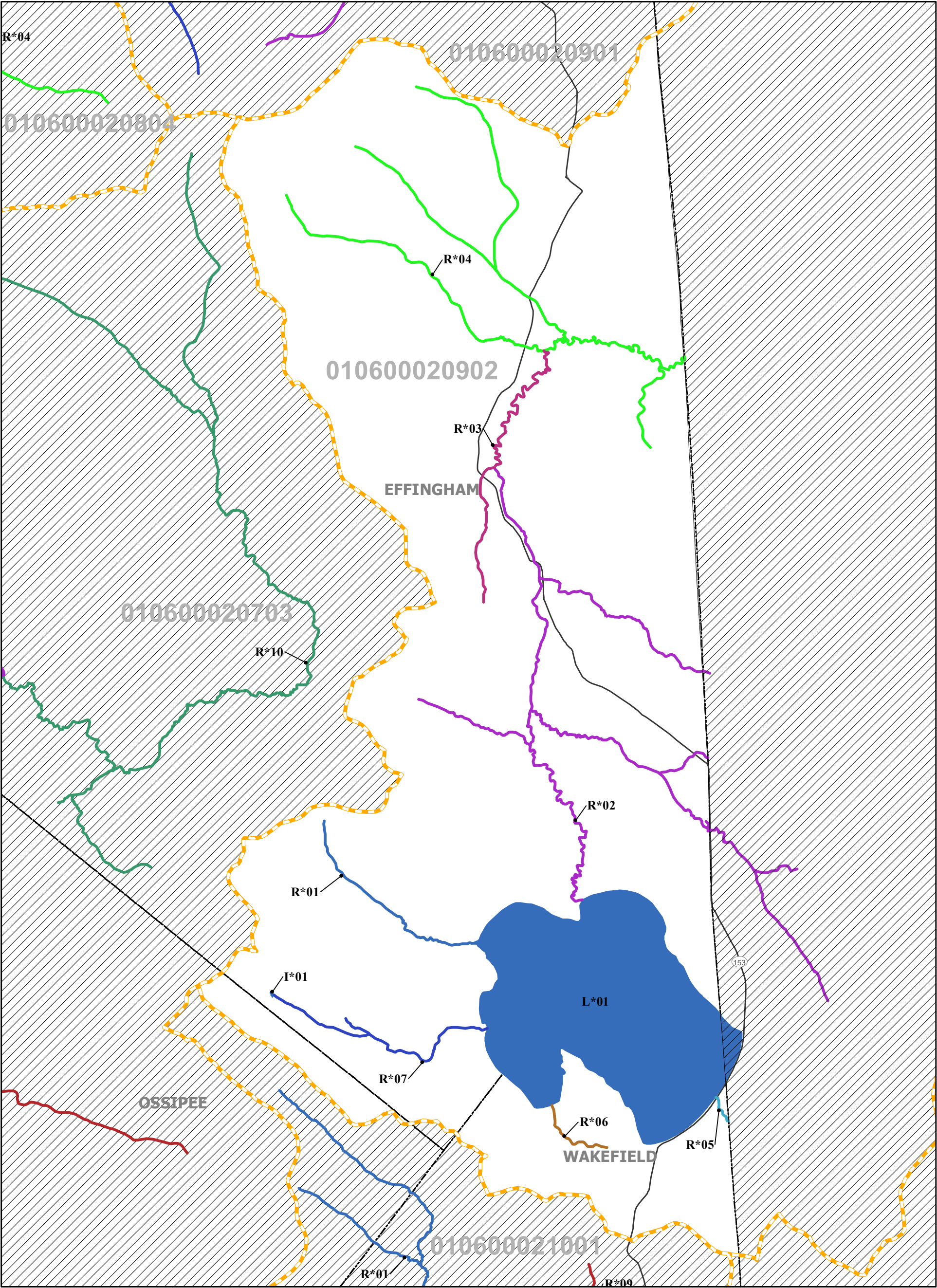
(Locator map on next page only applies to this HUC12)

Assessment Cycle DRAFT 2018

Good	Full Support Good
Marginal	Full Support Marginal
Likely Good	Insufficient Information – Potentially Full Support
No Data	No Data
Likely Bad	Insufficient Information – Potentially Not Support
Poor	Not Support Marginal
Severe	Not Support Severe

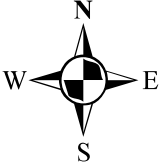


ASSESSMENT UNIT ID	MAP LABEL	ASSESSMENT UNIT NAME	AQUATIC LIFE	SWIMMING	BOATING	FISH CONSUMP.
NHIMP600020902-01	I*01	DOWNS DAM	3-ND	3-ND	3-ND	4A-M
NHLAK600020902-01	L*01	PROVINCE LAKE	3-M	3-M	3-PAS	4A-M
NHRIV600020902-01	R*01	HOBBS BROOK	3-M	3-S	3-S	4A-M
NHRIV600020902-02	R*02	SOUTH RIVER - UNNAMED BROOKS	3-PAS	3-S	3-S	4A-M
NHRIV600020902-03	R*03	SOUTH RIVER - UNNAMED BROOKS	3-ND	3-ND	3-ND	4A-M
NHRIV600020902-04	R*04	SOUTH RIVER - SALMON BROOK - HOBBS BROOK	3-ND	3-ND	3-ND	4A-M
NHRIV600020902-05	R*05	PROVINCE LAKE-RTE 153 INLET	3-M	3-S	3-S	4A-M
NHRIV600020902-06	R*06	PROVINCE LAKE-ISLAND INLET	3-P	3-PNS	3-PAS	4A-M
NHRIV600020902-07	R*07	SOUTH RIVER - TO PROVINCE LAKE	3-M	4A-M	3-S	4A-M



HUC12 Boundaries
Town Boundaries
Major Roads
Interstate Highway
US Highway
State Highway

Assessment Unit Coloring
AUs Ending with:
0 =
1 =
2 =
3 =
4 =
5 =
6 =
7 =
8 =
9 =



Abbrev. Label
L*03
HUC 12
010 700060201
AUID = NH LAK 700060201 - 03

Assessment Unit IDs are derived from the HUC12 they reside within. The labels have been shortened on this map for presentation purposes.
Example: the Label "L*03" in HUC12 = 010700060201 represents AUID = "NHLAK700060201-03"
In rare cases where an AUID extends beyond the boundary of a single HUC12, additional portions of the end of the HUC 12 number have also been replaced.

Assessment Unit ID NHIMP600020902-01

Size 0.3400 ACRES

DRAFT 2018, 305(b)/303(d) -
All Reviewed Parameters by
Assessment Unit

Assessment Unit Name DOWNS DAM

Beach N

Primary Town EFFINGHAM

Assessment Unit Category*~ 3-ND

Designated Use Description	*Desig. Use Category	Parameter Name	Parameter Threatened (Y/N)	Last Sample	Last Exceed	Parameter Category*	TMDL Priority
Aquatic Life Integrity	3-ND	Chlorophyll-a	N	N/A	NLV	3-ND	
		Dissolved oxygen saturation	N			3-ND	
		Oxygen, Dissolved	N			3-ND	
		pH	N			3-ND	
Fish Consumption	4A-M	Mercury	N			4A-M	
Potential Drinking Water Supply	2-G						
Primary Contact Recreation	3-ND	Escherichia coli	N			3-ND	
Secondary Contact Recreation	3-ND	Escherichia coli	N			3-ND	
Wildlife	3-ND						

Severe Not Supporting, Severe	Poor Not Supporting, Marginal	Likely Bad Insufficient Information - Potentially Full Supporting	No Data No Data	Likely Good Insufficient Information - Potentially Full Supporting	Marginal Full Support, Marginal	Good Full Support, Good
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*DES Categories; 2-G = Supports Parameter well above criteria, 2-M = Supports Parameter marginally above criteria, 2-OBS = Exceeds WQ criteria but natural therefore not a WQ exceedence, 3-ND = Insufficient Information/No data, 3-PAS= Insufficient Information/Potentially Attaining Standard, 3-PNS= Insufficient Information/Potentially Not Attaining Standard, (4A=Impaired/TMDL Completed, 4B=Impaired/Other Measure will rectify Impairment, 4C=Impaired/Non-Pollutant, 5=Impaired/TMDL needed) M=Marginal Impairment, P=Severe Impairment, T=Threatened (<http://des.nh.gov/organization/divisions/water/wmb/swqa/index.htm>)

Assessment Unit ID NHLAK600020902-01

Size 965.6490 ACRES

**DRAFT 2018, 305(b)/303(d) -
All Reviewed Parameters by
Assessment Unit**

Assessment Unit Name PROVINCE LAKE

Beach N

Primary Town EFFINGHAM

Assessment Unit Category*~ 5-M

Designated Use Description	*Desig. Use Category	Parameter Name	Parameter Threatened (Y/N)	Last Sample	Last Exceed	Parameter Category*	TMDL Priority
Aquatic Life Integrity	5-M	ALKALINITY, CARBONATE AS CaCO3	N	2007	2007	3-PNS	
		CHLORIDE	N	2017	N/A	3-PAS	
		Chlorophyll-a	N	2017	NLV	5-M	LOW
		DISSOLVED OXYGEN SATURATION	N	2017	2007	3-PNS	
		OXYGEN, DISSOLVED	N	2017	N/A	3-PAS	
		Phosphorus (Total)	N	2016	NLV	5-M	LOW
		TURBIDITY	N	2016	2015	3-PAS	
		pH	N	2017	2017	4A-M	
Fish Consumption	4A-M	Mercury	N			4A-M	
Potential Drinking Water Supply	2-G	ESCHERICHIA COLI	N	2009	N/A	3-PAS	
		SULFATES	N	2007	N/A	3-PAS	
Primary Contact Recreation	5-M	CHLOROPHYLL-A	N	2017	N/A	2-G	
		Cyanobacteria hepatotoxic microcystins	N	2018	2018	5-M	LOW
		ESCHERICHIA COLI	N	2009	N/A	3-PAS	
Secondary Contact Recreation	3-PAS	ESCHERICHIA COLI	N	2009	N/A	3-PAS	
Wildlife	3-ND						

Severe Not Supporting, Severe	Poor Not Supporting, Marginal	Likely Bad Insufficient Information - Potentially Full Supporting	No Data No Data	Likely Good Insufficient Information - Potentially Full Supporting	Marginal Full Support, Marginal	Good Full Support, Good
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Assessment Unit ID NHRIV600020902-01

Size 1.3280 MILES

Assessment Unit Name HOBBS BROOK

Beach N

**DRAFT 2018, 305(b)/303(d) -
All Reviewed Parameters by
Assessment Unit**

Primary Town EFFINGHAM

Assessment Unit Category*~ 5-M

Designated Use Description	*Desig. Use Category	Parameter Name	Parameter Threatened (Y/N)	Last Sample	Last Exceed	Parameter Category*	TMDL Priority
Aquatic Life Integrity	5-M	Benthic-Macroinvertebrate Bioassessments (Streams)	N			3-ND	
		CHLORIDE	N	2013	N/A	3-PAS	
		Dissolved oxygen saturation	N			3-ND	
		Fishes Bioassessments (Streams)	N			3-ND	
		Oxygen, Dissolved	N			3-ND	
		PHOSPHORUS (TOTAL)	N	2013	NLV	3-PAS	
		TURBIDITY	N	2013	N/A	3-PAS	
		pH	N	2013	2013	5-M	LOW
Fish Consumption	4A-M	Mercury	N			4A-M	
Potential Drinking Water Supply	2-G	ESCHERICHIA COLI	N	2013	2013	3-PNS	
Primary Contact Recreation	2-G	ESCHERICHIA COLI	N	2013	N/A	2-G	
Secondary Contact Recreation	2-G	ESCHERICHIA COLI	N	2013	N/A	2-G	
Wildlife	3-ND						

Severe Not Supporting, Severe	Poor Not Supporting, Marginal	Likely Bad Insufficient Information - Potentially Full Supporting	No Data No Data	Likely Good Insufficient Information - Potentially Full Supporting	Marginal Full Support, Marginal	Good Full Support, Good
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Assessment Unit ID NHRIV600020902-02 Size 9.2740 MILES
Assessment Unit Name SOUTH RIVER - UNNAMED BROOKS Beach N
Primary Town EFFINGHAM Assessment Unit Category*~ 3-PAS

**DRAFT 2018, 305(b)/303(d) -
All Reviewed Parameters by
Assessment Unit**

Designated Use Description	*Desig. Use Category	Parameter Name	Parameter Threatened (Y/N)	Last Sample	Last Exceed	Parameter Category*	TMDL Priority
Aquatic Life Integrity	3-PAS	Benthic-Macroinvertebrate Bioassessments (Streams)	N			3-ND	
		CHLORIDE	N	2017	N/A	3-PAS	
		DISSOLVED OXYGEN SATURATION	N	2017	N/A	3-PAS	
		Fishes Bioassessments (Streams)	N			3-ND	
		OXYGEN, DISSOLVED	N	2017	N/A	3-PAS	
		PH	N	2017	2015	2-M	
		PHOSPHORUS (TOTAL)	N	2017	NLV	3-PAS	
		TURBIDITY	N	2016	N/A	3-PAS	
Fish Consumption	4A-M	Mercury	N			4A-M	
Potential Drinking Water Supply	2-G	ESCHERICHIA COLI	N	2013	2013	3-PNS	
Primary Contact Recreation	2-G	ESCHERICHIA COLI		2013	2011	2-G	
Secondary Contact Recreation	2-G	ESCHERICHIA COLI		2013	N/A	2-G	
Wildlife	3-ND						

Severe Not Supporting, Severe	Poor Not Supporting, Marginal	Likely Bad Insufficient Information - Potentially Full Supporting	No Data No Data	Likely Good Insufficient Information - Potentially Full Supporting	Marginal Full Support, Marginal	Good Full Support, Good
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Assessment Unit ID NHRIV600020902-03
 Assessment Unit Name SOUTH RIVER - UNNAMED BROOKS
 Primary Town EFFINGHAM

Size 2.2400 MILES
 Beach N
 Assessment Unit Category*~ 3-ND

**DRAFT 2018, 305(b)/303(d) -
 All Reviewed Parameters by
 Assessment Unit**

Designated Use Description	*Desig. Use Category	Parameter Name	Parameter Threatened (Y/N)	Last Sample	Last Exceed	Parameter Category*	TMDL Priority
Aquatic Life Integrity	3-ND	Benthic-Macroinvertebrate Bioassessments (Streams)	N			3-ND	
		Dissolved oxygen saturation	N			3-ND	
		Fishes Bioassessments (Streams)	N			3-ND	
		Oxygen, Dissolved	N			3-ND	
		pH	N			3-ND	
Fish Consumption	4A-M	Mercury	N			4A-M	
Potential Drinking Water Supply	2-G						
Primary Contact Recreation	3-ND	Escherichia coli	N			3-ND	
Secondary Contact Recreation	3-ND	Escherichia coli	N			3-ND	
Wildlife	3-ND						

Severe Not Supporting, Severe	Poor Not Supporting, Marginal	Likely Bad Insufficient Information – Potentially Full Supporting	No Data No Data	Likely Good Insufficient Information – Potentially Full Supporting	Marginal Full Support, Marginal	Good Full Support, Good
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Assessment Unit ID NHRIV600020902-04
 Assessment Unit Name SOUTH RIVER - SALMON BROOK - HOBBS BROOK
 Primary Town EFFINGHAM

Size 7.3680 MILES
 Beach N
 Assessment Unit Category*~ 3-ND

**DRAFT 2018, 305(b)/303(d) -
 All Reviewed Parameters by
 Assessment Unit**

Designated Use Description	*Desig. Use Category	Parameter Name	Parameter Threatened (Y/N)	Last Sample	Last Exceed	Parameter Category*	TMDL Priority
Aquatic Life Integrity	3-ND	Benthic-Macroinvertebrate Bioassessments (Streams)	N			3-ND	
		Dissolved oxygen saturation	N			3-ND	
		Fishes Bioassessments (Streams)	N			3-ND	
		Oxygen, Dissolved	N			3-ND	
		pH	N			3-ND	
Fish Consumption	4A-M	Mercury	N			4A-M	
Potential Drinking Water Supply	2-G						
Primary Contact Recreation	3-ND	Escherichia coli	N			3-ND	
Secondary Contact Recreation	3-ND	Escherichia coli	N			3-ND	
Wildlife	3-ND						

Severe Not Supporting, Severe	Poor Not Supporting, Marginal	Likely Bad Insufficient Information – Potentially Full Supporting	No Data No Data	Likely Good Insufficient Information – Potentially Full Supporting	Marginal Full Support, Marginal	Good Full Support, Good
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Assessment Unit ID NHRIV600020902-05
 Assessment Unit Name PROVINCE LAKE-RTE 153 INLET
 Primary Town WAKEFIELD

Size 0.1790 MILES

Beach N

Assessment Unit Category*~ 5-M

**DRAFT 2018, 305(b)/303(d) -
 All Reviewed Parameters by
 Assessment Unit**

Designated Use Description	*Desig. Use Category	Parameter Name	Parameter Threatened (Y/N)	Last Sample	Last Exceed	Parameter Category*	TMDL Priority
Aquatic Life Integrity	5-M	Benthic-Macroinvertebrate Bioassessments (Streams)	N			3-ND	
		CHLORIDE	N	2017	N/A	3-PAS	
		DISSOLVED OXYGEN SATURATION	N	2017	N/A	3-PAS	
		Fishes Bioassessments (Streams)	N			3-ND	
		OXYGEN, DISSOLVED	N	2017	2017	3-PNS	
		PHOSPHORUS (TOTAL)	N	2017	NLV	3-PAS	
		TURBIDITY	N	2016	N/A	3-PAS	
		pH		2017	2017	5-M	LOW
Fish Consumption	4A-M	Mercury	N			4A-M	
Potential Drinking Water Supply	2-G	ESCHERICHIA COLI	N	2013	2013	3-PNS	
Primary Contact Recreation	2-G	ESCHERICHIA COLI		2013	N/A	2-G	
Secondary Contact Recreation	2-G	ESCHERICHIA COLI		2013	N/A	2-G	
Wildlife	3-ND						

Severe Not Supporting, Severe	Poor Not Supporting, Marginal	Likely Bad Insufficient Information – Potentially Full Supporting	No Data No Data	Likely Good Insufficient Information – Potentially Full Supporting	Marginal Full Support, Marginal	Good Full Support, Good
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Assessment Unit ID NHRIV600020902-06
 Assessment Unit Name PROVINCE LAKE-ISLAND INLET
 Primary Town WAKEFIELD

Size 0.5090 MILES

Beach N

Assessment Unit Category*~ 5-P

**DRAFT 2018, 305(b)/303(d) -
 All Reviewed Parameters by
 Assessment Unit**

Designated Use Description	*Desig. Use Category	Parameter Name	Parameter Threatened (Y/N)	Last Sample	Last Exceed	Parameter Category*	TMDL Priority
Aquatic Life Integrity	5-P	Benthic-Macroinvertebrate Bioassessments (Streams)	N			3-ND	
		CHLORIDE	N	2017	N/A	3-PAS	
		DISSOLVED OXYGEN SATURATION	N	2017	N/A	3-PAS	
		Fishes Bioassessments (Streams)	N			3-ND	
		OXYGEN, DISSOLVED	N	2017	2017	5-P	LOW
		PHOSPHORUS (TOTAL)	N	2017	NLV	3-PAS	
		TURBIDITY	N	2016	2015	3-PAS	
		pH		2017	2017	5-M	LOW
Fish Consumption	4A-M	Mercury	N			4A-M	
Potential Drinking Water Supply	2-G	ESCHERICHIA COLI	N	2013	2013	3-PNS	
Primary Contact Recreation	3-PNS	ESCHERICHIA COLI	N	2013	2013	3-PNS	
Secondary Contact Recreation	3-PAS	ESCHERICHIA COLI	N	2013	N/A	3-PAS	
Wildlife	3-ND						

Severe Not Supporting, Severe	Poor Not Supporting, Marginal	Likely Bad Insufficient Information – Potentially Full Supporting	No Data No Data	Likely Good Insufficient Information – Potentially Full Supporting	Marginal Full Support, Marginal	Good Full Support, Good
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Assessment Unit ID NHRIV600020902-07

Size 1.7200 MILES

**DRAFT 2018, 305(b)/303(d) -
All Reviewed Parameters by
Assessment Unit**

Assessment Unit Name SOUTH RIVER - TO PROVINCE LAKE

Beach N

Primary Town EFFINGHAM

Assessment Unit Category*~ 5-M

Designated Use Description	*Desig. Use Category	Parameter Name	Parameter Threatened (Y/N)	Last Sample	Last Exceed	Parameter Category*	TMDL Priority
Aquatic Life Integrity	5-M	ALKALINITY, CARBONATE AS CaCO3	N	1992	1992	3-ND	
		Benthic-Macroinvertebrate Bioassessments (Streams)	N			3-ND	
		CHLORIDE	N	2017	N/A	3-PAS	
		DISSOLVED OXYGEN SATURATION	N	2017	N/A	3-PAS	
		Fishes Bioassessments (Streams)	N			3-ND	
		OXYGEN, DISSOLVED	N	2017	N/A	3-PAS	
		PHOSPHORUS (TOTAL)	N	2017	NLV	3-PAS	
		TURBIDITY	N	2016	2015	3-PAS	
		pH	N	2017	2017	5-M	LOW
Fish Consumption	4A-M	Mercury	N			4A-M	
Potential Drinking Water Supply	2-G	ESCHERICHIA COLI	N	2013	2013	3-PNS	
Primary Contact Recreation	4A-M	Escherichia coli	N	2013	2011	4A-M	
Secondary Contact Recreation	2-G	ESCHERICHIA COLI	N	2013	N/A	2-G	
Wildlife	3-ND						

Severe Not Supporting, Severe	Poor Not Supporting, Marginal	Likely Bad Insufficient Information - Potentially Full Supporting	No Data No Data	Likely Good Insufficient Information - Potentially Full Supporting	Marginal Full Support, Marginal	Good Full Support, Good
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