

APPENDIX J

BLACK – OTTAUQUECHEE RIVER WATERSHED

(HUC8: 01080106)

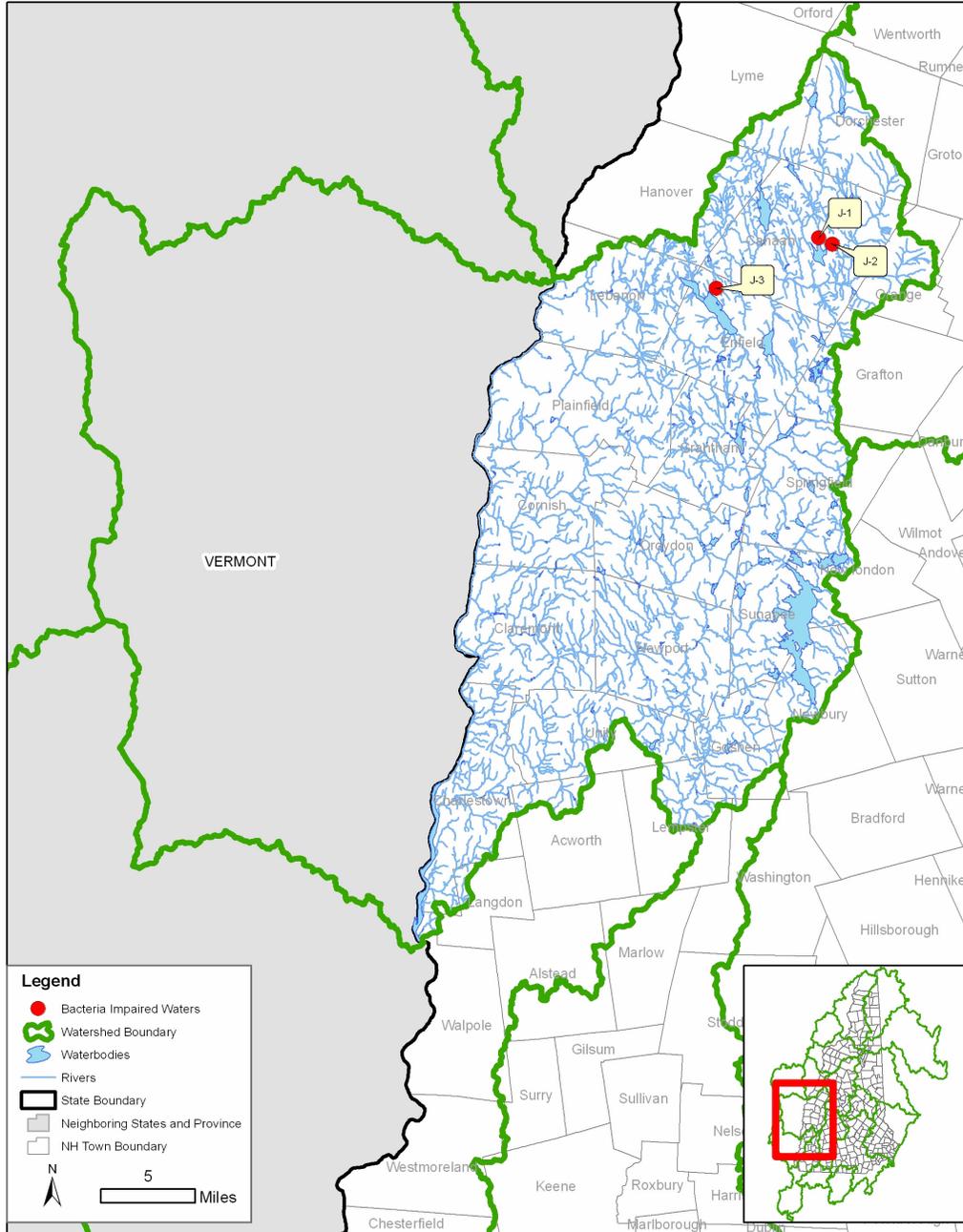
I. WATERSHED DESCRIPTION AND MAPS

This section of the Connecticut River Watershed covers an area of approximately 733 square miles in the lower half of the state along the Vermont-New Hampshire border. There are 27 towns located at least partially within the watershed. The upper reaches of the watershed are in Lyme and Dorchester and extend to the lower reaches in Walpole, NH. As shown in Figure 1, the primary watercourse in the region is the Connecticut River which flows south along the VT-NH border. Notable mountains in the area are the Moose Mountains along the northwestern border, the Sunapee Mountains to the south, and many independent mountains. Lakes that dot this watershed include Lake Sunapee, Mascoma Lake, and Goose Pond.

Based on the 2012 303(d) list, three assessment unit (AU) in this watershed is listed as being impaired for bacteria. The location of the bacteria impaired surface water AU is shown on Figure 1 as a red circles. Items J1 through J3 presents the percent reduction needed to meet each water quality criterion (and TMDL), based on the highest recorded bacteria measurement that exceeds the criterion for the AU, as well as the bacteria data collected in the impaired AUID that was used to list the AU as impaired on the 2012 303(d) list.

FIGURE 1:

Black-Ottauquechee River Watershed HUC 8 Watershed ID Number 01080106



II. WATER QUALITY DATA TABLES

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J1: Canaan Street Lake Inlet Stream

AUID NHRIV801060101-09

Characteristics: freshwater, class A designation, primary contact recreation.

Impairment: *E coli*

Water Quality Criteria & TMDL for *E coli*

Single sample: 153 CTS/100MI

Geometric mean: 47 CTS/100mL

Percent reduction to meet TMDL:

Single sample: 68%

Geometric mean: 68%

Data: NHDES EMD, 2012 303(d)

Single sample *E coli* results (CTS/100ML)

Station Name	Station ID	Date	Result
UNNAMED BROOK - TO NORTH INLET OF CANAAN STREET LAKE	CANCANBBR	8/23/09	105
UNNAMED BROOK - TO NORTH INLET OF CANAAN STREET LAKE	CANCANBBR	5/27/10	304
UNNAMED BROOK - TO NORTH INLET OF CANAAN STREET LAKE	CANCANBBR	6/23/10	107
UNNAMED BROOK - TO NORTH INLET OF CANAAN STREET LAKE	CANCANBBR	7/20/10	100
UNNAMED BROOK - TO NORTH INLET OF CANAAN STREET LAKE	CANCANBBR	4/23/09	34
UNNAMED BROOK - TO NORTH INLET OF CANAAN STREET LAKE	CANCANBBR	5/7/09	480
UNNAMED BROOK - TO NORTH INLET OF CANAAN STREET LAKE	CANCANBBR	10/26/10	100

Shaded cells indicate exceedance of water quality criteria

Geometric mean *E. coli* results (CTS/100ML)

Station Name	Date	Result
UNNAMED BROOK - TO NORTH INLET OF CANAAN STREET LAKE	7/20/10	148.17

Shaded cells indicate exceedance of water quality criteria

J2: Unnamed Brook

AUID NHRIV801060101-16

Characteristics: freshwater, class A designation, primary contact recreation.

Impairment: *E coli*

Water Quality Criteria & TMDL for *E coli*

Single sample: 153 CTS/100Ml

Geometric mean: 47 CTS/100mL

Percent reduction to meet TMDL:

Single sample: 44%

Geometric mean: no data

Data: NHDES EMD, 2012 303(d)

Single sample *E coli* results (CTS/100ML)

Station Name	Station ID	Date	Result
UNNAMED BROOK	CANCANIFF	8/23/09	99
UNNAMED BROOK	CANCANIFF	5/27/10	237
UNNAMED BROOK	CANCANIFF	6/23/10	273
UNNAMED BROOK	CANCANIFF	4/23/09	36
UNNAMED BROOK	CANCANIFF	5/7/09	120
UNNAMED BROOK	CANCANIFF	10/26/10	26

Shaded cells indicate exceedance of water quality criteria

J3: Mascoma River – Unnamed Brook

AUID NHRIV801060105-11

Characteristics: freshwater, class B designation, primary contact recreation.

Impairment: *E coli*

Water Quality Criteria & TMDL for *E coli*

Single sample: 406 CTS/100MI

Geometric mean: 126 CTS/100mL

Percent reduction to meet TMDL:

Single sample: 80%

Geometric mean: no data

Data: NHDES EMD, 2012 303(d)

Single sample *E coli* results (CTS/100ML)

Station Name	Station ID	Date	Result
MASCOMA RIVER – UNNAMED BROOK	MASENFM	6/20/06	930
MASCOMA RIVER – UNNAMED BROOK	MASENFM	7/31/06	13
MASCOMA RIVER – UNNAMED BROOK	MASENFM	8/28/06	41
MASCOMA RIVER – UNNAMED BROOK	MASENFM	7/24/07	10
MASCOMA RIVER – UNNAMED BROOK	MASENFM	8/21/07	82
MASCOMA RIVER – UNNAMED BROOK	MASENFM	7/29/08	82
MASCOMA RIVER – UNNAMED BROOK	MASENFM	8/26/08	50
MASCOMA RIVER – UNNAMED BROOK	MASENFM	6/30/09	2000
MASCOMA RIVER – UNNAMED BROOK	MASENFM	7/20/10	113
MASCOMA RIVER – UNNAMED BROOK	MASENFM	8/24/10	230
MASCOMA RIVER – UNNAMED BROOK	MASENFM	9/13/11	30

Shaded cells indicate exceedance of water quality criteria