Hydrologic Data for the Presumpscot River Basin, Cumberland and Oxford Counties, Maine, 1995 to 1996

By William J. Nichols Jr., and Perry N. Silverman

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CONVERSION FACTORS, WATER-QUALITY INFORMATION, AND VERTICAL DATUM

Multiply	By	To obtain
Length		
inch (in)	25.40	millimeter
foot (ft)	0.3048	meter
mile (mi)	1.609	kilometer
Area		
square mile (mi^2)	2.590	square kilometer
Volume		
cubic foot (ft^3)	0.02832	cubic meter
Flow		
cubic foot per second (ft^3/s)	0.02832	cubic meter per second

Vertical Datum

In this report, all elevations are referenced to the National Geodetic Vertical Datum of 1929, a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada. It was formerly called Sea Level Datum of 1929.

Water-Quality Information

Chemical concentrations are given in milligrams per liter (mg/l). Specific conductances are given in microsiemen per centimeter at 25 degrees Celsius (uS/cm).

Temperature is given in degree Celsius (°C), which can be converted to degree Fahrenheit (°F) by the following equation:

$$°F = 1.8\ (°C) + 32$$

HYDROLOGIC DATA FOR THE PRESUMPSCOT RIVER BASIN, CUMBERLAND AND OXFORD COUNTIES, MAINE, 1995 TO 1996

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ABSTRACT

Hydrologic, geologic, and water-quality data were collected in the Presumpscot River Basin, Cumberland and Oxford Counties, Maine, from April 1995 to September 1996. The data were collected as part of a study to quantify surface- and ground-water inflows to Sebago Lake and to describe the geohydrology and water-quality of a sand and gravel aquifer in the North Windham 7.5-minute quadrangle. Data collection consisted of measurements of streamflow at 107 sites, water surface elevations at 18 sites, water levels at 44 wells; recording of lithologic logs of 41 wells and test borings; determination of grain-size distribution and sorting of aquifer materials in the wells and borings; and collection of water samples at 27 sites. Water-quality analyses included field determinations of specific conductance, pH, alkalinity, temperature, and dissolved oxygen; and laboratory analyses of major ions, including various species of the nutrients nitrogen and phosphorus, and trace metals.

INTRODUCTION

Population in the southern part of the Presumpscot River Basin increased substantially during the 1980's and early 1990's (Seely, 1994). The population growth resulted in increased demands on the area's water resources and the associated development increased the potential for contamination of the resources. In order to plan for development of additional water supplies to meet the increased demand and to protect the quality of the source waters, planners and managers need sound scientific information on the hydrogeologic system of an area, including data on the quantity and current quality of the water. To address a part of this information need, the U.S. Geological Survey (USGS), in cooperation with the Portland Water District, Town of Windham, Maine Department of Environmental Protection (MDEP), Maine Department of Human Services (MDHS), and the Maine Geological Survey (MGS), collected data to quantify the inflows of surface water and ground water to Sebago Lake and to describe the geohydrology and water-quality of a sand and gravel aquifer within the North Windham 7.5-minute topographic quadrangle (fig. 1).

Purpose and scope

This report presents hydrologic, geologic, and water-quality data that were collected from April 1995 to September 1996, in the Presumpscot River Basin, Cumberland and Oxford Counties, Maine (fig.1). Hydrologic data consists of streamflow measurements at 107 sites, surface-water elevations at 18 sites, and ground-water levels at 44 wells. Geologic data include lithologic logs and grain-size distribution of materials penetrated in 41 wells and test borings. Water-quality data for 27 sites included field determinations of specific conductance, pH, alkalinity, temperature, and dissolved oxygen; and laboratory determinations of common inorganic cations and anions, nutrients (nitrogen and phosphorous species), total dissolved solids, and trace metals.

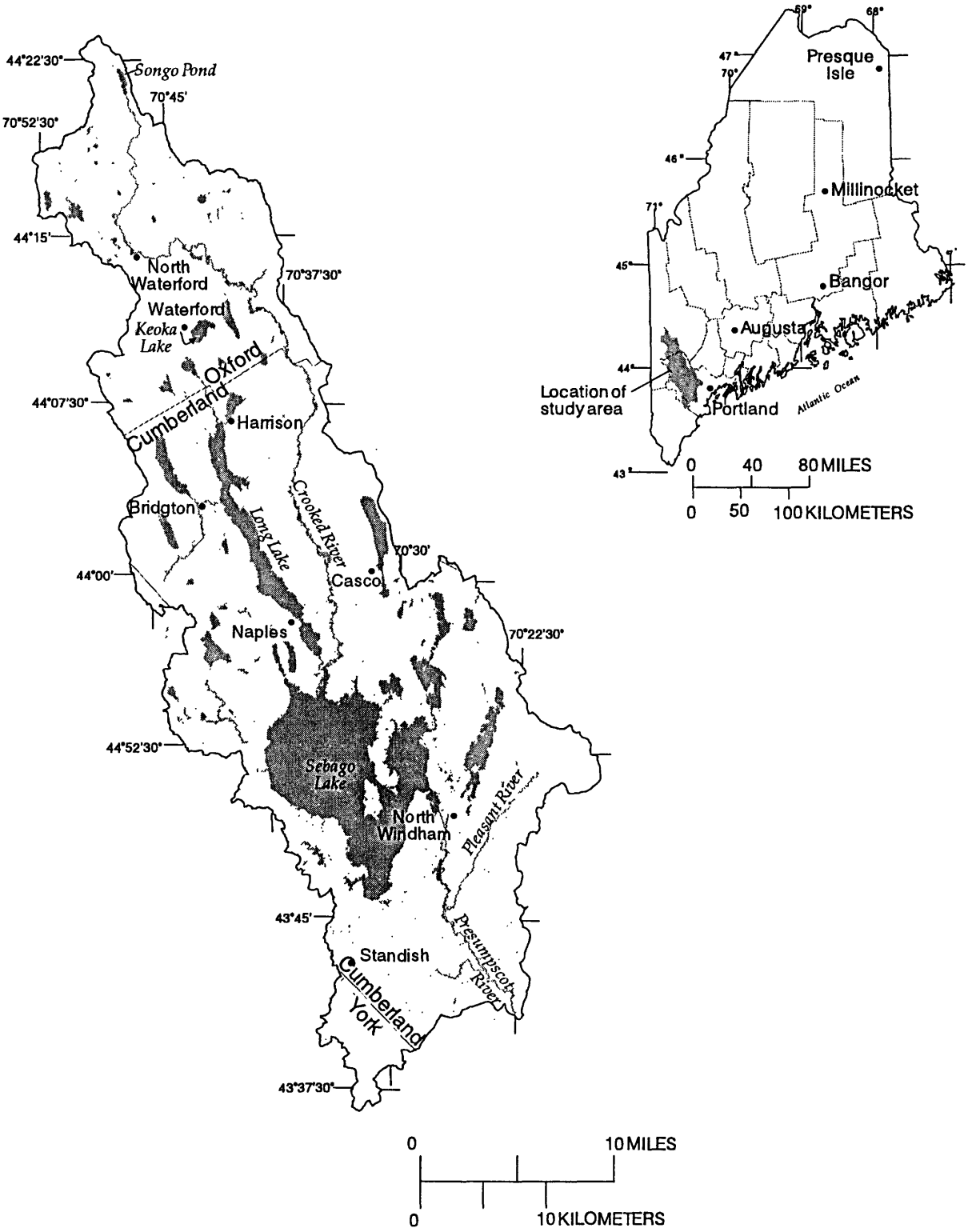

Figure 1. Presumpscot River Basin study area, Maine.

Location of study area

The study area contains 20 townships in Cumberland and Oxford Counties. The total area studied was 485.8 mi^2, including about 441 mi^2 for the Presumpscot River to the Eel Weir Dam near North Windham, Maine, and about 45.8 mi^2 that is south and east of Sebago Lake and drained by the Pleasant River (site 57) at State Route 302 near North Windham, Maine. The headwaters of the Presumpscot River Basin begin near Keoka Lake and Songo Pond. The western part of the drainage basin is composed of a series of lakes and ponds connected by streams: Keoka Lake, Mill Brook, Bear Pond, Bear River, Long Pond, Brandy Pond, and Songo River. The eastern drainage is composed of a pond draining into a river system: Songo Pond, Crooked River, and Songo River. The Songo River drains an area of 275 mi^2 at Sebago Lake. Data-collection efforts were concentrated in the area from this point south to the Presumpscot River near North Windham, including the North Windham area. The numbering system for surface-water data-collection sites is shown in figures 2 and 3. Figure 2, the Sebago Lake area, represents all the surface-water data-collection sites from Crooked River near Naples, Maine (site 34a) south. Figure 3, the Upper Crooked River area, represents all the surface-water data-collection sites north of Crooked River near Naples, Maine (site 34a, Fig. 2).

Acknowledgments

The authors thank the individuals who assisted with the collection of data reported here, including Robert Johnston, Daniel Locke, and Craig Neil of the MGS; David Braley, MDHS; and Robert Dudley, Joey Breton, and James Caldwell, USGS.

NUMBERING SYSTEM FOR DATA-COLLECTION SITES

Surface-Water Sites

Surface-water measuring sites on Sebago Lake, Upper Crooked River, and North Windham (fig. 2, fig. 3 and fig. 4) are numbered sequentially beginning with number 1, Standish Brook at Sebago Lake, and proceed in a clockwise direction around the lake, except for sites 50-53b and 56-61, which are in the Pleasant River drainage, and sites 64-65, which drain into the Presumpscot River south of Sebago Lake. Measuring sites on the Upper Crooked River are numbered sequentially beginning with number 101, which is near the Crooked River, south of Songo Pond, and proceed downstream to site number 130. In addition, continuous-recording stations at Stony Brook and Crooked River, and the discontinued streamgaging station on Collyer Brook (Royal River Basin) are identified by USGS station numbers (Novak, 1985). The site numbers and USGS station numbers are listed in table 1(all tables are at the back of the report). Also, streamgaging station data are stored in the USGS automated-data processing system (ADAPS) data base.

Wells and Test Borings

USGS identification numbers for wells and test borings are based on the grid system of latitude and longitude. Each number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude; the next seven digits denote degrees, minutes, and seconds of longitude. The last two digits (assigned sequentially) identify wells or other sites within a 1-second grid. These latitude-longitude identification numbers are the primary identifiers in the USGS groundwater site inventory (GWSI) data base. Well and test boring sites are located by project and local identifiers, which also include 15-digit USGS identifiers (fig. 4, table 2). The project identifier

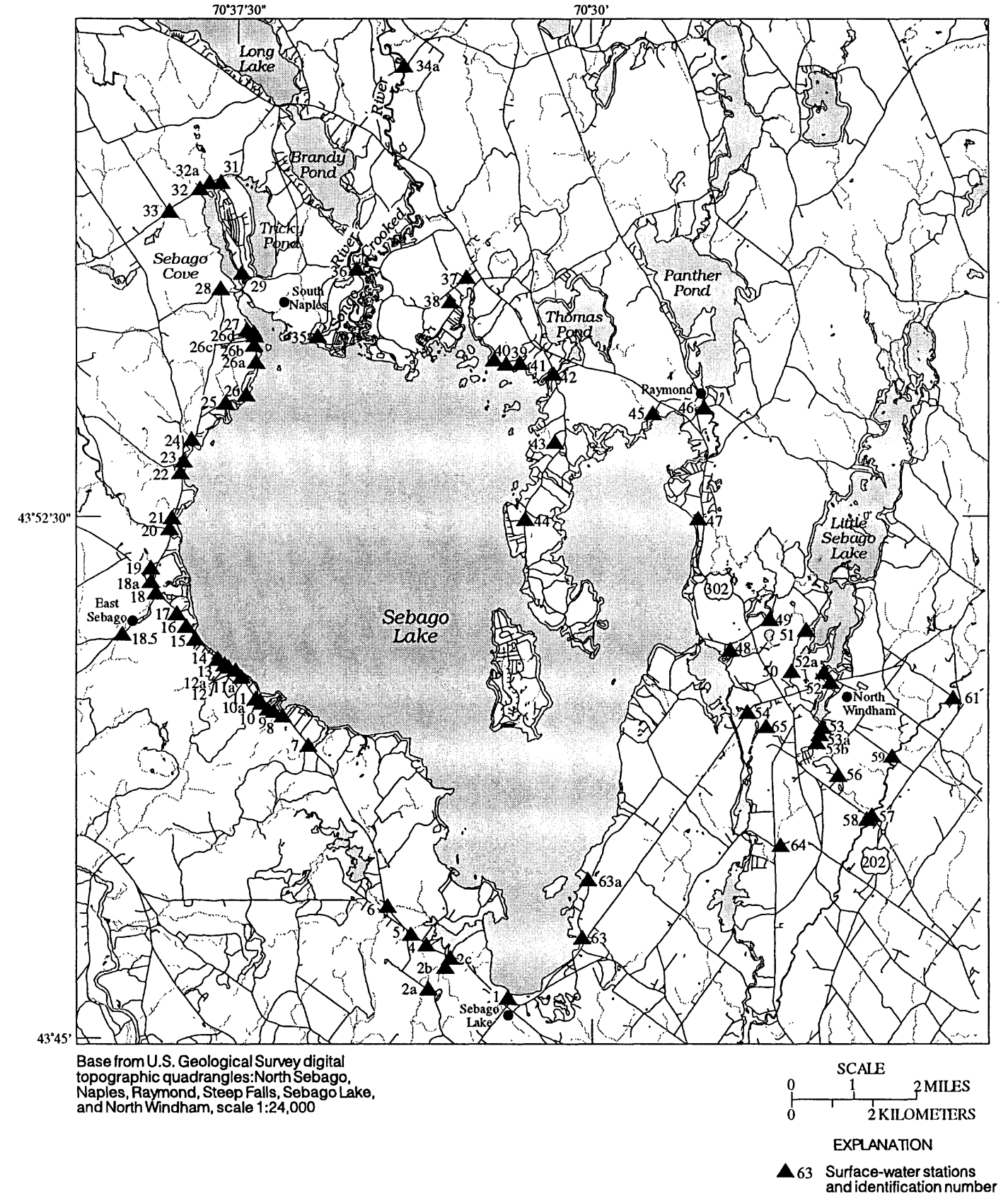

Figure 2. Surface-water data-collection sites, North Windham and Sebago Lake area, Maine.

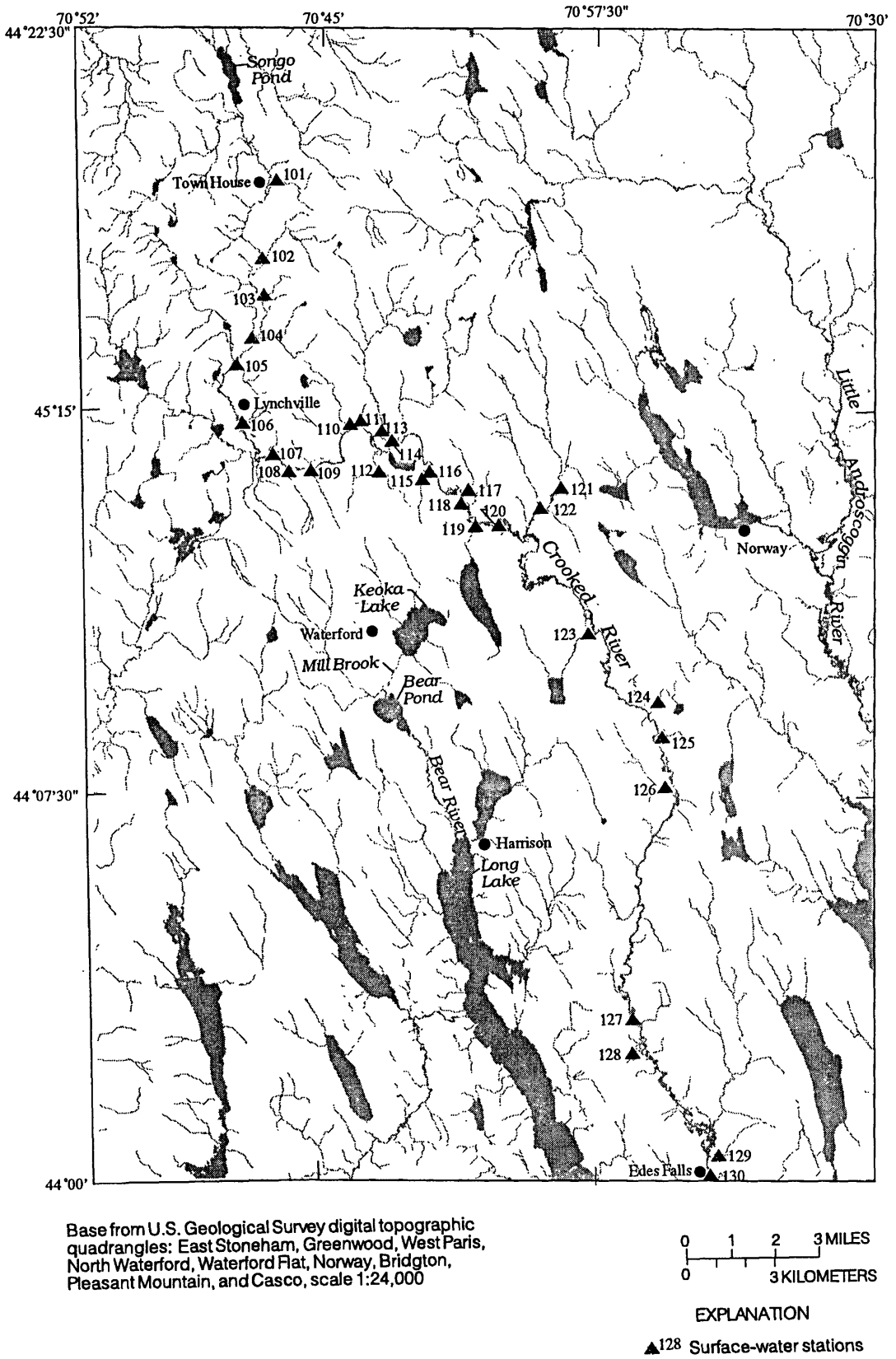

Figure 3. Surface-water data-collection sites, Upper Crooked River area, Maine.

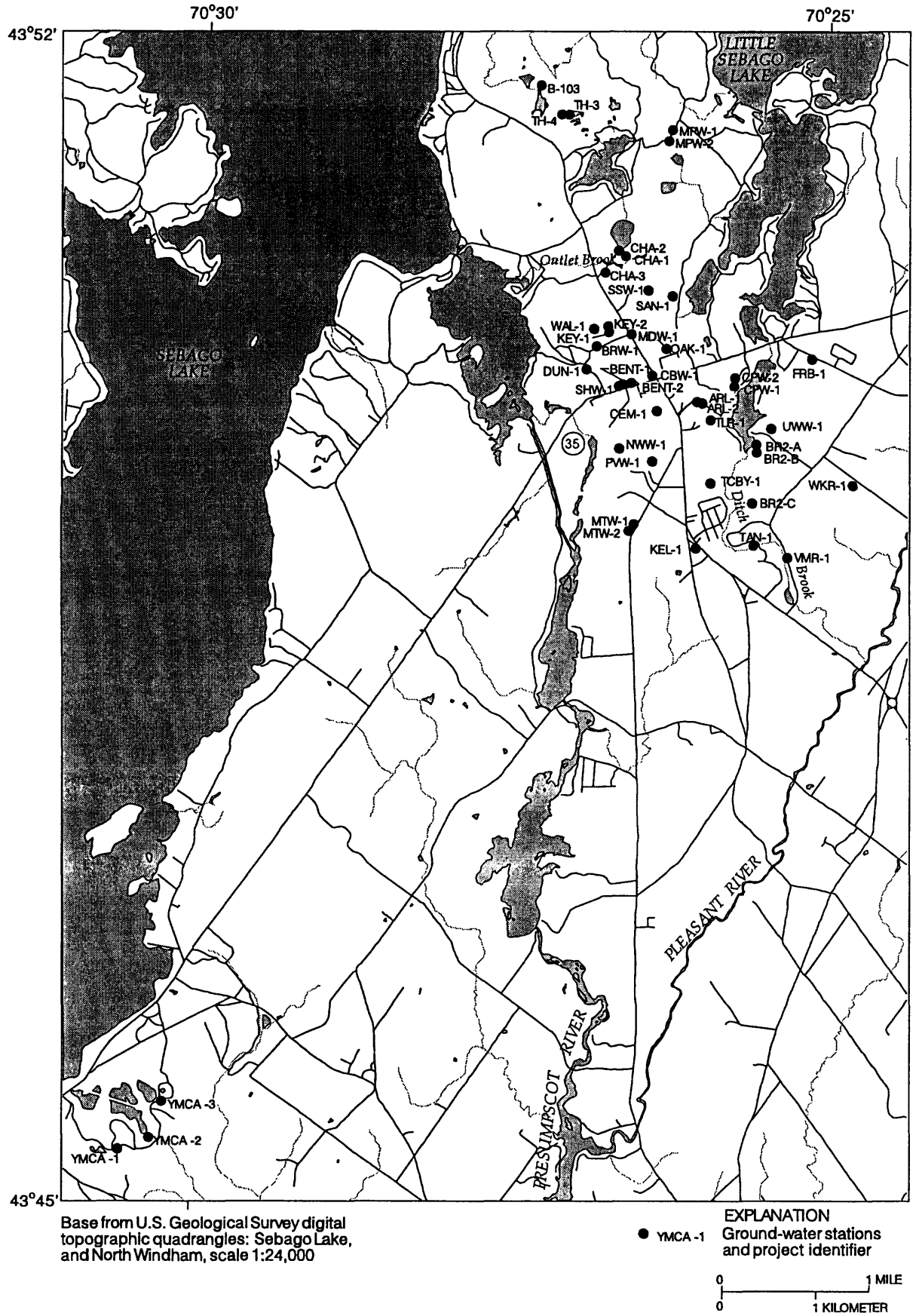

Figure 4. Ground-water data-collection sites, Presumpscot River Basin study area, Maine.

represents a physical location. For example, SAN-1 is Sandbar Road Well-1, which is located on or near Sandbar Road and was the first well drilled. The local well identifiers represent the county and well number. The first part of the identifier contains two letters that denote the county in which the well or test boring was drilled, and the number indicates how many wells or borings preceded it. For example, CW 1971 represents Cumberland County, well number 1971.

DATA-COLLECTION NETWORKS AND METHODS

The data-collection network comprises 2 continuous streamflow stations, 105 miscellaneous streamflow measurement sites, 5 stage-only measurement sites, 44 ground-water-level measurement sites (including three continuous recorder sites), 21 ground-water-quality sampling sites, and 6 surface-water-quality sampling sites. The methods of data collection for each part of the network are summarized in the following sections.

Surface Water

Measurements of streamflow were made periodically by visual observation (no flow); volumetrically, by use of a calibrated container; or by using flow-velocity (current) meters from bridges or while wading. These measurement methods are explained in U.S. Geological Survey Techniques of Water Resources Investigations, Book 3, Chapters A6 (Carter and Davidian, 1968) and A8 (Buchanan and Somers, 1969). Water surface elevations (also called stage or gage height) for selected ponds and surface-water sites and flow data for the Presumpscot River Basin are summarized in tables 1, 3, 4 and 5.

Streamflow was calculated for the gaging stations on the Crooked River near Naples and Stony Brook at East Sebago. Gaging station refers to a specific site on a stream instrumented and operated to record water-surface elevations, from which systematic records of discharge may be calculated. The continuous-flow information for Stony Brook and Crooked River extends from October 1, 1995 through September 30, 1996 (tables 3 and 4).

Ground Water

To describe basin lithology and hydrogeology, 44 wells and 4 test borings were drilled in the Presumpscot River Basin. The wells were installed by boring with hollow stem-augers into the deposit and setting the pipe with a screen attached. Materials used to construct the wells were 2-inch diameter flush threaded PVC pipe and well screen. During well construction, 2-foot-long split spoon samples were collected and examined to describe the various layers of the deposit. Lithologic logs of the wells, grain-size distribution of split-spoon samples, and water levels for the Presumpscot River Basin are shown in tables 6 to 8.

Three observation wells (numbers CW #1980, CW #1983, and CW #1993) were instrumented with down-hole data loggers. The loggers were installed to provide continuous records of water level. Daily mean water levels in these wells from October 17, 1995 through September 30, 1996 are presented in tables 9 to 11.

Water Quality

To characterize the water-quality of the Presumpscot River Basin, 21 wells and 6 surface-water sites were sampled during May 1996 and August 1996, which coincided with periods of high and low water. Results of the field measurements and laboratory analyses of the water samples are summarized in table 12.

All ground-water samples were brought to land surface by use of a submersible pump with teflon tubing or a peristaltic pump equipped with silicon tubing. Prior to sampling, each well was pumped until three well volumes were removed and measured field parameters were stabilized. Field parameters were measured in a flow-through chamber that allowed no ambient air at the surface to be introduced. Ground water was sampled from the screened intervals indicated in table 2.

Field measurements of water temperature, pH, specific conductance, and dissolved oxygen were made using a multi-parameter probe. Alkalinity was determined by incremental titration on site. A complete explanation of the field procedures used to obtain these data is contained in the U.S. Geological Survey Techniques of Water Resources Investigations Book #3 Chapter C2 (Guy and Norman, 1970).

At surface-water sites, water samples were collected using a depth-integrating sampler, or a grab sample was collected. Water was collected from five equal-discharge interval (EDI) verticals in the cross-section and composited. Field data were averaged from five verticals in the sampling cross section. Alkalinity of the composited sample was determined by titration at the sampling site.

The water samples were processed immediately and shipped to the USGS National Water Quality Laboratory in Arvada, Colorado. Subsamples were taken from a churn splitter; filtered samples drawn first, followed by samples to be filtered. The samples were passed through a 0.45-micron filter and preserved in accordance with USGS standards. All methods and procedures used complied with established guidelines in Chapter 5, National Handbook of Recommended Methods for Water-Data Acquisition (Federal Interagency Work Group, 1977).

Quality Assurance

To ensure the collection of representative water samples, standard field procedures were followed, which included the pumping of three well volumes and stabilization of values for field parameters before collecting the samples for laboratory analyses. All surface-water samples were depth- and width-integrated, except for Outlet Brook (site 48), which was a grab sample.

Two field blanks were collected to assess the accuracy and precision of the water-quality analyses. These samples were preserved and analyzed along with the regular water samples. No evidence of sample contamination was found. A volume of contaminant-free water was passed through all sampling and processing equipment. No evidence of sample contamination was found.

All chemical analyses done by the National Water-Quality Laboratory were reviewed on receipt by project personnel and the USGS New England Water-Quality Specialist. Sample verification or re-runs were requested if reported values were in question.

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– PAGE 11 FOLLOWS –

TABLES 1-12

Table 1. Location, drainage area, and discharge of surface-water sites in the Presumpscot River Basin study area, Maine

[Station locations shown in figures 2 and 3. Continuous flow data, October 1995 to September 1996 for stations 18 and 34a. mi^2, square mi ; ft^3/s, cubic feet per second; --, none or not applicable]

Site number	Stream and location	Drainage area (mi^2)	Date	Discharge (ft^3/s)
1.	Standish Brook tributary to Sebago Lake: USGS station number 01063450 Lat 43°45'41", Long 70°31'38", downstream end of culvert in Rte.. 114, .1 miles west of Sebago Lake Village in Standish, Maine.	.50	08/10/95 04/11/96 06/18/96	0.02 1.28 .03
2a.	Sticky River tributary to Sebago Lake: Lat 43°45'52", Long 70°33'05", 175 feet downstream of Moody Rd., 2.3 miles from Sebago Lake Village in Standish, Maine.	1.44	08/10/95 04/11/96 06/18/96	.05 2.36 .30
2b.	Unnamed Tributary to Sticky River: Lat 43°46'11", Long 70°32'45", 150 feet upstream of Sticky River, 1.2 miles northwest of Sebago Lake Village in Standish, Maine.	.22	04/12/96 06/18/96 07/25/96	.76 .01 .03
2c.	Unnamed Tributary to Sticky River: Lat 43°46'18", Long 70°32'40", 50 feet upstream of Sticky River, 1.2 miles northwest of Sebago Lake Village in Standish, Maine.	.14	08/10/95 04/11/96 06/18/96	.02 .50 .03
4.	Unnamed Tributary to Sebago Lake: Lat 43°46'45", Long 70°33'07", downstream end of culvert in Rte. 114, 1.7 miles northwest of Sebago Lake Village in Standish, Maine.	.13	08/10/95 04/12/96 06/19/96	.013* .73 .05
5.	Unnamed Tributary to Sebago Lake: Lat 43°46'39", Long 70°33'26", downstream end of culvert in Rte. 114, 2.0 miles northwest of Sebago Lake Village in Standish, Maine.	.16	08/10/95 04/12/96 06/18/96	< .01 .67 <.01
6.	Rich Mill Pond Outlet tributary to Sebago Lake USGS station number 01063400 Lat 43°47'01", Long 70°33'53", 150 feet downstream from Rte. 114, 2.5 miles northwest of Sebago Lake Village in Standish, Maine.	4.81	08/10/95 03/21/96 06/18/96	2.18 21.5 5.74
7.	Sucker Brook tributary to Sebago Lake: Lat 43°49'16", Long 70°35'27", downstream end of culvert in Rte. 114, 5.6 miles northwest of Sebago Lake Village near Standish, Maine.	.84	08/22/95 04/12/96 06/19/96	<.01 3.30 .32
8.	Unnamed Tributary to Sebago Lake: Lat 43°49'40", Long 70°35'54", 20 feet upstream of Rte. 114, 6.1 miles northwest of Sebago Lake Village in Standish, Maine.	.013	08/10/95 04/15/96 06/19/96	.00 .03 <.01
9.	Unnamed Tributary to Sebago Lake: Lat 43°49'44", Long 70°36'08", 75 feet upstream from Old Rte. 114, 6.3 miles northwest of Sebago Lake Village in Standish, Maine.	.27	08/10/95 04/15/96 06/19/96	.12 .84 .46

* Volumetric measurement

Table 1. Location and drainage area of surface-water sites in the Presumpscot River Basin, study area, Maine.--Continued

[Station locations shown in figures 2 and 3. Continuous flow data, October 1995 to September 1996 for stations 18 and 34a. mi^2, square mi ; ft^3/s, cubic feet per second; --, none or not applicable]

Site number	Stream and location	Drainage area (mi^2)	Date	Discharge (ft^3/s)
10.	Unnamed Tributary to Sebago Lake: Lat 43°49'45", Long 70°36'14", downstream side from Rte. 114, 6.5 miles northwest of Sebago Lake Village in Standish, Maine.	.23	08/10/95	0.00
			04/15/96	.56
			06/19/96	.02
10a.	Unnamed Tributary to Sebago Lake: Lat 43°49'50", Long 70°36'23", upstream from culvert in Rte. 114, 6.6 miles northwest of Sebago Lake Village in Standish, Maine.	.034	08/10/95	.00
			04/15/96	.27
			06/19/96	.00
11.	Unnamed Tributary to Sebago Lake: Lat 43°49'53", Long 70°36'28", upstream from culvert in Rte. 114, 6.7 miles north of Sebago Lake Village, near Standish, Maine.	.12	08/10/95	<.01
			04/15/96	.25
			06/19/96	.03
11a.	Unnamed Tributary to Sebago Lake: Lat 43°50'12", Long 70°36'44", downstream end of culvert in Rte. 114, 7.2 miles northwest of Sebago Lake Village in Standish, Maine.	.062	08/22/95	.00
			04/15/96	.07
			06/19/96	.00
12.	Unnamed Tributary to Sebago Lake: Lat 43°50'16", Long 70°36'52", downstream of culvert in Rte. 114, 7.3 miles northwest of Sebago Lake Village in Standish, Maine.	.011	08/22/95	.00
			04/15/96	.10
			06/19/96	<.01
12a.	Unnamed Tributary to Sebago Lake: Lat 43°50'20", Long 70°36'59", downstream end of culvert in Rte. 114, 7.4 miles northwest of Sebago Lake Village in Standish, Maine.	.020	08/22/95	.00
			04/19/96	.04
			06/19/96	<.01
13.	Unnamed Tributary to Sebago Lake: Lat 43°50'23", Long 70°37'07", at culvert in Rte. 114 near Long Beach, 7.5 miles northwest of Sebago Lake Village in Standish, Maine.	.071	08/22/95	.00
			04/19/96	.41
			06/19/96	.00
14.	Unnamed Tributary to Sebago Lake: Lat 43°50'26", Long 70°37'13", below downstream end of culvert in Rte. 114 at Sebago-Standish town line, 7.6 miles from Sebago Lake Village in Standish, Maine.	.76	08/22/95	.00
			04/29/96	2.15
			06/19/96	.16
15.	Unnamed Tributary to Sebago Lake: Lat 43°50'44", Long 70°37'41", upstream end of culvert in Rte. 114, .9 miles south of Rte. 11, near East Sebago, Maine.	.34	08/22/95	.00
			04/19/96	1.42
			06/19/96	<.01
16.	Unnamed Tributary to Sebago Lake: Lat 43°50'51", Long 70°37'48", at culvert in Rte. 114, .7 miles south of Rte. 11, near East Sebago, Maine.	.019	08/22/95	.00
			04/19/96	.10
			06/19/96	<.01

Table 1. Location and drainage area of surface-water sites in the Presumpscot River Basin, study area, Maine.--Continued

[Station locations shown in figures 2 and 3. Continuous flow data, October 1995 to September 1996 for stations 18 and 34a. mi^2, square mi ; ft^3/s, cubic feet per second; --, none or not applicable]

Site number	Stream and location	Drainage area (mi^2)	Date	Discharge (ft^3/s)
17.	Unnamed Tributary to Sebago Lake: Lat 43°51′04″, Long 70°38′01″, downstream of Rte. 114, .5 miles south of Rte.. 11, near East Sebago, Maine.	.23	08/22/95	0.00
			04/19/96	.96
			06/19/96	.04
18a.	Unnamed Tributary to Northwest River Lat 43°51′26″, Long 70°38′35″, upstream end of culvert in Rte. 114/ Rte. 11, .2 miles north of junction with Rte.. 11, near East Sebago, Maine.	.20	07/24/95	.00
			04/29/96	.33
			06/19/96	.00
18.	Stony Brook tributary to Northwest River: USGS station number 01063310 Lat 43°51′22″, Long 70°38′25″, 100 feet upstream of culvert in Rte. 114/ Rte. 11, 200 feet north of junction with Rte. 11, at East Sebago, Maine.	1.50	06/20/95	.50
			06/29/95	.16
			07/14/95	.192
			07/19/95	.40
			07/24/95	.13
			08/04/95	.11*
			08/11/95	.11*
			08/22/95	.057*
			08/28/95	.031*
			09/01/95	.042*
			09/15/95	.018*
			09/18/95	.094*
			09/25/95	.066*
			09/27/95	.084*
			10/02/95	.050*
			10/16/95	.200*
			10/27/95	.45
			10/31/95	.40
			02/26/96	5.40
			04/17/96	26.9
			04/29/96	6.83
			05/21/96	2.97
			06/20/96	.37
			07/11/96	.35
			07/17/96	1.22
			07/24/96	.28
			07/25/96	.29
			07/29/96	.44
			08/15/96	.149*
			08/16/96	.187*
			08/21/96	.147*
			08/29/96	.106*
			09/17/96	.126*

* Volumetric measurement

Table 1. Location and drainage area of surface-water sites in the Presumpscot River Basin, study area, Maine.--Continued

[Station locations shown in figures 2 and 3. Continuous flow data, October 1995 to September 1996 for stations 18 and 34a. mi^2, square mi ; ft^3/s, cubic feet per second; --, none or not applicable]

Site number	Stream and location	Drainage area (mi^2)	Date	Discharge (ft^3/s)
18.5.	Stony Brook tributary to Sebago Lake: Lat 43°50′45″, Long 70°39′02″, upstream end of culvert in Rte. 11, .8 miles southwest of East Sebago near Baldwin, Maine.	1.02	06/20/95	0.07
			06/29/95	.01
			07/14/95	<.01
			07/19/95	.20
			07/24/95	.03
			08/04/95	.02
			08/11/95	<.01
			08/22/95	.00
			08/28/95	.00
			09/01/95	.00
			09/18/95	<.01
			09/25/95	<.01
			09/27/95	.04
			10/16/95	.12
			10/27/95	.13
			10/31/95	.67
			02/26/96	2.94
			04/29/96	.95
			06/20/96	.03
			07/11/96	.08
			07/17/96	.97
			07/24/96	.15
			07/25/96	.10
			07/29/96	.07
			08/15/96	<.01
			08/21/96	<.01
19.	Northwest River tributary to Sebago Lake: USGS station number 01063300 Lat 43°51′41″, Long 70°38′32″, downstream end of box culvert in Old Rte. 114, .5 miles north of Rte. 11, in East Sebago, Maine.	22.3	07/19/95	19.1
			02/26/96	161
			06/19/96	13.4
20.	Unnamed Tributary to Sebago Lake: Lat 43°52′14″, Long 70°38′11″, 100 feet downstream of Rte. 114/ Rte. 11, 1.1 miles north of junction with Rte. 11, near East Sebago, Maine.	.13	07/24/95	.00
			04/29/96	.54
			06/20/96	<.01
21.	Unnamed Tributary to Sebago Lake: Lat 43°52′23″, Long 70°38′08″, 60 feet upstream of Rte. 114/ Rte. 11, 1.3 miles north of junction with Rte. 11, near Sebago, Maine.	.14	08/22/95	<.01
			04/29/96	.41
			06/20/96	.02
22.	Nason Brook tributary to Sebago Lake: Lat 43°53′03″, Long 70°38′00″, 25 feet upstream of Rte. 114/ Rte. 11, 2.1 miles north of junction with Rte. 11, in Sebago, Maine.	1.38	07/24/95	.18
			04/18/96	14.3
			06/20/96	.45
23.	Unnamed Tributary to Sebago Lake: Lat 43°53′11″, Long 70°37′56″, 30 feet downstream of Rte. 114/ Rte. 11, 2.3 miles north of junction with Rte. 11, near Sebago, Maine.	.18	08/22/95	<.01
			04/29/96	.49
			06/20/96	.08

Table 1. Location and drainage area of surface-water sites in the Presumpscot River Basin, study area, Maine.--Continued

[Station locations shown in figures 2 and 3. Continuous flow data, October 1995 to September 1996 for stations 18 and 34a. mi^2, square mi ; ft^3/s, cubic feet per second; --, none or not applicable]

Site number	Stream and location	Drainage area (mi^2)	Date	Discharge (ft^3/s)
24.	Bachelder Brook tributary to Sebago Lake: USGS station number 01063200 Lat 43°53'29", Long 70°37'49", 100 feet upstream of Rte. 114/ Rte. 11, 2.7 miles north of junction with Rte. 11, in Sebago, Maine.	2.36	05/23/95 07/19/95 04/18/96 06/20/96	3.18 2.11 24.0 .68
25.	Unnamed Tributary to Sebago Lake: Lat 43°54'01", Long 70°37'10", downstream end of culvert in Anderson Road, .4 miles east of Rte. 114/ Rte. 11, in Sebago, Maine.	.21	08/22/95 04/29/96 06/20/96	.00 .47 .02
26.	Unnamed Tributary to Sebago Lake: Lat 43°54'07", Long 70°36'46", 20 feet upstream of Anderson Road, .8 miles northeast of Rte. 114/ Rte. 11, in Sebago, Maine.	.11	08/22/95 04/29/96 06/20/96	.00 .20 .03
26a.	Unnamed Tributary to Sebago Lake: Lat 43°54'27", Long 70°36'37", downstream of culvert in Anderson Road, 1.5 miles northeast of Rte. 114/ Rte. 11, in Sebago, Maine.	.049	08/22/95 04/29/96 06/20/96	.00 .25 .01
26b.	Unnamed Tributary to Sebago Lake: Lat 43°54'40", Long 70°35'38",downstream end of culvert in Anderson Road, 1.8 miles northeast of Rte. 114/ Rte. 11, in Sebago, Maine.	.027	08/22/95 04/29/96 06/20/96	.00 .095* .010*
26c.	Unnamed Tributary to Sebago Lake: Lat 43°54'56", Long 70°36'36", downstream end of culvert in Anderson Road, 2.0 miles northeast of Rte. 114/ Rte. 11, in Sebago, Maine.	.008	08/22/95 04/29/96 06/20/96	.00 .01 <.01
26d.	Unnamed Tributary to Sebago Lake: Lat 43°55'00", Long 70°37'08", 100 feet downstream of Anderson Road, 2.2 miles northeast of Rte. 114/ Rte. 11, in Sebago, Maine.	.004	08/22/95 04/29/96 06/20/96	.00 .01 <.01
27.	Unnamed Tributary to Sebago Lake: Lat 43°55'01", Long 70°36'48", downstream end of culvert in Anderson Road, 2.2 miles northeast of Rte. 114/ Rte. 11, in Sebago, Maine.	.022	08/22/95 04/29/96 06/20/96	.00 .02 .00
28.	Unnamed Tributary to Sebago Cove: Lat 43°55'34", Long 70°37'18", downstream end of culvert in Burrell Road, .1 miles west of Rte. 114/ Rte. 11, in Naples, Maine.	1.27	08/22/95 04/30/96 06/20/96	.012* 3.77 .305*
29.	Unnamed Tributary to Sebago Cove: Lat 43°55'49", Long 70°36'54", downstream end of culvert in Gore Road, .3 miles north of Rte. 114/ Rte. 11, in Naples, Maine.	.010	08/22/95 04/30/96 06/17/96	.00 .043* .004*
31.	Unnamed Tributary to Sebago Cove: Lat 43°57'05", Long 70°37'19", downstream end of culvert in Gore Road, 1.8 miles north of Rte. 114/ Rte. 11, in Naples, Maine.	1.48	08/22/95 04/18/96 06/17/96	.20 14.4 1.94

* Volumetric measurement

Table 1. Location and drainage area of surface-water sites in the Presumpscot River Basin, study area, Maine.--Continued

[Station locations shown in figures 2 and 3. Continuous flow data, October 1995 to September 1996 for stations 18 and 34a. mi^2, square mi ; ft^3/s, cubic feet per second; --, none or not applicable]

Site number	Stream and location	Drainage area (mi^2)	Date	Discharge (ft^3/s)
32.	Muddy River tributary to Sebago Cove: USGS station number 01063150 Lat 43°56′59″, Long 70°37′44″, 20 feet upstream of Kimball Corner Road, 2 miles south of Rte. 302, near Naples, Maine.	9.96	07/19/95 03/22/96 06/24/96	7.35 49.8 8.02
32a.	Unnamed Tributary to Sebago Cove: Lat 43°57′03″, Long 70°37′34″, downstream end of culvert in Kimball Corner Road, 1.9 miles south of Rte. 302, near Naples, Maine.	.65	08/22/95 04/30/96 06/17/96	.006* 1.53 .24
33.	Leavitt Brook tributary to Sebago Cove: Lat 43°56′41″, Long 70°38′20″, downstream end of culvert in Kimball Corner Road, 2.7 miles from Rte. 302, near Naples, Maine.	.94	08/22/95 03/22/96 06/17/96	.001* 3.87 .24
34a.	Crooked River tributary to Songo River: USGS station number 01063100 Lat 43°55′44″, Long 70°33′50″, 50 feet downstream of Rte. 11 bridge, 1.3 miles north of Rte. 302, at the town line of Casco and Naples, Maine.	150	06/20/95 06/29/95 07/14/95 08/04/95 08/11/95 08/17/95 08/23/95 08/28/95 09/01/95 10/02/95 10/16/95 10/24/95 10/27/95 10/31/95 01/12/96 04/18/96 04/22/96 05/21/96 06/25/96 06/28/96 07/15/96 08/15/96 08/16/96 08/29/96 09/04/96	95.5 55.5 41.1 45.2 37.0 36.2 25.8 22.8 22.7 24.6 49.8 234 128 784 114 2700 1040 568 215 155 876 79.3 85.0 79.5 57.0
35.	Whitney Brook tributary to Sebago Lake: Lat 43°54′57″, Long 70°35′25″, 50 feet downstream of access road, 1.7 miles south of Songo Locks near Naples, Maine.	.40	08/23/95 04/30/96 06/17/96	.01 1.32 .28
36.	Songo River at Locks tributary to Sebago Lake: Lat 43°55′55″, Long 70°34′43″, at bridge on Songo Lock Road, upstream of lock, 1.9 miles west of Rte. 302, in Naples, Maine.	119	04/30/96 06/28/96	666 150

* Volumetric measurement

Table 1. Location and drainage area of surface-water sites in the Presumpscot River Basin, study area, Maine.--Continued

[Station locations shown in figures 2 and 3. Continuous flow data, October 1995 to September 1996 for stations 18 and 34a. mi^2, square mi ; ft^3/s, cubic feet per second; --, none or not applicable]

Site number	Stream and location	Drainage area (mi^2)	Date	Discharge (ft^3/s)
37.	Dingley Brook tributary to Sebago Lake: Lat 43°55'49", Long 70°32'35", downstream end of culvert in Rigg Road, .2 miles south of Rte. 302, near South Casco, Maine.	1.20	08/22/95 05/01/96 05/29/96	0.057* 6.00 1.52
38.	Unnamed Tributary to Sebago Lake: Lat 43°55'29", Long 70°32'54", upstream end of culvert in Shore Road, .8 miles south of Rte. 302, near South Casco, Maine.	.26	08/22/95 05/01/96 05/29/96	.02 .90 .20
39.	Unnamed Tributary to Sebago Lake: Lat 43°54'37", Long 70°31'46", downstream end of culvert in Fire Road #4, .6 miles south of Rte. 302, near South Casco, Maine.	.045	08/22/95 05/01/96 05/29/96	.00 .21 .04
40.	Unnamed Tributary to Sebago Lake: Lat 43°54'40", Long 70°31'59", downstream end of culvert in Fire Road #4, .8 miles south of Rte. 302, near South Casco, Maine.	.29	08/22/95 05/01/96 05/29/96	.00 .78 .29
41.	Unnamed Tributary to Sebago Lake: Lat 43°54'38", Long 70°31'31", downstream of culvert in Fire Road #3, .3 miles south of Rte. 302, near South Casco, Maine.	.088	08/22/95 05/01/96 05/29/96	<.01 .13 .06
42.	Dingley Brook tributary to Sebago Lake: USGS station number 01063185 Lat 43°54'30", Long 70°30'51", downstream end of culvert in Raymond Neck Rd., .4 miles south of Rte. 302, near South Casco, Maine.	5.18	08/22/95 04/22/96 06/24/96	.55 32.7 .12
43.	Unnamed Tributary to Sebago Lake: Lat 43°53'34", Long 70°30'50", 60 feet west of Casselton Road, 1.5 miles south of Rte. 302, near Raymond, Maine.	.20	08/23/95 04/22/96 05/29/96	.08 .38 .22
44.	Unnamed Tributary to Sebago Lake: Lat 43°52'28", Long 70°31'22", 10 feet upstream of culvert in Shaw Road, 3.1 miles south of Rte. 302, near Raymond, Maine.	.21	08/23/95 04/22/96 05/28/96	.00 .77 .19
45.	Unnamed Tributary to Sebago Lake: Lat 43°53'59", Long 70°28'55", downstream end of culvert in Deep Cove Shore Road, .2 miles south of Rte. 302, near Raymond, Maine.	.62	09/01/95 04/22/96 05/28/96	<.01 3.04 .93
46.	Panther Run tributary to Sebago Lake: Lat 43°54'05", Long 70°27'55", 120 feet downstream of Mill Street dam, .2 miles east of Rte. 121, near Raymond Village, Maine.	3.1	07/19/95 03/22/96 06/24/96	1.8 95.9 11.4
47.	Hyde Brook tributary to Sebago Lake: Lat 43°52'32", Long 70°27'55", 75 feet downstream of box culvert in Rte. 302, 3.4 miles northwest of Rte. 115, in North Windham, Maine.	1.34	09/01/95 03/21/96 05/28/96	.06 5.64 2.29

* Volumetric measurement

Table 1. Location and drainage area of surface-water sites in the Presumpscot River Basin, study area, Maine.--Continued

[Station locations shown in figures 2 and 3. Continuous flow data, October 1995 to September 1996 for stations 18 and 34a. mi^2, square mi ; ft^3/s, cubic feet per second; --, none or not applicable]

Site number	Stream and location	Drainage area (mi^2)	Date	Discharge (ft^3/s)
48.	Outlet Brook tributary to Sebago Lake: Lat 43°50′41″, Long 70°27′21″, 25 feet downstream of Sokokis Point Rd., .1 miles south of Whites Bridge Rd., in North Windham, Maine.	1.20	05/02/95 08/15/95 05/02/96 05/28/96 08/20/96	0.25 .04 .59 .44 .03
49.	Unnamed Tributary to Outlet Brook: Lat 43°51′05″, Long 70°26′38″, 30 feet downstream of culvert in Angler Road, at outlet of Pettingill Pond, .5 miles east of Rte. 302, in North Windham, Maine.	.62	08/28/95	.00
50.	Unnamed Tributary to Tarkill Pond: Lat 43°50′25″, Long 70°26′11″, 10 feet downstream of culvert in Sandbar Road, .4 miles north of Rte. 115, in North Windham, Maine.	.29	08/28/95	<.01
51	Unnamed Tributary to Little Sebago Lake: Lat 43°50′59″, Long 70°25′54″, 5 feet downstream of culvert in Sandbar Road, 1.1 miles north of Rte. 115 in North Windham, Maine.	.39	08/28/95	.39
52.	Ditch Brook tributary to Pleasant River: Lat 43°50′16″, Long 70°25′24″, 100 feet below Mill Pond dam, on Rte. 115, .8 miles east of Rte. 302, near North Windham, Maine.	19.1	05/02/95 05/23/95 07/13/95 08/15/95 03/22/96 05/16/96	1.26 .70 1.07 1.66 62.3 56.6
52a.	Ditch Brook tributary to Pleasant River: Lat 43°50′12″, Long 70°25′26″, 200 feet upstream of Collins Pond, 250 feet south of Rte. 115, near North Windham, Maine.	19.1	07/13/95	1.78
53	Ditch Brook tributary to Pleasant River: Lat 43°49′37″, Long 70°25′35″, 30 feet downstream of Collins Pond dam, near North Windham, Maine.	19.4	07/13/95 08/11/95 08/15/95 08/20/96	4.15 5.28 4.32 8.77
53a.	Ditch Brook tributary to Pleasant River: Lat 43°49′26″, Long 70°25′44″, .2 miles downstream of outlet of Collins Pond, .4 miles west of Varney Mill Road, near North Windham, Maine.	19.4	7/13/95	2.97
53b.	Ditch Brook tributary to Pleasant River: Lat 43°49′03″, Long 70°25′35″, 175 feet upstream of culvert in sandpit access road, .25 miles north of Rte. 302, near North Windham, Maine.	19.9	08/11/95 08/16/95	6.71 6.08

Table 1. Location and drainage area of surface-water sites in the Presumpscot River Basin, study area, Maine.--Continued

[Station locations shown in figures 2 and 3. Continuous flow data, October 1995 to September 1996 for stations 18 and 34a. mi^2, square mi ; ft^3/s, cubic feet per second; --, none or not applicable]

Site number	Stream and location	Drainage area (mi^2)	Date	Discharge (ft^3/s)
54.	Presumpscot River tributary to Atlantic Ocean: Lat 43°49'50", Long 70°27'01", 80 feet downstream from Rte. 35 bridge, .7 miles west of Rte. 302, near North Windham, Maine. Discharge does not include Eel Weir Canal flow.	440	08/28/95	92.6
			01/26/96	49.4
			02/14/96	52.7
			03/28/96	803
			08/27/96	78.6
			08/27/96	128
			08/27/96	435
56.	Ditch Brook tributary to Pleasant River: Lat 43°49'04", Long 70°25'17", .3 miles upstream of dam at Varney Mill Rd., near North Windham, Maine.	2.0	07/13/95	5.71
57.	Pleasant River tributary to Presumpscot River: Lat 43°48'21", Long 70°24'40", 200 feet downstream of culvert in Rte. 302, 2.5 miles southeast of North Windham, Maine.	45.8	07/14/95	11.3
			03/21/96	291.
58.	Ditch Brook tributary to Pleasant River: Lat 43°48'23", Long 70°24'39", 150 feet upstream of culvert in Rte. 302, 2.5 miles southeast of North Windham, Maine.	2.5	05/02/95	7.25
			07/13/95	5.83
			03/22/96	68.6
			05/16/96	71.7
59.	Pleasant River tributary to Presumpscot River: Lat 43°49'14", Long 70°24'14", 10 feet upstream of bridge in William Knight Road, .3 miles northwest of Rte. 202, near North Windham, Maine.	23.9	07/14/95	3.58
61.	Pleasant River tributary to Presumpscot River: Lat 43°50'04", Long 70°23'05", 150 feet upstream of bridge on Brand and Knight Road, .2 miles west of Rte. 202, near North Windham, Maine.	17.7	05/23/95	3.3
			07/14/95	1.88
63.	Unnamed Tributary to Sebago Lake: Lat 43°45'08", Long 70°31'30", downstream of culvert in Pond Road, .1 miles north of Rte. 35, near Sebago Lake Village in Standish,Maine.	.062	08/10/95	.00
			04/11/96	.32
			06/18/96	<.01
63a.	Unnamed Tributary to Sebago Lake: Lat 43°47'26", Long 70°30'02", 600 feet downstream of Pond Road, 1 mile north of Rte. 35, in Standish, Maine.	.37	05/02/96	.80
			06/18/96	.03
			07/25/96	.11
64.	Otter Brook tributary to Presumpscot River: Lat 43°47'46", Long 70°26'26"", downstream of River Road, .2 miles south of intersection with Windham Center Road, near North Windham, Maine.	1.03	05/02/96	3.08

Table 1. Location and drainage area of surface-water sites in the Presumpscot River Basin, study area, Maine.--Continued

[Station locations shown in figures 2 and 3. Continuous flow data, October 1995 to September 1996 for stations 18 and 34a. mi^2, square mi ; ft^3/s, cubic feet per second; --, none or not applicable]

Site number	Stream and location	Drainage area (mi^2)	Date	Discharge (ft^3/s)
65.	Unnamed Tributary to Presumpscot River: Lat 43°49′40″, Long 70°26′40″, 100 feet upstream of culvert in Northwood Road, .5 miles south of Rte. 35, near North Windham, Maine.	.084	08/11/95	0.01
			08/23/95	.00
			08/28/95	<.01
			09/15/95	.00
			09/18/95	.02
			09/27/95	.01
			10/17/95	.10
			07/11/96	.03
			07/25/96	.06
			07/29/96	.03
			08/15/96	<.01
			08/21/96	.02
--	Collyer Brook tributary to Royal River: USGS Station number 01059800 Lat 43°55′03″, Long 70°19′02″, 50 feet downstream of Rte. 202, 2.4 miles northeast of Gray, Maine. (Royal River Basin)	13.8	09/15/95	11.4
			09/27/95	12.2
			10/16/95	13.4
			10/27/95	15.6
			01/12/96	12.7
			02/26/96	44.2
			07/11/96	16.7
			07/17/96	24.7
			07/25/96	23.1
			07/29/96	21.1
			08/15/96	18.3
			08/21/96	17.6
101.	Unnamed Tributary to Crooked River Lat 44°19′30″, Long 70°46′14″, upstream end of culvert in Rte. 35, at intersection with Rte. 5, at Town House in Albany Twp., Maine.	1.03	08/29/95	.00
102.	Barkers Brook tributary to Crooked River: Lat 44°17′58″, Long 70°46′37″, upstream end of culvert in Rte. 35 and Rte. 5, 4.1 miles north of Lynchville in Albany Twp., Maine.	2.06	08/29/95	.00
103.	Unnamed Tributary to Crooked River: Lat 44°17′14″, Long 70°46′33″, at culvert in dirt road off Rte. 35/ Rte. 5, 3.3 miles north of Lynchville in Albany Twp., Maine.	.48	08/29/95	.00
104.	Flints Brook tributary to Crooked River: Lat 44°16′25″, Long 70°46′53″", at culvert in Rte. 35 and Rte. 5, 2.3 miles north of Lynchville in Albany Twp., Maine.	.36	08/29/95	.00
105.	Unnamed Tributary to Crooked River: Lat 44°15′53″, Long 70°47′18″, at culvert in Rte. 35 and Rte. 5, 1.5 miles north of Lynchville in Albany Twp., Maine.	.51	08/29/95	.00

Table 1. Location and drainage area of surface-water sites in the Presumpscot River Basin, study area, Maine.--Continued

[Station locations shown in figures 2 and 3. Continuous flow data, October 1995 to September 1996 for stations 18 and 34a. mi^2, square mi ; ft^3/s, cubic feet per second; --, none or not applicable]

Site number	Stream and location	Drainage area (mi^2)	Date	Discharge (ft^3/s)
106.	Unnamed Tributary to Crooked River: Lat 44°14′45″, Long 70°47′09″, at culvert in Rte. 35/ Rte. 5, .1 miles north of Lynchville in Albany Twp., Maine.	.39	08/29/95	0.00
107.	Unnamed Tributary to Crooked River: Lat 44°14′09″, Long 70°46′19″, at culvert in Sawn Hill Rd., at North Waterford, Maine.	.22	08/29/95	.00
108.	Unnamed Tributary to Crooked River: Lat 44°13′49″, Long 70°45′52″, at culverts in Rte. 118, .4 miles east of Rte. 35 in Waterford, Maine.	.67	08/29/95	.00
109.	Unnamed Tributary to Crooked River: Lat 44°13′51″, Long 70°45′16″, 30 feet downstream of Rte. 118, .9 miles east of Rte. 35, near North Waterford, Maine.	.89	09/07/95	.02
110.	Unnamed Tributary to Crooked River: Lat 44°14′44″, Long 70°44′14″, at culvert in Bisbee Town Rd., 1.9 miles east of Rte. 118 in Waterford, Maine.	1.43	08/29/95	.00
111.	Unnamed Tributary to Crooked River: Lat 44°14′47″, Long 70°43′57″, at culvert in Bisbee Town Rd., 2.2 miles east of Rte. 118 in Waterford, Maine.	.15	08/29/95	.00
112.	Sampson Brook tributary to Crooked River: Lat 44°13′48″, Long 70°43′26″, at culvert in Rte. 118, 2.5 miles east of Rte. 35 in Waterford, Maine.	1.28	08/29/95	.00
113.	Swett Brook tributary to Crooked River: Lat 44°14′36″, Long 70°43′22″, at culvert in Bisbee Town Rd., 2.8 miles east of Rte. 118 in Waterford, Maine.	6.34	08/29/95	.00
114.	Crooked River tributary to Songo River: Lat 44°14′24″, Long 70°43′05″, 40 feet below Hunts Corner Rd., 1 mile north of Rte. 118, near East Waterford, Maine.	6.2	08/24/95	3.74
115.	Hemlock Brook tributary to Crooked River: Lat 44°13′40″, Long 70°42′15″, at culvert in Rte. 118, .1 miles east of Hunts Corner Rd. in Waterford, Maine.	.54	08/29/95	.00
116.	Crooked River tributary to Songo River: Lat 44°13′47″, Long 70°42′03″, 1 mile upstream of McIntire Road, at end of Fire Rd #59 off Rte. 118, near East Waterford, Maine.	67.5	08/24/95	4.46

Table 1. Location and drainage area of surface-water sites in the Presumpscot River Basin, study area, Maine.--Continued

[Station locations shown in figures 2 and 3. Continuous flow data, October 1995 to September 1996 for stations 18 and 34a. mi^2, square mi ; ft^3/s, cubic feet per second; --, none or not applicable]

Site number	Stream and location	Drainage area (mi^2)	Date	Discharge (ft^3/s)
117.	McIntire Brook tributary to Crooked River: Lat 44°13′27″, Long 70°41′00″, upstream end of culvert in McIntire Rd., .5 miles northeast of Rte. 118, near East Waterford, Maine.	.72	09/07/95	0.02
118.	Crooked River tributary to Songo River: Lat 44°13′11″, Long 70°41′11″, 400 feet downstream of McIntire Rd., .2 miles northeast of Rte. 118, near East Waterford, Maine.	69.1	08/24/95	5.40
119.	Unnamed Tributary to Crooked River: Lat 44°12′46″, Long 70°40′49″, 40 feet upstream of Rte. 118, at intersection of Rte. 118 and Rte. 37, near East Waterford, Maine.	4.85	09/07/95	.48
120.	Crooked River tributary to Songo River: Lat 44°12′46″, Long 70°40′11″, .5 miles upstream of Rte. 118 bridge, .5 miles east of Rte. 37, near East Waterford, Maine.	75.7	08/17/95	11.5
121.	Meadow Brook tributary to Crooked River: Lat 44°13′31″, Long 70°38′29″, downstream end of culvert in Bell Holt Rd., .3 miles northwest of Rte. 118, near East Waterford, Maine	6.96		
122.	Reed Brook tributary to Crooked River: Lat 44°13′07″, Long 70°39′03″, at culvert in Rte. 118, .1 miles west of Shedd Rd. near East Waterford, Maine.	1.38	08/30/95	.00
123.	Unnamed Tributary to Crooked River: Lat 44°10′40″, Long 70°37′44″, brook from Island Pond at culvert in dirt road off Baker Hill Rd., 2.1 miles east of Temple Hill Rd. in Waterford, Maine	3.42	08/30/95	.00
124.	Unnamed Tributary to Crooked River: Lat 44°09′19″, Long 70°35′51″, brook from Little Pond at culvert in Rte. 117, .4 miles east of Twin Bridges in Otisfield, Maine.	1.49	08/30/95	.00
125.	Crooked River tributary to Songo River: Lat 44°08′37″, Long 70°35′44″, 200 feet upstream of Ryefield Bridge Rd., .4 miles east of Stuarts Corner, near Harrison, Maine.	99.3	08/17/95	12.4
126.	Unnamed Tributary to Crooked River: Lat 44°07′40″, Long 70°35′38″, downstream end of culvert in Plains Road, 1 mile south of Stuarts Corner, near Harrison, Maine.	1.81	09/07/95	<.001*
127.	Crooked River tributary to Songo River: Lat 44°03′08″, Long 70°36′31″, 3 miles downstream of Scribners Mills, off gravel pit access road, near Harrison, Maine.	112	08/17/95	26.2

* Volumetric measurement

Table 1. Location and drainage area of surface-water sites in the Presumpscot River Basin, study area, Maine.--Continued

[Station locations shown in figures 2 and 3. Continuous flow data, October 1995 to September 1996 for stations 18 and 34a. mi^2, square mi ; ft^3/s, cubic feet per second; --, none or not applicable]

Site number	Stream and location	Drainage area (mi^2)	Date	Discharge (ft^3/s)
128.	Unnamed Tributary to Crooked River: Lat 44°02′29″, Long 70°36′34″, at culvert in Edes Falls Rd., at intersection with Fogg Rd. in Harrison, Maine.	.75	08/30/95	0.00
129.	Burgess Brook tributary to Crooked River: Lat 44°00′28″, Long 70°34′11″, downstream of culvert on Jugtown Rd., .6 miles north of Edes Falls, near Naples, Maine.	1.14		
130.	Crooked River tributary to Songo River: USGS station number 01062900 Lat 44°00′06″, Long 70°34′24″, .25 miles upstream of Edes Falls, near Naples, Maine.	130	08/17/95	25.3

Table 2. Location of test borings, observation wells and screened intervals of wells, Presumpscot River Basin study area, Maine

[All wells installed by the USGS, May 1995 to May 1996, unless otherwise noted. Locations shown in figure 2. Altitude of land surface is in feet above sea level. Wells installed by USGS consist of 2-inch inner diameter polyvinylchloride pipe; slot size of well screens equal to .006 or .010 inch; ---- no data available]

Local identifier	Project identifier	USGS identifier	Latitude ° ′ ″	Longitude ° ′ ″	Altitude of land surface	Screened interval (feet below land surface)
CW 1971	ARL-1	435002070255701	43 49 55	70 25 59	299.8	17-22
CW 1972	BR2-A	434945070252801	43 49 38	70 25 30	296.3	72-77
CW 1973	BR2-B	434945070252901	43 49 38	70 25 30	296.4	41.6-46.6
CW 1974	BR2-C	434928070252901	43 49 20	70 25 31	288.5	47-52
CW 1975	WKR-1	434934070244101	43 49 27	70 24 43	273.9	32.5-37.5
CW 1977	CEO-1	434951070241401	43 49 51	70 24 14	----	----
CW 1978	VMR-1	434908070251201	43 49 01	70 25 14	243.0	22-27
CW 1979	CPW-1	435008070253901	43 50 01	70 25 41	309.1	104-109
CW 1980	MTW-1	434919070262601	43 49 12	70 26 28	307.1	31-36
CW 1981	FRB-1	435018070250201	43 50 11	70 25 04	312.9	44-49
CW 1982	CEM-1	434958070261601	43 49 51	70 26 18	297.5	40-45
CW 1983	SAN-1	435039070261101	43 50 02	70 26 12	307.8	32-37
CW 1984	CHA-1	435056070263701	43 50 48	70 26 39	295.1	120-130
CW 1985	CHA-2	435055070263601	43 50 48	70 26 39	295.1	15.5-25.5
CW 1986	TAN-1	434840070252901	43 49 05	70 25 31	256.4	73-83
CW 1987	KEL-1	434910070255601	43 49 03	70 25 58	303.5	101-111
CW 1988	PVW-1	434941070261901	43 49 34	70 26 21	290.6	48-55
CW 1989	MTW-2	434919070262602	43 49 12	70 26 28	307.0	14-19
CW 1990	ARL-2	435002070255601	43 49 55	70 25 58	299.9	60-80
CW 1991	TLR-1	434956070255101	43 49 49	70 25 52	283.3	57-67
CW 1992	BENT-1	435008070262901	43 50 01	70 26 31	305.0	37-42
CW 1993	BENT-2	435008070262902	43 50 01	70 26 31	305.0	22-27
CW 1994	NWW-1	434945070263401	43 49 38	70 26 36	276.7	10-15
CW 1995	DUN-1	435012070265101	43 50 05	70 26 53	307.5	22-32
CW 1996	WAL-2	435014070265401	43 50 07	70 26 55	----	----
CW 1997	WAL-3	435014070265402	43 50 07	70 26 55	300.1	----
CW 1998	WAL-1	435027070264801	43 50 20	70 26 50	312.0	30-35

Table 2. Location of observation wells and screened intervals of wells, Presumpscot River Basin, Maine --Continued

[All wells installed by the USGS, May 1995 to May 1996, unless otherwise noted. Altitude of land surface is in feet above sea level. Wells installed by USGS consist of 2-inch inner diameter polyvinylchloride pipe; slot size of well screens equal to .006 or .010 inch; ---- no data available]

Local identifier	Project identifier	USGS Identifier	Latitude ° ′ ″	Longitude ° ′ ″	Altitude of land surface	Screened interval (feet below land surface)
CW 1999	KEY-1	435026070264101	43 50 19	70 26 43	310.8	78-80
CW 2000	SSW-1	435041070262301	43 50 34	70 26 24	319.7	40-50
CW 2001	MPW-1	435131070261401	43 51 24	70 26 16	309.6	97-127
CW 2002	FHS-1	435045070265701	43 50 45	70 26 57	----	----
CW 2003	UWW-1	434946070252301	43 49 46	70 25 23	316.2	57-62
CW 2004	TCBY-1	434927070255101	43 49 27	70 25 51	315.0	38-58
CW 2005	CPW-2	435008070253902	43 50 08	70 25 39	309.0	38-48
CW 2006	OAK-1	435013070261501	43 50 13	70 26 15	313.1	22-32
CW 2007	CHA-3	435040070264501	43 50 40	70 26 45	301.4	14-24
CW 2008	MPW-2	435131070261402	43 51 31	70 26 14	309.5	17-27
CW 2009	KEY-2	435022070264102	43 50 26	70 26 41	310.8	12-22
CW 2010	MDW-1	435018070263201	43 50 18	70 26 32	310.7	22-32
CW 2011	BRW-1	435014070264901	43 50 14	70 26 49	310.7	17-27
CW 2012	CBW-1	435004070262101	43 50 04	70 26 21	307.6	17-27
CW 2013	YMCA-1	434527070303501	43 45 27	70 30 35	295.0	92-97
CW 2014	YMCA-2	434531070302001	43 45 31	70 30 20	255.0	190-200
CW 2015	YMCA-3	434544070301401	43 45 44	70 30 14	250.0	117-137
CW 2016	[1]SHW-1	435000070263701	43 50 00	70 26 37	303.6	----
CW 2017	[1]B-103	435146070271801	43 51 46	70 27 18	311.5	7.9-12.9
CW 2018	[1]TH-3	435136070270801	43 51 36	70 27 08	325.6	----
CW 2019	[1]TH-4	435136070271201	43 51 36	70 27 12	312.8	8.1-13.1

[1]Wells not installed by U.S. Geological Survey.

Table 3. Streamflow for Stony Brook at East Sebago, Maine, (site 18, USGS station number 01063310) October 1995 to September 1996

LOCATION.--Lat 43°51'22", long 70°38'25", Cumberland County, Hydrologic Unit 01060001, on left bank at upstream side of culvert under State Highways 11 and 114, 0.1 mile upstream from the Northwest River and 0.6 mile upstream from mouth.

DRAINAGE AREA.--1.50 mi^2.

PERIOD OF RECORD.--Discharge: October 1995 to September 1996.

GAGES.--Water-stage recorder and V-notch sharp-crested weir. Datum of gage is 275.35 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair, including periods of ice effect, Jan. 3, 8-13, and Feb. 18-19. Satellite gage-height telemeter at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 19 ft^3/s and maximums (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct. 20	1145	23	5.16	Apr. 17	0045	*63	*6.37
Nov. 8	1515	33	5.51	July 13	2030	22	5.10
Nov. 15	1100	22	5.09				

Minimum discharge, 0.05 ft^3/s, Oct. 1 and 2.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	.35	1.5	.70	3.4	3.9	2.5	3.5	1.4	.37	.43	.08
2	.06	.56	1.5	.69	2.9	3.3	3.8	3.3	1.4	.29	.40	.10
3	.06	.99	1.4	e.69	2.6	2.9	3.9	2.9	1.1	.32	.39	.10
4	.09	.77	1.4	.68	2.2	2.6	3.1	4.5	1.2	.84	.44	.09
5	.08	1.0	1.3	.64	1.9	2.4	2.2	6.0	1.2	.57	.37	.08
6	.56	1.0	1.4	.60	1.8	2.3	2.4	3.1	1.0	.40	.32	.08
7	.31	1.3	1.3	.57	1.6	2.2	2.2	3.0	.89	.32	.25	.08
8	.28	8.8	1.2	e.57	1.7	2.1	1.9	2.8	.87	.36	.23	.09
9	.26	3.6	1.1	e.57	1.9	2.0	2.4	2.2	.96	.45	.22	.10
10	.24	1.0	1.2	e.57	1.9	1.8	5.5	2.7	.94	.73	.19	.10
11	.21	1.3	1.1	e.57	1.7	1.8	1.8	4.1	.96	.46	.17	.09
12	.22	5.5	.98	e.57	1.6	1.8	2.9	13	.78	.34	.15	.09
13	1.1	3.1	.90	e.63	1.4	2.0	2.8	6.7	.68	5.5	.15	.13
14	.40	2.9	.87	.61	1.3	2.2	3.5	4.7	.67	11	.13	.20
15	.38	11	.97	.60	1.3	2.9	3.5	3.9	.59	4.2	.15	.16
16	1.0	7.0	.96	.57	1.2	3.3	14	3.1	.51	2.8	.17	.14
17	.22	5.8	.94	.59	1.2	2.9	34	4.8	.45	1.5	.17	.13
18	.16	4.0	.94	.62	e1.1	2.6	11	3.4	.40	.98	.15	.14
19	.34	3.6	.91	1.9	e1.0	2.6	7.2	3.7	.39	.89	.15	.11
20	5.6	3.2	.96	5.2	.93	5.0	5.3	3.3	.39	.95	.16	.10
21	.47	3.6	.91	4.0	1.6	5.6	4.2	3.0	.50	.72	.15	.09
22	.87	3.5	.86	3.3	6.6	4.5	3.6	2.6	.66	1.4	.15	.10
23	2.8	2.9	.85	2.6	6.6	3.9	5.0	2.4	1.9	.93	.14	.17
24	1.4	2.5	.85	3.0	6.6	3.4	5.7	2.2	.97	.34	.13	.12
25	1.3	2.2	.85	4.9	6.9	3.5	4.3	1.8	1.0	.33	.11	.14
26	.66	2.1	.82	3.6	5.4	4.1	3.7	1.7	.66	.48	.11	.12
27	.48	1.9	.80	5.2	4.5	4.1	6.1	1.6	.52	.71	.11	.11
28	2.8	2.3	.76	12	5.0	3.5	3.5	1.5	.43	.55	.10	.11
29	2.4	1.6	.74	7.7	5.2	3.1	3.7	1.3	.36	.42	.10	.12
30	.83	1.6	.70	5.8	---	2.8	2.5	1.4	.35	.39	.09	.10
31	.42	---	.70	4.5	---	2.6	---	1.4	---	.35	.09	---
TOTAL	26.06	90.97	31.67	74.74	83.03	93.7	158.2	105.6	24.13	39.89	6.07	3.37
MEAN	.84	3.03	1.02	2.41	2.86	3.02	5.27	3.41	.80	1.29	.20	.11
MAX	5.6	11	1.5	12	6.9	5.6	34	13	1.9	11	.44	.20
MIN	.06	.35	.70	.57	.93	1.8	1.8	1.3	.35	.29	.09	.08
CFSM	.56	2.02	.68	1.61	1.91	2.02	3.52	2.27	.54	.86	.13	.07
IN.	.65	2.26	.79	1.85	2.06	2.32	3.92	2.62	.60	.99	.15	.08

e Estimated

Table 4. Streamflow for Crooked River near Naples, Maine, (site 34a, USGS station number 01063100) October 1995 to September 1996

LOCATION.--Lat 43°55'44", long 70°33'50", Cumberland County, Hydrologic Unit 01060001, on right bank at downstream side of bridge on State Highway 11.

DRAINAGE AREA.--150 mi^2.

PERIOD OF RECORD.--May 1975 to September 1977 (seasonal records only), October 1995 to September 1996.

GAGE.--Water-stage recorder. Datum of gage is 258.31 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good, except for periods of ice effect, Dec. 1 to Jan. 19, Feb. 5-21, and Mar. 7-13, and periods of no gage-height record, Oct. 1-2 and 12-16, which are fair. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,800 ft^3/s, Apr. 18, 1996, gage height, 12.60 ft; minimum discharge, 22 ft^3/s, Oct. 3, 1995, gage height, 0.64 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft^3/s and maximums (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 16	0315	1,300	7.25	Feb. 26	0330	1,940	9.63
Jan. 28	1930	1,720	8.83	Apr. 18	1630	*2,800	*12.60

Minimum discharge, 22 ft^3/s, Oct. 3, gage height, 0.64 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e27	506	e251	e120	1220	980	441	735	218	119	212	64
2	e25	379	e221	e119	969	811	502	752	202	114	194	62
3	25	428	e200	e118	814	715	606	739	183	110	183	60
4	27	468	e189	e117	701	635	587	708	174	169	169	58
5	29	427	e208	e116	e611	565	535	691	173	212	154	56
6	55	360	e195	e115	e558	518	489	643	191	227	143	54
7	72	305	e160	e115	e521	e466	466	560	183	219	132	51
8	72	404	e154	e115	e499	e446	449	491	167	186	123	50
9	67	469	e151	e115	e490	e427	434	427	197	153	115	52
10	65	403	e148	e114	e483	e404	456	397	277	135	108	51
11	60	335	e145	e114	e460	e377	463	430	303	118	102	51
12	e52	416	e142	e114	e437	e361	520	905	341	108	96	50
13	e45	716	e140	e114	e410	e346	572	1030	314	139	93	53
14	e43	791	e139	e113	e393	339	587	905	264	797	89	60
15	e49	1030	e137	e113	e386	363	624	763	220	873	85	63
16	e52	1270	e136	e113	e375	433	752	625	183	881	82	70
17	49	1170	e135	e113	e366	470	2290	555	159	845	79	90
18	46	1010	e134	e113	e359	454	2700	498	142	740	76	111
19	48	793	e133	e150	e352	432	2400	519	132	619	73	104
20	50	641	e135	564	e344	484	1710	549	119	547	71	91
21	52	570	e138	876	e375	611	1290	514	113	730	70	80
22	140	547	e139	980	655	654	1080	465	116	709	68	72
23	240	507	e138	933	1110	630	1000	416	154	571	66	67
24	251	454	e136	866	1490	563	1130	366	196	425	65	62
25	214	402	e134	989	1840	515	1200	322	215	333	63	60
26	156	360	e132	1010	1910	529	1170	290	222	288	62	59
27	125	329	e130	1020	1710	606	1000	262	196	304	63	55
28	212	314	e128	1580	1420	587	844	232	164	344	70	53
29	746	304	e126	1620	1160	530	755	216	140	319	76	54
30	793	286	e124	1620	---	480	725	225	124	273	72	54
31	729	---	e122	1510	---	449	---	230	---	233	67	---
TOTAL	4616	16394	4700	15789	22418	16180	27777	16460	5782	11840	3121	1917
MEAN	149	546	152	509	773	522	926	531	193	382	101	63.9
MAX	793	1270	251	1620	1910	980	2700	1030	341	881	212	111
MIN	25	286	122	113	344	339	434	216	113	108	62	50
CFSM	.99	3.64	1.01	3.40	5.15	3.48	6.17	3.54	1.28	2.55	.67	.43
IN.	1.14	4.07	1.17	3.92	5.56	4.01	6.89	4.08	1.43	2.94	.77	.48

e Estimated

Table 5. Water-surface elevations for lakes, ponds and streams, Town of Windham, Maine, April 1995 to September 1996
[--, water level not measured]

Site number and stream or pond name	Water-level, in feet above sea-level												
	7/11 1995	9/19 1995	10/05 1995	10/17 & 10/19 1995	11/22 & 11/24 1995	1/17-1/18 1996	2/22-2/23 1996	4/3-4//4 1996	5/6-5/7 1996	6/5-6/6 1996	7/09-7/10 1996	7/31-8/1 1996	9/5-9/6 1996
47 Hyde Brook	268.66	--	--	268.72	269.17	--	269.91	269.14	269.07	269.57	269.01	268.92	268.82
48 Outlet Brook	274.82	--	--	275.26	275.23	275.18	275.27	275.07	275.02	274.97	274.86	274.86	274.71
49 Pettingill Outlet	297.56	--	--	--	--	297.78	298.10	298.34	297.98	297.84	297.70	297.76	--
Chaffin Pond	290.61	--	--	--	290.83	--	--	291.66	291.74	291.15	--	290.74	--
Pettingill Pond	298.16	297.43	297.24	297.25	298.12	--	--	298.97	298.87	298.54	298.20	298.20	297.73
50 Sandbar Rd.	290.56	--	--	290.62	290.70	290.59	290.75	290.74	290.78	290.75	290.69	290.67	290.63
51 Sandbar Rd.	285.90	--	--	285.25	285.52	285.44	285.75	285.68	286.38	286.54	286.47	286.46	286.09
Little Sebago Lake	285.89	285.51	285.49	285.19	284.92	--	--	--	286.04	286.15	286.13	286.11	285.76
Mill Pond	279.93	279.05	279.06	282.77	282.52	281.87	282.28	282.29	281.06	282.20	281.72	281.48	279.42
52 Ditch Brook	274.28	--	--	275.87	275.67	275.01	275.49	275.50	274.42	275.40	274.92	274.64	274.50
53 Ditch Brook	267.49	--	--	268.12	268.12	267.74	268.02	267.97	267.60	267.92	267.77	267.63	267.60
Collins Pond	270.24	270.22	270.20	270.89	270.65	--	--	270.27	269.76	270.17	270.50	270.26	270.33
54 Presumpscot R.	240.11	--	--	240.10	239.68	--	--	240.17	241.80	240.11	239.94	241.42	240.16
57 Pleasant River	173.68	--	--	174.36	174.51	174.01	175.33	174.44	174.13	174.26	173.90	173.85	173.71
58 Ditch Brook	173.79	--	--	175.09	174.58	174.48	175.74	174.77	174.32	174.64	174.09	173.99	173.83
59 Pleasant River	178.44	--	--	178.70	179.76	--	--	179.74	179.56	179.23	178.74	178.75	178.44
61 Pleasant River	198.01	--	--	198.23	198.64	--	--	198.98	198.82	198.47	198.16	198.15	--
64 Otter Brook	191.23	--	--	190.91	191.23	--	192.59	190.94	190.99	191.13	190.99	191.12	191.03

Table 6. Lithologic logs of observation wells and test borings, Presumpscot River Basin study area, Maine

[Description of the sediment is in terms of grain-size diameter, in millimeters (mm): gravel, greater than 2.0 mm; very coarse sand, 1.0-2.0 mm; coarse sand, 0.5 -10 mm; medium sand, 0.25-0.5 mm; fine sand, 0.125-0.25 mm; very fine sand, 0.062-0.125 mm; silt, 0.004-0.062 mm; clay, less than 0.004 mm. [fill is foreign material, usually transported to an area. Refusal occurs when either bedrock, compact sediments, or sediments containing large cobbles are encountered. Depth below land surface: All depths are in feet below land surface]

Description of material	Depth From	To
CW1971 (ARL-1)		
Loam	0	2
Sand, fine silty	2	5
Sand, coarse to very coarse; pebbles	5	10
Sand, fine to medium; occasional granules	10	12
Sand, fine to medium	12	42
No sample	42	47
Sand, fine with varying amounts silt and clay	47	69
No sample	69	77
Sand, fine to coarse, silty; occasional pebbles	77	79
Till, with bedrock fragments	79	83
Refusal		83
CW1972 (BR2-A)		
Gravel, dirty	0	2
Sand, medium to coarse; some gravel	2	79
Till	79	84
Refusal		84
CW1973 (BR2-B)		
No sample	0	47
End of boring		47
CW1974 (BR2-C)		
Sand, medium	0	2
Sand, medium to coarse	2	7
Sand, fine to medium	7	12
Sand, fine to medium; occasional pebble	12	17
Sand, fine to medium	17	22
Sand, fine	22	37
Sand, medium; pebble	37	39
No sample	39	47
Sand, medium to very coarse; broken rock fragments	47	49
No sample	49	57
Sand, fine to coarse; broken rock fragments	57	59
No sample	59	67
Sand, fine to coarse	67	69
No sample	69	77
Sand, fine; pebbles near 79 feet	77	79
No sample	79	87
Sand, fine to coarse	87	89
No sample	89	97
Sand, fine to coarse; granules	97	99
No sample	99	106
Refusal		106
CW1975 (WKR-1)		
Sand, medium to fine	0	7
Clay	7	29
No sample; till began at 35 feet	29	37
Till	37	39
No sample	39	47.5
Refusal		47.5
CW1977 (CEO-1)		
Till, silty-fine sand cobbly	0	7
Refusal		7
CW1978 (VMR-1)		
Sand; silt; clay	0	6
No sample	6	22
Sand, fine to medium	22	24
No sample	24	27
Sand, fine to medium; broken rock	27	29
Refusal		29
CW1979 (CPW-1)		
Fill	0	2
No sample	2	37
Sand, fine to medium	37	59
No sample	59	97
Sand, very fine to fine	97	99
No sample	99	109
Refusal		109
CW1980 (MTW-1)		
Sand, fine to medium	0	19
No sample (hard layer between 27 and 29 feet)	19	29
Clay, on augers about		30
No sample	30	36
Refusal		36

Table 6. Lithologic logs of observation wells and test borings, Presumpscot River Basin study area, Maine, Continued

Description of material	Depth From	To
CW1981 (FRB-1)		
Loam	0	1
Sand, medium to coarse; some cobbles/stones	1	27
No sample	27	37
Sand, fine to medium	37	39
No sample	39	57
Till	57	59
Refusal		59
CW1982 (CEM-1)		
Sand, medium (probably fill)	0	2
Sand, fine to medium	2	7
Sand, fine to coarse (silty)	7	9
No sample	9	27
Clay, silty	27	29
No sample, drilling change at 35 feet	29	47
Sand, fine to medium (with rock fragments)	47	49
No sample	49	55
Refusal		55
CW1983 (SAN-1)		
Sand, fine to medium	0	2
Sand, fine to medium (some layering)	2	12
Sand, medium to coarse; with cobbles at 15 feet	12	17
Sand, medium to coarse; without cobbles	17	22
Sand, coarse; with cobbles	22	29
No sample	29	37
Sand, coarse; with rock fragments	37	39
Refusal		39
CW1984 (CHA-1)		
No sample	0	12
Sand, coarse	12	27
No sample	27	130
Sand, fine to medium	130	132
End boring		132
CW1985 (CHA-2		
No sample	0	25.5
End of boring		25.5

Description of material	Depth From	To
CW1986 (TAN-1)		
Sand, medium	0	12
Sand, medium to fine	12	17
Sand, fine to medium	17	19
No sample	19	37
Sand, coarse to fine; pebbles	37	39
No sample	39	57
Sand, medium to fine	57	59
No sample	59	83.5
Refusal		83.5
CW1987 (KEL-1)		
Sand, coarse to fine; some stones	0	27
Sand, medium to coarse; rock fragments	27	29
No sample	29	47
Sand, medium to coarse; rock fragments	47	49
No sample	49	67
Sand, coarse to fine; some pebbles	67	69
No sample; boney materials at 92 feet	69	107
Sand, coarse to fine	107	109
Sand, fine; till	109	112
Refusal		112
CW1988 (PVM-1)		
Loam; sand, fine to medium; stones	0	2
Sand, fine to medium; stones	2	7
Sand, silty; clay lumps	7	12
Clay	12	19
No sample	19	37
Clay; silt; till (end of spoon)	37	39
Till	39	55
Refusal		55
CW1989 (MTW-2)		
Sand, fine to coarse	0	2
Sand, medium to fine	2	17
Sand, fine to medium; clay at 20 feet	17	22
No sample	22	25
End boring		25
CW1990 (ARL-2)		
No sample (see CW1971)	0	82
End boring		82

Table 6. Lithologic logs of observation wells and test borings, Presumpscot River Basin study area, Maine, Continued

Description of material	Depth From	To
CW1991 (TLR-1)		
Sand, medium to coarse	0	2
Sand, coarse to fine; stones	2	7
Sand, coarse to fine; pebbles	7	12
Sand, fine to coarse; pebbles and stones	12	39
No sample	39	47
Sand, medium; pebbles	47	49
No sample; drilling change at 60 feet possibly till	49	67
Refusal		67
CW1992 (BENT-1)		
Sand, medium to coarse (thin-layer loam at surface)	0	17
No sample	17	27
Sand, coarse to medium	27	28.4
Clay	28.4	29
No sample (drilling change at 37 ft. possibly till)	29	42
Sand, coarse to fine; interbedded with till	42	44
No sample	44	54
Refusal		54
CW1993 (BENT-2)		
No sample	0	27
End of boring		27
CW1994 (NWW-1)		
Till; interbedded fine to coarse sand, silt, stones	0	17
Till; clay to silt; sand, fine	17	20
Refusal		20
CW1995 (DUN-1)		
Sand, fine to medium; thin layer of loam at surface	0	27
Sand, fine to medium	27	29
No sample (drilling change at 45 feet)	29	47
Till, sandy	47	49
No sample	49	52
Refusal		52
CW1996 (WAL-2)		
Till, sandy (fine to medium); clay	0	15
Refusal		15
CW1997 (WAL-3)		
No sample, (see CW1996)	0	14
End of boring		14
CW1998 (WAL-1)		
Sand, medium to fine	0	17
Sand, fine; silt and clay	17	19
No sample	19	27
Clay and silt	27	29
No sample	29	32
Sand, medium; rock and broken rock pieces	32	35
Refusal		35
CW1999 (KEY-1)		
Sand, coarse to fine	0	50
No sample	50	57
Clay; sand, fine (interbedded)	57	59
No sample (drilling harder about 77 feet possibly till?)	59	80
Refusal		80
CW2000 (SSW-1)		
Sand, medium to fine; (thin layer of loam)	0	2
Sand, coarse to fine; with small pebbles	2	47
Sand, medium to fine	47	49
No sample (drilling change at 55 feet)	49	57
Till, sandy	57	70
Refusal		70
CW2001 (MPW-1)		
Sand, medium to coarse; some stones	0	27
Sand, coarse to fine	27	57
No sample (probably fine sand)	57	59
Sand, fine	59	97
Sand, fine to coarse (appears layered)	97	99
No sample	99	118
No sample (drilling change, clay at 118 feet)	118	125
No sample (drilling change, till at 125 feet)	125	127
Refusal		127
CW2002 (FHS-1)		
Loam	0	2
Sand, medium to fine; stones	2	7
Sand, fine to medium; stones	7	9
Refusal		9

Table 6. Lithologic logs of observation wells and test borings, Presumpscot River Basin study area, Maine, Continued

Description of material	Depth From	To
CW2003 (UWW-1)		
Sand, medium to coarse, some stones and occasionally cobbles	0	39
No sample (drilling change, bony at 59 ft.)	39	67
Refusal		67
CW2004 (TCBY-1)		
Sand, medium to coarse; some pebbles and stones	0	32
Sand, fine to coarse	32	34
Sand, coarse to fine	34	59
End of boring		59
CW2005 (CPW-2)		
No sample	0	47
Sand, fine to coarse	47	49
End of boring		49
CW2006 (OAK-1)		
Sand, medium to coarse; bony stones and cobbles	0	25
Sand, medium to coarse	25	29
No sample	29	32
End of boring		32
CW2007 (CHA-3)		
Fill	0	4
Sand, fine	4	22
Sand, fine with some medium	22	24
End of boring		24
CW2008 (MPW-2)		
No sample	0	27
Sand, fine to coarse	27	29
End of boring		29
CW2009 (KEY-2)		
No sample	0	22
Sand, fine	22	24
End of boring		24
CW2010 (MDW-1)		
Sand, medium to coarse	0	32
Sand, medium to coarse	32	34
End of boring		34

Description of material	Depth From	To
CW2011 (BRW-1)		
Sand, fine with some medium	0	20
No sample	20	27
Sand, fine; silt	27	29
End of boring		29
CW2012 (CBW-1)		
Sand, medium to fine	0	17
Sand, very fine	17	19
No sample (drilling change bony at 21 feet)	19	27
Till; broken rock fragments	27	29
End of boring		29
CW2013 (YMCA-1)		
Sand, coarse to fine; loam 0-0.5 feet some pebbles and gravel	0	27
Sand, medium to coarse	27	29
No sample	29	47
Sand, fine to very fine	47	49
No sample	49	67
Sand, very fine to fine some interbedded medium sand	67	69
No sample	69	97
Sand, medium to fine, some coarse	97	99
End of boring		100
CW2014 (YMCA-2)		
Sand, medium to coarse	0	17
Sand, medium to coarse; some stones	17	19
No sample	19	37
Sand, medium to coarse; (hard-coarse layer)	37	39
No sample	39	57
Sand, medium to coarse; some stones	57	59
No sample	59	77
Sand, medium to coarse	77	79
No sample	79	97
Sand, very coarse to fine	97	99
No sample	99	117
Sand, fine to medium; some pebbles (layered)	117	119
No sample	119	147
Sand, fine	147	149
No sample	149	200
End of boring		200

Table 6. Lithologic logs of observation wells and test borings, Presumpscot River Basin study area, Maine, Continued

Description of material	Depth From	To
CW2015 (YMCA-3)		
Sand, medium to coarse; with stones and pebbles	0	17
Sand, medium to coarse	17	19
No sample	19	37
Sand, coarse to fine; pebbles	37	39
No sample	39	57
Sand, medium to coarse; pebbles and stones	57	59
No sample	59	77
Sand, medium to coarse; pebbles and stones	77	79
No sample	79	97
Sand, medium to coarse; pebbles and stones	97	99
No sample; till layer about 145 feet	99	147
Sand, fine to medium; interbedded till layer begins at 148 feet	147	149
No sample; drilling hard/easy last 10 feet	149	157
End of boring		157

Table 7. Grain-size distribution and sorting of aquifer material in test borings and observation wells, Presumpscot River Basin study area, Maine

Local identifier	Depth of interval sampled (feet)	Sample description	Phi (diameter)[1] 90	75	50	Degree of sorting[2]
CW1971						
	12-17	Sand, fine to medium	3.20	2.42	1.90	Well
	17-19	Sand, fine to medium	3.19	2.43	1.83	Moderate
	22-24	Sand, fine to medium	3.68	3.11	2.40	Well
	27-29	Sand, fine to medium	4.17	3.46	2.89	Well
	77-79	Sand, fine to coarse; occasional pebbles	4.20	3.74	2.90	Moderate
CW1972						
	37-39	Sand, medium to coarse; some gravel	3.25	2.47	1.83	Moderate
	47-49	Sand, medium to coarse; some gravel	3.74	3.00	1.94	Moderate
	57-59	Sand, medium to coarse; some gravel	2.88	2.16	1.42	Moderate
	67-69	Sand, medium to coarse; some gravel	3.33	2.73	2.04	Well
	77-79	Sand, medium to coarse; some gravel	3.57	2.78	2.07	Well
CW1974						
	37-39	Sand, medium; pebble	3.00	2.21	1.48	Moderate

Table 7. Grain-size distribution and sorting of aquifer material in test borings and observation wells, Presumpscot River Basin study area, Maine--Continued

Local identifier	Depth of interval sampled (feet)	Sample description	Phi (diameter)[1] 90	75	50	Degree of sorting[2]
CW1974						
	47-49	Sand, medium to very coarse; broken rock fragments	2.98	1.87	0.76	Moderate
	57-59	Sand, fine to coarse; broken rock fragments	3.27	2.16	1.10	Moderate
	67-69	Sand, fine to coarse	3.20	2.29	1.39	Moderate
	77-79	Sand, fine; pebbles	3.04	2.05	1.05	Moderate
	87-89	Sand, fine to coarse	3.44	2.73	1.90	Moderate
	97-99	Sand, fine to coarse; granules	3.44	2.78	2.02	Moderate
CW1975						
	37-39	Till	4.14	3.15	1.42	Poor
CW1978						
	22-24	Sand, fine to medium	4.21	3.80	3.12	Well
	27-29	Sand, fine to medium, broken rock	4.00	3.18	1.88	Poor
CW1979						
	37-39	Sand, fine to medium	3.88	3.26	2.47	Well
	57-59	Sand, fine to medium	4.17	3.62	3.04	Well
	97-99	Sand, fine to very fine	3.91	3.32	2.63	Well
CW1980						
	17-19	Sand, fine to medium	4.36	4.14	3.43	Well

Table 7. Grain-size distribution and sorting of aquifer material in test borings and observation wells, Presumpscot River Basin study area, Maine--Continued

Local identifier	Depth of interval sampled (feet)	Sample description	Phi (diameter)[1] 90	75	50	Degree of sorting[2]
CW1981						
	37-39	Sand, fine to medium	4.10	3.42	2.85	Well
	57-59	Till	4.19	3.57	2.65	Poor
CW1982						
	7-9	Sand, fine to coarse; silty	4.32	4.04	3.38	Well
	47-49	Sand, fine to medium with rock fragments	4.13	3.34	2.09	Poor
CW1983						
	27-29	Sand, coarse with cobbles	4.08	2.75	0.88	Poor
	37-39	Sand, coarse with rock fragments	4.03	2.48	0.96	Poor
CW1984						
	130-132	Sand, fine to medium	3.97	3.25	2.43	Well
CW1986						
	17-19	Sand, fine to medium	1.34	0.80	0.18	Well
	37-39	Sand, coarse to fine; pebbles	3.22	2.33	1.46	Moderate
	57-59	Sand, medium to fine	3.24	2.30	1.63	Well
CW1987						
	67-69	Sand, coarse to fine; some pebbles	1.83	1.18	0.50	Moderate
	107-109	Sand, coarse to fine	3.90	2.86	1.06	Poor

Table 7. Grain-size distribution and sorting of aquifer material in test borings and observation wells, Presumpscot River Basin study area, Maine--Continued

Local identifier	Depth of interval sampled (feet)	Sample description	Phi (diameter)[1] 90	75	50	Degree of sorting[2]
CW1988						
	37-39	Clay; silt; till	4.32	4.05	3.44	Moderate
CW1991						
	17-19	Sand, fine to coarse; pebbles and stones	1.88	0.93	-.04	Moderate
	37-39	Sand, fine to coarse; pebbles and stones	4.07	2.45	0.92	Poor
	47-49	Sand, medium; pebbles	3.16	1.67	0.52	Poor
CW1992						
	42-44	Sand, coarse to fine; interbedded with till	4.04	2.35	1.02	Poor
CW1994						
	17-19	Till; clay to silt; sand, fine	4.33	4.08	2.82	Poor
CW1995						
	27-29	Sand, fine to medium	3.16	2.44	2.08	Well
	47-49	Till, sandy	4.11	2.80	1.02	Poor
CW1998						
	32-34	Sand, medium; rock and broken rock pieces	4.07	2.88	1.45	Poor

Table 7. Grain-size distribution and sorting of aquifer material in test borings and observation wells, Presumpscot River Basin study area, Maine--Continued

Local identifier	Depth of interval sampled (feet)	Sample description	Phi (diameter)[1] 90	75	50	Degree of sorting[2]
CW2000						
	47-49	Sand, medium to fine	4.18	3.70	2.99	Well
	57-59	Till, sandy	4.15	3.07	1.21	Poor
CW2001						
	27-29	Sand, coarse to fine	3.26	2.39	1.58	Moderate
	67-69	Sand, fine	3.58	2.62	2.03	Well
	97-99	Sand, fine to coarse (appears layered)	2.20	1.51	0.98	Well
CW2004						
	32-34	Sand, fine to coarse	2.73	1.67	0.99	Moderate
	37-39	Sand, coarse to fine	3.43	2.78	2.01	Well
	57-59	Sand, coarse to fine	3.27	2.41	1.64	Moderate
CW2005						
	47-49	Sand, fine to coarse	3.26	2.46	1.83	Moderate
CW2006						
	27-29	Sand, medium to coarse	3.14	2.28	1.52	Moderate
CW2007						
	22-24	Sand, fine with some medium	4.36	4.14	3.61	Well

Table 7. Grain-size distribution and sorting of aquifer material in test borings and observation wells, Presumpscot River Basin study area, Maine--Continued

CW2008						
	27-29	Sand, fine to coarse	2.92	2.13	1.27	Moderate
CW2009						
	22-24	Sand, fine	4.13	3.49	3.10	Well
CW2010						
	32-34	Sand, medium to coarse	2.44	1.44	0.38	Moderate
CW2012						
	27-29	Till; broken rock fragments	4.19	3.22	0.27	Poor
CW2013						
	27-29	Sand, medium to coarse	2.79	2.08	1.34	Well
	47-49	Sand, fine to very fine	4.31	4.02	3.49	Well
	67-69	Sand, very fine to fine; some interbedded medium sand	4.35	4.12	3.66	Well
	97-99	Sand, medium to fine, some coarse	4.18	3.75	3.15	Well
CW2014						
	17-19	Sand, medium to coarse; some-stones	2.49	1.46	0.71	Moderate
	37-39	Sand, medium to coarse	2.42	1.72	1.04	Well
	57-59	Sand, medium to coarse; some-stones	3.29	2.32	1.48	Moderate
	77-79	Sand, medium to coarse	3.68	2.49	1.42	Moderate

Table 7. Grain-size distribution and sorting of aquifer material in test borings and observation wells, Presumpscot River Basin study area, Maine--Continued

Local identifier	Depth of interval sampled (feet)	Sample description	Phi (diameter)[1] 90	75	50	Degree of sorting[2]
CW2014						
	97-99	Sand, very coarse to fine	3.55	3.04	2.31	Well
	117-119	Sand, fine to medium; some pebbles (layered)	3.81	3.18	2.36	Well
	147-149	Sand, fine	4.16	3.68	3.18	Well
CW2015						
	17-19	Sand, medium to coarse	3.09	2.08	1.12	Moderate
	37-39	Sand, coarse to fine; pebbles	2.96	2.12	1.22	Moderate
	57-59	Sand, medium to coarse; pebbles and stones	1.36	0.96	0.18	Moderate
	77-79	Sand, medium to coarse; pebbles and stones	2.30	1.47	0.78	Well
	97-99	Sand, medium to coarse; pebbles and stones	2.90	2.01	1.16	Well
	147-149	Sand, fine to medium; till	4.18	3.43	2.38	Poor

[1] Phi is the negative log (base 2) of the particle diameter in millimeters.

[2] The degree of sorting was based on the standard deviation of the median grain size of phi groups, of each individual sample (Olney, 1983).

Table 8. Water levels in observation wells in the Presumpscot River Basin study area, Maine.

[----, well not installed or water level not measured]

Local identifier	Project identifier	Water level, in feet above sea-level													
		8/15-8/16 1995	9/1 1995	9/19 1995	10/5 1995	10/17& 10/19 1995	11/22 1995	1/17-1/18 1996	2/22-2/23 1996	4/3 1996	5/6-5/7 1996	6/5-6/6 1996	7/9-7/10 1996	7/31-8/1 1996	9/5-9/6 1996
CW 1971	ARL-1	284.75	284.29	283.86	283.57	283.48	284.89	284.31	285.93	286.44	287.78	287.69	286.64	286.93	285.64
CW 1972	BR2-A	267.39	267.20	267.13	267.05	267.32	268.12	267.29	268.21	268.12	268.33	268.29	267.99	267.96	267.57
CW 1973	BR2-B	267.34	267.18	267.12	267.05	267.30	268.09	267.25	268.15	268.08	268.29	268.25	267.96	267.92	267.53
CW 1974	BR2-C	256.76	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
CW 1975	WKR-1	247.85	249.33	248.90	248.93	249.35	252.19	250.84	251.57	252.13	252.36	251.40	250.85	251.03	249.68
CW 1978	VMR-1	232.43	232.19	232.09	232.16	232.89	234.41	232.49	234.42	234.49	234.32	233.98	233.37	233.53	232.41
CW 1979	CPW-1	271.11	271.04	270.99	270.98	271.44	271.84	270.71	271.40	271.48	271.37	271.53	271.54	271.46	271.23
CW 1980	MTW-1	290.27	289.84	289.47	289.27	289.25	290.39	290.07	291.18	291.74	292.92	292.76	291.95	292.04	290.96
CW 1981	FRB-1	285.82	285.65	285.53	285.44	285.44	286.21	286.68	287.69	288.61	290.14	290.49	290.04	290.17	289.70
CW 1982	CEM-1	280.71	280.43	280.16	280.07	280.19	281.25	280.88	281.57	281.94	282.56	282.05	281.29	281.27	280.46
CW 1983	SAN-1	291.12	290.85	290.40	290.27	290.42	292.06	291.07	292.00	292.07	292.70	292.24	291.34	291.53	290.66
CW 1984	CHA-1	289.67	289.19	288.85	-----	288.79	290.56	290.47	291.06	291.28	291.39	290.70	290.00	290.24	288.79
CW 1985	CHA-2	289.90	289.19	288.83	-----	288.98	290.73	290.69	291.26	291.55	291.65	290.97	290.18	290.43	288.75
CW 1986	TAN-1	243.37	243.48	243.40	243.31	243.94	244.95	243.85	244.77	244.67	244.62	244.70	244.09	244.20	243.69
CW 1987	KEL-1	244.13	243.96	243.83	243.72	243.74	244.72	244.61	245.11	245.42	245.82	245.78	245.17	245.14	244.57
CW 1988	PVW-1	287.38	287.01	286.80	286.69	286.70	287.65	287.21	288.11	288.62	289.70	289.66	288.90	288.65	287.70
CW 1989	MTW-2	292.93	292.52	292.17	291.87	291.75	292.89	292.53	293.64	294.28	295.61	295.73	294.84	294.91	293.84
CW 1990	ARL-2	-----	272.71	272.59	272.49	272.36	273.27	272.59	273.42	273.71	274.29	274.13	273.65	273.70	273.15
CW 1991	TLR-1	270.80	270.62	270.58	270.49	270.28	271.12	270.36	271.18	271.37	271.78	271.52	271.28	271.31	270.89

Table 8. Water levels in observation wells in the Presumpscot River Basin study area, Maine--Continued

[----, well not installed or water level not measured]

Local identifier	Project identifier	Water level, in feet above sea-level													
		8/15-8/16 1995	9/1 1995	9/19 1995	10/5 1995	10/17& 10/19 1995	11/22 1995	1/17-1/18 1996	2/22-2/23 1996	4/3 1996	5/6-5/7 1996	6/5-6/6 1996	7/9-7/10 1996	7/31-8/1 1996	9/5-9/6 1996
CW 1992	BENT1	292.35	291.81	291.59	291.37	291.55	293.79	292.13	293.27	293.75	294.43	293.91	293.03	293.14	292.11
CW 1993	BENT2	295.25	294.88	294.57	294.41	294.47	296.05	295.04	296.06	296.58	297.26	296.93	296.03	296.21	295.17
CW 1994	NWW1	274.44	273.46	272.71	273.14	275.08	276.81	276.07	-----	276.64	276.56	276.11	275.60	275.46	273.29
CW 1995	DUN-1	293.20	292.80	292.55	292.36	292.25	293.47	293.35	294.47	295.00	295.96	295.48	294.47	294.53	293.61
CW 1998	WAL-1	294.71	293.28	292.68	292.09	292.45	304.43	295.05	301.64	304.24	305.81	301.17	295.05	296.42	293.07
CW 1999	KEY-1	288.81	288.13	287.82	287.55	287.70	292.47	288.82	290.93	292.10	293.02	291.42	289.17	289.77	288.21
CW 2000	SSW-1	291.78	292.22	291.34	291.23	291.30	292.32	291.85	292.50	292.79	293.36	292.90	292.13	292.14	291.51
CW 2001	MPW-1	294.56	294.32	294.00	293.82	293.53	295.03	294.66	295.50	295.77	296.05	295.58	294.82	294.88	294.03
CW 2003	UWW1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	271.44	271.23	271.25	270.94
CW 2004	TCBY1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	265.95	265.31	265.39	264.84
CW 2005	CPW-2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	274.38	273.83	273.98	273.42
CW 2006	OAK-1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	295.83	295.21	295.29	294.62
CW 2007	CHA-3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	292.71	292.00	292.10	291.48
CW 2008	MPW-2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	296.10	295.65	295.55	295.22
CW 2009	KEY-2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	299.17	298.32	298.35	296.85
CW 2010	MDW1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	295.90	295.38	295.51	294.74
CW 2011	BRW-1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	298.96	298.07	298.38	297.06
CW 2012	CBW-1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	294.07	293.10	293.07	292.19
CW 2013	YMCA-1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	55.51[a]	55.27[a]	56.00[a]

Table 8. Water levels in observation wells in the Presumpscot River Basin study area, Maine--Continued

[----, well not installed or water level not measured]

Local identifier	Project identifier	Water level, in feet above sea-level													
		8/15-8/16 1995	9/1 1995	9/19 1995	10/5 1995	10/17& 10/19 1995	11/22 1995	1/17-1/18 1996	2/22-2/23 1996	4/3 1996	5/6-5/7 1996	6/5-6/6 1996	7/9-7/10 1996	7/31-8/1 1996	9/5-9/6 1996
CW 2014	YMCA-2	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	17.52[a]	17.12[a]	17.87[a]
CW 2015	YMCA-3	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	13.53[a]	13.02[a]	13.89[a]
CW 2016	SHW-1	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	299.58	296.94	297.87	294.94
CW 2017	B-103	302.87	302.53	301.43	301.98	302.23	305.65	304.14	306.08	306.31	306.43	305.83	303.96	304.22	302.84
CW 2018	TH-3	307.93	306.05	305.11	304.55	304.75	310.01	308.03	309.82	310.11	310.18	309.59	307.85	308.10	306.27
CW 2019	TH-4	306.67	305.78	304.82	304.25	304.46	309.70	307.76	309.78	309.82	309.93	309.33	307.54	307.81	305.99

a. Tape-down reading from measuring point on top edge of casing to water surface.

Table 9. Water levels for recording observation well CW1980 in the Presumpscot River Basin study area, Maine

[USGS identifier - 434919070262601; ---, no data or not computed]

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	14.81	13.52	13.88	13.18	12.73	12.41	11.00	10.88	11.62	11.77	12.71
2	---	14.79	13.52	13.90	13.14	12.72	12.39	10.99	10.91	11.65	11.80	12.74
3	---	14.76	13.51	13.91	13.10	12.70	12.38	11.00	10.92	11.67	11.84	12.77
4	---	14.74	13.51	13.93	13.08	12.71	12.37	11.02	10.93	11.69	11.87	12.80
5	---	14.73	13.52	13.95	13.07	12.69	12.37	11.01	10.96	11.73	11.91	12.82
6	---	14.70	13.50	13.97	13.05	12.68	12.37	11.03	10.98	11.76	11.94	12.85
7	---	14.67	13.51	13.99	13.04	12.68	12.37	11.04	11.00	11.78	11.97	12.88
8	---	14.65	13.53	14.00	13.02	12.66	12.36	11.04	11.03	11.80	11.99	12.91
9	---	14.63	13.53	14.02	12.99	12.69	12.35	11.07	11.07	11.82	12.01	12.93
10	---	14.61	13.53	14.04	12.99	12.73	12.36	11.04	11.08	11.86	12.04	12.96
11	---	14.59	13.54	14.06	12.97	12.72	12.33	11.02	11.10	11.90	12.08	12.99
12	---	14.55	13.57	14.07	12.98	12.70	12.34	11.00	11.13	11.92	12.11	13.01
13	---	14.52	13.60	14.08	12.98	12.71	12.35	11.01	11.15	11.92	12.14	13.03
14	---	14.48	13.61	14.10	12.99	12.70	12.37	10.97	11.18	11.77	12.17	13.05
15	---	14.44	13.62	14.12	13.00	12.70	12.36	10.93	11.21	11.56	12.20	13.08
16	---	14.38	13.64	14.15	13.01	12.72	12.37	10.88	11.25	11.44	12.23	13.10
17	---	14.27	13.65	14.14	13.00	12.72	12.33	10.84	11.27	11.38	12.25	13.12
18	14.91	14.14	13.66	14.14	13.04	12.72	12.23	10.81	11.30	11.36	12.28	13.14
19	14.91	14.01	13.67	14.13	13.08	12.72	11.95	10.78	11.33	11.34	12.32	13.16
20	14.91	13.92	13.68	14.09	13.09	12.69	11.65	10.75	11.34	11.36	12.35	13.18
21	14.91	13.84	13.68	13.99	13.07	12.66	11.43	10.73	11.37	11.41	12.37	13.21
22	14.92	13.77	13.70	13.92	13.02	12.63	11.29	10.74	11.40	11.45	12.40	13.23
23	14.92	13.71	13.72	13.87	12.92	12.61	11.21	10.75	11.42	11.48	12.43	13.25
24	14.91	13.68	13.74	13.83	12.85	12.59	11.13	10.75	11.45	11.52	12.46	13.27
25	14.91	13.65	13.75	13.81	12.81	12.56	11.08	10.76	11.47	11.55	12.49	13.29
26	14.89	13.62	13.76	13.76	12.79	12.53	11.06	10.76	11.50	11.58	12.52	13.32
27	14.89	13.59	13.79	13.70	12.77	12.51	11.02	10.77	11.53	11.62	12.55	13.34
28	14.87	13.56	13.81	13.58	12.74	12.48	11.01	10.78	11.56	11.66	12.58	13.36
29	14.86	13.55	13.83	13.43	12.73	12.46	11.02	10.78	11.58	11.70	12.61	13.37
30	14.85	13.54	13.85	13.31	---	12.44	11.02	10.81	11.60	11.73	12.64	13.40
31	14.83	---	13.86	13.23	---	12.42	---	10.84	---	11.75	12.67	---
MAX	---	14.81	13.86	14.15	13.18	12.73	12.41	11.07	11.60	11.92	12.67	13.40
MIN	---	13.54	13.50	13.23	12.73	12.42	11.01	10.73	10.88	11.34	11.77	12.71

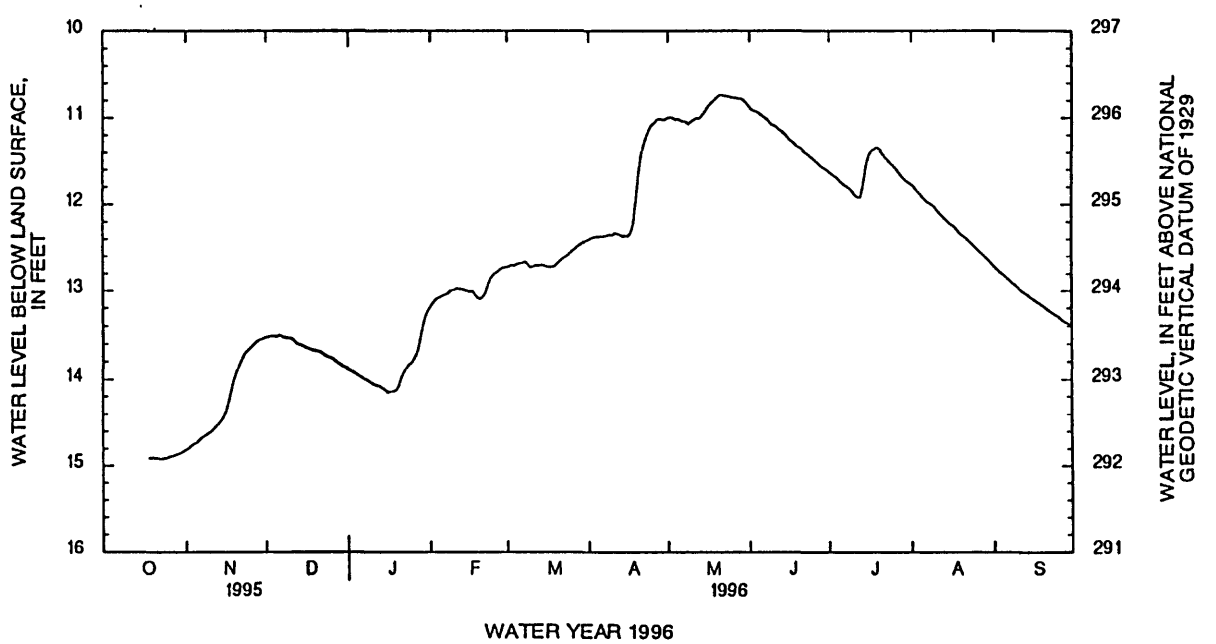

Table 10. Water levels for recording observation well CW1983 in the Presumpscot River Basin study area, Maine

[USGS identifier - 435039070261101; ---, no data or not computed]

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	16.99	---	---	15.53	15.60	15.73	14.89	---	16.29	16.31	17.07
2	---	16.96	---	---	15.51	15.60	15.73	14.92	---	16.31	16.32	17.09
3	---	16.92	---	---	15.51	15.62	15.72	14.97	---	16.33	16.35	17.11
4	---	16.88	---	---	15.53	15.67	15.72	15.01	---	16.34	16.37	17.13
5	---	16.84	---	---	15.56	15.70	15.74	15.03	---	16.36	16.40	17.15
6	---	16.82	---	---	15.59	15.72	15.75	15.05	15.60	16.38	16.43	17.17
7	---	16.79	---	---	15.63	15.75	15.76	15.08	15.62	16.40	16.46	17.19
8	---	16.76	---	---	15.65	15.77	15.77	15.11	15.65	16.42	16.48	17.21
9	---	16.71	---	---	15.66	15.81	15.78	---	15.69	16.43	16.50	17.22
10	---	16.68	---	---	15.70	15.85	15.79	---	15.71	16.44	16.53	17.24
11	---	16.64	---	---	15.72	15.87	15.77	---	15.74	16.47	16.55	17.25
12	---	16.59	---	---	15.75	15.88	15.77	---	15.77	16.49	16.58	17.26
13	---	16.53	---	---	15.79	15.90	15.76	---	15.80	16.49	16.60	17.27
14	---	16.46	---	---	15.82	15.91	15.75	---	15.83	16.23	16.63	17.27
15	---	16.36	---	---	15.86	15.91	15.74	---	15.87	16.12	16.66	17.27
16	---	16.21	---	---	15.89	15.88	15.73	---	15.91	16.05	16.68	17.27
17	---	16.09	---	---	15.91	15.88	15.70	---	15.94	16.02	16.70	17.26
18	17.39	16.00	---	---	15.95	15.90	15.37	---	15.97	16.00	16.73	17.26
19	17.40	15.92	---	16.73	16.00	15.91	15.11	---	16.01	15.99	16.75	17.26
20	17.40	15.86	---	16.51	16.03	15.86	14.93	---	16.05	15.99	16.78	17.27
21	17.39	15.80	---	16.41	16.05	15.77	14.80	---	16.08	16.01	16.80	17.28
22	17.35	15.75	---	16.37	15.93	15.74	14.72	---	16.10	16.06	16.83	17.28
23	17.29	---	---	16.34	15.80	15.72	14.68	---	16.12	16.09	16.85	17.29
24	17.25	---	---	16.32	15.71	15.72	14.65	---	16.14	16.11	16.87	17.30
25	17.22	---	---	16.26	15.64	15.72	14.64	---	16.15	16.13	16.90	17.31
26	17.21	---	---	16.20	15.61	15.71	14.68	---	16.17	16.15	16.92	17.31
27	17.19	---	---	16.16	15.60	15.72	14.71	---	16.20	16.17	16.95	17.32
28	17.17	---	---	15.91	15.58	15.71	14.77	---	16.22	16.20	16.97	17.33
29	17.11	---	---	15.72	15.58	15.71	14.82	---	16.25	16.23	16.99	17.34
30	17.06	---	---	15.61	---	15.71	14.87	---	16.27	16.25	17.01	17.34
31	17.02	---	---	15.55	---	15.72	---	---	---	16.29	17.04	---
MAX	---	---	---	---	16.05	15.91	15.79	---	---	16.49	17.04	17.34
MIN	---	---	---	---	15.51	15.60	14.64	---	---	15.99	16.31	17.07

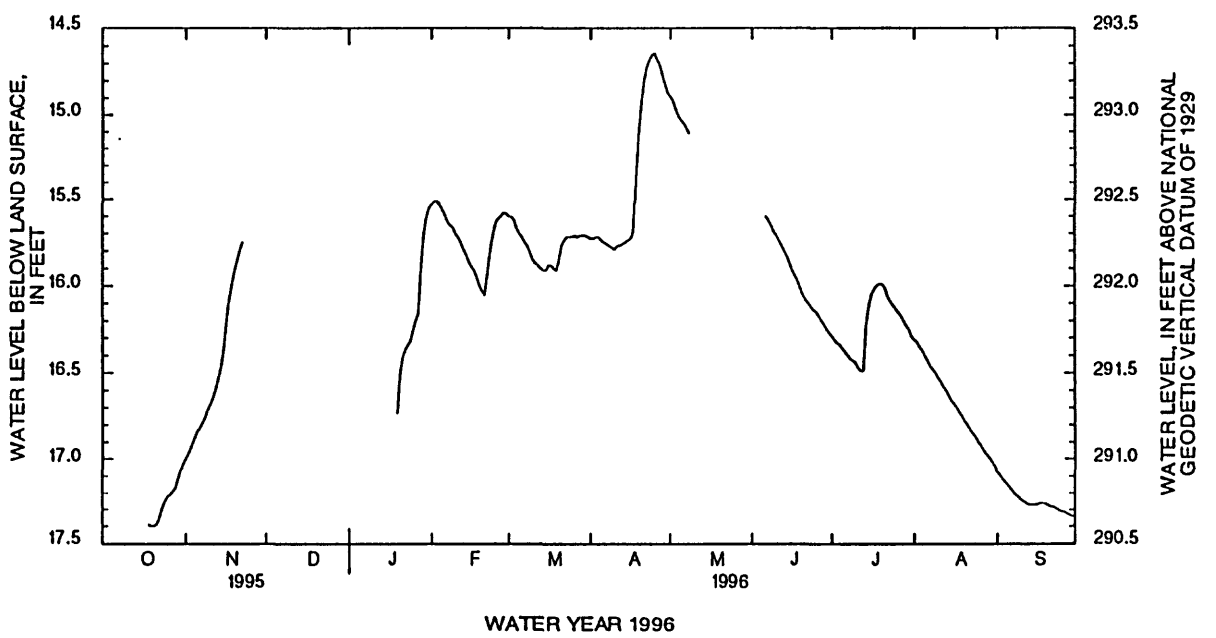

Table 11. Water levels for recording observation well CW1993 in the Presumpscot River Basin study area, Maine

[USGS identifier - 435008070262902; ---, no data or not computed]

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	10.22	8.95	9.66	---	8.56	8.49	7.58	7.92	8.82	8.84	9.76
2	---	10.18	9.00	9.67	---	8.55	8.49	7.62	7.95	8.84	8.86	9.78
3	---	10.14	9.04	9.69	---	8.55	8.48	7.66	7.99	8.86	8.90	9.79
4	---	10.10	9.06	9.72	---	8.62	8.48	7.69	8.01	8.87	8.93	9.83
5	---	10.07	9.10	9.75	---	8.66	8.51	7.71	8.04	8.90	8.96	9.85
6	---	10.03	9.11	9.77	---	8.69	8.55	7.73	8.08	8.93	8.99	9.88
7	---	9.99	9.13	9.79	---	8.73	8.57	7.75	8.11	8.96	9.02	9.91
8	---	9.94	9.17	9.80	---	8.74	8.59	7.76	8.15	8.97	9.05	9.94
9	---	9.91	9.18	9.83	---	8.80	8.61	7.79	8.19	8.99	9.07	9.95
10	---	9.88	9.17	9.85	---	8.86	8.59	7.79	8.22	9.01	9.11	9.96
11	---	9.83	9.21	9.88	---	8.88	8.62	7.78	8.25	9.05	9.14	9.95
12	---	9.78	9.24	9.90	---	8.90	8.64	7.71	8.29	9.08	9.18	9.98
13	---	9.74	9.28	9.91	---	8.92	8.64	7.64	8.32	9.06	9.20	9.99
14	---	9.67	9.30	9.93	---	8.92	8.60	7.57	8.35	8.84	9.23	9.98
15	---	9.58	9.32	9.96	---	8.90	8.56	7.53	8.39	8.70	9.27	9.99
16	---	9.39	9.34	9.99	---	8.83	8.49	7.51	8.44	8.62	9.30	10.00
17	---	9.22	9.36	10.00	---	8.79	7.93	7.50	8.47	8.57	9.32	10.02
18	10.55	9.13	9.38	10.02	---	8.78	7.56	7.51	8.50	8.55	9.35	10.02
19	10.58	9.07	9.40	10.02	---	8.77	7.44	7.51	8.54	8.52	9.39	10.03
20	10.60	9.02	9.41	---	---	8.70	7.38	7.50	8.56	8.50	9.42	10.05
21	10.61	8.98	9.42	---	---	8.59	7.34	7.51	8.59	8.53	9.45	10.07
22	10.55	8.96	9.45	---	---	8.55	7.33	7.56	8.61	8.57	9.48	10.09
23	10.49	8.96	9.47	---	8.83	8.53	7.31	7.60	8.63	8.60	9.50	10.09
24	10.44	8.96	9.49	---	8.76	8.53	7.32	7.65	8.65	8.63	9.53	10.11
25	10.41	8.94	9.51	---	8.69	8.53	7.37	7.69	8.67	8.66	9.57	10.12
26	10.39	8.92	9.53	---	8.64	8.51	7.38	7.72	8.69	8.67	9.60	10.14
27	10.37	8.92	9.55	---	8.62	8.50	7.44	7.75	8.72	8.69	9.63	10.16
28	10.36	8.92	9.58	---	8.59	8.49	7.50	7.78	8.75	8.73	9.66	10.17
29	10.32	8.95	9.61	---	8.57	8.48	7.54	7.81	8.77	8.76	9.68	10.17
30	10.29	8.96	9.63	---	---	8.49	7.56	7.84	8.80	8.78	9.72	10.20
31	10.25	---	9.64	---	---	8.49	---	7.88	---	8.82	9.74	---
MAX	---	10.22	9.64	---	---	8.92	8.64	7.88	8.80	9.08	9.74	10.20
MIN	---	8.92	8.95	---	---	8.48	7.31	7.50	7.92	8.50	8.84	9.76

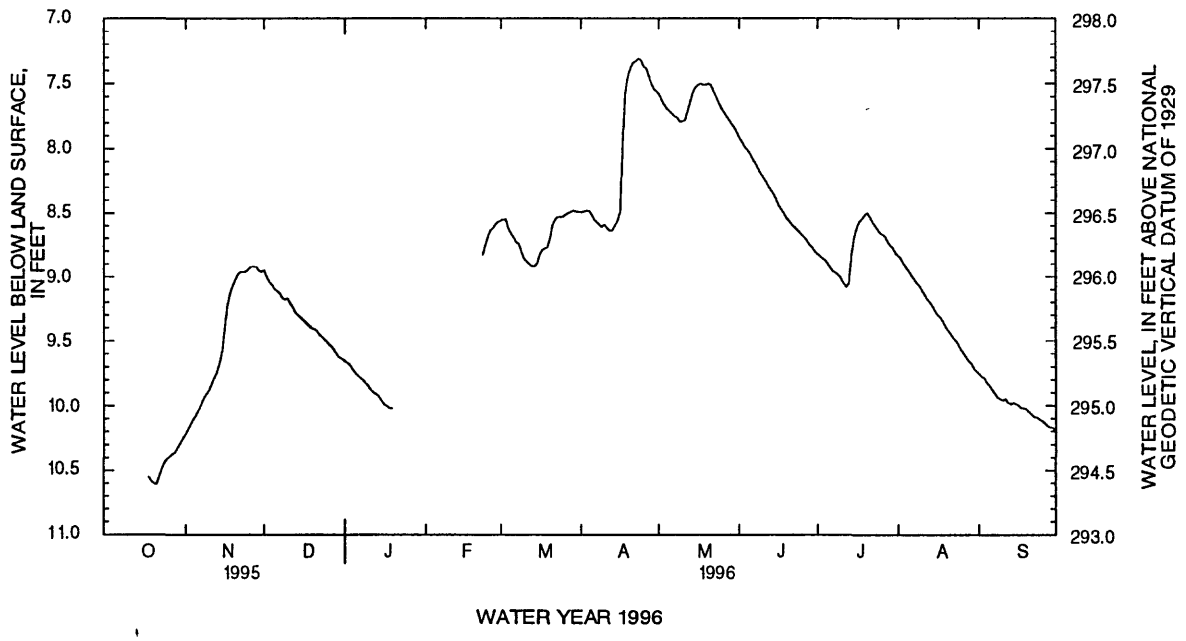

Table 12. Chemical analyses of ground water and surface water, Presumpscot River Basin study area, Maine.
[Concentrations are given in milligrams per liter. Specific conductance is in microsiemens per centimeter at 25 degrees Celsius. pH is in standard units. A less-than sign (<) indicates that the median value was less than the detection limit shown; --, not analyzed]

Local identifier or site number	Project identifier or stream name	Date	Time	Specific conductance, field	Specific conductance, lab	pH, Field	pH, lab	Alkalinity, field (as CaCO3)	Alkalinity, lab (as CaCO3)
				Ground-water (wells)					
CW 1973	BR2-B	May 14, 1996	1150	161	158	7.0	6.8	35	38
CW 1980	MTW-1	May 14, 1996	1530	140	142	6.4	6.4	27	19
CW 1981	FRB-1	May 14, 1996	1040	171	171	6.0	6.2	20	19
CW 1983	SAN-1	May 15, 1996	1110	78	99	7.1	6.7	37	27
CW 1984	CHA-1	May 13, 1996	1230	157	160	6.7	6.7	48	55
CW 1985	CHA-2	May 13, 1996	1420	73	74	6.2	6.3	16	18
		May 21, 1996	1651	69	72	6.2	6.3	12	13
CW 1987	KEL-1	May 15, 1996	0855	145	214	7.4	7.3	46	39
CW 1991	TLR-1	May 14, 1996	1330	316	320	7.2	6.7	77	62
CW 1993	BENT-2	May 15, 1996	0955	21	40	6.3	6.4	14	11
CW 2000	SSW-1	May 14, 1996	0850	487	490	6.0	6.1	71	91
CW 2003	UWW-1	Aug 22, 1996	1100	122	126	6.4	6.4	17	19
CW 2004	TCBY-1	Aug 21, 1996	1230	78	90	5.7	5.9	14	17
CW 2005	CPW-2	Aug 22, 1996	1320	162	160	6.1	6.0	25	28
CW 2006	OAK-1	Aug 22, 1996	1200	299	304	5.8	5.8	11	13
CW 2008	MPW-2	Aug 20, 1996	1500	98	99	5.4	5.6	6	6.8
CW 2009	KEY-2	Aug 21, 1996	1050	68	81	5.9	5.9	6	6.8
CW 2010	MDW-1	Aug 21, 1996	0930	104	105	5.5	5.8	8	10
CW 2011	BRW-1	Aug 20, 1996	1555	31	55	5.6	5.8	6	7.8
CW 2013	YMCA-1	Aug 15, 1996	1650	71	58	6.1	5.7	14	6.4
CW 2014	YMCA-2	Aug 14, 1996	1350	47	98	6.0	6.6	12	14
CW2015	YMCA-3	Aug 15, 1996	1445	63	65	6.0	6.4	13	15
				Surface-water					
34a	Crooked R.	May 21, 1996	1500	43	45	6.5	6.5	5	6.3
		Aug 15, 1996	1125	52	54	6.3	6.7	8	11
18	Stony Brook	May 21, 1996	1030	56	57	5.4	6.4	1.0	2.3
52	Ditch Brook	May 16, 1996	1040	48	50	7.0	6.8	10	12
53	Ditch Brook	Aug 20, 1996	1015	83	83	7.4	6.6	20	21
58	Ditch Brook	May 16, 1996	1500	56	58	7.4	7.3	11	13
48	Outlet Brook	Aug 20, 1996	1130	151	154	6.8	6.6	28	30

Table 12. Chemical analyses of ground water and surface water, Presumpscot River Basin study area, Maine--Continued

[Concentrations are given in milligrams per liter. Specific conductance is in microsiemens per centimeter at 25 degrees Celsius. pH is in standard units. A less-than sign (<) indicates that the median value was less than the detection limit shown; --, not analyzed]

Local identifier or site number	Project identifier or stream name	Date	Time	Calcium, dissolved (as Ca)	Magnesium, dissolved (as Mg)	Sodium, dissolved (as Na)	Sodium, adsorption	Sodium, percent
			Ground-water (wells)					
CW 1973	BR2-B	May 14, 1996	1150	19	2.9	4.9	0.3	15
CW 1980	MTW-1	May 14, 1996	1530	12	2.6	8.1	0.6	29
CW 1981	FRB-1	May 14, 1996	1040	9.6	2.0	14	1	44
CW 1983	SAN-1	May 15, 1996	1110	8.2	2.6	5.3	.4	26
CW 1984	CHA-1	May 13, 1996	1230	18	3.7	5.6	.3	16
CW 1985	CHA-2	May 13, 1996	1420	4.7	1.1	7.1	.8	47
		May 21, 1996	1651	4.1	.95	7.0	.8	50
CW 1987	KEL-1	May 15, 1996	0855	21	3.7	8.3	.4	20
CW 1991	TLR-1	May 14, 1996	1330	38	4.0	15	.6	22
CW 1993	BENT-2	May 15, 1996	0955	3.8	.38	1.6	.2	21
CW 2000	SSW-1	May 14, 1996	0850	48	9.2	30	1	29
CW 2003	UWW-1	Aug 22, 1996	1100	11	2.5	5.6	.4	23
CW 2004	TCBY-1	Aug 21, 1996	1230	5.6	1.2	8.8	.9	49
CW 2005	CPW-2	Aug 22, 1996	1320	8.8	1.9	17	1	54
CW 2006	OAK-1	Aug 22, 1996	1200	16	2.4	32	2	55
CW 2008	MPW-2	Aug 20, 1996	1500	6.9	1.8	6.6	.6	36
CW 2009	KEY-2	Aug 21, 1996	1050	7.0	.76	4.4	.4	29
CW 2010	MDW-1	Aug 21, 1996	0930	11	1.2	3.9	.3	20
CW 2011	BRW-1	Aug 20, 1996	1555	5.8	.38	2.3	.2	23
CW 2013	YMCA-1	Aug 15, 1996	1650	3.1	.92	4.4	.6	43
CW 2014	YMCA-2	Aug 14, 1996	1350	7.2	1.9	6.3	.5	33
CW2015	YMCA-3	Aug 15, 1996	1445	4.6	1.3	4.2	.4	33
			Surface-water					
34a	Crooked R.	May 21, 1996	1500	2.8	.53	4.1	.6	48
		Aug 15, 1996	1125	3.7	.71	4.6	.6	44
18	Stony Brook	May 21, 1996	1030	1.5	.35	8.0	2	76
52	Ditch Brook	May 16, 1996	1040	4.3	.67	3.5	.4	35
53	Ditch Brook	Aug 20, 1996	1015	8.2	1.1	5.5	.5	32
58	Ditch Brook	May 16, 1996	1500	5.1	.77	4.0	.4	34
48	Outlet Brook	Aug 20, 1996	1130	11	1.8	15	1	47

Table 12. Chemical analyses of ground water and surface water, Presumpscot River Basin study area, Maine--Continued

[Concentrations are given in milligrams per liter. Specific conductance is in microsiemens per centimeter at 25 degrees Celsius. pH is in standard units. A less-than sign (<) indicates that the median value was less than the detection limit shown; --, not analyzed]

Local identifier or site number	Project identifier or stream name	Date	Time	Potassium, dissolved (as K)	Sulfate, dissolved (as SO4)	Chloride, dissolved (as Cl)	Fluoride, dissolved (as F)	Bromide, dissolved (as Br)
			Ground-water (wells)					
CW 1973	BR2-B	May 14, 1996	1150	2.1	20	11	0.2	0.02
CW 1980	MTW-1	May 14, 1996	1530	1.9	6.8	12	<.10	.020
CW 1981	FRB-1	May 14, 1996	1040	4.8	21	22	<.10	.020
CW 1983	SAN-1	May 15, 1996	1110	1.4	2.1	12	.20	.020
CW 1984	CHA-1	May 13, 1996	1230	1.8	4.8	11	<.10	.020
CW 1985	CHA-2	May 13, 1996	1420	.70	2.4	10	<.10	<.010
		May 21, 1996	1651	.80	3.4	11	<.10	<.010
CW 1987	KEL-1	May 15, 1996	0855	4.6	24	21	.20	.030
CW 1991	TLR-1	May 14, 1996	1330	2.8	31	38	.20	.22
CW 1993	BENT-2	May 15, 1996	0955	1.7	5.1	1.4	<.10	<.010
CW 2000	SSW-1	May 14, 1996	0850	2.5	9.2	41	.10	.12
CW 2003	UWW-1	Aug 22, 1996	1100	3.0	15	10	<.10	.010
CW 2004	TCBY-1	Aug 21, 1996	1230	.70	4.0	9.0	<.10	.010
CW 2005	CPW-2	Aug 22, 1996	1320	1.2	5.6	18	<.10	.020
CW 2006	OAK-1	Aug 22, 1996	1200	5.2	14	58	<.10	.040
CW 2008	MPW-2	Aug 20, 1996	1500	.40	1.2	17	<.10	--
CW 2009	KEY-2	Aug 21, 1996	1050	2.1	2.8	6.7	<.10	.040
CW 2010	MDW-1	Aug 21, 1996	0930	1.7	2.9	13	<.10	.030
CW 2011	BRW-1	Aug 20, 1996	1555	.60	2.5	4.9	<.10	.020
CW 2013	YMCA-1	Aug 15, 1996	1650	.80	3.1	9.7	<.10	.060
CW 2014	YMCA-2	Aug 14, 1996	1350	1.3	4.4	15	<.10	<.010
CW2015	YMCA-3	Aug 15, 1996	1445	1.3	5.8	5.8	<.10	<.010
			Surface-water					
34a	Crooked R.	May 21, 1996	1500	.40	2.9	5.8	<.10	--
		Aug 15, 1996	1125	.60	2.8	6.5	<.10	--
18	Stony Brook	May 21, 1996	1030	.30	2.8	12	<.10	--
52	Ditch Brook	May 16, 1996	1040	.50	3.8	5.1	<.10	--
53	Ditch Brook	Aug 20, 1996	1015	.70	4.7	9.0	<.10	--
58	Ditch Brook	May 16, 1996	1500	.70	4.3	5.9	.10	--
48	Outlet Brook	Aug 20, 1996	1130	1.0	3.7	23	.10	--

Table 12. Chemical analyses of ground water and surface water, Presumpscot River Basin study area, Maine--Continued

[Concentrations are given in milligrams per liter. Specific conductance is in microsiemens per centimeter at 25 degrees Celsius. pH is in standard units. A less-than sign (<) indicates that the median value was less than the detection limit shown; --, not analyzed]

Local identifier or site number	Project identifier or stream name	Date	Time	Silica, dissolved (as SiO2)	Nitrogen, NO2+ NO3 dissolved (as N)	Nitrogen, ammonia dissolved (as N)	Nitrogen, nitrite dissolved (as N)	Nitrogen, ammonia + organic dissolved (as N)
			Ground-water (wells)					
CW 1973	BR2-B	May 14, 1996	1150	13	0.070	0.030	<0.010	<0.20
CW 1980	MTW-1	May 14, 1996	1530	14	5.40	.030	<.010	<.20
CW 1981	FRB-1	May 14, 1996	1040	16	.410	.040	.040	<.20
CW 1983	SAN-1	May 15, 1996	1110	14	.290	.030	<.010	<.20
CW 1984	CHA-1	May 13, 1996	1230	19	1.20	<.015	<.010	<.20
CW 1985	CHA-2	May 13, 1996	1420	4.4	<.050	<.015	<.010	<.20
		May 21, 1996	1651	4.3	.070	.040	<.010	<.20
CW 1987	KEL-1	May 15, 1996	0855	14	.790	.030	<.010	<.20
CW 1991	TLR-1	May 14, 1996	1330	15	.060	.030	<.010	<.20
CW 1993	BENT-2	May 15, 1996	0955	3.9	.130	.030	<.010	<.20
CW 2000	SSW-1	May 14, 1996	0850	18	19	<.015	.150	<.20
CW 2003	UWW-1	Aug 22, 1996	1100	14	1.90	.020	.010	<.20
CW 2004	TCBY-1	Aug 21, 1996	1230	10	2.30	.030	<.010	<.20
CW 2005	CPW-2	Aug 22, 1996	1320	12	3.50	<.015	<.010	<.20
CW 2006	OAK-1	Aug 22, 1996	1200	9.9	4.80	<.015	<.010	<.20
CW 2008	MPW-2	Aug 20, 1996	1500	9.5	2.70	.020	<.010	<.20
CW 2009	KEY-2	Aug 21, 1996	1050	7.1	4.30	.110	.040	<.20
CW 2010	MDW-1	Aug 21, 1996	0930	4.3	4.00	.020	<.010	<.20
CW 2011	BRW-1	Aug 20, 1996	1555	5.7	2.00	.030	<.010	<.20
CW 2013	YMCA-1	Aug 15, 1996	1650	17	.070	.070	.010	<.20
CW 2014	YMCA-2	Aug 14, 1996	1350	16	.200	.050	.010	<.20
CW2015	YMCA-3	Aug 15, 1996	1445	13	.100	.020	.010	<.20
			Surface-water					
34a	Crooked R.	May 21, 1996	1500	5.0	.070	.030	<.010	.20
		Aug 15, 1996	1125	2.9	.080	.040	.010	<.20
18	Stony Brook	May 21, 1996	1030	4.0	.060	.030	<.010	.30
52	Ditch Brook	May 16, 1996	1040	2.0	.100	<.015	<.010	<.20
53	Ditch Brook	Aug 20, 1996	1015	3.5	.140	.030	<.010	<.20
58	Ditch Brook	May 16, 1996	1500	2.4	.110	<.015	<.010	<.20
48	Outlet Brook	Aug 20, 1996	1130	12	.230	.040	.010	<.20

Table 12. Chemical analyses of ground water and surface water, Presumpscot River Basin study area, Maine--Continued

[Concentrations are given in milligrams per liter. Specific conductance is in microsiemens per centimeter at 25 degrees Celsius. pH is in standard units. A less-than sign (<) indicates that the median value was less than the detection limit shown; --, not analyzed]

Local identifier or site number	Project identifier or stream name	Date	Time	Phosphorous, dissolved (as P)	Phosphorus, ortho, dissolved (as P)	Manganese, dissolved (as Mn)	Iron, dissolved (as Fe)
		Ground-water (wells)					
CW 1973	BR2-B	May 14, 1996	1150	<0.010	<0.010	.10	.27
CW 1980	MTW-1	May 14, 1996	1530	<.010	<.010	.040	.007
CW 1981	FRB-1	May 14, 1996	1040	<.010	<.010	.680	1.0
CW 1983	SAN-1	May 15, 1996	1110	<.010	<.010	.220	.006
CW 1984	CHA-1	May 13, 1996	1230	<.010	.010	.002	.003
CW 1985	CHA-2	May 13, 1996	1420	<.010	.010	.005	.039
		May 21, 1996	1651	<.010	.010	.005	.014
CW 1987	KEL-1	May 15, 1996	0855	<.010	<.010	.110	.005
CW 1991	TLR-1	May 14, 1996	1330	<.010	<.010	.350	4.4
CW 1993	BENT-2	May 15, 1996	0955	<.010	<.010	.003	.004
CW 2000	SSW-1	May 14, 1996	0850	.010	.010	.091	.028
CW 2003	UWW-1	Aug 22, 1996	1100	<.010	<.010	.220	.007
CW 2004	TCBY-1	Aug 21, 1996	1230	<.010	.010	.012	.006
CW 2005	CPW-2	Aug 22, 1996	1320	<.010	.010	.005	.006
CW 2006	OAK-1	Aug 22, 1996	1200	<.010	<.010	.048	<.003
CW 2008	MPW-2	Aug 20, 1996	1500	<.010	<.010	.005	<.003
CW 2009	KEY-2	Aug 21, 1996	1050	<.010	<.010	.270	.042
CW 2010	MDW-1	Aug 21, 1996	0930	<.010	<.010	.005	<.003
CW 2011	BRW-1	Aug 20, 1996	1555	<.010	<.010	.004	<.003
CW 2013	YMCA-1	Aug 15, 1996	1650	.020	.020	.120	4.9
CW 2014	YMCA-2	Aug 14, 1996	1350	<.010	.010	.009	<.003
CW2015	YMCA-3	Aug 15, 1996	1445	<.010	.010	.083	.008
		Surface-water					
34a	Crooked R.	May 21, 1996	1500	<.010	<.010	.008	.120
		Aug 15, 1996	1125	<.010	<.010	.009	.230
18	Stony Brook	May 21, 1996	1030	<.010	<.010	.021	.150
52	Ditch Brook	May 16, 1996	1040	<.010	<.010	.001	.027
53	Ditch Brook	Aug 20, 1996	1015	<.010	<.010	.003	.065
58	Ditch Brook	May 16, 1996	1500	<.010	<.010	.005	.041
48	Outlet Brook	Aug 20, 1996	1130	<.010	.020	.037	.220

Table 12. Chemical analyses of ground water and surface water, Presumpscot River Basin study area, Maine--Continued

[Concentrations are given in milligrams per liter. Specific conductance is in microsiemens per centimeter at 25 degrees Celsius. pH is in standard units. A less-than sign (<) indicates that the median value was less than the detection limit shown; --, not analyzed]

Local identifier or site number	Project identifier or stream name	Date	Time	Temperature water, deg. C	Solids, residue @ 180 deg. C, dissolved	Solids, sum of constituents, dissolved	Oxygen, dissolved	Hardness total (as CaCO3)
			Ground-water (wells)					
CW 1973	BR2-B	May 14, 1996	1150	8.6	114	97	--	59
CW 1980	MTW-1	May 14, 1996	1530	11.0	112	93	8.0	41
CW 1981	FRB-1	May 14, 1996	1040	9.0	118	104	1.1	32
CW 1983	SAN-1	May 15, 1996	1110	9.0	76	64	1.9	31
CW 1984	CHA-1	May 13, 1996	1230	9.0	122	102	5.7	60
CW 1985	CHA-2	May 13, 1996	1420	7.5	56	41	.5	16
		May 21, 1996	1651	11.2	46	40	0	14
CW 1987	KEL-1	May 15, 1996	0855	10.0	136	124	1.3	68
CW 1991	TLR-1	May 14, 1996	1330	9.0	204	186	.2	110
CW 1993	BENT-2	May 15, 1996	0955	8.0	38	25	6.5	11
CW 2000	SSW-1	May 14, 1996	0850	9.5	320	297	.5	160
CW 2003	UWW-1	Aug 22, 1996	1100	10.5	82	81	3.5	38
CW 2004	TCBY-1	Aug 21, 1996	1230	12.0	60	60	9.7	19
CW 2005	CPW-2	Aug 22, 1996	1320	--	100	97	--	30
CW 2006	OAK-1	Aug 22, 1996	1200	13.0	186	167	5.2	50
CW 2008	MPW-2	Aug 20, 1996	1500	9.5	--	59	8.6	25
CW 2009	KEY-2	Aug 21, 1996	1050	13.0	64	54	7.2	21
CW 2010	MDW-1	Aug 21, 1996	0930	10.0	78	62	8.6	32
CW 2011	BRW-1	Aug 20, 1996	1555	10.0	38	36	10.8	16
CW 2013	YMCA-1	Aug 15, 1996	1650	8.5	66	53	.2	12
CW 2014	YMCA-2	Aug 14, 1996	1350	11.5	90	60	1.4	26
CW2015	YMCA-3	Aug 15, 1996	1445	11.0	42	44	3.0	17
			Surface-water					
34a	Crooked R.	May 21, 1996	1500	15.5	42	26	9.3	9
		Aug 15, 1996	1125	18.5	50	27	9.3	12
18	Stony Brook	May 21, 1996	1030	16.0	50	31	9.3	5
52	Ditch Brook	May 16, 1996	1040	14.0	44	26	10.4	13
53	Ditch Brook	Aug 20, 1996	1015	23.0	60	46	9.1	25
58	Ditch Brook	May 16, 1996	1500	15.0	50	31	10.0	16
48	Outlet Brook	Aug 20, 1996	1130	17.0	96	87	7.5	35