

# **APPENDIX I**

## **CONNECTICUT RIVERBELLOWS FALLS TO VERNON DAM WATERSHED**

(HUC8: 01080107)

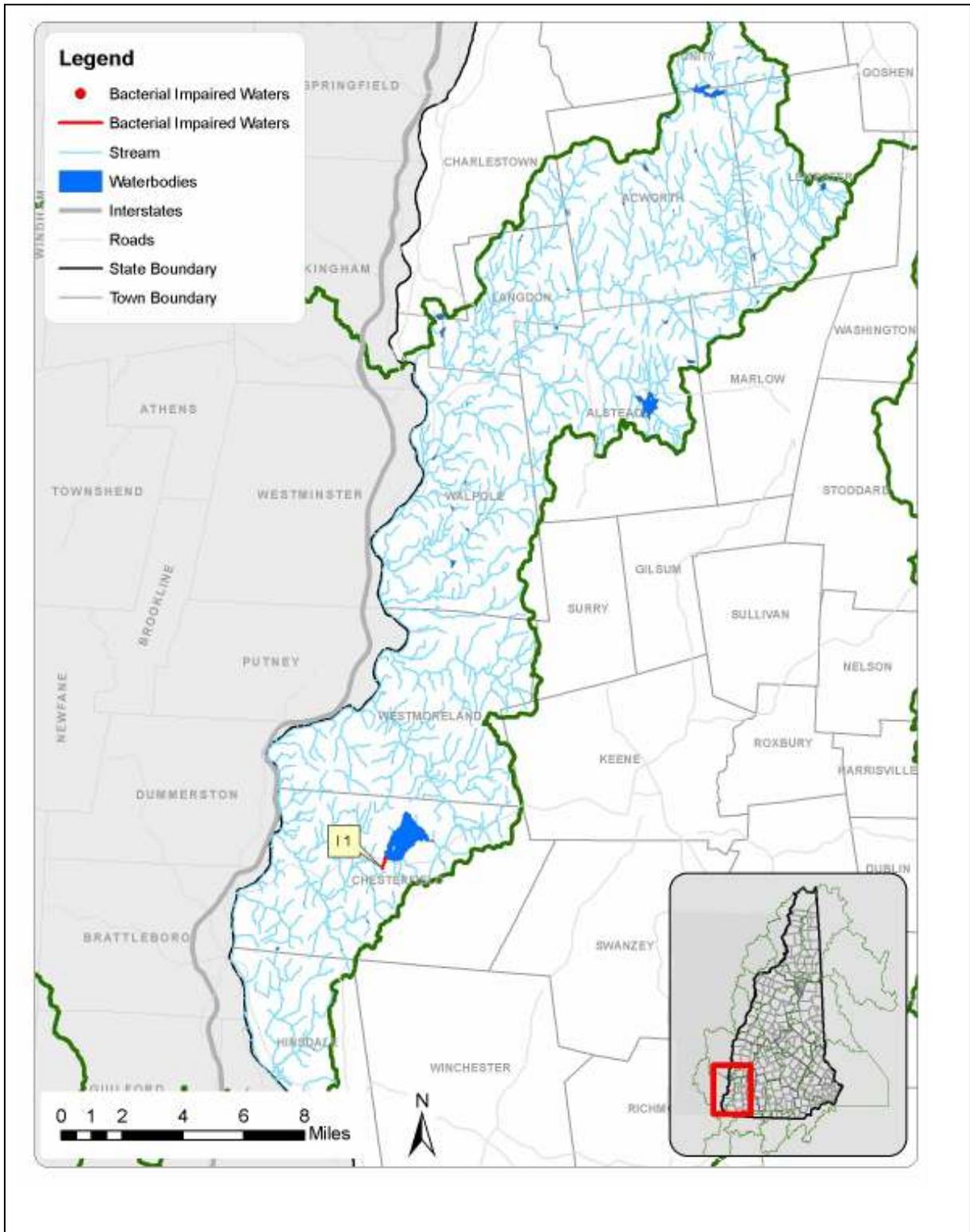
### **I. WATERSHED DESCRIPTION AND MAPS**

This section of the Connecticut River Watershed covers an area of approximately 308 square miles on the Vermont-New Hampshire border in the southwest corner of New Hampshire. There are 12 New Hampshire towns located at least partially within the watershed which extends from Unity to Hinsdale, NH. As shown in Figure 1, the primary watercourse in the region is the Connecticut River which serves as the border between Vermont and New Hampshire. Notable mountains in the area are the Pisgah Range and numerous independent landforms. Lakes of notable size in the watershed include Spofford Lake and Lake Warren. Both are located in the eastern half of the watershed and not along the course of the Connecticut River.

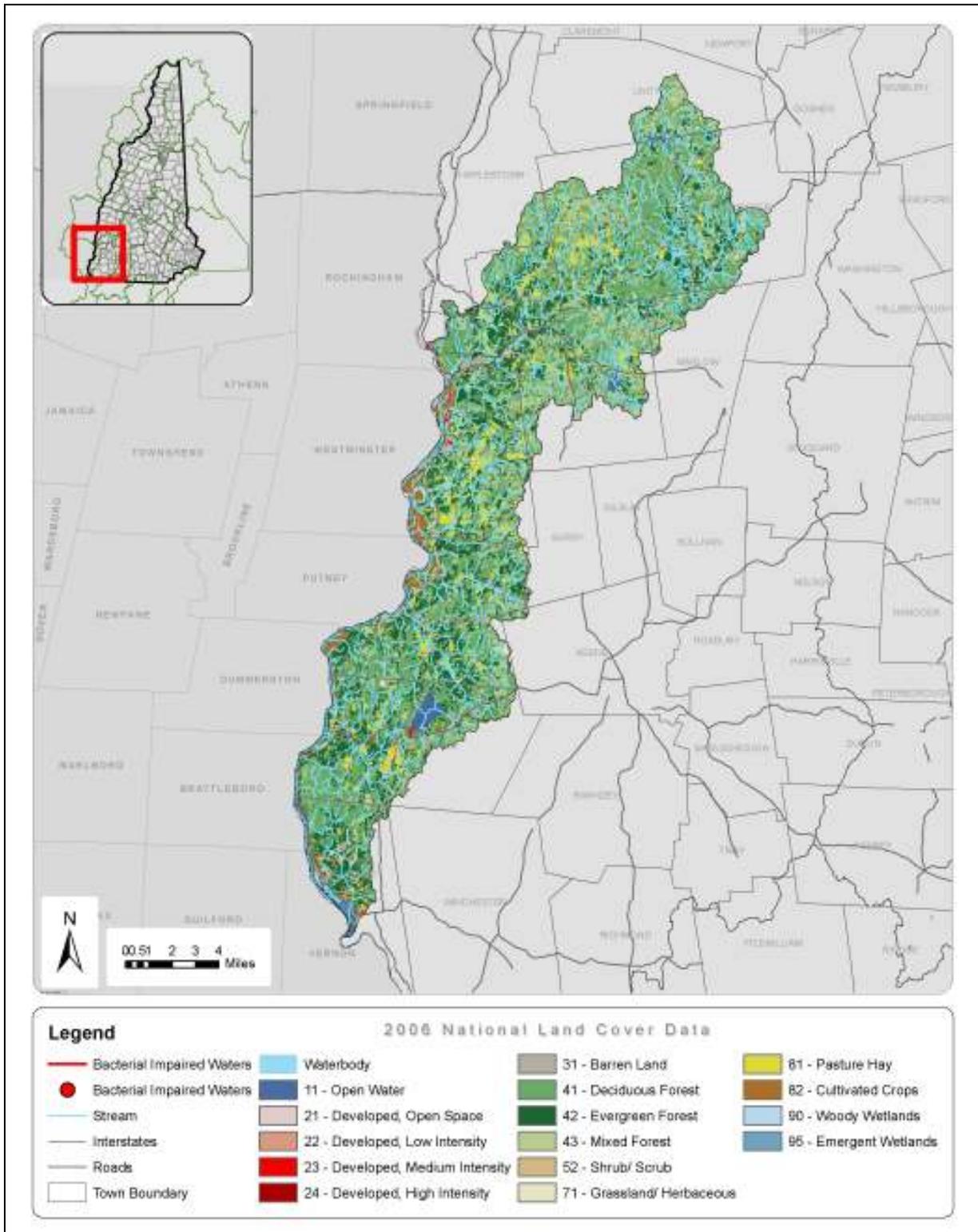
The watershed consists of 78% forested land cover. A minor portion of the woodland is conserved and protected as part of Pisgah State Park and smaller state forests. Developed and disturbed land identified on the following land cover map (Figure 2) covers 4% of watershed area. There are no urban areas in the New Hampshire part of the watershed but developed land is found across the Connecticut River in Bellows Falls, VT and Brattleboro, VT as well as around Spofford Lake. Agriculture is more predominant than developed land at 11% and most commonly found in the middle section of the watershed close to the Vermont border.

Based on the 2010 303(d) list, one 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 line. Item II 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 AU that was used to list the AU as impaired on the 2010 303(d) list.

**FIGURE 1:**



**FIGURE 2:**



## II. WATER QUALITY DATA TABLES

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## **I1: Seaman's Inlet**

**AUID** NHRIV801070503-10

**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: 92%

Geometric mean: 76%

**Data:** 2004 - 2009 (inclusive) from NH DES, 2010 TMDL cycle

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

<b>Station Name</b>	<b>Station ID</b>	<b>Date</b>	<b>Result</b>
SEAMAN'S INLET	SPOCHES2	6/22/2004	10.0
SEAMAN'S INLET	SPOCHES2	7/27/2004	100.0
SEAMAN'S INLET	SPOCHES2	8/24/2004	40.0
SEAMAN'S INLET	SPOCHES2	7/26/2005	20.0
SEAMAN'S INLET	SPOCHES2	8/23/2005	5.0
SEAMAN'S INLET	SPOCHES2	6/27/2006	20.0
SEAMAN'S INLET	SPOCHES2	7/25/2006	360.0
SEAMAN'S INLET	SPOCHES2	8/22/2006	110.0
SEAMAN'S INLET	SPOCHES2	6/21/2007	30.0
SEAMAN'S INLET	SPOCHES2	7/24/2007	10.0
SEAMAN'S INLET	SPOCHES2	8/22/2007	10.0
SEAMAN'S INLET	SPOCHES2	6/24/2008	10.0
SEAMAN'S INLET	SPOCHES2	7/29/2008	50.0
SEAMAN'S INLET	SPOCHES2	8/26/2008	70.0
SEAMAN'S INLET	SPOCHES2	6/23/2009	120.0
SEAMAN'S INLET	SPOCHES2	7/21/2009	30.0
SEAMAN'S INLET	SPOCHES2	8/18/2009	2,000.0

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

<b>Station Name</b>	<b>Date</b>	<b>Result</b>
SEAMAN'S INLET	8/22/2006	92.5
SEAMAN'S INLET	8/18/2009	193.1

Shaded cells indicate exceedance of water quality criteria