United States
Environmental Protection
Agency

Office of Research
and Development
Washington DC 20460

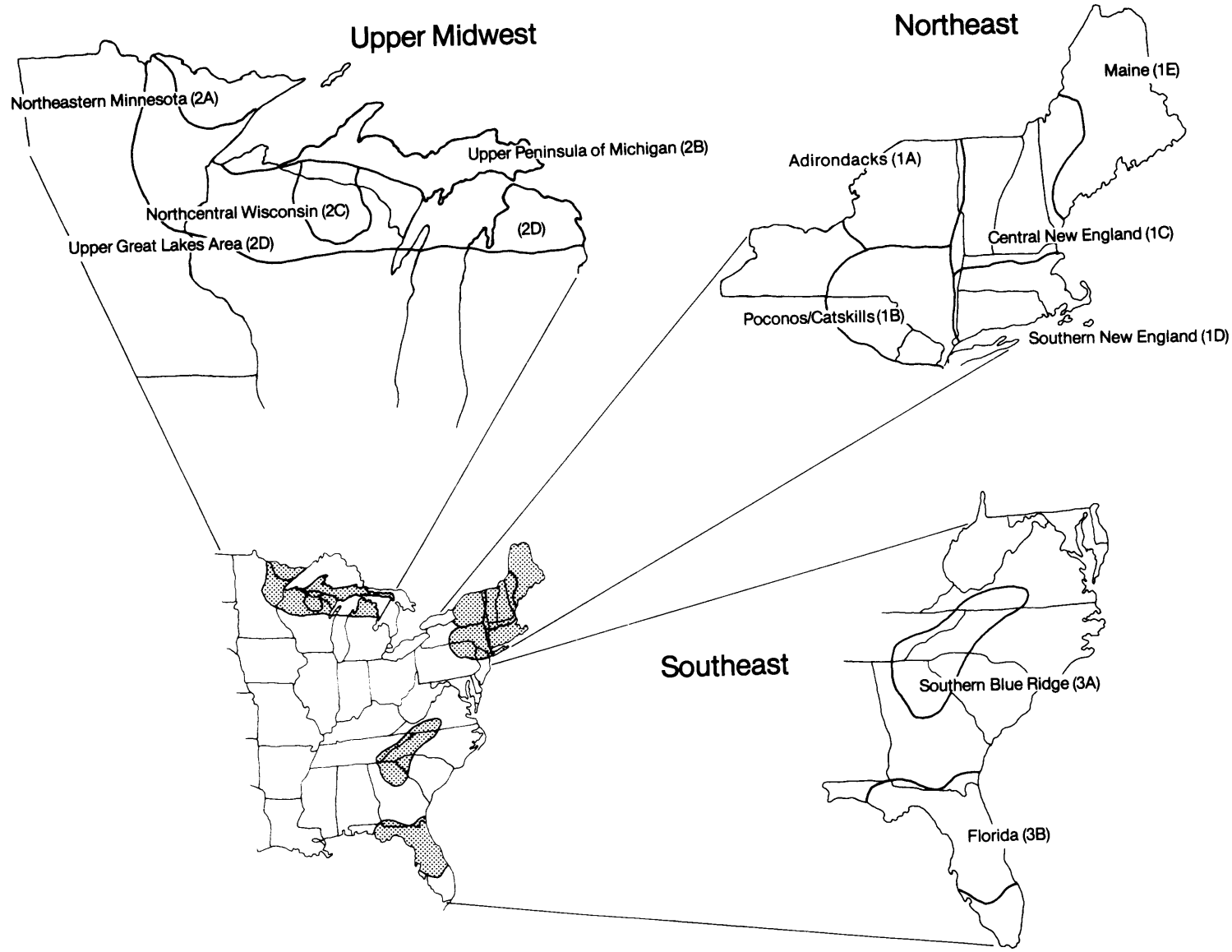
EPA/600/4-86/007c
June 1986

Acid Deposition Aquatic Effects Research Program

EPA

Characteristics of Lakes in the Eastern United States

Volume III. Data Compendium of Site Characteristics and Chemical Variables



Regions and Subregions, Eastern Lake Survey-Phase I

EPA/600/4-86/007c
June 1986

CHARACTERISTICS OF LAKES IN THE EASTERN UNITED STATES

VOLUME III: DATA COMPENDIUM OF SITE CHARACTERISTICS AND CHEMICAL VARIABLES

By:

P. Kanciruk, J. M. Eilers, R. A. McCord,
D. H. Landers, D. F. Brakke and R. A. Linthurst

A Contribution to the
National Acid Precipitation Assessment Program

U. S. Environmental Protection Agency
Office of Research and Development, Washington, D. C. 20460
Environmental Research Laboratory, Corvallis, Oregon 97333
Environmental Monitoring Systems Laboratory, Las Vegas, Nevada 89109

NOTICE

The information in this document has been funded wholly or in part by the U. S. Environmental Protection Agency under Contract No. 68-03-3249 and 68-03-3050 to Lockheed Engineering and Management Services Company, Inc., No. 68-02-3889 to Radian Corporation, No. 68-03-3246 to Northrop Services, Inc., and Interagency Agreement No. 40-1441-84 with the U. S. Department of Energy. It has been subject to the Agency's peer and administrative review, and it has been approved for publication as an EPA document.

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Linthurst[1], R. A., D. H. Landers[2], J. M. Eilers[3], D. F. Brakke[4], W. S. Overton[5], E. P. Meier[6] and R. E. Crowe[6]. Characteristics of Lakes in the Eastern United States. Volume I: Population Descriptions and Physico-Chemical Relationships. EPA/600/4-86/007a, U. S. Environmental Protection Agency, Washington, D.C., 1986, 136 pp.

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[1]U. S. EPA Office of Research and Development, 401 M Street, S.W., Washington, D.C. 20460. Present address: U. S. EPA Environmental Monitoring Systems Laboratory, Mail-Drop 39, Research Triangle Park, North Carolina 27711.

[2]State University of New York, State University Research Center at Oswego, 300 Washington Blvd., Oswego, New York 13126. Present address: U. S. EPA Environmental Research Laboratory, 200 S.W. 35th Street, Corvallis, Oregon 97333.

[3]Northrop Services, Inc., U. S. EPA Environmental Research Laboratory, 200 S.W. 35th Street, Corvallis, Oregon 97333.

[4]Western Washington University, Institute for Watershed Studies, Environmental Sciences Bldg., Room 600, Bellingham, Washington 98225.

[5]Oregon State University, Department of Statistics, Kidder No. 8, Corvallis, Oregon 97331.

[6]U. S. EPA Environmental Monitoring Systems Laboratory, 944 E. Harmon Avenue, Las Vegas, Nevada 89114.

[7]Environmental Sciences Division, Oak Ridge National Laboratory, Post Office Box X, Oak Ridge, Tennessee 37831. Operated by Martin Marietta Energy Systems, Inc., under Contract No. DE-AC05-84OR21400 for the U. S. Department of Energy.

[8]Science Applications International Corporation, 800 Oak Ridge Turnpike, Oak Ridge, Tennessee 37831.

[9]U. S. EPA Environmental Research Laboratory, 200 S.W. 35th Street, Corvallis, Oregon 97333.

Inquiries regarding the availability of the Eastern Lake Survey - Phase I data base should be directed, in writing, to:

Chief, Air Branch
U. S. EPA Environmental Research Laboratory
200 S.W. 35th Street
Corvallis, Oregon 97333

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[1]Many of the documents are in draft form at the time of this publication.

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SECTION 1

INTRODUCTION

The Eastern Lake Survey - Phase I (ELS-I) was conducted in the fall of 1984 by the U. S. Environmental Protection Agency as part of the National Acid Precipitation Assessment Program. The primary goal of the ELS-I was to develop a geographically extensive data base that could be used as an initial framework to quantify the extent and chemical status of lakes potentially at risk due to the effects of acidic deposition. The design of the Survey emphasized that characteristics of *populations* of lakes, and not *individual* systems, were to be described, in accordance with the Survey's primary goal.

During the ELS-I, a single sample was collected from each lake once during the fall (Volume I, Section 2.1.2). While it is obvious that a single sample cannot be used to characterize the complex chemical dynamics of a lake, the number of lakes that were sampled and the geographically extensive spatial coverage were maximized. Because the essence of the collective objectives of the ELS-I was to characterize populations of lakes, a single sample was deemed appropriate.

This volume (Volume III) is part of a three-volume report entitled *Chemical Characteristics of Lakes in the Eastern United States*. The purpose of this volume is to present additional data that were not shown in Volumes I or II. The data for individual lakes that were part of the probability sample ("regular" lakes; Volume I, Section 2.2.3) are shown in Section 3. Data collected from lakes that were included in the Survey because of special interest and that were not part of the probability sample ("special interest"; Volume I, Section 2.2.5), are presented in Section 4.

These data for individual lakes should be interpreted only insofar as any other data based on a single sample can be interpreted. To use these data in inferring characteristics of lake populations requires that the

Survey design be appropriately applied. Because of the design requirement, the data presented in this volume must be viewed only as an index to the chemistry of the individual lake. Furthermore, the data for special interest lakes cannot be used to draw conclusions about lake populations because these lakes were not selected as part of the probability sample (Volume I, Section 2.2.3). Appendix A contains a list of the probability sample lakes sorted by state and lake name and Appendix B contains a similar list of the special interest lakes.

SECTION 2

DESCRIPTIONS/DEFINITIONS OF PARAMETERS

To satisfy the objectives of the ELS-I, a number of physical and chemical parameters were measured using standardized protocols (Volume I, Sections 2.4 through 2.7). These parameters were selected to provide a geographically extensive data base from which the extent and chemical status of lakes at risk due to acidic deposition could be assessed. In addition to the parameters listed in Volume II, Section 2 (Table 2-1), the ELS-I data base contains a number of other chemical and physical parameters derived from the calculation of measured values. Some chemical parameters were measured using more than one method of analysis (Volume I, Sections 2.6 and 5.1.1). The data base also includes information concerning lake type (Volume I, Section 2.4.3), sample type (from either a "regular" or "special interest" lake) and stratification status (Volume I, Section 2.6.2).

Table 2-1 contains an alphabetical listing of the variables reported in this volume for individual regular and special interest lakes. The units, the variable names as they appear in the data base and brief definitions and/or descriptions of the methods used are also included. More extensive descriptions are given in Volume I, Section 2 and in Hillman et al. (1986).

TABLE 2-1. DESCRIPTION/DEFINITION OF PARAMETERS

Parameter (unit)*	Data Base Name	Description/Definition
ANC (ueq L^{-1})	ALKA11	Acid neutralizing capacity is a measure of the amount of acid necessary to neutralize the bicarbonate, carbonate, hydroxyl, and other bases in a sample. Acid neutralizing capacity was measured in the analytical laboratory in an unfiltered, unacidified aliquot, using acidimetric titration and modified Gran analysis (Hillman et al. 1986; Kramer 1984).
Ca (ueq L^{-1})	CA16	Calcium was measured in the analytical laboratory in a filtered, acidified (HNO_3) aliquot (EPA 215.1, AAS, flame). Values were converted from mg L^{-1} to ueq L^{-1} for data analysis.
Cal. Cond. (uS cm^{-1})	CONCAL	Calculated conductance is the product of ion concentration and equivalent conductance summed over all ions measured. It is calculated here as: $[(Ca*59.47) + (Mg*53.0) + (K*73.48) + (Na*50.08) + (NH_4*73.5) + (H*349.65) + (SO_4*80.0) + (HCO_3*44.5) + (Cl*76.31) + (NO_3*71.42) + (F*55.4) + (CO_3*69.3) + (OH*198)] \div 1000$. This calculation converts units from ueq L^{-1} to uS cm^{-1}. $[H^+]$ is computed from PHAC the open system pH measurement at the initiation of the acidity titration.
Cations/Anions	ANCAT	Cations/anions is the sum of measured cations divided by the sum of measured anions.

*Parameter names shown here are consistent with those shown in Tables 3-1 and 4-1. Names shown in Volume II, Section 2 differ slightly for some variables. When cross-referencing between this table and that shown in Volume II, the data base name should be used.

(continued)

TABLE 2-1. (Continued)

Parameter (unit)	Data Base Name	Description/Definition
Cl (ueq L^{-1})	CL16	Chloride ion was measured in the analytical laboratory in an aliquot from a filtered, unacidified sample (ASTM 1984; O'Dell et al. 1984, ion chromatographic methods). Values were converted from mg L^{-1} to ueq L^{-1} for data analysis.
Closed DIC (mg L^{-1})	DICVAL	Dissolved inorganic carbon was measured in the field laboratory. The sample was drawn directly into a syringe from the Van Dorn water sampler at the lake site, filtered, and analyzed, without exposure to the atmosphere, using a Dohrmann model DC-80 carbon analyzer with an infrared spectrophotometric detector (EPA 415.2, modified).
Closed pH	PHSTVL	Closed system pH was measured in the field laboratory using an Orion model 611 meter and an Orion Ross combination pH electrode in a syringe sample unexposed to the atmosphere (EPA 150.1).
Color (PCU)	COLVAL	True color is a measure of the dissolved and colloidal substances in water that reduce light transmission. True color was measured in the field laboratory in a centrifuged aliquot (to remove particles), using a Hach model CO-1 Comparator (EPA 110.2, modified).
Date	DATSMP	Date sampled is the date on which the lake sample was collected.
DOC (mg L^{-1})	DOC11	Dissolved organic carbon was measured in the analytical laboratory in a filtered, acidified (H_2SO_4) aliquot (EPA 415.2, infrared spectrophotometric detector).

(continued)

TABLE 2-1. (Continued)

Parameter (unit)	Data Base Name	Description/Definition
Elevation (m)	ELEV	Elevation of the lake surface was determined from USGS topographic maps or was estimated from topographic contour lines.
Equil. DIC (mg L^{-1})	DICE11	Air-equilibrated dissolved inorganic carbon was measured in the analytical laboratory in an unfiltered, unacidified aliquot bubbled with 300 ppm CO_2, drawn into a syringe, filtered, and analyzed without exposure to the atmosphere (EPA 415.2 modified, infrared spectrophotometric detector).
Equil. pH	PHEQ11	Air-equilibrated pH was measured in the analytical laboratory in an unfiltered, unacidified aliquot bubbled with 300 ppm CO_2 (EPA 150.1, electrode).
Ext. Al (ug L^{-1})	ALEX11	Extractable aluminum is an estimate of labile, monomeric aluminum. Aluminum in an unacidified, filtered sample was complexed with 8-hydroxyquinoline and extracted with methyl-isobutyl ketone (MIBK) in the field laboratory. The extract was analyzed in the analytical laboratory using the method described in Hillman et al. (1986). Values were converted from mg L^{-1} to ug L^{-1} for data analysis.
F (ueq L^{-1})	FTL16	Total dissolved fluoride was measured in the analytical laboratory in a filtered, unacidified aliquot, using an ion-selective electrode (ISE, EPA 340.2, modified). Values were converted from mg L^{-1} to ueq L^{-1} for data analysis.

(continued)

TABLE 2-1. (Continued)

arameter (unit)	Data Base Name	Description/Definition
e (ug L^{-1})	FE11	Dissolved iron was measured in the analytical laboratory, in a filtered, acidified (HNO_3) aliquot (EPA 236.1, AAS, flame). Values were converted from mg L^{-1} to ug L^{-1} for data analysis.
CO_3 (ueq L^{-1})	HCO316	Bicarbonate is estimated as follows: HCO316 = 61,017*(DICI11/12,011)* ALPHA1*16.39; where ALPHA1 = ((10**(-PHAC11))*K1)/((10**(-PHAC11))**2 + (10**-PHAC11)*K1 + K1*K2); where K1 = 4.3E-07 AND K2 = 5.61E-11, DICI11 is the unequilibrated DIC, and PHAC11 is the initial acidity titration pH.
ydro. Type	HYDROTYP	Hydro. type is the lake hydrologic type, determined from USGS topographic maps: SEEPAGE--has no inlet(s) or outlet(s) DRAINAGE--has outlet(s) CLOSED--has inlet(s) but no outlet(s) RESERVOIR--manmade impoundment
D	LAKE_ID	Lake ID is a seven-character, unique identification code assigned to each lake. The first character is a digit representing the region (1, 2, or 3); the second is a letter indicating the subregion; the third is a digit, giving the alkalinity map class; and the fourth, a dash. The last three digits are the assigned lake number.
(ueq L^{-1})	K16	Dissolved potassium was measured in the analytical laboratory in a filtered, acidified (HNO_3) aliquot (EPA 258.1, AAS, flame). Values were converted from mg L^{-1} to ueq L^{-1} for data analysis.

continued)

TABLE 2-1. (Continued)

Parameter (unit)	Data Base Name	Description/Definition
Lake Area (ha)	LAKE_SIZ	Lake surface area was measured on large scale USGS topographic maps using an electronic planimeter.
Latitude	LAT	Latitude was read from the USGS topographic maps in DD-MM-SS (degrees-minutes-seconds) format.
Longitude	LONG	Longitude was read from the USGS topographic maps in DDD-MM-SS format.
Meas. Cond. (uS cm^{-1})	COND11	Conductance is a measure of the resistance of a water sample to an electrical current. Conductance was measured in the analytical laboratory using a conductivity cell (EPA 120.1).
Mg (ueq L^{-1})	MG16	Dissolved magnesium was measured in the analytical laboratory in a filtered, acidified (HNO_3) aliquot (EPA 242.1, AAS, flame or furnace). Values were converted from mg L^{-1} to ueq L^{-1} for data analysis.
Mn (ug L^{-1})	MN11	Dissolved manganese was measured in the analytical laboratory in a filtered, acidified (HNO_3) aliquot (EPA 243.1, AAS, flame). Values were converted from mg L^{-1} to ug L^{-1} for data analysis.
Na (ueq L^{-1})	NA16	Dissolved sodium was measured in the analytical laboratory in a filtered, acidified (HNO_3) aliquot (EPA 273.1, AAS, flame). Values were converted from mg L^{-1} to ueq L^{-1} for data analysis.

(continued)

TABLE 2-1. (Continued)

Parameter (unit)	Data Base Name	Description/Definition
Name	LAKENAME	Lake name was taken from the USGS topographic maps or, in some cases, substituted with more recent information from state sources. When a number of small water bodies were identified by only one name on the map, a qualifier was added to the name, such as "southern," to identify the lake sampled. When no name was listed, "(NO NAME)" was entered into the data base as the lake name.
NH_4 (ueq L^{-1})	NH416	Ammonium ion was measured in the analytical laboratory in an unfiltered, acidified (H_2SO_4) aliquot (EPA 350.1, colorimetric, automated). Values were converted from mg L^{-1} to ueq L^{-1} for data analysis.
NO_3 (ueq L^{-1})	NO316	Nitrate ion was measured in the analytical laboratory in a filtered, unacidified aliquot, using ion chromatography (ASTM 1984; O'Dell et al. 1984). Samples taken before November 2, 1984, were analyzed in a slightly different manner (see Volume I, Section 3.5.2). Values were converted from mg L^{-1} to ueq L^{-1} for data analysis.
Residence Time (yr)	RT	Residence time is the estimated hydraulic residence time, defined as years required to replace the volume of the lake. RT = ((LAKE_SIZ*1.E4)*(SITDPM*0.464))/(((RUNIN*2.54E-2)*((WSHED*1.E4) - (LAKE_SIZ*1.E4))) + ((LAKE_SIZ*1.E4)*PRECIP)). Residence time was not computed for seepage lakes, closed lakes, or lakes located in Subregion 3B (Florida) and such lakes are identified with an asterisk.

(continued)

TABLE 2-1. (Continued)

Parameter (unit)	Data Base Name	Description/Definition
Sample Type	REG_SPC	Sample type indicates whether the lake sampled was obtained from a regular or special interest lake. Lake sample type: REGULAR lakes were part of the probability sample. REG/SPC/XXX designates lakes that were part of the probability sample, but also were identified as special interest lakes. The 'XXX' indicates reason for special interest. LTM = an EPA long-term monitoring lake; NRC = suggested by the National Research Council; DEW = suggested by the State of New Jersey; DER = suggested by the State of Florida.
Secchi Depth (m)	SECMEAN	Secchi disk transparency was determined by averaging the depths of Secchi disk disappearance and reappearance. When the Secchi disk was visible on the lake bottom, that value was entered.
SiO_2 (mg L^{-1})	SIO211	Silica was measured in the analytical laboratory in an unfiltered aliquot (USGS I-2700-78, colorimetric, molybdate blue, automated method).
Site Depth (m)	SITDPM	Site depth is the depth in meters of the sampling site, measured using a weighted line, and is not necessarily the maximum lake depth.
SO_4 (ueq L^{-1})	SO416	Sulfate ion was measured in the analytical laboratory in the filtered aliquot, using ion chromatography (ASTM 1984; O'Dell et al. 1984). Values were converted from mg L^{-1} to ueq L^{-1} for data analysis.
State	ST	State is the state in which the lake is located, indicated as the standard two-character postal state abbreviation.

(continued)

TABLE 2-1. (Continued)

Parameter (unit)	Data Base Name	Description/Definition
Stratified	STRAT**	Stratified indicates whether the sampled lake was mixed (MIXED), strongly (STRONG) stratified or weakly (WEAK) stratified. The stratification status was determined as follows: MIXED indicates lakes where the difference between top temperature and bottom temperature was <4°C. STRONG indicates lakes with a temperature difference >4°C between the top temperature and the temperature at 60 percent depth. WEAK indicates lakes where the temperature difference between top and bottom was >4°C but <4°C between top and the 60 percent-depth temperature.
Sum Anions (ueq L^{-1})	ANSUM	The sum of anions was calculated for measured anions as: $HCO_3^- + CO_3^{-2} + Cl^- + NO_3^- + SO_4^{-2} + F^- + OH^-$
Sum Cations (ueq L^{-1})	CATSUM	The sum of cations was calculated for measured cations as: $Ca^{+2} + Mg^{+2} + K^+ + Na^+ + NH_4^+ + H^+$ [where H^+ is calculated from the open system pH measured at the beginning of the acidity titration (PHAC)].
Surface Temp.	TMPTOP	Surface temperature is the lake water temperature at 1.5 m, measured using the Hydrolab model 4041 probe from the helicopter.
Tot. Al (ug L^{-1})	ALTL11	Total aluminum was measured in the analytical laboratory in an unfiltered, acidified (HNO_3) aliquot (EPA 202.2, AAS, atomic absorption spectroscopy, graphite furnace). Values were converted from mg L^{-1} to ug L^{-1} for data analysis.

**Not to be confused with the term strata in the ELS-I design.

(continued)

TABLE 2-1. (Continued)

Parameter (unit)	Data Base Name	Description/Definition
Tot. P (ug L^{-1})	PTL11	Total phosphorous was measured in the analytical laboratory in an unfiltered, acidified (H_2SO_4) aliquot, using either of two automated, colorimetric, phosphomolybdate methods: for normal phosphorus levels, using a 15-mm absorption cell, or for low levels, a preliminary method using a 50-mm absorption cell (USGS I-4600-78). Values were converted from mg L^{-1} to ug L^{-1} for data analysis.
Turbidity (NTU)	TURVAL	Turbidity was measured in the field laboratory, using a Monitek model 21 nephelometer, reported in nephelometric turbidity units (EPA 180.1).
WA/LA	WALA	WA/LA is the ratio of watershed area to lake area.
Watershed Area (ha)	WSHED	Watershed area, which includes lake area, was measured on large scale USGS topographic maps using an electronic planimeter.

SECTION 3

DATA FOR INDIVIDUAL REGULAR LAKES SORTED BY LAKE ID

The data for individual regular lakes selected as part of the probability sample in the ELS-I are presented in Table 3-1, sorted by the unique lake identification (Lake ID) code (Volume I, Section 2.2.2), shown for each entry in the upper left hand corner. The list of regular lakes, also sorted by lake ID, is given in Appendix A; the state in which each lake is located, the geographical coordinates of the lake, and the name and size of the map used to locate and characterize the lake are also given. Alphabetical listings of the probability sample lakes are shown in Volume II, Section 5.

The values shown in Table 3-1 represent the data as they appear in the final ELS-I data set (Data Set 4; Volume I, Section 3.4). These values were used to compute the population estimates given in Volumes I and II (Sections 4 through 7 and Section 9, respectively) with the algorithms specified in the Survey design (Volume I, Section 2.3.2).

The raw data for the variables presented here have been modified; for both regular and special interest lakes:

- negative values measured for variables other than ANC have been set to zero;
- nine missing values have been substituted with synthetic values;
- eighty-three suspected analytical errors have been replaced with synthetic values; and
- measurements for 124 duplicate lake samples have been averaged (Volume I, Section 3.4 and Eilers et al. 1986).

Individuals wishing to use unmodified data should request the validated data set (Data Set 3, described in Volume I, Section 3.3.2). Information on availability of all data is provided in the Notice (page ii).

TABLE 3-1. REGULAR LAKES SORTED BY LAKE ID

ID: 1A1-003 Name: HAWK POND State: NY Date: 25OCT84
Sample Type: REGULAR Latitude: 43-57'25"N Longitude: 74-57'30"W
Elevation: 645 Surface Temp: 11.5 Stratified: MIXED Site Depth: 7.3
Lake Area: 13 Watershed Area: 96 WA/LA: 7.5 Hydro Type: DRAINAGE
Residence Time: 0.58 Secchi Depth: 5.5 Turbidity: 0.4 Color: 10
Closed pH: 4.80 Equil. pH: 4.79 ANC: -9.9 DOC: 1.57
Closed DIC: 0.44 Equil. DIC: 0.13 Meas. Cond: 23.7 Cal. Cond: 23.9
Ca: 59.3 Mg: 16.3 Na: 17.5 K: 6.3 NH4: 5.2
SO4: 132.5 HCO3: 0.9 Cl: 8.0 NO3: 9.8 F: 2.9
Sum Cations: 120.8 Sum Anions: 154.0 Cations/Anions: 0.78 Tot. P: 0.0
Tot. Al: 386.6 Ext. Al: 208.3 Fe: 13.0 Mn: 33.0 SiO2: 0.84

ID: 1A1-004 Name: EVERGREEN LAKE State: NY Date: 25OCT84
Sample Type: REGULAR Latitude: 43-55'00"N Longitude: 75-01'00"W
Elevation: 613 Surface Temp: 12.2 Stratified: MIXED Site Depth: 7.3
Lake Area: 20 Watershed Area: 73 WA/LA: 3.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 6.3 Turbidity: 0.2 Color: 5
Closed pH: 4.67 Equil. pH: 4.69 ANC: -11.3 DOC: 1.06
Closed DIC: 0.43 Equil. DIC: 0.13 Meas. Cond: 22.7 Cal. Cond: 22.1
Ca: 45.0 Mg: 16.5 Na: 13.4 K: 7.4 NH4: 1.3
SO4: 106.8 HCO3: 0.6 Cl: 7.5 NO3: 8.8 F: 2.3
Sum Cations: 104.5 Sum Anions: 126.0 Cations/Anions: 0.83 Tot. P: 0.0
Tot. Al: 273.1 Ext. Al: 163.3 Fe: 30.0 Mn: 52.0 SiO2: 0.36

ID: 1A1-008 Name: CEDAR RIVER FLOW State: NY Date: 15OCT84
Sample Type: REGULAR Latitude: 43-42'30"N Longitude: 74-28'30"W
Elevation: 640 Surface Temp: 12.3 Stratified: MIXED Site Depth: 1.5
Lake Area: 265 Watershed Area: 11914 WA/LA: 45.0 Hydro Type: DRAINAGE
Residence Time: 0.02 Secchi Depth: 1.6 Turbidity: 1.1 Color: 30
Closed pH: 6.54 Equil. pH: 7.02 ANC: 71.8 DOC: 4.00
Closed DIC: 1.14 Equil. DIC: 0.77 Meas. Cond: 26.0 Cal. Cond: 26.1
Ca: 126.9 Mg: 49.4 Na: 32.9 K: 6.4 NH4: 1.4
SO4: 119.5 HCO3: 65.4 Cl: 11.3 NO3: 1.9 F: 2.4
Sum Cations: 217.3 Sum Anions: 200.5 Cations/Anions: 1.08 Tot. P: 6.3
Tot. Al: 205.5 Ext. Al: 17.3 Fe: 87.0 Mn: 20.0 SiO2: 5.56

ID: 1A1-009 Name: TWIN LAKES (EASTERN) State: NY Date: 30OCT84
Sample Type: REGULAR Latitude: 43-37'15"N Longitude: 74-37'15"W
Elevation: 812 Surface Temp: 10.6 Stratified: MIXED Site Depth: 1.5
Lake Area: 7 Watershed Area: 129 WA/LA: 17.4 Hydro Type: DRAINAGE
Residence Time: 0.05 Secchi Depth: 1.5 Turbidity: 0.6 Color: 25
Closed pH: 4.54 Equil. pH: 4.51 ANC: -23.1 DOC: 4.16
Closed DIC: 0.47 Equil. DIC: 0.17 Meas. Cond: 28.2 Cal. Cond: 26.6
Ca: 25.3 Mg: 21.2 Na: 20.0 K: 1.7 NH4: 2.5
SO4: 137.9 HCO3: 0.6 Cl: 7.8 NO3: 2.0 F: 1.9
Sum Cations: 101.5 Sum Anions: 150.2 Cations/Anions: 0.68 Tot. P: 5.8
Tot. Al: 638.3 Ext. Al: 324.5 Fe: 122.0 Mn: 35.0 SiO2: 1.97

ID: 1A1-010 Name: SNYDER LAKE State: NY Date: 16OCT84
Sample Type: REGULAR Latitude: 43-34'15"N Longitude: 74-49'15"W
Elevation: 735 Surface Temp: 13.2 Stratified: MIXED Site Depth: 0.9
Lake Area: 7 Watershed Area: 145 WA/LA: 19.9 Hydro Type: DRAINAGE
Residence Time: 0.03 Secchi Depth: 1.0 Turbidity: 0.4 Color: 40
Closed pH: 4.36 Equil. pH: 4.42 ANC: -34.2 DOC: 5.35
Closed DIC: 0.68 Equil. DIC: 0.23 Meas. Cond: 33.7 Cal. Cond: 30.7
Ca: 45.9 Mg: 15.2 Na: 15.8 K: 2.8 NH4: 3.7
SO4: 131.9 HCO3: 0.5 Cl: 11.1 NO3: 1.6 F: 1.7
Sum Cations: 124.1 Sum Anions: 146.8 Cations/Anions: 0.85 Tot. P: 0.1
Tot. Al: 527.5 Ext. Al: 282.7 Fe: 249.0 Mn: 23.0 SiO2: 2.68

TABLE 3-1 (continued)

ID: 1A1-012 Name: WHITNEY LAKE State: NY Date: 30OCT84
Sample Type: REGULAR Latitude: 43-35'15"N Longitude: 74-33'45"W
Elevation: 749 Surface Temp: 11.1 Stratified: MIXED Site Depth: 4.3
Lake Area: 43 Watershed Area: 272 WA/LA: 6.3 Hydro Type: DRAINAGE
Residence Time: 0.40 Secchi Depth: 4.2 Turbidity: 0.3 Color: 15
Closed pH: 6.03 Equil. pH: 6.23 ANC: 16.8 DOC: 2.56
Closed DIC: 0.41 Equil. DIC: 0.20 Meas. Cond: 16.6 Cal. Cond: 17.6
Ca: 77.6 Mg: 27.0 Na: 16.3 K: 5.5 NH4: 1.6
SO4: 107.2 HCO3: 11.7 Cl: 7.3 NO3: 0.6 F: 1.9
Sum Cations: 129.2 Sum Anions: 128.7 Cations/Anions: 1.00 Tot. P: 2.9
Tot. Al: 40.9 Ext. Al: 9.9 Fe: 8.0 Mn: 26.0 SiO2: 1.21

ID: 1A1-014 Name: WILMURT LAKE State: NY Date: 30OCT84
Sample Type: REGULAR Latitude: 43-25'45"N Longitude: 74-43'30"W
Elevation: 752 Surface Temp: 11.4 Stratified: MIXED Site Depth: 4.3
Lake Area: 39 Watershed Area: 259 WA/LA: 6.7 Hydro Type: DRAINAGE
Residence Time: 0.38 Secchi Depth: 4.5 Turbidity: 0.2 Color: 10
Closed pH: 6.41 Equil. pH: 6.69 ANC: 39.5 DOC: 2.18
Closed DIC: 0.69 Equil. DIC: 0.45 Meas. Cond: 17.6 Cal. Cond: 19.6
Ca: 86.9 Mg: 31.2 Na: 22.0 K: 4.1 NH4: 1.8
SO4: 107.6 HCO3: 38.6 Cl: 7.3 NO3: 3.0 F: 1.6
Sum Cations: 146.2 Sum Anions: 158.1 Cations/Anions: 0.92 Tot. P: 2.9
Tot. Al: 187.8 Ext. Al: 9.9 Fe: 1.0 Mn: 0.0 SiO2: 2.56

ID: 1A1-015 Name: HENDERSON LAKE State: NY Date: 12OCT84
Sample Type: REG/SPC/NRC/ Latitude: 44-05'15"N Longitude: 74-04'00"W
Elevation: 553 Surface Temp: 11.8 Stratified: WEAK Site Depth: 19.2
Lake Area: 104 Watershed Area: 4333 WA/LA: 41.8 Hydro Type: DRAINAGE
Residence Time: 0.41 Secchi Depth: 4.9 Turbidity: 0.4 Color: 20
Closed pH: 5.94 Equil. pH: 6.22 ANC: 18.9 DOC: 2.68
Closed DIC: 0.54 Equil. DIC: 0.26 Meas. Cond: 22.4 Cal. Cond: 21.5
Ca: 108.8 Mg: 23.5 Na: 26.7 K: 3.3 NH4: 1.7
SO4: 121.0 HCO3: 13.1 Cl: 6.4 NO3: 12.6 F: 0.9
Sum Cations: 165.0 Sum Anions: 154.1 Cations/Anions: 1.07 Tot. P: 0.0
Tot. Al: 253.9 Ext. Al: 34.2 Fe: 9.0 Mn: 12.0 SiO2: 5.50

ID: 1A1-016 Name: RAVEN LAKE State: NY Date: 25OCT84
Sample Type: REGULAR Latitude: 43-55'45"N Longitude: 75-02'00"W
Elevation: 588 Surface Temp: 11.9 Stratified: MIXED Site Depth: 13.0
Lake Area: 52 Watershed Area: 671 WA/LA: 13.0 Hydro Type: DRAINAGE
Residence Time: 0.60 Secchi Depth: 5.5 Turbidity: 0.3 Color: 15
Closed pH: 4.62 Equil. pH: 4.63 ANC: -7.8 DOC: 2.05
Closed DIC: 0.25 Equil. DIC: 0.14 Meas. Cond: 24.5 Cal. Cond: 23.9
Ca: 44.5 Mg: 13.4 Na: 15.1 K: 6.5 NH4: 1.1
SO4: 115.8 HCO3: 0.5 Cl: 10.0 NO3: 16.0 F: 3.1
Sum Cations: 102.9 Sum Anions: 145.3 Cations/Anions: 0.71 Tot. P: 0.0
Tot. Al: 516.1 Ext. Al: 246.9 Fe: 38.0 Mn: 50.0 SiO2: 1.55

ID: 1A1-017 Name: CONSTABLE POND State: NY Date: 14OCT84
Sample Type: REGULAR Latitude: 43-50'00"N Longitude: 74-47'45"W
Elevation: 582 Surface Temp: 12.3 Stratified: MIXED Site Depth: 4.3
Lake Area: 21 Watershed Area: 966 WA/LA: 45.3 Hydro Type: DRAINAGE
Residence Time: 0.06 Secchi Depth: 4.0 Turbidity: 0.5 Color: 20
Closed pH: 4.72 Equil. pH: 5.01 ANC: -1.4 DOC: 3.49
Closed DIC: 0.30 Equil. DIC: 0.13 Meas. Cond: 27.1 Cal. Cond: 24.4
Ca: 84.5 Mg: 24.7 Na: 24.8 K: 8.2 NH4: 3.0
SO4: 146.5 HCO3: 1.9 Cl: 9.2 NO3: 3.1 F: 4.0
Sum Cations: 153.9 Sum Anions: 164.8 Cations/Anions: 0.93 Tot. P: 0.0
Tot. Al: 272.2 Ext. Al: 149.7 Fe: 137.0 Mn: 54.0 SiO2: 2.29

(continued)

TABLE 3-1 (continued)

ID: 1A1-018 Name: GOOSE POND State: NY Date: 14OCT84
Sample Type: REG/SPC/NRC/ Latitude: 43-47'00"N Longitude: 74-54'00"W
Elevation: 540 Surface Temp: 15.0 Stratified: MIXED Site Depth: 0.9
Lake Area: 7 Watershed Area: 101 WA/LA: 13.8 Hydro Type: DRAINAGE
Residence Time: 0.04 Secchi Depth: * Turbidity: 0.2 Color: 10
Closed pH: 5.19 Equil. pH: 5.21 ANC: 3.1 DOC: 4.20
Closed DIC: 0.46 Equil. DIC: 0.14 Meas. Cond: 24.1 Cal. Cond: 22.8
Ca: 95.4 Mg: 24.7 Na: 25.4 K: 2.7 NH4: 1.4
SO4: 143.8 HCO3: 2.7 Cl: 4.4 NO3: 0.6 F: 4.0
Sum Cations: 155.4 Sum Anions: 155.5 Cations/Anions: 1.00 Tot. P: 0.5
Tot. Al: 160.0 Ext. Al: 86.8 Fe: 10.0 Mn: 35.0 SiO2: 1.09

ID: 1A1-019 Name: QUIVER POND State: NY Date: 14OCT84
Sample Type: REGULAR Latitude: 43-44'15"N Longitude: 74-52'15"W
Elevation: 529 Surface Temp: 11.7 Stratified: MIXED Site Depth: 2.4
Lake Area: 7 Watershed Area: 145 WA/LA: 19.9 Hydro Type: DRAINAGE
Residence Time: 0.07 Secchi Depth: 2.4 Turbidity: 0.9 Color: 80
Closed pH: 5.92 Equil. pH: 6.55 ANC: 37.1 DOC: 6.18
Closed DIC: 1.17 Equil. DIC: 0.38 Meas. Cond: 21.0 Cal. Cond: 19.1
Ca: 85.9 Mg: 27.8 Na: 26.7 K: 8.1 NH4: 17.4
SO4: 80.6 HCO3: 25.9 Cl: 15.9 NO3: 1.9 F: 2.3
Sum Cations: 166.6 Sum Anions: 126.6 Cations/Anions: 1.32 Tot. P: 4.3
Tot. Al: 87.3 Ext. Al: 10.4 Fe: 872.0 Mn: 12.0 SiO2: 0.45

ID: 1A1-020 Name: FOURTH LAKE (BISBY LAKES) State: NY Date: 16OCT84
Sample Type: REGULAR Latitude: 43-34'15"N Longitude: 74-58'15"W
Elevation: 609 Surface Temp: 12.7 Stratified: MIXED Site Depth: 8.5
Lake Area: 23 Watershed Area: 259 WA/LA: 11.5 Hydro Type: DRAINAGE
Residence Time: 0.45 Secchi Depth: 5.0 Turbidity: 0.2 Color: 30
Closed pH: 5.47 Equil. pH: 5.85 ANC: 16.6 DOC: 4.17
Closed DIC: 0.63 Equil. DIC: 0.23 Meas. Cond: 19.9 Cal. Cond: 18.6
Ca: 83.7 Mg: 25.6 Na: 23.3 K: 7.0 NH4: 3.4
SO4: 105.4 HCO3: 6.9 Cl: 7.8 NO3: 2.2 F: 2.8
Sum Cations: 145.0 Sum Anions: 125.2 Cations/Anions: 1.16 Tot. P: 2.9
Tot. Al: 203.3 Ext. Al: 84.3 Fe: 109.0 Mn: 31.0 SiO2: 1.76

ID: 1A1-021 Name: WOLF POND State: NY Date: 11OCT84
Sample Type: REGULAR Latitude: 44-39'00"N Longitude: 74-03'30"W
Elevation: 460 Surface Temp: 11.9 Stratified: WEAK Site Depth: 11.9
Lake Area: 17 Watershed Area: 171 WA/LA: 10.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.8 Turbidity: 0.4 Color: 20
Closed pH: 6.66 Equil. pH: 7.29 ANC: 120.4 DOC: 2.47
Closed DIC: 1.70 Equil. DIC: 1.48 Meas. Cond: 22.6 Cal. Cond: 23.6
Ca: 24.2 Mg: 10.3 Na: 178.8 K: 4.6 NH4: 1.4
SO4: 79.7 HCO3: 116.0 Cl: 5.9 NO3: 1.6 F: 1.1
Sum Cations: 219.3 Sum Anions: 204.3 Cations/Anions: 1.07 Tot. P: 6.0
Tot. Al: 33.6 Ext. Al: 4.1 Fe: 9.0 Mn: 8.0 SiO2: 0.08

ID: 1A1-023 Name: CLEAR POND State: NY Date: 11OCT84
Sample Type: REGULAR Latitude: 44-29'15"N Longitude: 74-09'30"W
Elevation: 505 Surface Temp: 11.6 Stratified: WEAK Site Depth: 12.8
Lake Area: 40 Watershed Area: 264 WA/LA: 6.6 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 3.2 Turbidity: 0.6 Color: 20
Closed pH: 6.88 Equil. pH: 6.72 ANC: 184.6 DOC: 3.74
Closed DIC: 2.30 Equil. DIC: 2.09 Meas. Cond: 33.4 Cal. Cond: 35.3
Ca: 177.1 Mg: 87.5 Na: 40.5 K: 11.6 NH4: 1.4
SO4: 110.0 HCO3: 165.1 Cl: 10.1 NO3: 0.4 F: 2.5
Sum Cations: 318.2 Sum Anions: 288.2 Cations/Anions: 1.10 Tot. P: 2.7
Tot. Al: 16.0 Ext. Al: 3.5 Fe: 48.0 Mn: 13.0 SiO2: 1.17

(continued)

TABLE 3-1 (continued)

ID: 1A1-024 Name: SILVER LAKE State: NY Date: 12OCT84
Sample Type: REGULAR Latitude: 44-30'30"N Longitude: 73-52'30"W
Elevation: 425 Surface Temp: 12.6 Stratified: MIXED Site Depth: 14.6
Lake Area: 322 Watershed Area: 1290 WA/LA: 4.0 Hydro Type: DRAINAGE
Residence Time: 4.03 Secchi Depth: 6.0 Turbidity: 0.2 Color: 10
Closed pH: 7.00 Equil. pH: 7.50 ANC: 188.7 DOC: 3.00
Closed DIC: 2.47 Equil. DIC: 2.18 Meas. Cond: 40.4 Cal. Cond: 42.9
Ca: 202.7 Mg: 104.3 Na: 50.6 K: 11.6 NH4: 1.6
SO4: 153.8 HCO3: 173.5 Cl: 19.8 NO3: 0.4 F: 3.0
Sum Cations: 370.9 Sum Anions: 350.8 Cations/Anions: 1.06 Tot. P: 2.4
Tot. Al: 8.9 Ext. Al: 3.3 Fe: 0.0 Mn: 8.0 SiO2: 1.07

ID: 1A1-025 Name: MOUNTAIN POND State: NY Date: 11OCT84
Sample Type: REGULAR Latitude: 44-28'30"N Longitude: 74-16'30"W
Elevation: 502 Surface Temp: 11.2 Stratified: MIXED Site Depth: 5.8
Lake Area: 23 Watershed Area: 181 WA/LA: 8.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.3 Turbidity: 0.3 Color: 40
Closed pH: 6.43 Equil. pH: 6.91 ANC: 71.0 DOC: 5.96
Closed DIC: 1.20 Equil. DIC: 0.71 Meas. Cond: 51.4 Cal. Cond: 53.6
Ca: 158.7 Mg: 56.5 Na: 226.0 K: 9.5 NH4: 1.5
SO4: 136.0 HCO3: 49.5 Cl: 205.1 NO3: 0.0 F: 3.4
Sum Cations: 452.4 Sum Anions: 393.9 Cations/Anions: 1.15 Tot. P: 9.4
Tot. Al: 101.5 Ext. Al: 15.7 Fe: 143.0 Mn: 16.5 SiO2: 2.75

ID: 1A1-027 Name: LITTLE CLEAR POND State: NY Date: 11OCT84
Sample Type: REGULAR Latitude: 44-21'45"N Longitude: 74-17'00"W
Elevation: 487 Surface Temp: 12.7 Stratified: WEAK Site Depth: 13.1
Lake Area: 143 Watershed Area: 619 WA/LA: 4.3 Hydro Type: DRAINAGE
Residence Time: 2.33 Secchi Depth: 4.7 Turbidity: 0.2 Color: 10
Closed pH: 7.12 Equil. pH: 7.68 ANC: 272.7 DOC: 2.21
Closed DIC: 3.08 Equil. DIC: 3.15 Meas. Cond: 41.1 Cal. Cond: 42.7
Ca: 220.6 Mg: 109.0 Na: 53.9 K: 12.2 NH4: 1.1
SO4: 104.0 HCO3: 242.6 Cl: 10.6 NO3: 0.0 F: 2.4
Sum Cations: 396.8 Sum Anions: 360.2 Cations/Anions: 1.10 Tot. P: 7.4
Tot. Al: 84.8 Ext. Al: 5.2 Fe: 8.0 Mn: 1.0 SiO2: 7.78

ID: 1A1-028 Name: DRY CHANNEL POND State: NY Date: 11OCT84
Sample Type: REGULAR Latitude: 44-21'10"N Longitude: 74-26'15"W
Elevation: 497 Surface Temp: 11.7 Stratified: MIXED Site Depth: 2.4
Lake Area: 27 Watershed Area: 207 WA/LA: 7.6 Hydro Type: DRAINAGE
Residence Time: 0.26 Secchi Depth: 3.0 Turbidity: 0.4 Color: 15
Closed pH: 5.51 Equil. pH: 5.63 ANC: 7.5 DOC: 3.93
Closed DIC: 0.33 Equil. DIC: 0.21 Meas. Cond: 20.5 Cal. Cond: 20.5
Ca: 91.2 Mg: 22.4 Na: 22.1 K: 3.1 NH4: 1.7
SO4: 130.4 HCO3: 2.9 Cl: 6.2 NO3: 0.1 F: 1.2
Sum Cations: 144.2 Sum Anions: 140.8 Cations/Anions: 1.02 Tot. P: 4.1
Tot. Al: 117.2 Ext. Al: 29.9 Fe: 0.0 Mn: 2.0 SiO2: 0.21

ID: 1A1-029 Name: MIDDLE POND State: NY Date: 11OCT84
Sample Type: REGULAR Latitude: 44-20'20"N Longitude: 74-22'45"W
Elevation: 484 Surface Temp: 11.1 Stratified: MIXED Site Depth: 1.8
Lake Area: 24 Watershed Area: 186 WA/LA: 7.8 Hydro Type: DRAINAGE
Residence Time: 0.19 Secchi Depth: 1.9 Turbidity: 0.6 Color: 40
Closed pH: 6.90 Equil. pH: 7.26 ANC: 121.5 DOC: 5.97
Closed DIC: 1.37 Equil. DIC: 1.31 Meas. Cond: 31.1 Cal. Cond: 31.7
Ca: 170.4 Mg: 52.4 Na: 45.7 K: 8.7 NH4: 0.3
SO4: 125.2 HCO3: 104.8 Cl: 13.1 NO3: 0.0 F: 2.0
Sum Cations: 277.6 Sum Anions: 245.2 Cations/Anions: 1.13 Tot. P: 7.2
Tot. Al: 74.6 Ext. Al: 9.8 Fe: 42.0 Mn: 0.0 SiO2: 2.54

(continued)

TABLE 3-1 (continued)

ID: 1A1-030 Name: LAKE CLEAR OUTLET State: NY Date: 12OCT84
Sample Type: REGULAR Latitude: 44-20'50"N Longitude: 74-15'45"W
Elevation: 491 Surface Temp: 10.6 Stratified: MIXED Site Depth: 1.8
Lake Area: 47 Watershed Area: 3090 WA/LA: 66.2 Hydro Type: DRAINAGE
Residence Time: 0.02 Secchi Depth: 1.4 Turbidity: 0.8 Color: 45
Closed pH: 6.87 Equil. pH: 7.56 ANC: 209.3 DOC: 7.04
Closed DIC: 2.73 Equil. DIC: 2.18 Meas. Cond: 44.0 Cal. Cond: 46.0
Ca: 214.5 Mg: 108.6 Na: 87.0 K: 12.5 NH4: 1.0
SO4: 113.4 HCO3: 172.3 Cl: 68.4 NO3: 0.0 F: 2.3
Sum Cations: 423.6 Sum Anions: 356.6 Cations/Anions: 1.19 Tot. P: 4.4
Tot. Al: 52.5 Ext. Al: 4.6 Fe: 148.0 Mn: 7.0 SiO2: 2.65

ID: 1A1-031 Name: JOCKS POND State: NY Date: 13OCT84
Sample Type: REGULAR Latitude: 44-17'30"N Longitude: 74-40'00"W
Elevation: 468 Surface Temp: 11.5 Stratified: MIXED Site Depth: 3.7
Lake Area: 16 Watershed Area: 111 WA/LA: 6.9 Hydro Type: DRAINAGE
Residence Time: 0.44 Secchi Depth: 2.6 Turbidity: 0.5 Color: 40
Closed pH: 7.01 Equil. pH: 7.48 ANC: 192.1 DOC: 6.55
Closed DIC: 2.38 Equil. DIC: 2.09 Meas. Cond: 54.8 Cal. Cond: 57.1
Ca: 264.0 Mg: 122.6 Na: 92.1 K: 10.5 NH4: 1.7
SO4: 116.5 HCO3: 177.3 Cl: 156.4 NO3: 0.0 F: 3.1
Sum Cations: 490.9 Sum Anions: 453.6 Cations/Anions: 1.08 Tot. P: 5.1
Tot. Al: 25.2 Ext. Al: 5.7 Fe: 35.0 Mn: 3.0 SiO2: 2.89

ID: 1A1-032 Name: LOST POND State: NY Date: 13OCT84
Sample Type: REGULAR Latitude: 44-16'30"N Longitude: 74-29'15"W
Elevation: 483 Surface Temp: 12.3 Stratified: MIXED Site Depth: 1.5
Lake Area: 11 Watershed Area: 57 WA/LA: 5.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.7 Turbidity: 0.8 Color: 20
Closed pH: 7.06 Equil. pH: 7.42 ANC: 158.0 DOC: 5.72
Closed DIC: 1.98 Equil. DIC: 1.77 Meas. Cond: 32.9 Cal. Cond: 33.5
Ca: 193.4 Mg: 51.6 Na: 46.4 K: 7.4 NH4: 1.6
SO4: 109.9 HCO3: 148.3 Cl: 9.2 NO3: 0.3 F: 2.3
Sum Cations: 300.6 Sum Anions: 270.2 Cations/Anions: 1.11 Tot. P: 7.8
Tot. Al: 22.0 Ext. Al: 3.5 Fe: 30.5 Mn: 0.0 SiO2: 0.84

ID: 1A1-033 Name: KIWASSA LAKE State: NY Date: 13OCT84
Sample Type: REGULAR Latitude: 44-17'45"N Longitude: 74-09'30"W
Elevation: 466 Surface Temp: 13.5 Stratified: MIXED Site Depth: 7.3
Lake Area: 115 Watershed Area: 515 WA/LA: 4.5 Hydro Type: DRAINAGE
Residence Time: 1.09 Secchi Depth: 4.9 Turbidity: 0.3 Color: 10
Closed pH: 6.90 Equil. pH: 7.48 ANC: 189.3 DOC: 3.80
Closed DIC: 2.62 Equil. DIC: 2.14 Meas. Cond: 44.9 Cal. Cond: 45.9
Ca: 221.4 Mg: 79.2 Na: 87.2 K: 9.4 NH4: 1.7
SO4: 125.3 HCO3: 182.8 Cl: 66.5 NO3: 0.3 F: 1.7
Sum Cations: 399.0 Sum Anions: 376.9 Cations/Anions: 1.06 Tot. P: 4.3
Tot. Al: 11.0 Ext. Al: 5.3 Fe: 23.0 Mn: 12.0 SiO2: 1.03

ID: 1A1-034 Name: SILVER LAKE State: NY Date: 13OCT84
Sample Type: REGULAR Latitude: 44-13'30"N Longitude: 74-49'30"W
Elevation: 452 Surface Temp: 12.9 Stratified: MIXED Site Depth: 4.8
Lake Area: 45 Watershed Area: 127 WA/LA: 2.8 Hydro Type: DRAINAGE
Residence Time: 1.20 Secchi Depth: 3.6 Turbidity: 0.5 Color: 10
Closed pH: 7.42 Equil. pH: 7.66 ANC: 236.6 DOC: 3.63
Closed DIC: 2.65 Equil. DIC: 2.64 Meas. Cond: 81.3 Cal. Cond: 72.0
Ca: 270.9 Mg: 88.3 Na: 311.0 K: 21.2 NH4: 1.4
SO4: 103.6 HCO3: 221.8 Cl: 201.6 NO3: 0.3 F: 5.6
Sum Cations: 693.0 Sum Anions: 533.4 Cations/Anions: 1.30 Tot. P: 3.4
Tot. Al: 47.4 Ext. Al: 2.5 Fe: 23.0 Mn: 3.0 SiO2: 4.53

(continued)

TABLE 3-1 (continued)

ID: 1A1-035 Name: PIERCEFIELD FLOW State: NY Date: 13OCT84
Sample Type: REGULAR Latitude: 44-13'45"N Longitude: 74-33'00"W
Elevation: 469 Surface Temp: 13.5 Stratified: MIXED Site Depth: 1.8
Lake Area: 137 Watershed Area: 180223 WA/LA: 1316.5 Hydro Type: DRAINAGE
Residence Time: 0.00 Secchi Depth: 2.0 Turbidity: 0.5 Color: 30
Closed pH: 6.67 Equil. pH: 7.27 ANC: 112.6 DOC: 4.62
Closed DIC: 1.79 Equil. DIC: 1.19 Meas. Cond: 34.8 Cal. Cond: 34.5
Ca: 170.8 Mg: 55.0 Na: 57.9 K: 9.9 NH4: 3.7
SO4: 122.8 HCO3: 104.0 Cl: 30.8 NO3: 6.7 F: 3.3
Sum Cations: 297.4 Sum Anions: 267.8 Cations/Anions: 1.11 Tot. P: 7.6
Tot. Al: 87.4 Ext. Al: 9.5 Fe: 102.0 Mn: 19.0 SiO2: 5.84

ID: 1A1-037 Name: BLACK POND State: NY Date: 13OCT84
Sample Type: REGULAR Latitude: 44-09'00"N Longitude: 74-35'30"W
Elevation: 540 Surface Temp: 9.3 Stratified: MIXED Site Depth: 9.1
Lake Area: 7 Watershed Area: 109 WA/LA: 15.1 Hydro Type: DRAINAGE
Residence Time: 0.52 Secchi Depth: 0.5 Turbidity: 0.6 Color: 150
Closed pH: 5.12 Equil. pH: 5.54 ANC: 19.0 DOC: 11.45
Closed DIC: 3.06 Equil. DIC: 0.15 Meas. Cond: 18.0 Cal. Cond: 15.5
Ca: 61.5 Mg: 24.8 Na: 28.8 K: 15.4 NH4: 1.4
SO4: 61.1 HCO3: 9.9 Cl: 9.7 NO3: 0.1 F: 3.8
Sum Cations: 136.2 Sum Anions: 84.6 Cations/Anions: 1.61 Tot. P: 8.2
Tot. Al: 111.1 Ext. Al: 10.3 Fe: 430.0 Mn: 37.0 SiO2: 2.69

ID: 1A1-038 Name: NICKS POND State: NY Date: 24OCT84
Sample Type: REG/SPC/NRC/ Latitude: 44-08'35"N Longitude: 74-58'05"W
Elevation: 515 Surface Temp: 12.0 Stratified: MIXED Site Depth: 6.1
Lake Area: 6 Watershed Area: 41 WA/LA: 7.2 Hydro Type: DRAINAGE
Residence Time: 0.58 Secchi Depth: 3.5 Turbidity: 0.7 Color: 20
Closed pH: 6.74 Equil. pH: 7.18 ANC: 106.4 DOC: 3.47
Closed DIC: 1.52 Equil. DIC: 1.24 Meas. Cond: 24.1 Cal. Cond: 25.7
Ca: 117.6 Mg: 81.8 Na: 18.7 K: 4.4 NH4: 1.2
SO4: 101.7 HCO3: 88.1 Cl: 7.5 NO3: 0.5 F: 5.5
Sum Cations: 223.8 Sum Anions: 203.4 Cations/Anions: 1.10 Tot. P: 3.4
Tot. Al: 55.6 Ext. Al: 13.9 Fe: 229.0 Mn: 10.0 SiO2: 0.61

ID: 1A1-039 Name: JOHN POND State: NY Date: 13OCT84
Sample Type: REGULAR Latitude: 44-06'45"N Longitude: 74-45'50"W
Elevation: 546 Surface Temp: 12.6 Stratified: MIXED Site Depth: 7.0
Lake Area: 6 Watershed Area: 36 WA/LA: 6.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.7 Turbidity: 0.0 Color: 10
Closed pH: 5.21 Equil. pH: 5.34 ANC: 1.9 DOC: 0.67
Closed DIC: 0.28 Equil. DIC: 0.13 Meas. Cond: 20.9 Cal. Cond: 19.4
Ca: 74.8 Mg: 18.7 Na: 18.3 K: 5.9 NH4: 2.7
SO4: 124.6 HCO3: 2.6 Cl: 6.3 NO3: 2.0 F: 2.0
Sum Cations: 125.0 Sum Anions: 137.6 Cations/Anions: 0.91 Tot. P: 0.7
Tot. Al: 134.0 Ext. Al: 38.2 Fe: 14.0 Mn: 53.0 SiO2: 0.39

ID: 1A1-040 Name: HITCHENS POND State: NY Date: 13OCT84
Sample Type: REGULAR Latitude: 44-06'30"N Longitude: 74-40'00"W
Elevation: 524 Surface Temp: 12.5 Stratified: MIXED Site Depth: 9.1
Lake Area: 54 Watershed Area: 11541 WA/LA: 212.1 Hydro Type: DRAINAGE
Residence Time: 0.03 Secchi Depth: 1.7 Turbidity: 2.1 Color: 80
Closed pH: 6.58 Equil. pH: 7.21 ANC: 115.7 DOC: 6.48
Closed DIC: 1.80 Equil. DIC: 1.19 Meas. Cond: 27.0 Cal. Cond: 25.7
Ca: 139.0 Mg: 55.3 Na: 37.2 K: 7.6 NH4: 1.6
SO4: 79.8 HCO3: 103.4 Cl: 8.2 NO3: 0.9 F: 4.0
Sum Cations: 240.8 Sum Anions: 196.4 Cations/Anions: 1.23 Tot. P: 7.7
Tot. Al: 47.1 Ext. Al: 7.2 Fe: 243.0 Mn: 25.0 SiO2: 4.80

(continued)

TABLE 3-1 (continued)

ID: 1A1-041 Name: LEDGE POND State: NY Date: 18OCT84
Sample Type: REGULAR Latitude: 44-05'40"N Longitude: 73-39'55"W
Elevation: 375 Surface Temp: 12.5 Stratified: MIXED Site Depth: 3.0
Lake Area: 5 Watershed Area: 456 WA/LA: 91.2 Hydro Type: DRAINAGE
Residence Time: 0.04 Secchi Depth: 3.0 Turbidity: 0.5 Color: 25
Closed pH: 6.73 Equil. pH: 7.26 ANC: 111.6 DOC: 3.37
Closed DIC: 1.71 Equil. DIC: 1.27 Meas. Cond: 29.1 Cal. Cond: 29.7
Ca: 169.2 Mg: 47.8 Na: 30.3 K: 3.2 NH4: 1.1
SO4: 116.1 HCO3: 112.0 Cl: 11.8 NO3: 0.2 F: 1.0
Sum Cations: 251.7 Sum Anions: 241.2 Cations/Anions: 1.04 Tot. P: 12.2
Tot. Al: 58.0 Ext. Al: 0.0 Fe: 32.0 Mn: 5.5 SiO2: 0.59

ID: 1A1-042 Name: LOWS LAKE State: NY Date: 25OCT84
Sample Type: REGULAR Latitude: 44-05'00"N Longitude: 74-45'30"W
Elevation: 530 Surface Temp: 9.9 Stratified: MIXED Site Depth: 1.2
Lake Area: 1019 Watershed Area: 7392 WA/LA: 7.3 Hydro Type: DRAINAGE
Residence Time: 0.11 Secchi Depth: 1.1 Turbidity: 2.4 Color: 45
Closed pH: 6.28 Equil. pH: 6.81 ANC: 54.6 DOC: 5.13
Closed DIC: 1.02 Equil. DIC: 0.55 Meas. Cond: 19.6 Cal. Cond: 20.7
Ca: 95.7 Mg: 34.5 Na: 32.1 K: 8.8 NH4: 4.7
SO4: 93.2 HCO3: 43.1 Cl: 8.3 NO3: 2.3 F: 3.9
Sum Cations: 176.2 Sum Anions: 150.9 Cations/Anions: 1.17 Tot. P: 12.6
Tot. Al: 78.6 Ext. Al: 12.2 Fe: 53.0 Mn: 22.0 SiO2: 1.06

ID: 1A1-043 Name: LITTLE TUPPER LAKE State: NY Date: 25OCT84
Sample Type: REGULAR Latitude: 44-02'22"N Longitude: 74-36'40"W
Elevation: 523 Surface Temp: 11.7 Stratified: MIXED Site Depth: 4.6
Lake Area: 923 Watershed Area: 10394 WA/LA: 11.3 Hydro Type: DRAINAGE
Residence Time: 0.29 Secchi Depth: 2.3 Turbidity: 1.4 Color: 35
Closed pH: 6.42 Equil. pH: 6.90 ANC: 67.4 DOC: 5.34
Closed DIC: 1.16 Equil. DIC: 0.65 Meas. Cond: 24.2 Cal. Cond: 26.9
Ca: 132.8 Mg: 44.5 Na: 37.5 K: 11.1 NH4: 1.2
SO4: 123.9 HCO3: 54.2 Cl: 13.9 NO3: 1.5 F: 4.6
Sum Cations: 227.3 Sum Anions: 198.1 Cations/Anions: 1.15 Tot. P: 6.2
Tot. Al: 65.5 Ext. Al: 7.1 Fe: 57.0 Mn: 30.0 SiO2: 4.02

ID: 1A1-044 Name: LONG LAKE State: NY Date: 15OCT84
Sample Type: REGULAR Latitude: 44-02'30"N Longitude: 74-22'00"W
Elevation: 496 Surface Temp: 13.5 Stratified: MIXED Site Depth: 5.5
Lake Area: 1619 Watershed Area: 75387 WA/LA: 46.6 Hydro Type: DRAINAGE
Residence Time: 0.09 Secchi Depth: 5.2 Turbidity: 0.2 Color: 20
Closed pH: 6.87 Equil. pH: 7.10 ANC: 84.2 DOC: 3.91
Closed DIC: 1.05 Equil. DIC: 0.92 Meas. Cond: 33.2 Cal. Cond: 32.6
Ca: 143.2 Mg: 49.6 Na: 64.2 K: 10.3 NH4: 2.4
SO4: 129.8 HCO3: 73.4 Cl: 43.1 NO3: 0.6 F: 5.0
Sum Cations: 269.9 Sum Anions: 252.0 Cations/Anions: 1.07 Tot. P: 0.7
Tot. Al: 42.3 Ext. Al: 1.2 Fe: 87.5 Mn: 3.5 SiO2: 3.83

ID: 1A1-046 Name: PARTLOW LAKE State: NY Date: 25OCT84
Sample Type: REGULAR Latitude: 44-00'15"N Longitude: 74-50'00"W
Elevation: 534 Surface Temp: 11.3 Stratified: MIXED Site Depth: 6.4
Lake Area: 30 Watershed Area: 280 WA/LA: 9.3 Hydro Type: DRAINAGE
Residence Time: 0.48 Secchi Depth: 2.6 Turbidity: 0.7 Color: 40
Closed pH: 6.32 Equil. pH: 6.91 ANC: 68.1 DOC: 5.10
Closed DIC: 1.31 Equil. DIC: 0.68 Meas. Cond: 24.1 Cal. Cond: 25.2
Ca: 124.4 Mg: 36.7 Na: 34.1 K: 12.0 NH4: 5.5
SO4: 111.3 HCO3: 55.9 Cl: 9.7 NO3: 4.9 F: 5.6
Sum Cations: 212.9 Sum Anions: 187.4 Cations/Anions: 1.14 Tot. P: 4.1
Tot. Al: 293.0 Ext. Al: 19.4 Fe: 154.0 Mn: 54.0 SiO2: 3.89

(continued)

TABLE 3-1 (continued)

ID: 1A1-047 Name: MUD POND State: NY Date: 15OCT84
Sample Type: REGULAR Latitude: 44-01'00"N Longitude: 74-25'20"W
Elevation: 522 Surface Temp: 12.4 Stratified: MIXED Site Depth: 7.0
Lake Area: 27 Watershed Area: 1904 WA/LA: 71.0 Hydro Type: DRAINAGE
Residence Time: 0.07 Secchi Depth: 3.0 Turbidity: 0.6 Color: 10
Closed pH: 6.92 Equil. pH: 7.44 ANC: 166.2 DOC: 3.78
Closed DIC: 2.15 Equil. DIC: 1.79 Meas. Cond: 34.2 Cal. Cond: 36.0
Ca: 220.5 Mg: 54.7 Na: 42.2 K: 8.5 NH4: 1.4
SO4: 120.0 HCO3: 143.5 Cl: 9.5 NO3: 1.7 F: 4.2
Sum Cations: 327.4 Sum Anions: 279.2 Cations/Anions: 1.17 Tot. P: 0.8
Tot. Al: 58.2 Ext. Al: 5.5 Fe: 103.0 Mn: 5.0 SiO2: 4.81

ID: 1A1-049 Name: MIDDLE SOUTH POND State: NY Date: 25OCT84
Sample Type: REGULAR Latitude: 43-59'22"N Longitude: 75-01'06"W
Elevation: 604 Surface Temp: 11.2 Stratified: MIXED Site Depth: 2.2
Lake Area: 21 Watershed Area: 148 WA/LA: 7.1 Hydro Type: DRAINAGE
Residence Time: 0.18 Secchi Depth: 2.5 Turbidity: 0.5 Color: 10
Closed pH: 4.66 Equil. pH: 4.67 ANC: -18.4 DOC: 0.90
Closed DIC: 0.38 Equil. DIC: 0.14 Meas. Cond: 24.7 Cal. Cond: 25.0
Ca: 48.6 Mg: 16.2 Na: 15.6 K: 6.9 NH4: 4.9
SO4: 130.6 HCO3: 0.5 Cl: 7.8 NO3: 9.5 F: 3.2
Sum Cations: 114.1 Sum Anions: 151.7 Cations/Anions: 0.75 Tot. P: 2.1
Tot. Al: 354.6 Ext. Al: 220.6 Fe: 20.0 Mn: 38.0 SiO2: 0.29

ID: 1A1-050 Name: ROCK LAKE State: NY Date: 25OCT84
Sample Type: REGULAR Latitude: 43-58'00"N Longitude: 74-52'00"W
Elevation: 546 Surface Temp: 12.0 Stratified: MIXED Site Depth: 5.8
Lake Area: 78 Watershed Area: 544 WA/LA: 7.0 Hydro Type: DRAINAGE
Residence Time: 0.57 Secchi Depth: 5.3 Turbidity: 0.3 Color: 10
Closed pH: 5.77 Equil. pH: 6.13 ANC: 16.2 DOC: 2.28
Closed DIC: 0.48 Equil. DIC: 0.20 Meas. Cond: 19.7 Cal. Cond: 21.3
Ca: 88.7 Mg: 28.3 Na: 27.1 K: 8.7 NH4: 1.5
SO4: 130.3 HCO3: 9.6 Cl: 8.0 NO3: 4.2 F: 3.5
Sum Cations: 155.6 Sum Anions: 155.5 Cations/Anions: 1.00 Tot. P: 0.0
Tot. Al: 94.5 Ext. Al: 26.5 Fe: 24.0 Mn: 20.0 SiO2: 2.16

ID: 1A1-051 Name: SUTTON POND State: NY Date: 25OCT84
Sample Type: REGULAR Latitude: 43-57'20"N Longitude: 74-36'00"W
Elevation: 550 Surface Temp: 11.7 Stratified: MIXED Site Depth: 3.4
Lake Area: 11 Watershed Area: 127 WA/LA: 11.1 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 2.5 Turbidity: 0.6 Color: 20
Closed pH: 6.36 Equil. pH: 6.64 ANC: 39.2 DOC: 3.88
Closed DIC: 0.57 Equil. DIC: 0.42 Meas. Cond: 22.8 Cal. Cond: 24.5
Ca: 111.9 Mg: 35.0 Na: 33.3 K: 12.0 NH4: 0.7
SO4: 135.9 HCO3: 28.6 Cl: 9.4 NO3: 0.8 F: 5.8
Sum Cations: 193.3 Sum Anions: 180.5 Cations/Anions: 1.07 Tot. P: 5.7
Tot. Al: 47.9 Ext. Al: 5.4 Fe: 0.0 Mn: 4.0 SiO2: 1.58

ID: 1A1-052 Name: ARBUTUS POND State: NY Date: 15OCT84
Sample Type: REGULAR Latitude: 43-59'15"N Longitude: 74-14'30"W
Elevation: 513 Surface Temp: 12.5 Stratified: MIXED Site Depth: 4.5
Lake Area: 49 Watershed Area: 342 WA/LA: 6.9 Hydro Type: DRAINAGE
Residence Time: 0.45 Secchi Depth: 4.6 Turbidity: 0.3 Color: 20
Closed pH: 6.76 Equil. pH: 7.08 ANC: 75.2 DOC: 3.92
Closed DIC: 1.04 Equil. DIC: 0.85 Meas. Cond: 29.9 Cal. Cond: 28.7
Ca: 148.3 Mg: 44.3 Na: 37.4 K: 10.2 NH4: 2.1
SO4: 133.6 HCO3: 59.5 Cl: 13.2 NO3: 0.6 F: 5.1
Sum Cations: 242.4 Sum Anions: 212.1 Cations/Anions: 1.14 Tot. P: 1.9
Tot. Al: 25.5 Ext. Al: 2.1 Fe: 64.0 Mn: 0.0 SiO2: 2.91

(continued)

TABLE 3-1 (continued)

ID: 1A1-053 Name: WOLF POND State: NY Date: 12OCT84
Sample Type: REGULAR Latitude: 43-57'36"N Longitude: 73-55'48"W
Elevation: 557 Surface Temp: 10.9 Stratified: MIXED Site Depth: 3.0
Lake Area: 24 Watershed Area: 1523 WA/LA: 63.7 Hydro Type: DRAINAGE
Residence Time: 0.04 Secchi Depth: 1.5 Turbidity: 0.5 Color: 80
Closed pH: 6.83 Equil. pH: 7.61 ANC: 230.8 DOC: 9.05
Closed DIC: 2.94 Equil. DIC: 2.35 Meas. Cond: 40.3 Cal. Cond: 42.6
Ca: 264.1 Mg: 66.2 Na: 78.1 K: 3.2 NH4: 1.7
SO4: 112.2 HCO3: 203.6 Cl: 11.1 NO3: 2.4 F: 0.8
Sum Cations: 413.4 Sum Anions: 330.5 Cations/Anions: 1.25 Tot. P: 2.4
Tot. Al: 152.0 Ext. Al: 23.9 Fe: 75.0 Mn: 7.0 SiO2: 8.78

ID: 1A1-055 Name: DEER POND State: NY Date: 25OCT84
Sample Type: REGULAR Latitude: 43-55'45"N Longitude: 74-47'00"W
Elevation: 601 Surface Temp: 10.6 Stratified: MIXED Site Depth: 11.0
Lake Area: 18 Watershed Area: 129 WA/LA: 7.4 Hydro Type: DRAINAGE
Residence Time: 1.03 Secchi Depth: 3.8 Turbidity: 0.6 Color: 25
Closed pH: 6.08 Equil. pH: 6.69 ANC: 42.8 DOC: 3.77
Closed DIC: 1.06 Equil. DIC: 0.44 Meas. Cond: 21.3 Cal. Cond: 22.2
Ca: 104.0 Mg: 30.2 Na: 31.1 K: 10.1 NH4: 1.9
SO4: 118.2 HCO3: 28.8 Cl: 8.7 NO3: 2.1 F: 4.2
Sum Cations: 178.0 Sum Anions: 162.0 Cations/Anions: 1.10 Tot. P: 6.1
Tot. Al: 73.7 Ext. Al: 12.9 Fe: 91.0 Mn: 42.0 SiO2: 3.96

ID: 1A1-056 Name: FORKED LAKE State: NY Date: 16OCT84
Sample Type: REGULAR Latitude: 43-54'00"N Longitude: 74-35'00"W
Elevation: 531 Surface Temp: 13.2 Stratified: MIXED Site Depth: 1.8
Lake Area: 514 Watershed Area: 49021 WA/LA: 95.4 Hydro Type: DRAINAGE
Residence Time: 0.01 Secchi Depth: 2.4 Turbidity: 0.4 Color: 35
Closed pH: 6.46 Equil. pH: 6.87 ANC: 56.7 DOC: 3.75
Closed DIC: 0.86 Equil. DIC: 0.63 Meas. Cond: 28.7 Cal. Cond: 29.0
Ca: 134.6 Mg: 45.2 Na: 46.8 K: 12.2 NH4: 1.9
SO4: 134.1 HCO3: 44.8 Cl: 25.3 NO3: 4.0 F: 4.6
Sum Cations: 240.8 Sum Anions: 212.7 Cations/Anions: 1.13 Tot. P: 0.0
Tot. Al: 63.3 Ext. Al: 9.2 Fe: 77.0 Mn: 14.0 SiO2: 4.14

ID: 1A1-057 Name: HITCHCOCK LAKE State: NY Date: 24OCT84
Sample Type: REG/SPC/NRC/ Latitude: 43-51'00"N Longitude: 75-02'30"W
Elevation: 567 Surface Temp: 11.8 Stratified: MIXED Site Depth: 7.0
Lake Area: 15 Watershed Area: 233 WA/LA: 15.3 Hydro Type: DRAINAGE
Residence Time: 0.27 Secchi Depth: 2.1 Turbidity: 0.5 Color: 30
Closed pH: 4.77 Equil. pH: 4.85 ANC: -7.9 DOC: 5.12
Closed DIC: 0.62 Equil. DIC: 0.13 Meas. Cond: 22.5 Cal. Cond: 22.1
Ca: 62.7 Mg: 20.7 Na: 18.0 K: 9.6 NH4: 1.2
SO4: 117.8 HCO3: 1.2 Cl: 7.0 NO3: 0.4 F: 4.0
Sum Cations: 127.3 Sum Anions: 130.4 Cations/Anions: 0.98 Tot. P: 3.9
Tot. Al: 374.9 Ext. Al: 213.0 Fe: 104.0 Mn: 50.0 SiO2: 1.50

ID: 1A1-059 Name: SAGAMORE LAKE State: NY Date: 16OCT84
Sample Type: REGULAR Latitude: 43-46'00"N Longitude: 74-37'30"W
Elevation: 580 Surface Temp: 12.0 Stratified: STRONG Site Depth: 23.8
Lake Area: 67 Watershed Area: 4838 WA/LA: 72.6 Hydro Type: DRAINAGE
Residence Time: 0.20 Secchi Depth: 3.3 Turbidity: 0.3 Color: 55
Closed pH: 6.16 Equil. pH: 6.69 ANC: 51.5 DOC: 5.89
Closed DIC: 0.87 Equil. DIC: 0.47 Meas. Cond: 30.3 Cal. Cond: 28.7
Ca: 140.4 Mg: 54.3 Na: 40.9 K: 10.4 NH4: 1.9
SO4: 147.1 HCO3: 11.9 Cl: 10.6 NO3: 7.2 F: 4.4
Sum Cations: 249.8 Sum Anions: 181.1 Cations/Anions: 1.38 Tot. P: 1.9
Tot. Al: 279.1 Ext. Al: 32.9 Fe: 113.0 Mn: 39.0 SiO2: 7.71

(continued)

TABLE 3-1 (continued)

ID: 1A1-060 Name: SEVENTH L.(FULTON CHAIN) State: NY Date: 14OCT84
Sample Type: REGULAR Latitude: 43-44'45"N Longitude: 74-45'00"W
Elevation: 544 Surface Temp: 13.8 Stratified: STRONG Site Depth: 27.4
Lake Area: 332 Watershed Area: 3740 WA/LA: 11.3 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 6.1 Turbidity: 0.1 Color: 15
Closed pH: 7.08 Equil. pH: 7.37 ANC: 155.0 DOC: 3.90
Closed DIC: 1.85 Equil. DIC: 1.65 Meas. Cond: 47.6 Cal. Cond: 45.9
Ca: 236.3 Mg: 63.8 Na: 78.8 K: 12.5 NH4: 1.4
SO4: 140.6 HCO3: 137.1 Cl: 66.6 NO3: 11.8 F: 3.3
Sum Cations: 392.9 Sum Anions: 359.7 Cations/Anions: 1.09 Tot. P: 0.0
Tot. Al: 90.9 Ext. Al: 14.6 Fe: 27.0 Mn: 0.0 SiO2: 3.81

ID: 1A1-061 Name: WOLF LAKE State: NY Date: 30OCT84
Sample Type: REGULAR Latitude: 43-37'45"N Longitude: 74-39'15"W
Elevation: 791 Surface Temp: 10.5 Stratified: MIXED Site Depth: 6.4
Lake Area: 5 Watershed Area: 207 WA/LA: 46.0 Hydro Type: DRAINAGE
Residence Time: 0.08 Secchi Depth: 4.0 Turbidity: 0.3 Color: 35
Closed pH: 4.48 Equil. pH: 4.46 ANC: -29.0 DOC: 5.83
Closed DIC: 0.63 Equil. DIC: 0.18 Meas. Cond: 31.2 Cal. Cond: 30.0
Ca: 29.1 Mg: 17.7 Na: 18.7 K: 4.2 NH4: 1.6
SO4: 142.9 HCO3: 0.5 Cl: 10.3 NO3: 0.9 F: 1.7
Sum Cations: 110.3 Sum Anions: 156.3 Cations/Anions: 0.71 Tot. P: 2.1
Tot. Al: 753.5 Ext. Al: 301.1 Fe: 172.0 Mn: 31.0 SiO2: 4.44

ID: 1A1-064 Name: MT ARAB LAKE State: NY Date: 13OCT84
Sample Type: REGULAR Latitude: 44-11'18"N Longitude: 74-36'03"W
Elevation: 506 Surface Temp: 13.6 Stratified: MIXED Site Depth: 12.5
Lake Area: 50 Watershed Area: 117 WA/LA: 2.3 Hydro Type: DRAINAGE
Residence Time: 3.65 Secchi Depth: 6.3 Turbidity: 0.2 Color: 10
Closed pH: 7.02 Equil. pH: 7.21 ANC: 89.3 DOC: 2.68
Closed DIC: 1.04 Equil. DIC: 1.01 Meas. Cond: 27.7 Cal. Cond: 26.6
Ca: 134.0 Mg: 40.8 Na: 40.3 K: 7.1 NH4: 0.1
SO4: 105.4 HCO3: 83.1 Cl: 19.8 NO3: 0.2 F: 4.7
Sum Cations: 222.4 Sum Anions: 213.3 Cations/Anions: 1.04 Tot. P: 49.8
Tot. Al: 14.3 Ext. Al: 2.5 Fe: 10.0 Mn: 0.0 SiO2: 0.41

ID: 1A1-065 Name: ROUND POND State: NY Date: 18OCT84
Sample Type: REGULAR Latitude: 44-07'29"N Longitude: 73-44'01"W
Elevation: 525 Surface Temp: 13.0 Stratified: MIXED Site Depth: 7.9
Lake Area: 7 Watershed Area: 135 WA/LA: 18.5 Hydro Type: DRAINAGE
Residence Time: 0.48 Secchi Depth: 3.3 Turbidity: 0.6 Color: 10
Closed pH: 6.94 Equil. pH: 7.06 ANC: 83.1 DOC: 2.23
Closed DIC: 1.15 Equil. DIC: 1.02 Meas. Cond: 21.5 Cal. Cond: 22.5
Ca: 137.3 Mg: 25.1 Na: 25.8 K: 1.2 NH4: 0.9
SO4: 95.7 HCO3: 75.5 Cl: 6.5 NO3: 0.1 F: 0.5
Sum Cations: 190.5 Sum Anions: 178.3 Cations/Anions: 1.07 Tot. P: 3.0
Tot. Al: 22.3 Ext. Al: 0.0 Fe: 2.0 Mn: 1.0 SiO2: 4.06

ID: 1A1-066 Name: WOODHULL LAKE State: NY Date: 16OCT84
Sample Type: REGULAR Latitude: 43-35'30"N Longitude: 74-59'13"W
Elevation: 572 Surface Temp: 13.6 Stratified: STRONG Site Depth: 27.4
Lake Area: 443 Watershed Area: 1821 WA/LA: 4.1 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 8.8 Turbidity: 0.1 Color: 10
Closed pH: 5.43 Equil. pH: 5.59 ANC: 5.8 DOC: 1.78
Closed DIC: 0.38 Equil. DIC: 0.20 Meas. Cond: 20.2 Cal. Cond: 19.8
Ca: 77.4 Mg: 25.1 Na: 23.2 K: 6.6 NH4: 2.0
SO4: 112.6 HCO3: 3.2 Cl: 8.6 NO3: 11.5 F: 3.0
Sum Cations: 137.8 Sum Anions: 138.8 Cations/Anions: 0.99 Tot. P: 0.0
Tot. Al: 69.5 Ext. Al: 37.1 Fe: 29.0 Mn: 44.0 SiO2: 1.35

(continued)

TABLE 3-1 (continued)

ID: 1A1-067 Name: VANDERWHACKER POND State: NY Date: 12OCT84
Sample Type: REGULAR Latitude: 43-57'28"N Longitude: 74-00'10"W
Elevation: 600 Surface Temp: 11.9 Stratified: MIXED Site Depth: 3.0
Lake Area: 9 Watershed Area: 109 WA/LA: 12.8 Hydro Type: DRAINAGE
Residence Time: 0.20 Secchi Depth: 3.2 Turbidity: 0.3 Color: 30
Closed pH: 6.94 Equil. pH: 7.31 ANC: 133.5 DOC: 4.97
Closed DIC: 1.59 Equil. DIC: 1.47 Meas. Cond: 30.8 Cal. Cond: 32.7
Ca: 171.8 Mg: 74.2 Na: 39.6 K: 4.5 NH4: 1.6
SO4: 123.4 HCO3: 123.7 Cl: 8.5 NO3: 0.3 F: 0.7
Sum Cations: 291.7 Sum Anions: 256.9 Cations/Anions: 1.14 Tot. P: 1.8
Tot. Al: 96.0 Ext. Al: 5.7 Fe: 13.0 Mn: 6.0 SiO2: 2.65

ID: 1A1-068 Name: DEBAR POND State: NY Date: 11OCT84
Sample Type: REGULAR Latitude: 44-37'25"N Longitude: 74-11'46"W
Elevation: 477 Surface Temp: 11.1 Stratified: MIXED Site Depth: 8.2
Lake Area: 36 Watershed Area: 736 WA/LA: 20.7 Hydro Type: DRAINAGE
Residence Time: 0.35 Secchi Depth: 3.3 Turbidity: 0.6 Color: 15
Closed pH: 7.14 Equil. pH: 7.59 ANC: 234.1 DOC: 3.47
Closed DIC: 2.64 Equil. DIC: 2.67 Meas. Cond: 40.6 Cal. Cond: 42.6
Ca: 236.1 Mg: 100.8 Na: 40.9 K: 7.0 NH4: 1.0
SO4: 128.9 HCO3: 209.3 Cl: 9.0 NO3: 0.0 F: 3.2
Sum Cations: 385.8 Sum Anions: 350.9 Cations/Anions: 1.10 Tot. P: 1.7
Tot. Al: 35.7 Ext. Al: 5.8 Fe: 11.0 Mn: 6.0 SiO2: 4.79

ID: 1A1-069 Name: ROLLINS POND State: NY Date: 12OCT84
Sample Type: REGULAR Latitude: 44-18'45"N Longitude: 74-24'50"W
Elevation: 479 Surface Temp: 12.3 Stratified: WEAK Site Depth: 16.2
Lake Area: 174 Watershed Area: 2955 WA/LA: 17.0 Hydro Type: DRAINAGE
Residence Time: 0.83 Secchi Depth: 2.3 Turbidity: 0.7 Color: 60
Closed pH: 6.82 Equil. pH: 7.41 ANC: 144.1 DOC: 5.83
Closed DIC: 1.96 Equil. DIC: 1.53 Meas. Cond: 31.4 Cal. Cond: 32.6
Ca: 177.4 Mg: 64.7 Na: 41.2 K: 9.8 NH4: 1.7
SO4: 108.9 HCO3: 129.9 Cl: 10.1 NO3: 3.9 F: 2.0
Sum Cations: 294.9 Sum Anions: 254.9 Cations/Anions: 1.16 Tot. P: 4.6
Tot. Al: 38.1 Ext. Al: 2.3 Fe: 285.0 Mn: 31.0 SiO2: 5.40

ID: 1A1-070 Name: PARADOX LAKE State: NY Date: 18OCT84
Sample Type: REGULAR Latitude: 43-53'00"N Longitude: 73-42'30"W
Elevation: 249 Surface Temp: 14.4 Stratified: WEAK Site Depth: 16.1
Lake Area: 381 Watershed Area: 12295 WA/LA: 32.3 Hydro Type: DRAINAGE
Residence Time: 0.58 Secchi Depth: 6.8 Turbidity: 0.3 Color: 15
Closed pH: 7.48 Equil. pH: 7.77 ANC: 334.0 DOC: 3.31
Closed DIC: 3.91 Equil. DIC: 3.65 Meas. Cond: 67.9 Cal. Cond: 70.4
Ca: 391.2 Mg: 93.5 Na: 121.1 K: 6.2 NH4: 1.1
SO4: 149.8 HCO3: 318.6 Cl: 120.2 NO3: 0.1 F: 2.3
Sum Cations: 613.1 Sum Anions: 592.2 Cations/Anions: 1.04 Tot. P: 3.5
Tot. Al: 20.2 Ext. Al: 0.0 Fe: 5.0 Mn: 0.0 SiO2: 3.35

ID: 1A1-071 Name: BLACK POND State: NY Date: 11OCT84
Sample Type: REGULAR Latitude: 44-26'21"N Longitude: 74-17'38"W
Elevation: 497 Surface Temp: 11.8 Stratified: MIXED Site Depth: 7.3
Lake Area: 30 Watershed Area: 231 WA/LA: 7.6 Hydro Type: DRAINAGE
Residence Time: 0.79 Secchi Depth: 4.6 Turbidity: 0.3 Color: 20
Closed pH: 6.94 Equil. pH: 7.61 ANC: 231.6 DOC: 3.35
Closed DIC: 2.90 Equil. DIC: 2.71 Meas. Cond: 40.3 Cal. Cond: 44.7
Ca: 239.6 Mg: 105.5 Na: 52.2 K: 10.5 NH4: 1.3
SO4: 133.2 HCO3: 217.3 Cl: 10.3 NO3: 0.4 F: 2.9
Sum Cations: 409.1 Sum Anions: 364.6 Cations/Anions: 1.12 Tot. P: 9.2
Tot. Al: 17.7 Ext. Al: 6.2 Fe: 29.0 Mn: 26.0 SiO2: 8.46

(continued)

TABLE 3-1 (continued)

ID: 1A1-073 Name: GULL LAKES (SOUTH) State: NY Date: 14OCT84
Sample Type: REGULAR Latitude: 43-51'22"N Longitude: 74-49'15"W
Elevation: 594 Surface Temp: 12.8 Stratified: MIXED Site Depth: 3.0
Lake Area: 10 Watershed Area: 70 WA/LA: 7.1 Hydro Type: DRAINAGE
Residence Time: 0.25 Secchi Depth: 3.0 Turbidity: 0.2 Color: 10
Closed pH: 5.01 Equil. pH: 4.71 ANC: -9.4 DOC: 2.11
Closed DIC: 0.49 Equil. DIC: 0.13 Meas. Cond: 29.4 Cal. Cond: 26.4
Ca: 56.2 Mg: 19.2 Na: 21.8 K: 6.1 NH4: 7.4
SO4: 153.8 HCO3: 0.8 Cl: 5.1 NO3: 5.2 F: 3.5
Sum Cations: 129.8 Sum Anions: 168.3 Cations/Anions: 0.77 Tot. P: 0.5
Tot. Al: 362.6 Ext. Al: 268.0 Fe: 107.0 Mn: 41.0 SiO2: 0.61

ID: 1A1-074 Name: MIDDLE SARANAC LAKE State: NY Date: 13OCT84
Sample Type: REGULAR Latitude: 44-15'37"N Longitude: 74-16'00"W
Elevation: 469 Surface Temp: 12.8 Stratified: MIXED Site Depth: 6.4
Lake Area: 567 Watershed Area: 23711 WA/LA: 41.8 Hydro Type: DRAINAGE
Residence Time: 0.11 Secchi Depth: 4.3 Turbidity: 0.3 Color: 20
Closed pH: 7.36 Equil. pH: 7.68 ANC: 178.0 DOC: 4.14
Closed DIC: 2.09 Equil. DIC: 1.99 Meas. Cond: 40.9 Cal. Cond: 41.4
Ca: 202.2 Mg: 80.7 Na: 71.1 K: 9.1 NH4: 1.5
SO4: 118.7 HCO3: 162.4 Cl: 50.6 NO3: 1.0 F: 2.0
Sum Cations: 364.6 Sum Anions: 335.1 Cations/Anions: 1.09 Tot. P: 6.6
Tot. Al: 9.6 Ext. Al: 3.5 Fe: 42.0 Mn: 7.0 SiO2: 2.01

ID: 1A2-001 Name: TWIN PONDS (EASTERN) State: NY Date: 30OCT84
Sample Type: REGULAR Latitude: 43-40'20"N Longitude: 74-10'20"W
Elevation: 637 Surface Temp: 10.2 Stratified: MIXED Site Depth: 0.9
Lake Area: 5 Watershed Area: 218 WA/LA: 40.4 Hydro Type: DRAINAGE
Residence Time: 0.02 Secchi Depth: 1.3 Turbidity: 1.1 Color: 50
Closed pH: 6.62 Equil. pH: 7.35 ANC: 166.7 DOC: 7.65
Closed DIC: 2.46 Equil. DIC: 1.75 Meas. Cond: 26.8 Cal. Cond: 27.1
Ca: 130.1 Mg: 66.5 Na: 49.2 K: 9.0 NH4: 1.1
SO4: 64.8 HCO3: 141.4 Cl: 11.7 NO3: 0.4 F: 2.7
Sum Cations: 256.1 Sum Anions: 221.1 Cations/Anions: 1.16 Tot. P: 15.8
Tot. Al: 111.5 Ext. Al: 12.9 Fe: 26.0 Mn: 16.0 SiO2: 3.03

ID: 1A2-002 Name: ST. JOHN LAKE State: NY Date: 30OCT84
Sample Type: REGULAR Latitude: 43-26'30"N Longitude: 74-03'40"W
Elevation: 673 Surface Temp: 11.7 Stratified: MIXED Site Depth: 10.7
Lake Area: 13 Watershed Area: 148 WA/LA: 11.5 Hydro Type: DRAINAGE
Residence Time: 0.80 Secchi Depth: 11.0 Turbidity: 0.2 Color: 10
Closed pH: 5.42 Equil. pH: 5.54 ANC: 6.2 DOC: 1.77
Closed DIC: 0.41 Equil. DIC: 0.12 Meas. Cond: 18.6 Cal. Cond: 19.9
Ca: 73.9 Mg: 25.7 Na: 23.8 K: 1.6 NH4: 1.8
SO4: 133.9 HCO3: 3.8 Cl: 6.4 NO3: 1.4 F: 2.4
Sum Cations: 130.1 Sum Anions: 147.9 Cations/Anions: 0.88 Tot. P: 2.6
Tot. Al: 103.1 Ext. Al: 41.1 Fe: 36.0 Mn: 36.0 SiO2: 1.14

ID: 1A2-004 Name: DUCK LAKE State: NY Date: 31OCT84
Sample Type: REGULAR Latitude: 43-14'08"N Longitude: 74-27'09"W
Elevation: 704 Surface Temp: 10.8 Stratified: MIXED Site Depth: 5.5
Lake Area: 10 Watershed Area: 212 WA/LA: 21.0 Hydro Type: DRAINAGE
Residence Time: 0.23 Secchi Depth: 5.5 Turbidity: 0.2 Color: 15
Closed pH: 4.67 Equil. pH: 4.68 ANC: -17.6 DOC: 2.15
Closed DIC: 0.42 Equil. DIC: 0.12 Meas. Cond: 23.8 Cal. Cond: 22.6
Ca: 36.1 Mg: 13.7 Na: 17.0 K: 2.2 NH4: 2.5
SO4: 118.2 HCO3: 0.8 Cl: 5.6 NO3: 4.8 F: 1.4
Sum Cations: 94.9 Sum Anions: 130.9 Cations/Anions: 0.73 Tot. P: 11.8
Tot. Al: 521.0 Ext. Al: 243.2 Fe: 39.0 Mn: 19.0 SiO2: 0.85

(continued)

TABLE 3-1 (continued)

ID: 1A2-005 Name: MUD POND State: NY Date: 11OCT84
Sample Type: REGULAR Latitude: 44-44'10"N Longitude: 74-03'55"W
Elevation: 529 Surface Temp: 9.5 Stratified: MIXED Site Depth: 5.2
Lake Area: 19 Watershed Area: 686 WA/LA: 36.1 Hydro Type: DRAINAGE
Residence Time: 0.17 Secchi Depth: 0.7 Turbidity: 0.8 Color: 150
Closed pH: 6.01 Equil. pH: 6.97 ANC: 108.4 DOC: 15.14
Closed DIC: 2.51 Equil. DIC: 0.83 Meas. Cond: 31.8 Cal. Cond: 32.3
Ca: 175.8 Mg: 88.0 Na: 50.5 K: 8.2 NH4: 1.9
SO4: 117.4 HCO3: 66.1 Cl: 15.2 NO3: 0.5 F: 4.4
Sum Cations: 324.7 Sum Anions: 203.6 Cations/Anions: 1.59 Tot. P: 6.8
Tot. Al: 211.2 Ext. Al: 16.7 Fe: 391.0 Mn: 30.0 SiO2: 5.29

ID: 1A2-006 Name: LAKE FRANCES State: NY Date: 11OCT84
Sample Type: REGULAR Latitude: 44-41'45"N Longitude: 74-19'30"W
Elevation: 454 Surface Temp: 11.1 Stratified: MIXED Site Depth: 4.5
Lake Area: 6 Watershed Area: 96 WA/LA: 15.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.4 Turbidity: 0.6 Color: 20
Closed pH: 6.24 Equil. pH: 6.68 ANC: 42.5 DOC: 4.58
Closed DIC: 0.63 Equil. DIC: 0.49 Meas. Cond: 20.2 Cal. Cond: 22.1
Ca: 115.3 Mg: 33.1 Na: 24.7 K: 9.2 NH4: 0.9
SO4: 115.4 HCO3: 30.9 Cl: 7.8 NO3: 1.3 F: 2.2
Sum Cations: 183.5 Sum Anions: 157.5 Cations/Anions: 1.16 Tot. P: 8.8
Tot. Al: 33.1 Ext. Al: 7.6 Fe: 16.0 Mn: 21.0 SiO2: 0.09

ID: 1A2-008 Name: CLEAR POND State: NY Date: 13OCT84
Sample Type: REGULAR Latitude: 44-33'20"N Longitude: 74-46'30"W
Elevation: 396 Surface Temp: 12.3 Stratified: MIXED Site Depth: 7.0
Lake Area: 14 Watershed Area: 49 WA/LA: 3.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.5 Turbidity: 0.6 Color: 20
Closed pH: 6.93 Equil. pH: 7.28 ANC: 115.0 DOC: 4.44
Closed DIC: 1.58 Equil. DIC: 1.24 Meas. Cond: 28.8 Cal. Cond: 28.8
Ca: 140.4 Mg: 69.5 Na: 29.8 K: 12.4 NH4: 1.0
SO4: 102.3 HCO3: 111.0 Cl: 10.2 NO3: 0.0 F: 5.9
Sum Cations: 253.2 Sum Anions: 229.7 Cations/Anions: 1.10 Tot. P: 4.1
Tot. Al: 16.7 Ext. Al: 3.6 Fe: 29.0 Mn: 6.0 SiO2: 0.34

ID: 1A2-009 Name: WELLER POND State: NY Date: 13OCT84
Sample Type: REGULAR Latitude: 44-31'30"N Longitude: 74-36'00"W
Elevation: 454 Surface Temp: 10.7 Stratified: MIXED Site Depth: 2.7
Lake Area: 21 Watershed Area: 225 WA/LA: 10.7 Hydro Type: DRAINAGE
Residence Time: 0.21 Secchi Depth: 2.2 Turbidity: 0.3 Color: 50
Closed pH: 5.86 Equil. pH: 6.48 ANC: 29.0 DOC: 5.00
Closed DIC: 1.10 Equil. DIC: 0.31 Meas. Cond: 22.3 Cal. Cond: 21.3
Ca: 104.1 Mg: 32.0 Na: 30.5 K: 5.4 NH4: 3.4
SO4: 107.1 HCO3: 26.8 Cl: 7.5 NO3: 7.5 F: 3.0
Sum Cations: 175.9 Sum Anions: 151.9 Cations/Anions: 1.16 Tot. P: 8.3
Tot. Al: 180.8 Ext. Al: 28.1 Fe: 209.0 Mn: 29.0 SiO2: 1.05

ID: 1A2-010 Name: BLAKE FALLS RES State: NY Date: 13OCT84
Sample Type: REGULAR Latitude: 44-28'45"N Longitude: 74-45'15"W
Elevation: 381 Surface Temp: 12.7 Stratified: MIXED Site Depth: 12.8
Lake Area: 261 Watershed Area: 229433 WA/LA: 880.4 Hydro Type: RESERVOIR
Residence Time: 0.01 Secchi Depth: 3.0 Turbidity: 0.6 Color: 30
Closed pH: 6.82 Equil. pH: 7.30 ANC: 119.8 DOC: 4.79
Closed DIC: 1.61 Equil. DIC: 1.26 Meas. Cond: 36.4 Cal. Cond: 36.1
Ca: 173.9 Mg: 61.4 Na: 62.1 K: 10.6 NH4: 3.1
SO4: 124.7 HCO3: 111.0 Cl: 35.9 NO3: 7.1 F: 3.6
Sum Cations: 311.2 Sum Anions: 282.5 Cations/Anions: 1.10 Tot. P: 4.2
Tot. Al: 46.7 Ext. Al: 5.8 Fe: 83.0 Mn: 7.0 SiO2: 4.12

(continued)

TABLE 3-1 (continued)

ID: 1A2-011 Name: BOYD POND State: NY Date: 25OCT84
Sample Type: REGULAR Latitude: 44-23'30"N Longitude: 75-05'45"W
Elevation: 268 Surface Temp: 12.3 Stratified: MIXED Site Depth: 4.0
Lake Area: 34 Watershed Area: 236 WA/LA: 6.9 Hydro Type: DRAINAGE
Residence Time: 0.47 Secchi Depth: 2.5 Turbidity: 0.4 Color: 28
Closed pH: 6.88 Equil. pH: 7.25 ANC: 139.2 DOC: 4.70
Closed DIC: 1.77 Equil. DIC: 1.43 Meas. Cond: 34.8 Cal. Cond: 37.2
Ca: 199.8 Mg: 91.5 Na: 26.6 K: 6.1 NH4: 1.1
SO4: 145.0 HCO3: 120.3 Cl: 14.7 NO3: 0.4 F: 7.7
Sum Cations: 325.2 Sum Anions: 288.3 Cations/Anions: 1.13 Tot. P: 5.8
Tot. Al: 41.1 Ext. Al: 6.9 Fe: 11.5 Mn: 3.0 SiO2: 0.76

ID: 1A2-012 Name: MCDONALD POND State: NY Date: 11OCT84
Sample Type: REGULAR Latitude: 44-23'45"N Longitude: 74-31'40"W
Elevation: 466 Surface Temp: 10.0 Stratified: MIXED Site Depth: 1.5
Lake Area: 31 Watershed Area: 378 WA/LA: 12.2 Hydro Type: DRAINAGE
Residence Time: 0.11 Secchi Depth: 2.0 Turbidity: 1.1 Color: 70
Closed pH: 6.74 Equil. pH: 7.40 ANC: 182.8 DOC: 8.33
Closed DIC: 2.45 Equil. DIC: 1.95 Meas. Cond: 33.6 Cal. Cond: 36.0
Ca: 181.5 Mg: 105.9 Na: 44.8 K: 11.2 NH4: 2.3
SO4: 105.5 HCO3: 153.2 Cl: 9.1 NO3: 1.6 F: 4.1
Sum Cations: 345.8 Sum Anions: 273.8 Cations/Anions: 1.26 Tot. P: 10.5
Tot. Al: 84.5 Ext. Al: 7.3 Fe: 440.0 Mn: 6.0 SiO2: 1.06

ID: 1A2-013 Name: CLEAR POND State: NY Date: 13OCT84
Sample Type: REGULAR Latitude: 44-20'00"N Longitude: 74-48'40"W
Elevation: 445 Surface Temp: 11.7 Stratified: MIXED Site Depth: 1.8
Lake Area: 13 Watershed Area: 57 WA/LA: 4.6 Hydro Type: DRAINAGE
Residence Time: 0.31 Secchi Depth: 2.2 Turbidity: 0.3 Color: 10
Closed pH: 7.07 Equil. pH: 7.54 ANC: 206.4 DOC: 2.63
Closed DIC: 2.55 Equil. DIC: 2.35 Meas. Cond: 42.0 Cal. Cond: 44.1
Ca: 216.7 Mg: 82.3 Na: 58.0 K: 20.2 NH4: 1.9
SO4: 150.9 HCO3: 197.2 Cl: 12.2 NO3: 2.4 F: 5.5
Sum Cations: 379.2 Sum Anions: 368.6 Cations/Anions: 1.03 Tot. P: 3.1
Tot. Al: 31.6 Ext. Al: 13.1 Fe: 0.0 Mn: 3.0 SiO2: 4.68

ID: 1A2-015 Name: SMITH POND State: NY Date: 17OCT84
Sample Type: REGULAR Latitude: 44-15'00"N Longitude: 75-13'25"W
Elevation: 241 Surface Temp: 13.2 Stratified: STRONG Site Depth: 9.2
Lake Area: 5 Watershed Area: 39 WA/LA: 8.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.2 Turbidity: 0.6 Color: 18
Closed pH: 6.26 Equil. pH: 6.57 ANC: 29.6 DOC: 3.81
Closed DIC: 0.62 Equil. DIC: 0.38 Meas. Cond: 12.4 Cal. Cond: 28.1
Ca: 66.5 Mg: 23.3 Na: 161.8 K: 11.7 NH4: 0.7
SO4: 69.9 HCO3: 32.0 Cl: 86.6 NO3: 0.2 F: 1.4
Sum Cations: 264.6 Sum Anions: 190.0 Cations/Anions: 1.39 Tot. P: 4.8
Tot. Al: 16.9 Ext. Al: 7.2 Fe: 31.0 Mn: 23.5 SiO2: 1.15

ID: 1A2-016 Name: STAR LAKE State: NY Date: 24OCT84
Sample Type: REGULAR Latitude: 44-09'30"N Longitude: 75-02'45"W
Elevation: 441 Surface Temp: 13.1 Stratified: MIXED Site Depth: 11.6
Lake Area: 85 Watershed Area: 269 WA/LA: 3.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 5.2 Turbidity: 0.4 Color: 0
Closed pH: 7.02 Equil. pH: 7.36 ANC: 145.8 DOC: 1.99
Closed DIC: 1.92 Equil. DIC: 1.65 Meas. Cond: 38.1 Cal. Cond: 41.9
Ca: 166.8 Mg: 54.8 Na: 111.8 K: 15.2 NH4: 0.8
SO4: 116.3 HCO3: 133.6 Cl: 89.1 NO3: 0.0 F: 3.3
Sum Cations: 349.4 Sum Anions: 342.6 Cations/Anions: 1.02 Tot. P: 8.5
Tot. Al: 10.1 Ext. Al: 7.1 Fe: 24.0 Mn: 4.0 SiO2: 0.16

(continued)

TABLE 3-1 (continued)

ID: 1A2-018 Name: TWIN PONDS (EASTERN) State: NY Date: 24OCT84
Sample Type: REGULAR Latitude: 43-59'15"N Longitude: 75-13'30"W
Elevation: 413 Surface Temp: 12.3 Stratified: STRONG Site Depth: 10.1
Lake Area: 5 Watershed Area: 28 WA/LA: 5.3 Hydro Type: DRAINAGE
Residence Time: 1.12 Secchi Depth: 2.2 Turbidity: 1.1 Color: 35
Closed pH: 4.73 Equil. pH: 4.76 ANC: -13.2 DOC: 5.23
Closed DIC: 0.79 Equil. DIC: 0.14 Meas. Cond: 23.5 Cal. Cond: 23.8
Ca: 57.9 Mg: 20.7 Na: 19.8 K: 8.8 NH4: 1.6
SO4: 122.5 HCO3: 0.9 Cl: 9.1 NO3: 0.6 F: 4.6
Sum Cations: 127.8 Sum Anions: 137.7 Cations/Anions: 0.93 Tot. P: 3.6
Tot. Al: 307.5 Ext. Al: 69.8 Fe: 205.0 Mn: 38.0 SiO2: 2.26

ID: 1A2-021 Name: MOSHER PONDS (SOUTHERN) State: NY Date: 24OCT84
Sample Type: REGULAR Latitude: 43-56'00"N Longitude: 75-04'15"W
Elevation: 567 Surface Temp: 9.7 Stratified: MIXED Site Depth: 1.8
Lake Area: 12 Watershed Area: 544 WA/LA: 44.6 Hydro Type: DRAINAGE
Residence Time: 0.02 Secchi Depth: 1.7 Turbidity: 0.6 Color: 35
Closed pH: 4.70 Equil. pH: 4.74 ANC: -14.1 DOC: 4.66
Closed DIC: 0.73 Equil. DIC: 0.16 Meas. Cond: 22.9 Cal. Cond: 22.4
Ca: 50.3 Mg: 18.2 Na: 23.2 K: 7.3 NH4: 1.3
SO4: 103.1 HCO3: 0.9 Cl: 10.9 NO3: 2.9 F: 3.2
Sum Cations: 120.7 Sum Anions: 121.0 Cations/Anions: 1.00 Tot. P: 3.1
Tot. Al: 290.5 Ext. Al: 174.8 Fe: 200.0 Mn: 38.0 SiO2: 3.15

ID: 1A2-022 Name: PAYNE LAKE State: NY Date: 24OCT84
Sample Type: REGULAR Latitude: 43-47'40"N Longitude: 75-17'30"W
Elevation: 373 Surface Temp: 12.5 Stratified: MIXED Site Depth: 4.6
Lake Area: 7 Watershed Area: 31 WA/LA: 4.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.7 Turbidity: 0.7 Color: 25
Closed pH: 6.86 Equil. pH: 7.55 ANC: 225.8 DOC: 5.18
Closed DIC: 3.19 Equil. DIC: 2.44 Meas. Cond: 30.6 Cal. Cond: 31.9
Ca: 243.7 Mg: 37.0 Na: 4.7 K: 9.6 NH4: 8.0
SO4: 55.6 HCO3: 196.6 Cl: 6.4 NO3: 1.1 F: 2.1
Sum Cations: 303.0 Sum Anions: 262.0 Cations/Anions: 1.16 Tot. P: 15.0
Tot. Al: 27.0 Ext. Al: 7.2 Fe: 114.0 Mn: 17.0 SiO2: 0.26

ID: 1A2-023 Name: PANTHER POND State: NY Date: 24OCT84
Sample Type: REGULAR Latitude: 43-49'15"N Longitude: 75-10'15"W
Elevation: 460 Surface Temp: 11.1 Stratified: MIXED Site Depth: 0.9
Lake Area: 6 Watershed Area: 44 WA/LA: 7.9 Hydro Type: DRAINAGE
Residence Time: 0.07 Secchi Depth: 1.7 Turbidity: 1.2 Color: 45
Closed pH: 4.99 Equil. pH: 5.00 ANC: -2.6 DOC: 5.83
Closed DIC: 0.42 Equil. DIC: 0.10 Meas. Cond: 22.3 Cal. Cond: 22.4
Ca: 66.7 Mg: 24.6 Na: 27.2 K: 8.6 NH4: 3.2
SO4: 117.6 HCO3: 1.1 Cl: 15.9 NO3: 0.5 F: 7.5
Sum Cations: 141.0 Sum Anions: 142.6 Cations/Anions: 0.99 Tot. P: 8.1
Tot. Al: 270.2 Ext. Al: 157.5 Fe: 179.0 Mn: 31.0 SiO2: 1.31

ID: 1A2-024 Name: BIG OTTER LAKE State: NY Date: 14OCT84
Sample Type: REGULAR Latitude: 43-43'48"N Longitude: 75-06'23"W
Elevation: 483 Surface Temp: 12.6 Stratified: MIXED Site Depth: 6.4
Lake Area: 97 Watershed Area: 5462 WA/LA: 56.5 Hydro Type: DRAINAGE
Residence Time: 0.07 Secchi Depth: 2.6 Turbidity: 0.8 Color: 55
Closed pH: 5.73 Equil. pH: 6.07 ANC: 24.9 DOC: 5.98
Closed DIC: 0.70 Equil. DIC: 0.24 Meas. Cond: 22.9 Cal. Cond: 20.2
Ca: 90.9 Mg: 29.6 Na: 36.0 K: 8.9 NH4: 1.4
SO4: 103.5 HCO3: 13.5 Cl: 10.2 NO3: 4.5 F: 4.7
Sum Cations: 168.0 Sum Anions: 136.3 Cations/Anions: 1.23 Tot. P: 26.0
Tot. Al: 239.8 Ext. Al: 86.8 Fe: 148.0 Mn: 43.0 SiO2: 5.39

(continued)

TABLE 3-1 (continued)

ID: 1A2-026 Name: OTTER LAKE State: NY Date: 16OCT84
Sample Type: REGULAR Latitude: 43-35'30"N Longitude: 75-07'00"W
Elevation: 462 Surface Temp: 13.4 Stratified: MIXED Site Depth: 2.1
Lake Area: 57 Watershed Area: 477 WA/LA: 8.4 Hydro Type: DRAINAGE
Residence Time: 0.15 Secchi Depth: 1.9 Turbidity: 0.7 Color: 53
Closed pH: 7.01 Equil. pH: 7.50 ANC: 205.4 DOC: 5.80
Closed DIC: 2.38 Equil. DIC: 2.14 Meas. Cond: 61.4 Cal. Cond: 64.3
Ca: 271.1 Mg: 64.2 Na: 238.5 K: 17.8 NH4: 1.9
SO4: 107.5 HCO3: 170.8 Cl: 190.6 NO3: 3.8 F: 5.9
Sum Cations: 593.6 Sum Anions: 478.7 Cations/Anions: 1.24 Tot. P: 2.1
Tot. Al: 62.3 Ext. Al: 5.3 Fe: 141.5 Mn: 10.5 SiO2: 3.33

ID: 1A2-027 Name: TAYLOR POND State: NY Date: 12OCT84
Sample Type: REGULAR Latitude: 44-29'15"N Longitude: 73-51'00"W
Elevation: 425 Surface Temp: 12.5 Stratified: WEAK Site Depth: 21.0
Lake Area: 333 Watershed Area: 2805 WA/LA: 8.4 Hydro Type: DRAINAGE
Residence Time: 3.48 Secchi Depth: 5.5 Turbidity: 0.3 Color: 15
Closed pH: 7.14 Equil. pH: 7.45 ANC: 168.4 DOC: 2.93
Closed DIC: 2.14 Equil. DIC: 1.96 Meas. Cond: 36.2 Cal. Cond: 39.2
Ca: 202.8 Mg: 82.3 Na: 44.4 K: 8.8 NH4: 1.4
SO4: 148.9 HCO3: 149.2 Cl: 13.2 NO3: 0.4 F: 3.2
Sum Cations: 339.8 Sum Anions: 315.3 Cations/Anions: 1.08 Tot. P: 4.3
Tot. Al: 26.4 Ext. Al: 4.3 Fe: 9.0 Mn: 0.0 SiO2: 2.30

ID: 1A2-028 Name: OWEN POND State: NY Date: 12OCT84
Sample Type: REGULAR Latitude: 44-19'15"N Longitude: 73-54'05"W
Elevation: 515 Surface Temp: 9.3 Stratified: MIXED Site Depth: 9.6
Lake Area: 8 Watershed Area: 1140 WA/LA: 135.7 Hydro Type: DRAINAGE
Residence Time: 0.09 Secchi Depth: 2.3 Turbidity: 0.4 Color: 35
Closed pH: 6.42 Equil. pH: 7.27 ANC: 105.1 DOC: 4.44
Closed DIC: 2.13 Equil. DIC: 1.10 Meas. Cond: 35.8 Cal. Cond: 38.6
Ca: 214.3 Mg: 54.8 Na: 36.9 K: 6.4 NH4: 4.3
SO4: 173.0 HCO3: 105.0 Cl: 11.3 NO3: 12.3 F: 1.3
Sum Cations: 316.7 Sum Anions: 303.0 Cations/Anions: 1.05 Tot. P: 4.9
Tot. Al: 174.7 Ext. Al: 24.0 Fe: 72.0 Mn: 19.0 SiO2: 7.85

ID: 1A2-031 Name: BELLOWS LAKE State: NY Date: 31OCT84
Sample Type: REGULAR Latitude: 43-10'45"N Longitude: 74-27'45"W
Elevation: 544 Surface Temp: 12.2 Stratified: MIXED Site Depth: 5.2
Lake Area: 12 Watershed Area: 1570 WA/LA: 131.9 Hydro Type: DRAINAGE
Residence Time: 0.04 Secchi Depth: 5.5 Turbidity: 0.3 Color: 10
Closed pH: 5.24 Equil. pH: 5.30 ANC: 2.6 DOC: 0.94
Closed DIC: 0.31 Equil. DIC: 0.15 Meas. Cond: 19.0 Cal. Cond: 17.5
Ca: 44.3 Mg: 21.6 Na: 25.7 K: 3.8 NH4: 7.2
SO4: 109.8 HCO3: 3.0 Cl: 6.9 NO3: 3.8 F: 1.6
Sum Cations: 107.9 Sum Anions: 125.2 Cations/Anions: 0.86 Tot. P: 23.7
Tot. Al: 167.5 Ext. Al: 49.9 Fe: 24.0 Mn: 25.0 SiO2: 2.21

ID: 1A2-032 Name: HORSESHOE POND State: NY Date: 18OCT84
Sample Type: REGULAR Latitude: 43-49'45"N Longitude: 73-48'30"W
Elevation: 387 Surface Temp: 13.1 Stratified: WEAK Site Depth: 10.4
Lake Area: 17 Watershed Area: 197 WA/LA: 11.7 Hydro Type: DRAINAGE
Residence Time: 0.97 Secchi Depth: 3.3 Turbidity: 0.4 Color: 25
Closed pH: 7.16 Equil. pH: 7.59 ANC: 223.2 DOC: 3.40
Closed DIC: 2.86 Equil. DIC: 2.51 Meas. Cond: 38.9 Cal. Cond: 41.6
Ca: 242.4 Mg: 67.5 Na: 58.2 K: 4.5 NH4: 0.9
SO4: 120.9 HCO3: 217.5 Cl: 11.2 NO3: 0.1 F: 1.2
Sum Cations: 373.4 Sum Anions: 351.4 Cations/Anions: 1.06 Tot. P: 5.9
Tot. Al: 20.9 Ext. Al: 0.0 Fe: 14.0 Mn: 0.0 SiO2: 3.42

(continued)

TABLE 3-1 (continued)

ID: 1A2-033 Name: GOOSENECK POND State: NY Date: 18OCT84
Sample Type: REGULAR Latitude: 43-51'41"N Longitude: 73-36'30"W
Elevation: 377 Surface Temp: 13.6 Stratified: WEAK Site Depth: 13.4
Lake Area: 30 Watershed Area: 238 WA/LA: 7.9 Hydro Type: DRAINAGE
Residence Time: 1.76 Secchi Depth: 8.3 Turbidity: 0.2 Color: 10
Closed pH: 7.10 Equil. pH: 7.23 ANC: 124.3 DOC: 2.25
Closed DIC: 1.67 Equil. DIC: 1.48 Meas. Cond: 32.0 Cal. Cond: 35.9
Ca: 208.0 Mg: 58.2 Na: 29.6 K: 6.2 NH4: 0.8
SO4: 153.0 HCO3: 113.9 Cl: 12.5 NO3: 0.0 F: 2.8
Sum Cations: 302.8 Sum Anions: 282.4 Cations/Anions: 1.07 Tot. P: 0.8
Tot. Al: 9.9 Ext. Al: 0.0 Fe: 0.0 Mn: 0.0 SiO2: 1.64

ID: 1A2-034 Name: SPECTACLE POND State: NY Date: 18OCT84
Sample Type: REGULAR Latitude: 43-48'45"N Longitude: 73-42'15"W
Elevation: 354 Surface Temp: 11.9 Stratified: MIXED Site Depth: 5.5
Lake Area: 11 Watershed Area: 207 WA/LA: 18.5 Hydro Type: DRAINAGE
Residence Time: 0.34 Secchi Depth: 2.1 Turbidity: 0.6 Color: 55
Closed pH: 6.85 Equil. pH: 7.49 ANC: 368.5 DOC: 7.75
Closed DIC: 5.67 Equil. DIC: 3.90 Meas. Cond: 50.6 Cal. Cond: 54.1
Ca: 387.2 Mg: 74.0 Na: 37.4 K: 8.5 NH4: 1.1
SO4: 99.9 HCO3: 349.7 Cl: 10.2 NO3: 0.3 F: 3.0
Sum Cations: 508.3 Sum Anions: 463.5 Cations/Anions: 1.10 Tot. P: 10.9
Tot. Al: 33.5 Ext. Al: 3.3 Fe: 51.0 Mn: 6.0 SiO2: 4.81

ID: 1A2-035 Name: BRANT LAKE State: NY Date: 18OCT84
Sample Type: REGULAR Latitude: 43-42'30"N Longitude: 73-42'30"W
Elevation: 244 Surface Temp: 14.9 Stratified: MIXED Site Depth: 9.8
Lake Area: 595 Watershed Area: 10142 WA/LA: 17.0 Hydro Type: DRAINAGE
Residence Time: 0.65 Secchi Depth: 4.6 Turbidity: 0.4 Color: 15
Closed pH: 7.61 Equil. pH: 7.87 ANC: 381.4 DOC: 3.00
Closed DIC: 4.48 Equil. DIC: 4.19 Meas. Cond: 70.8 Cal. Cond: 76.9
Ca: 430.1 Mg: 96.3 Na: 134.9 K: 9.7 NH4: 0.9
SO4: 154.0 HCO3: 355.1 Cl: 134.7 NO3: 0.1 F: 3.1
Sum Cations: 672.0 Sum Anions: 648.4 Cations/Anions: 1.04 Tot. P: 2.5
Tot. Al: 12.7 Ext. Al: 0.0 Fe: 1.0 Mn: 0.0 SiO2: 2.62

ID: 1A2-036 Name: LILY POND State: NY Date: 03NOV84
Sample Type: REGULAR Latitude: 43-42'15"N Longitude: 73-40'15"W
Elevation: 366 Surface Temp: 9.4 Stratified: MIXED Site Depth: 1.2
Lake Area: 21 Watershed Area: 591 WA/LA: 28.7 Hydro Type: DRAINAGE
Residence Time: 0.05 Secchi Depth: 1.5 Turbidity: 0.5 Color: 45
Closed pH: 7.00 Equil. pH: 7.47 ANC: 191.8 DOC: 6.51
Closed DIC: 2.27 Equil. DIC: 2.00 Meas. Cond: 32.1 Cal. Cond: 32.9
Ca: 216.0 Mg: 48.1 Na: 35.3 K: 9.8 NH4: 3.3
SO4: 84.3 HCO3: 150.4 Cl: 11.2 NO3: 1.9 F: 5.5
Sum Cations: 312.7 Sum Anions: 253.3 Cations/Anions: 1.23 Tot. P: 6.0
Tot. Al: 147.7 Ext. Al: 7.4 Fe: 71.0 Mn: 12.0 SiO2: 4.19

ID: 1A2-037 Name: FISH PONDS (NORTHEAST) State: NY Date: 30OCT84
Sample Type: REGULAR Latitude: 43-32'50"N Longitude: 74-03'40"W
Elevation: 486 Surface Temp: 11.2 Stratified: MIXED Site Depth: 4.0
Lake Area: 8 Watershed Area: 1036 WA/LA: 123.3 Hydro Type: DRAINAGE
Residence Time: 0.03 Secchi Depth: 2.1 Turbidity: 1.1 Color: 55
Closed pH: 6.56 Equil. pH: 7.39 ANC: 170.3 DOC: 5.56
Closed DIC: 2.87 Equil. DIC: 1.74 Meas. Cond: 31.1 Cal. Cond: 30.9
Ca: 146.2 Mg: 69.8 Na: 40.1 K: 10.0 NH4: 5.6
SO4: 91.0 HCO3: 145.7 Cl: 15.6 NO3: 2.1 F: 2.2
Sum Cations: 271.9 Sum Anions: 256.9 Cations/Anions: 1.06 Tot. P: 9.5
Tot. Al: 116.0 Ext. Al: 9.9 Fe: 182.0 Mn: 12.0 SiO2: 5.76

(continued)

TABLE 3-1 (continued)

ID: 1A2-038 Name: COD POND State: NY Date: 30OCT84
Sample Type: REGULAR Latitude: 43-31'00"N Longitude: 74-08'30"W
Elevation: 462 Surface Temp: 12.1 Stratified: MIXED Site Depth: 1.2
Lake Area: 20 Watershed Area: 93 WA/LA: 4.7 Hydro Type: DRAINAGE
Residence Time: 0.20 Secchi Depth: 1.5 Turbidity: 0.7 Color: 30
Closed pH: 6.75 Equil. pH: 7.24 ANC: 132.1 DOC: 6.70
Closed DIC: 1.65 Equil. DIC: 1.20 Meas. Cond: 23.4 Cal. Cond: 24.5
Ca: 141.1 Mg: 43.2 Na: 38.6 K: 2.8 NH4: 1.2
SO4: 78.3 HCO3: 102.6 Cl: 8.4 NO3: 0.1 F: 1.3
Sum Cations: 227.0 Sum Anions: 190.7 Cations/Anions: 1.19 Tot. P: 7.2
Tot. Al: 56.4 Ext. Al: 5.0 Fe: 27.0 Mn: 0.0 SiO2: 1.87

ID: 1A2-039 Name: OXBOW LAKE State: NY Date: 30OCT84
Sample Type: REGULAR Latitude: 43-26'30"N Longitude: 74-29'00"W
Elevation: 519 Surface Temp: 12.2 Stratified: MIXED Site Depth: 2.0
Lake Area: 116 Watershed Area: 1329 WA/LA: 11.4 Hydro Type: DRAINAGE
Residence Time: 0.12 Secchi Depth: 2.4 Turbidity: 0.4 Color: 40
Closed pH: 7.18 Equil. pH: 7.34 ANC: 150.3 DOC: 5.48
Closed DIC: 1.64 Equil. DIC: 1.48 Meas. Cond: 34.3 Cal. Cond: 36.8
Ca: 164.2 Mg: 75.8 Na: 78.4 K: 7.3 NH4: 1.2
SO4: 92.1 HCO3: 121.9 Cl: 68.6 NO3: 0.1 F: 6.3
Sum Cations: 327.0 Sum Anions: 289.1 Cations/Anions: 1.13 Tot. P: 10.5
Tot. Al: 35.9 Ext. Al: 5.8 Fe: 68.0 Mn: 0.0 SiO2: 1.23

ID: 1A2-040 Name: LAKE ALGONQUIN State: NY Date: 30OCT84
Sample Type: REGULAR Latitude: 43-23'30"N Longitude: 74-17'45"W
Elevation: 299 Surface Temp: 12.2 Stratified: MIXED Site Depth: 1.2
Lake Area: 85 Watershed Area: 48529 WA/LA: 570.3 Hydro Type: RESERVOIR
Residence Time: 0.00 Secchi Depth: 1.5 Turbidity: 0.7 Color: 40
Closed pH: 7.00 Equil. pH: 7.57 ANC: 250.8 DOC: 4.44
Closed DIC: 3.16 Equil. DIC: 2.67 Meas. Cond: 48.8 Cal. Cond: 49.6
Ca: 230.4 Mg: 93.6 Na: 90.9 K: 11.6 NH4: 1.7
SO4: 118.7 HCO3: 215.8 Cl: 79.5 NO3: 1.5 F: 2.0
Sum Cations: 428.2 Sum Anions: 417.8 Cations/Anions: 1.02 Tot. P: 7.1
Tot. Al: 77.1 Ext. Al: 8.7 Fe: 159.0 Mn: 12.0 SiO2: 6.89

ID: 1A2-041 Name: MUD LAKE State: NY Date: 30OCT84
Sample Type: REGULAR Latitude: 43-20'26"N Longitude: 74-27'14"W
Elevation: 527 Surface Temp: 11.9 Stratified: MIXED Site Depth: 3.0
Lake Area: 9 Watershed Area: 303 WA/LA: 33.3 Hydro Type: DRAINAGE
Residence Time: 0.07 Secchi Depth: 1.4 Turbidity: 1.8 Color: 50
Closed pH: 6.09 Equil. pH: 6.38 ANC: 36.7 DOC: 8.25
Closed DIC: 0.55 Equil. DIC: 0.32 Meas. Cond: 21.2 Cal. Cond: 20.6
Ca: 89.4 Mg: 42.0 Na: 37.5 K: 5.5 NH4: 0.9
SO4: 104.9 HCO3: 18.1 Cl: 11.8 NO3: 0.2 F: 3.0
Sum Cations: 176.5 Sum Anions: 137.8 Cations/Anions: 1.28 Tot. P: 5.6
Tot. Al: 169.5 Ext. Al: 24.9 Fe: 26.0 Mn: 20.0 SiO2: 4.14

ID: 1A2-042 Name: NORTH BRANCH LAKE State: NY Date: 31OCT84
Sample Type: REGULAR Latitude: 43-18'45"N Longitude: 74-47'40"W
Elevation: 575 Surface Temp: 11.3 Stratified: MIXED Site Depth: 6.7
Lake Area: 7 Watershed Area: 176 WA/LA: 24.4 Hydro Type: DRAINAGE
Residence Time: 0.20 Secchi Depth: 2.3 Turbidity: 0.6 Color: 45
Closed pH: 5.38 Equil. pH: 5.70 ANC: 13.6 DOC: 4.91
Closed DIC: 0.96 Equil. DIC: 0.18 Meas. Cond: 20.7 Cal. Cond: 20.0
Ca: 62.8 Mg: 32.2 Na: 32.8 K: 6.4 NH4: 3.8
SO4: 116.6 HCO3: 6.2 Cl: 10.2 NO3: 3.4 F: 2.0
Sum Cations: 142.0 Sum Anions: 138.4 Cations/Anions: 1.03 Tot. P: 12.9
Tot. Al: 308.8 Ext. Al: 106.1 Fe: 87.0 Mn: 34.0 SiO2: 4.12

(continued)

TABLE 3-1 (continued)

ID: 1A2-044 Name: LONG LAKE State: NY Date: 31OCT84
Sample Type: REGULAR Latitude: 43-13'10"N Longitude: 74-35'30"W
Elevation: 521 Surface Temp: 11.5 Stratified: MIXED Site Depth: 7.0
Lake Area: 7 Watershed Area: 702 WA/LA: 104.8 Hydro Type: DRAINAGE
Residence Time: 0.06 Secchi Depth: 2.8 Turbidity: 0.4 Color: 55
Closed pH: 5.22 Equil. pH: 5.49 ANC: 8.4 DOC: 5.80
Closed DIC: 1.30 Equil. DIC: 0.17 Meas. Cond: 20.1 Cal. Cond: 20.6
Ca: 70.1 Mg: 31.8 Na: 33.4 K: 7.1 NH4: 3.0
SO4: 112.6 HCO3: 5.8 Cl: 12.6 NO3: 0.6 F: 2.2
Sum Cations: 150.9 Sum Anions: 133.8 Cations/Anions: 1.13 Tot. P: 7.0
Tot. Al: 339.6 Ext. Al: 125.1 Fe: 178.0 Mn: 31.0 SiO2: 4.14

ID: 1A2-045 Name: WOODS LAKE State: NY Date: 31OCT84
Sample Type: REGULAR Latitude: 43-15'10"N Longitude: 74-19'00"W
Elevation: 418 Surface Temp: 13.2 Stratified: MIXED Site Depth: 10.0
Lake Area: 26 Watershed Area: 168 WA/LA: 6.4 Hydro Type: DRAINAGE
Residence Time: 1.29 Secchi Depth: 5.5 Turbidity: 0.3 Color: 15
Closed pH: 5.81 Equil. pH: 6.07 ANC: 13.2 DOC: 2.08
Closed DIC: 0.40 Equil. DIC: 0.21 Meas. Cond: 16.9 Cal. Cond: 18.0
Ca: 68.6 Mg: 24.7 Na: 27.8 K: 4.2 NH4: 0.8
SO4: 110.5 HCO3: 11.0 Cl: 10.4 NO3: 0.3 F: 2.1
Sum Cations: 127.6 Sum Anions: 134.3 Cations/Anions: 0.95 Tot. P: 6.1
Tot. Al: 51.5 Ext. Al: 14.8 Fe: 0.0 Mn: 40.0 SiO2: 1.90

ID: 1A2-046 Name: NINE CORNER LAKE State: NY Date: 31OCT84
Sample Type: REG/SPC/NRC/ Latitude: 43-11'45"N Longitude: 74-33'00"W
Elevation: 570 Surface Temp: 12.3 Stratified: MIXED Site Depth: 9.1
Lake Area: 44 Watershed Area: 199 WA/LA: 4.6 Hydro Type: DRAINAGE
Residence Time: 1.58 Secchi Depth: 4.4 Turbidity: 0.3 Color: 10
Closed pH: 5.91 Equil. pH: 6.32 ANC: 18.4 DOC: 1.93
Closed DIC: 0.60 Equil. DIC: 0.25 Meas. Cond: 20.1 Cal. Cond: 21.0
Ca: 76.2 Mg: 41.4 Na: 22.1 K: 5.9 NH4: 1.1
SO4: 131.6 HCO3: 16.1 Cl: 11.1 NO3: 1.6 F: 2.0
Sum Cations: 147.7 Sum Anions: 162.3 Cations/Anions: 0.91 Tot. P: 14.9
Tot. Al: 113.0 Ext. Al: 11.2 Fe: 17.0 Mn: 9.0 SiO2: 1.87

ID: 1A2-047 Name: JACKSON SUMMIT RESERVOIR State: NY Date: 04NOV84
Sample Type: REGULAR Latitude: 43-08'30"N Longitude: 74-17'00"W
Elevation: 398 Surface Temp: 7.7 Stratified: MIXED Site Depth: 2.1
Lake Area: 41 Watershed Area: 1163 WA/LA: 28.6 Hydro Type: RESERVOIR
Residence Time: 0.07 Secchi Depth: 1.8 Turbidity: 1.2 Color: 30
Closed pH: 6.41 Equil. pH: 6.71 ANC: 41.7 DOC: 3.21
Closed DIC: 1.03 Equil. DIC: 0.52 Meas. Cond: 23.7 Cal. Cond: 23.1
Ca: 88.7 Mg: 33.9 Na: 36.7 K: 6.9 NH4: 0.9
SO4: 132.8 HCO3: 40.9 Cl: 11.1 NO3: 0.3 F: 2.9
Sum Cations: 167.5 Sum Anions: 188.0 Cations/Anions: 0.89 Tot. P: 8.6
Tot. Al: 127.2 Ext. Al: 4.6 Fe: 56.0 Mn: 23.0 SiO2: 1.44

ID: 1A2-048 Name: (NO NAME) State: NY Date: 31OCT84
Sample Type: REGULAR Latitude: 43-07'39"N Longitude: 74-35'20"W
Elevation: 485 Surface Temp: 11.6 Stratified: MIXED Site Depth: 6.7
Lake Area: 5 Watershed Area: 101 WA/LA: 22.0 Hydro Type: DRAINAGE
Residence Time: 0.27 Secchi Depth: 2.1 Turbidity: 1.0 Color: 50
Closed pH: 5.02 Equil. pH: 5.10 ANC: 0.7 DOC: 5.35
Closed DIC: 1.12 Equil. DIC: 0.15 Meas. Cond: 17.5 Cal. Cond: 18.1
Ca: 48.6 Mg: 27.6 Na: 22.1 K: 9.4 NH4: 0.9
SO4: 92.5 HCO3: 3.3 Cl: 10.8 NO3: 0.1 F: 2.3
Sum Cations: 118.3 Sum Anions: 108.9 Cations/Anions: 1.09 Tot. P: 41.8
Tot. Al: 165.9 Ext. Al: 45.4 Fe: 137.0 Mn: 34.0 SiO2: 1.36

(continued)

TABLE 3-1 (continued)

ID: 1A2-049 Name: LAKE DESOLATION State: NY Date: 04NOV84
Sample Type: REGULAR Latitude: 43-08'15"N Longitude: 73-58'20"W
Elevation: 476 Surface Temp: 9.5 Stratified: MIXED Site Depth: 5.5
Lake Area: 27 Watershed Area: 458 WA/LA: 17.3 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 1.7 Turbidity: 1.5 Color: 45
Closed pH: 6.76 Equil. pH: 7.16 ANC: 133.9 DOC: 5.47
Closed DIC: 2.20 Equil. DIC: 1.49 Meas. Cond: 31.0 Cal. Cond: 57.2
Ca: 474.0 Mg: 181.8 Na: 37.1 K: 15.2 NH4: 2.8
SO4: 117.9 HCO3: 119.8 Cl: 15.3 NO3: 0.9 F: 2.5
Sum Cations: 711.1 Sum Anions: 256.5 Cations/Anions: 2.77 Tot. P: 8.9
Tot. Al: 90.3 Ext. Al: 6.2 Fe: 124.0 Mn: 63.0 SiO2: 3.00

ID: 1A2-051 Name: STREETCAR POND State: NY Date: 18OCT84
Sample Type: REGULAR Latitude: 43-40'38"N Longitude: 73-42'02"W
Elevation: 405 Surface Temp: 13.3 Stratified: MIXED Site Depth: 4.5
Lake Area: 5 Watershed Area: 60 WA/LA: 12.8 Hydro Type: DRAINAGE
Residence Time: 0.39 Secchi Depth: 3.7 Turbidity: 0.6 Color: 25
Closed pH: 7.57 Equil. pH: 7.84 ANC: 367.5 DOC: 4.85
Closed DIC: 4.35 Equil. DIC: 3.98 Meas. Cond: 56.3 Cal. Cond: 60.1
Ca: 383.7 Mg: 107.2 Na: 41.2 K: 7.3 NH4: 1.1
SO4: 161.0 HCO3: 337.5 Cl: 10.4 NO3: 0.1 F: 2.7
Sum Cations: 540.5 Sum Anions: 512.7 Cations/Anions: 1.05 Tot. P: 7.9
Tot. Al: 72.0 Ext. Al: 11.3 Fe: 9.0 Mn: 0.0 SiO2: 3.39

ID: 1A2-052 Name: CHUB LAKE State: NY Date: 31OCT84
Sample Type: REGULAR Latitude: 43-15'30"N Longitude: 74-31'50"W
Elevation: 504 Surface Temp: 11.7 Stratified: MIXED Site Depth: 6.1
Lake Area: 7 Watershed Area: 54 WA/LA: 7.8 Hydro Type: DRAINAGE
Residence Time: 0.65 Secchi Depth: 3.6 Turbidity: 0.6 Color: 40
Closed pH: 5.21 Equil. pH: 5.43 ANC: 8.6 DOC: 4.73
Closed DIC: 1.11 Equil. DIC: 0.18 Meas. Cond: 20.9 Cal. Cond: 21.5
Ca: 69.1 Mg: 33.5 Na: 38.1 K: 8.0 NH4: 3.3
SO4: 112.9 HCO3: 4.9 Cl: 18.6 NO3: 2.0 F: 2.2
Sum Cations: 157.5 Sum Anions: 140.7 Cations/Anions: 1.12 Tot. P: 9.6
Tot. Al: 318.8 Ext. Al: 119.7 Fe: 112.0 Mn: 33.0 SiO2: 3.28

ID: 1A2-053 Name: HAMILTON LAKE State: NY Date: 30OCT84
Sample Type: REGULAR Latitude: 43-25'50"N Longitude: 74-23'18"W
Elevation: 565 Surface Temp: 12.5 Stratified: MIXED Site Depth: 7.0
Lake Area: 56 Watershed Area: 1386 WA/LA: 24.7 Hydro Type: DRAINAGE
Residence Time: 0.20 Secchi Depth: 5.3 Turbidity: 0.4 Color: 10
Closed pH: 6.47 Equil. pH: 7.10 ANC: 66.0 DOC: 3.34
Closed DIC: 1.12 Equil. DIC: 0.77 Meas. Cond: 23.4 Cal. Cond: 24.7
Ca: 106.9 Mg: 46.7 Na: 28.5 K: 6.4 NH4: 4.3
SO4: 121.4 HCO3: 52.3 Cl: 12.2 NO3: 5.9 F: 2.3
Sum Cations: 193.1 Sum Anions: 194.1 Cations/Anions: 0.99 Tot. P: 6.1
Tot. Al: 105.4 Ext. Al: 10.7 Fe: 98.0 Mn: 29.0 SiO2: 3.91

ID: 1A2-054 Name: TROUT LAKE State: NY Date: 31OCT84
Sample Type: REG/SPC/NRC/ Latitude: 43-20'48"N Longitude: 74-42'50"W
Elevation: 651 Surface Temp: 11.1 Stratified: MIXED Site Depth: 4.3
Lake Area: 17 Watershed Area: 249 WA/LA: 14.8 Hydro Type: DRAINAGE
Residence Time: 0.21 Secchi Depth: 2.3 Turbidity: 0.7 Color: 30
Closed pH: 4.86 Equil. pH: 4.89 ANC: -5.6 DOC: 4.92
Closed DIC: 0.63 Equil. DIC: 0.14 Meas. Cond: 20.3 Cal. Cond: 19.1
Ca: 48.7 Mg: 20.4 Na: 19.1 K: 6.3 NH4: 0.7
SO4: 98.5 HCO3: 1.7 Cl: 6.3 NO3: 0.9 F: 1.4
Sum Cations: 109.6 Sum Anions: 108.8 Cations/Anions: 1.01 Tot. P: 5.1
Tot. Al: 379.7 Ext. Al: 124.4 Fe: 54.0 Mn: 26.0 SiO2: 1.24

(continued)

TABLE 3-1 (continued)

ID: 1A2-056 Name: HUCKLEBERRY LAKE State: NY Date: 24OCT84
Sample Type: REGULAR Latitude: 43-47'47"N Longitude: 75-15'00"W
Elevation: 399 Surface Temp: 11.7 Stratified: MIXED Site Depth: 6.7
Lake Area: 14 Watershed Area: 85 WA/LA: 6.3 Hydro Type: DRAINAGE
Residence Time: 0.63 Secchi Depth: 1.8 Turbidity: 0.7 Color: 50
Closed pH: 5.63 Equil. pH: 6.45 ANC: 28.1 DOC: 5.65
Closed DIC: 1.63 Equil. DIC: 0.29 Meas. Cond: 11.4 Cal. Cond: 11.3
Ca: 50.8 Mg: 18.8 Na: 17.0 K: 8.2 NH4: 0.9
SO4: 42.5 HCO3: 26.8 Cl: 8.1 NO3: 0.0 F: 2.4
Sum Cations: 96.8 Sum Anions: 79.8 Cations/Anions: 1.21 Tot. P: 9.8
Tot. Al: 42.9 Ext. Al: 13.8 Fe: 222.0 Mn: 27.0 SiO2: 0.15

ID: 1A2-057 Name: TWIN PONDS (NORTHWESTERN) State: NY Date: 11OCT84
Sample Type: REGULAR Latitude: 44-42'24"N Longitude: 74-20'33"W
Elevation: 440 Surface Temp: 11.3 Stratified: MIXED Site Depth: 4.6
Lake Area: 17 Watershed Area: 293 WA/LA: 17.6 Hydro Type: DRAINAGE
Residence Time: 0.23 Secchi Depth: 1.8 Turbidity: 0.5 Color: 60
Closed pH: 6.66 Equil. pH: 7.74 ANC: 334.5 DOC: 6.98
Closed DIC: 5.43 Equil. DIC: 3.68 Meas. Cond: 47.3 Cal. Cond: 49.3
Ca: 279.5 Mg: 134.1 Na: 42.6 K: 14.1 NH4: 6.9
SO4: 84.0 HCO3: 296.6 Cl: 22.3 NO3: 0.4 F: 3.2
Sum Cations: 477.2 Sum Anions: 407.1 Cations/Anions: 1.17 Tot. P: 21.2
Tot. Al: 59.4 Ext. Al: 11.0 Fe: 295.0 Mn: 44.0 SiO2: 4.51

ID: 1A2-058 Name: TROUT LAKE State: NY Date: 24OCT84
Sample Type: REGULAR Latitude: 44-21'47"N Longitude: 75-16'08"W
Elevation: 227 Surface Temp: 12.8 Stratified: MIXED Site Depth: 10.7
Lake Area: 146 Watershed Area: 609 WA/LA: 4.2 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 4.9 Turbidity: 0.3 Color: 15
Closed pH: 7.31 Equil. pH: 7.83 ANC: 395.7 DOC: 3.77
Closed DIC: 4.75 Equil. DIC: 4.35 Meas. Cond: 59.0 Cal. Cond: 61.9
Ca: 335.8 Mg: 181.8 Na: 32.8 K: 9.7 NH4: 1.1
SO4: 155.2 HCO3: 342.9 Cl: 25.4 NO3: 0.2 F: 2.2
Sum Cations: 561.3 Sum Anions: 527.4 Cations/Anions: 1.06 Tot. P: 6.6
Tot. Al: 33.4 Ext. Al: 7.5 Fe: 28.5 Mn: 6.0 SiO2: 0.87

ID: 1A2-059 Name: CRANE POND State: NY Date: 18OCT84
Sample Type: REGULAR Latitude: 43-51'10"N Longitude: 73-39'10"W
Elevation: 329 Surface Temp: 13.7 Stratified: MIXED Site Depth: 8.2
Lake Area: 67 Watershed Area: 2077 WA/LA: 31.2 Hydro Type: DRAINAGE
Residence Time: 0.31 Secchi Depth: 6.9 Turbidity: 0.2 Color: 15
Closed pH: 7.03 Equil. pH: 7.26 ANC: 112.1 DOC: 2.93
Closed DIC: 1.59 Equil. DIC: 1.29 Meas. Cond: 31.1 Cal. Cond: 33.5
Ca: 189.7 Mg: 57.3 Na: 28.9 K: 7.0 NH4: 1.2
SO4: 144.7 HCO3: 102.3 Cl: 10.1 NO3: 0.3 F: 2.9
Sum Cations: 284.2 Sum Anions: 260.4 Cations/Anions: 1.09 Tot. P: 2.8
Tot. Al: 15.2 Ext. Al: 0.0 Fe: 1.0 Mn: 0.0 SiO2: 2.33

ID: 1A2-061 Name: WHITE LAKE State: NY Date: 16OCT84
Sample Type: REGULAR Latitude: 43-32'42"N Longitude: 75-09'02"W
Elevation: 433 Surface Temp: 14.1 Stratified: STRONG Site Depth: 22.8
Lake Area: 89 Watershed Area: 332 WA/LA: 3.7 Hydro Type: DRAINAGE
Residence Time: 3.58 Secchi Depth: 9.4 Turbidity: 0.1 Color: 10
Closed pH: 7.11 Equil. pH: 7.43 ANC: 176.2 DOC: 2.20
Closed DIC: 2.12 Equil. DIC: 2.03 Meas. Cond: 68.5 Cal. Cond: 66.6
Ca: 275.1 Mg: 56.4 Na: 257.9 K: 16.5 NH4: 1.8
SO4: 134.1 HCO3: 161.0 Cl: 190.8 NO3: 2.9 F: 5.8
Sum Cations: 607.8 Sum Anions: 494.9 Cations/Anions: 1.23 Tot. P: 0.0
Tot. Al: 12.5 Ext. Al: 3.0 Fe: 0.0 Mn: 0.0 SiO2: 1.12

(continued)

TABLE 3-1 (continued)

ID: 1A2-063 Name: LONG LAKE State: NY Date: 24OCT84
Sample Type: REGULAR Latitude: 44-09'48"N Longitude: 75-12'06"W
Elevation: 363 Surface Temp: 12.7 Stratified: MIXED Site Depth: 5.8
Lake Area: 9 Watershed Area: 124 WA/LA: 13.5 Hydro Type: DRAINAGE
Residence Time: 0.30 Secchi Depth: 2.0 Turbidity: 1.1 Color: 35
Closed pH: 6.07 Equil. pH: 6.69 ANC: 45.9 DOC: 5.42
Closed DIC: 1.15 Equil. DIC: 0.42 Meas. Cond: 21.9 Cal. Cond: 23.0
Ca: 126.0 Mg: 38.1 Na: 23.1 K: 3.4 NH4: 0.9
SO4: 116.3 HCO3: 39.0 Cl: 6.0 NO3: 0.2 F: 6.4
Sum Cations: 192.0 Sum Anions: 167.9 Cations/Anions: 1.14 Tot. P: 10.4
Tot. Al: 98.6 Ext. Al: 22.7 Fe: 47.0 Mn: 6.0 SiO2: 0.56

ID: 1A2-064 Name: LITTLE POND State: NY Date: 08OCT84
Sample Type: REGULAR Latitude: 44-11'00"N Longitude: 73-34'35"W
Elevation: 328 Surface Temp: 12.0 Stratified: MIXED Site Depth: 5.5
Lake Area: 11 Watershed Area: 166 WA/LA: 14.9 Hydro Type: DRAINAGE
Residence Time: 0.41 Secchi Depth: 4.8 Turbidity: 0.3 Color: 15
Closed pH: 7.17 Equil. pH: 7.97 ANC: 522.2 DOC: 4.24
Closed DIC: 6.28 Equil. DIC: 5.88 Meas. Cond: 236.7 Cal. Cond: 231.2
Ca: 703.6 Mg: 312.6 Na: 918.5 K: 9.1 NH4: 1.2
SO4: 156.6 HCO3: 475.2 Cl: 1206.7 NO3: 0.1 F: 1.1
Sum Cations: 1945.0 Sum Anions: 1842.2 Cations/Anions: 1.06 Tot. P: 1.8
Tot. Al: 32.0 Ext. Al: 0.0 Fe: 9.5 Mn: 27.5 SiO2: 2.72

ID: 1A2-065 Name: BELFORT POND State: NY Date: 21OCT84
Sample Type: REGULAR Latitude: 43-55'39"N Longitude: 75-19'42"W
Elevation: 294 Surface Temp: 12.8 Stratified: MIXED Site Depth: 1.8
Lake Area: 16 Watershed Area: 19000 WA/LA: 1210.2 Hydro Type: RESERVOIR
Residence Time: 0.00 Secchi Depth: 2.0 Turbidity: 0.8 Color: 35
Closed pH: 6.15 Equil. pH: 6.57 ANC: 36.2 DOC: 3.94
Closed DIC: 0.80 Equil. DIC: 0.40 Meas. Cond: 21.4 Cal. Cond: 22.6
Ca: 104.2 Mg: 34.5 Na: 32.9 K: 10.0 NH4: 1.5
SO4: 116.5 HCO3: 21.1 Cl: 9.6 NO3: 8.8 F: 4.8
Sum Cations: 183.7 Sum Anions: 160.7 Cations/Anions: 1.14 Tot. P: 5.2
Tot. Al: 138.5 Ext. Al: 31.2 Fe: 185.0 Mn: 18.0 SiO2: 3.45

ID: 1A3-001 Name: NATE POND State: NY Date: 15OCT84
Sample Type: REGULAR Latitude: 43-51'30"N Longitude: 74-05'30"W
Elevation: 614 Surface Temp: 12.3 Stratified: MIXED Site Depth: 6.7
Lake Area: 9 Watershed Area: 109 WA/LA: 12.8 Hydro Type: DRAINAGE
Residence Time: 0.45 Secchi Depth: 4.1 Turbidity: 0.4 Color: 20
Closed pH: 6.84 Equil. pH: 7.07 ANC: 85.0 DOC: 4.32
Closed DIC: 1.08 Equil. DIC: 0.90 Meas. Cond: 30.4 Cal. Cond: 29.3
Ca: 139.6 Mg: 57.3 Na: 39.4 K: 10.1 NH4: 1.7
SO4: 135.0 HCO3: 74.3 Cl: 8.6 NO3: 0.6 F: 4.0
Sum Cations: 248.3 Sum Anions: 222.6 Cations/Anions: 1.12 Tot. P: 1.6
Tot. Al: 95.6 Ext. Al: 11.4 Fe: 18.0 Mn: 5.0 SiO2: 3.61

ID: 1A3-007 Name: KEENAN POND State: NY Date: 08OCT84
Sample Type: REGULAR Latitude: 44-26'00"N Longitude: 73-28'15"W
Elevation: 253 Surface Temp: 10.4 Stratified: MIXED Site Depth: 2.1
Lake Area: 9 Watershed Area: 264 WA/LA: 29.3 Hydro Type: DRAINAGE
Residence Time: 0.08 Secchi Depth: 2.3 Turbidity: 1.1 Color: 30
Closed pH: 7.74 Equil. pH: 7.88 ANC: 460.2 DOC: 7.68
Closed DIC: 5.41 Equil. DIC: 5.04 Meas. Cond: 77.1 Cal. Cond: 83.9
Ca: 499.0 Mg: 174.4 Na: 100.9 K: 2.6 NH4: 1.8
SO4: 143.9 HCO3: 424.8 Cl: 116.7 NO3: 1.8 F: 1.3
Sum Cations: 778.8 Sum Anions: 690.1 Cations/Anions: 1.13 Tot. P: 8.7
Tot. Al: 61.0 Ext. Al: 0.0 Fe: 11.0 Mn: 12.0 SiO2: 1.12

(continued)

TABLE 3-1 (continued)

ID: 1A3-008 Name: BUTTERFIELD LAKE State: NY Date: 17OCT84
Sample Type: REGULAR Latitude: 44-19'00"N Longitude: 75-46'45"W
Elevation: 85 Surface Temp: 14.2 Stratified: MIXED Site Depth: 13.1
Lake Area: 390 Watershed Area: 3559 WA/LA: 9.1 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 2.4 Turbidity: 3.0 Color: 10
Closed pH: 8.28 Equil. pH: 8.13 ANC: 879.1 DOC: 3.93
Closed DIC: 9.47 Equil. DIC: 9.28 Meas. Cond: 121.1 Cal. Cond: 129.0
Ca: 768.7 Mg: 230.7 Na: 154.2 K: 25.7 NH4: 1.1
SO4: 180.7 HCO3: 788.9 Cl: 146.1 NO3: 0.0 F: 3.6
Sum Cations: 1180.5 Sum Anions: 1125.1 Cations/Anions: 1.05 Tot. P: 12.8
Tot. Al: 35.4 Ext. Al: 7.6 Fe: 20.0 Mn: 12.0 SiO2: 2.76

ID: 1A3-009 Name: CRYSTAL LAKE State: NY Date: 17OCT84
Sample Type: REGULAR Latitude: 44-16'30"N Longitude: 75-48'00"W
Elevation: 114 Surface Temp: 13.7 Stratified: MIXED Site Depth: 11.9
Lake Area: 36 Watershed Area: 329 WA/LA: 9.2 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 2.6 Turbidity: 2.4 Color: 15
Closed pH: 7.94 Equil. pH: 8.08 ANC: 831.3 DOC: 3.40
Closed DIC: 9.57 Equil. DIC: 9.07 Meas. Cond: 135.9 Cal. Cond: 147.8
Ca: 886.5 Mg: 191.3 Na: 193.1 K: 39.1 NH4: 1.6
SO4: 274.4 HCO3: 781.3 Cl: 198.0 NO3: 0.2 F: 3.1
Sum Cations: 1311.6 Sum Anions: 1260.5 Cations/Anions: 1.04 Tot. P: 10.6
Tot. Al: 46.1 Ext. Al: 8.3 Fe: 25.0 Mn: 18.0 SiO2: 1.14

ID: 1A3-010 Name: BIG POND State: NY Date: 08OCT84
Sample Type: REGULAR Latitude: 44-17'15"N Longitude: 73-33'20"W
Elevation: 188 Surface Temp: 7.8 Stratified: MIXED Site Depth: 0.9
Lake Area: 19 Watershed Area: 995 WA/LA: 52.9 Hydro Type: DRAINAGE
Residence Time: 0.02 Secchi Depth: 1.3 Turbidity: 0.6 Color: 60
Closed pH: 6.41 Equil. pH: 8.01 ANC: 636.5 DOC: 9.61
Closed DIC: 12.79 Equil. DIC: 7.06 Meas. Cond: 81.4 Cal. Cond: 93.8
Ca: 711.1 Mg: 181.8 Na: 50.5 K: 1.7 NH4: 1.4
SO4: 91.7 HCO3: 605.6 Cl: 61.2 NO3: 0.3 F: 1.7
Sum Cations: 946.5 Sum Anions: 761.5 Cations/Anions: 1.24 Tot. P: 0.8
Tot. Al: 27.6 Ext. Al: 0.0 Fe: 165.0 Mn: 28.0 SiO2: 8.45

ID: 1A3-011 Name: INDIAN LAKE State: NY Date: 17OCT84
Sample Type: REGULAR Latitude: 44-08'30"N Longitude: 75-27'10"W
Elevation: 225 Surface Temp: 14.3 Stratified: MIXED Site Depth: 9.2
Lake Area: 71 Watershed Area: 13919 WA/LA: 196.3 Hydro Type: DRAINAGE
Residence Time: 0.03 Secchi Depth: 2.6 Turbidity: 1.1 Color: 55
Closed pH: 7.72 Equil. pH: 8.02 ANC: 830.8 DOC: 7.74
Closed DIC: 9.66 Equil. DIC: 8.88 Meas. Cond: 105.8 Cal. Cond: 115.7
Ca: 749.2 Mg: 304.8 Na: 74.1 K: 11.7 NH4: 1.2
SO4: 131.9 HCO3: 755.1 Cl: 72.2 NO3: 0.3 F: 4.4
Sum Cations: 1141.1 Sum Anions: 968.9 Cations/Anions: 1.18 Tot. P: 1.4
Tot. Al: 135.4 Ext. Al: 7.2 Fe: 124.0 Mn: 26.0 SiO2: 3.72

ID: 1A3-013 Name: RUTLAND LAKE State: NY Date: 17OCT84
Sample Type: REGULAR Latitude: 43-57'05"N Longitude: 75-47'45"W
Elevation: 298 Surface Temp: 13.2 Stratified: MIXED Site Depth: 10.4
Lake Area: 6 Watershed Area: 914 WA/LA: 145.1 Hydro Type: DRAINAGE
Residence Time: 0.05 Secchi Depth: 7.0 Turbidity: 0.2 Color: 25
Closed pH: 7.83 Equil. pH: 8.46 ANC: 3226.8 DOC: 3.42
Closed DIC: 36.44 Equil. DIC: 37.15 Meas. Cond: 319.9 Cal. Cond: 377.5
Ca: 3028.4 Mg: 252.1 Na: 168.1 K: 33.3 NH4: 3.8
SO4: 136.8 HCO3: 3148.7 Cl: 247.0 NO3: 0.6 F: 2.4
Sum Cations: 3485.8 Sum Anions: 3576.1 Cations/Anions: 0.97 Tot. P: 0.3
Tot. Al: 20.9 Ext. Al: 5.6 Fe: 7.0 Mn: 1.0 SiO2: 7.03

(continued)

TABLE 3-1 (continued)

ID: 1A3-017 Name: SMITH POND State: NY Date: 18OCT84
Sample Type: REGULAR Latitude: 43-42'35"N Longitude: 73-48'00"W
Elevation: 246 Surface Temp: 14.0 Stratified: WEAK Site Depth: 10.1
Lake Area: 15 Watershed Area: 161 WA/LA: 10.6 Hydro Type: DRAINAGE
Residence Time: 0.81 Secchi Depth: 5.6 Turbidity: 0.2 Color: 20
Closed pH: 7.23 Equil. pH: 7.58 ANC: 212.9 DOC: 3.84
Closed DIC: 2.68 Equil. DIC: 2.37 Meas. Cond: 52.3 Cal. Cond: 57.8
Ca: 303.5 Mg: 74.9 Na: 105.6 K: 6.2 NH4: 0.9
SO4: 162.3 HCO3: 191.1 Cl: 108.0 NO3: 0.1 F: 2.8
Sum Cations: 491.2 Sum Anions: 464.6 Cations/Anions: 1.06 Tot. P: 2.3
Tot. Al: 53.2 Ext. Al: 0.9 Fe: 2.0 Mn: 2.0 SiO2: 0.39

ID: 1A3-018 Name: SULLIVAN POND State: NY Date: 03NOV84
Sample Type: REGULAR Latitude: 43-38'00"N Longitude: 73-49'10"W
Elevation: 329 Surface Temp: 9.6 Stratified: MIXED Site Depth: 3.1
Lake Area: 17 Watershed Area: 96 WA/LA: 5.8 Hydro Type: DRAINAGE
Residence Time: 0.43 Secchi Depth: 0.5 Turbidity: 0.9 Color: 75
Closed pH: 6.69 Equil. pH: 7.60 ANC: 276.9 DOC: 9.12
Closed DIC: 4.19 Equil. DIC: 2.72 Meas. Cond: 36.5 Cal. Cond: 36.0
Ca: 236.1 Mg: 68.8 Na: 57.8 K: 3.9 NH4: 3.5
SO4: 54.0 HCO3: 215.4 Cl: 10.1 NO3: 0.1 F: 3.0
Sum Cations: 370.2 Sum Anions: 282.8 Cations/Anions: 1.31 Tot. P: 12.2
Tot. Al: 61.7 Ext. Al: 4.9 Fe: 84.0 Mn: 9.0 SiO2: 7.05

ID: 1A3-019 Name: (NO NAME) State: NY Date: 17OCT84
Sample Type: REGULAR Latitude: 43-34'15"N Longitude: 76-12'00"W
Elevation: 75 Surface Temp: 14.7 Stratified: MIXED Site Depth: 0.7
Lake Area: 19 Watershed Area: 69925 WA/LA: 3661.0 Hydro Type: DRAINAGE
Residence Time: 0.00 Secchi Depth: 0.7 Turbidity: 2.4 Color: 45
Closed pH: 7.35 Equil. pH: 7.84 ANC: 457.3 DOC: 4.69
Closed DIC: 5.59 Equil. DIC: 4.48 Meas. Cond: 64.4 Cal. Cond: 65.4
Ca: 377.7 Mg: 161.6 Na: 46.2 K: 11.6 NH4: 2.8
SO4: 116.4 HCO3: 424.5 Cl: 31.0 NO3: 3.3 F: 1.7
Sum Cations: 599.9 Sum Anions: 577.9 Cations/Anions: 1.04 Tot. P: 26.6
Tot. Al: 86.3 Ext. Al: 9.5 Fe: 120.0 Mn: 31.0 SiO2: 1.78

ID: 1A3-020 Name: TROUT LAKE State: NY Date: 03NOV84
Sample Type: REGULAR Latitude: 43-32'30"N Longitude: 73-42'15"W
Elevation: 240 Surface Temp: 11.1 Stratified: MIXED Site Depth: 3.1
Lake Area: 103 Watershed Area: 1140 WA/LA: 11.1 Hydro Type: DRAINAGE
Residence Time: 0.30 Secchi Depth: 2.1 Turbidity: 0.5 Color: 20
Closed pH: 7.19 Equil. pH: 7.71 ANC: 347.3 DOC: 3.43
Closed DIC: 4.29 Equil. DIC: 3.66 Meas. Cond: 57.6 Cal. Cond: 57.9
Ca: 321.6 Mg: 92.8 Na: 90.3 K: 10.3 NH4: 1.7
SO4: 125.9 HCO3: 282.3 Cl: 72.9 NO3: 0.0 F: 3.8
Sum Cations: 516.6 Sum Anions: 485.3 Cations/Anions: 1.06 Tot. P: 8.2
Tot. Al: 20.5 Ext. Al: 1.5 Fe: 36.0 Mn: 34.0 SiO2: 3.38

ID: 1A3-021 Name: LOWER RESERVOIR State: NY Date: 17OCT84
Sample Type: REGULAR Latitude: 43-31'30"N Longitude: 75-57'30"W
Elevation: 198 Surface Temp: 13.4 Stratified: MIXED Site Depth: 8.5
Lake Area: 61 Watershed Area: 53458 WA/LA: 882.1 Hydro Type: RESERVOIR
Residence Time: 0.01 Secchi Depth: 2.4 Turbidity: 1.1 Color: 40
Closed pH: 7.25 Equil. pH: 7.86 ANC: 399.0 DOC: 4.95
Closed DIC: 4.84 Equil. DIC: 4.28 Meas. Cond: 59.1 Cal. Cond: 59.1
Ca: 351.5 Mg: 165.8 Na: 25.4 K: 8.7 NH4: 1.3
SO4: 115.9 HCO3: 368.1 Cl: 13.5 NO3: 7.9 F: 1.6
Sum Cations: 552.7 Sum Anions: 508.3 Cations/Anions: 1.09 Tot. P: 0.0
Tot. Al: 70.8 Ext. Al: 8.5 Fe: 27.0 Mn: 1.0 SiO2: 2.27

(continued)

TABLE 3-1 (continued)

ID: 1A3-022 Name: CROSSETT POND State: NY Date: 03NOV84
Sample Type: REGULAR Latitude: 43-30'00"N Longitude: 73-35'00"W
Elevation: 446 Surface Temp: 10.3 Stratified: WEAK Site Depth: 15.9
Lake Area: 45 Watershed Area: 155 WA/LA: 3.4 Hydro Type: DRAINAGE
Residence Time: 4.08 Secchi Depth: 5.5 Turbidity: 0.5 Color: 15
Closed pH: 6.94 Equil. pH: 7.53 ANC: 212.6 DOC: 3.79
Closed DIC: 2.84 Equil. DIC: 2.32 Meas. Cond: 39.5 Cal. Cond: 41.4
Ca: 240.7 Mg: 66.6 Na: 25.5 K: 11.5 NH4: 1.2
SO4: 138.3 HCO3: 197.9 Cl: 16.8 NO3: 0.3 F: 2.6
Sum Cations: 345.7 Sum Anions: 356.3 Cations/Anions: 0.97 Tot. P: 3.8
Tot. Al: 20.9 Ext. Al: 11.3 Fe: 20.0 Mn: 20.0 SiO2: 0.90

ID: 1A3-023 Name: LAKE LORAINE State: NY Date: 17OCT84
Sample Type: REGULAR Latitude: 43-27'30"N Longitude: 75-57'40"W
Elevation: 198 Surface Temp: 14.7 Stratified: MIXED Site Depth: 6.7
Lake Area: 7 Watershed Area: 98 WA/LA: 14.6 Hydro Type: DRAINAGE
Residence Time: 0.28 Secchi Depth: 1.3 Turbidity: 1.6 Color: 70
Closed pH: 6.89 Equil. pH: 7.94 ANC: 505.1 DOC: 8.83
Closed DIC: 7.31 Equil. DIC: 5.38 Meas. Cond: 80.1 Cal. Cond: 81.9
Ca: 395.7 Mg: 269.8 Na: 127.4 K: 12.3 NH4: 0.9
SO4: 156.9 HCO3: 461.7 Cl: 44.9 NO3: 0.1 F: 1.9
Sum Cations: 806.2 Sum Anions: 666.4 Cations/Anions: 1.21 Tot. P: 6.5
Tot. Al: 21.6 Ext. Al: 7.4 Fe: 157.0 Mn: 164.0 SiO2: 5.42

ID: 1A3-025 Name: HADLOCK POND State: NY Date: 03NOV84
Sample Type: REGULAR Latitude: 43-25'30"N Longitude: 73-34'15"W
Elevation: 138 Surface Temp: 12.1 Stratified: MIXED Site Depth: 5.9
Lake Area: 78 Watershed Area: 2277 WA/LA: 29.1 Hydro Type: RESERVOIR
Residence Time: 0.24 Secchi Depth: 4.4 Turbidity: 1.5 Color: 15
Closed pH: 7.53 Equil. pH: 7.97 ANC: 581.0 DOC: 2.88
Closed DIC: 6.57 Equil. DIC: 6.14 Meas. Cond: 80.8 Cal. Cond: 85.6
Ca: 505.0 Mg: 196.6 Na: 58.5 K: 11.6 NH4: 1.7
SO4: 187.4 HCO3: 525.9 Cl: 33.4 NO3: 0.0 F: 2.8
Sum Cations: 773.4 Sum Anions: 751.0 Cations/Anions: 1.03 Tot. P: 5.5
Tot. Al: 25.3 Ext. Al: 1.8 Fe: 16.0 Mn: 25.0 SiO2: 3.56

ID: 1A3-026 Name: COAN POND State: NY Date: 17OCT84
Sample Type: REGULAR Latitude: 43-24'20"N Longitude: 75-58'30"W
Elevation: 187 Surface Temp: 15.4 Stratified: MIXED Site Depth: 6.7
Lake Area: 23 Watershed Area: 161 WA/LA: 7.1 Hydro Type: DRAINAGE
Residence Time: 0.57 Secchi Depth: 2.9 Turbidity: 0.3 Color: 40
Closed pH: 7.25 Equil. pH: 7.90 ANC: 465.4 DOC: 6.34
Closed DIC: 5.80 Equil. DIC: 5.02 Meas. Cond: 66.4 Cal. Cond: 68.5
Ca: 320.9 Mg: 252.5 Na: 56.6 K: 6.0 NH4: 0.4
SO4: 126.0 HCO3: 427.1 Cl: 44.3 NO3: 0.3 F: 1.8
Sum Cations: 636.4 Sum Anions: 600.9 Cations/Anions: 1.06 Tot. P: 2.3
Tot. Al: 123.5 Ext. Al: 7.4 Fe: 30.0 Mn: 0.0 SiO2: 0.34

ID: 1A3-027 Name: BUTLER POND State: NY Date: 03NOV84
Sample Type: REGULAR Latitude: 43-22'15"N Longitude: 73-44'15"W
Elevation: 316 Surface Temp: 9.3 Stratified: MIXED Site Depth: 1.5
Lake Area: 35 Watershed Area: 277 WA/LA: 8.0 Hydro Type: DRAINAGE
Residence Time: 0.20 Secchi Depth: 1.9 Turbidity: 1.1 Color: 20
Closed pH: 6.87 Equil. pH: 7.09 ANC: 91.8 DOC: 3.66
Closed DIC: 1.17 Equil. DIC: 0.97 Meas. Cond: 29.7 Cal. Cond: 29.9
Ca: 142.2 Mg: 56.3 Na: 36.4 K: 4.9 NH4: 0.7
SO4: 141.8 HCO3: 79.4 Cl: 14.4 NO3: 0.0 F: 4.2
Sum Cations: 240.6 Sum Anions: 239.8 Cations/Anions: 1.00 Tot. P: 10.8
Tot. Al: 55.6 Ext. Al: 3.9 Fe: 33.0 Mn: 5.0 SiO2: 0.80

(continued)

TABLE 3-1 (continued)

ID: 1A3-028 Name: CURTIS LAKE State: NY Date: 31OCT84
Sample Type: REGULAR Latitude: 43-20'10"N Longitude: 74-57'40"W
Elevation: 426 Surface Temp: 12.3 Stratified: MIXED Site Depth: 7.0
Lake Area: 4 Watershed Area: 36 WA/LA: 9.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.6 Turbidity: 0.7 Color: 25
Closed pH: 5.11 Equil. pH: 5.23 ANC: 1.6 DOC: 3.01
Closed DIC: 0.72 Equil. DIC: 0.14 Meas. Cond: 11.2 Cal. Cond: 11.5
Ca: 38.0 Mg: 12.5 Na: 3.9 K: 6.5 NH4: 0.8
SO4: 56.0 HCO3: 3.6 Cl: 6.4 NO3: 0.3 F: 0.8
Sum Cations: 69.4 Sum Anions: 67.2 Cations/Anions: 1.03 Tot. P: 11.8
Tot. Al: 38.6 Ext. Al: 9.4 Fe: 49.0 Mn: 35.0 SiO2: 0.28

ID: 1A3-029 Name: KEENAN RESERVOIR State: NY Date: 03NOV84
Sample Type: REGULAR Latitude: 43-19'45"N Longitude: 73-45'30"W
Elevation: 362 Surface Temp: 10.6 Stratified: MIXED Site Depth: 4.6
Lake Area: 19 Watershed Area: 287 WA/LA: 15.1 Hydro Type: RESERVOIR
Residence Time: 0.34 Secchi Depth: 3.5 Turbidity: 0.6 Color: 25
Closed pH: 6.48 Equil. pH: 7.01 ANC: 62.8 DOC: 3.22
Closed DIC: 0.94 Equil. DIC: 0.73 Meas. Cond: 25.4 Cal. Cond: 25.6
Ca: 119.3 Mg: 37.5 Na: 37.8 K: 7.8 NH4: 0.8
SO4: 130.2 HCO3: 49.8 Cl: 13.0 NO3: 0.1 F: 4.1
Sum Cations: 203.6 Sum Anions: 197.1 Cations/Anions: 1.03 Tot. P: 6.7
Tot. Al: 44.9 Ext. Al: 4.4 Fe: 26.0 Mn: 3.0 SiO2: 1.75

ID: 1A3-030 Name: DELTA RESERVOIR State: NY Date: 17OCT84
Sample Type: REGULAR Latitude: 43-17'30"N Longitude: 75-26'15"W
Elevation: 167 Surface Temp: 14.1 Stratified: MIXED Site Depth: 7.0
Lake Area: 958 Watershed Area: 37239 WA/LA: 38.9 Hydro Type: RESERVOIR
Residence Time: 0.11 Secchi Depth: 1.3 Turbidity: 5.5 Color: 20
Closed pH: 7.90 Equil. pH: 8.40 ANC: 1515.8 DOC: 2.47
Closed DIC: 17.44 Equil. DIC: 16.39 Meas. Cond: 183.3 Cal. Cond: 194.1
Ca: 1342.8 Mg: 288.7 Na: 116.8 K: 21.6 NH4: 5.1
SO4: 258.3 HCO3: 1366.3 Cl: 104.6 NO3: 9.7 F: 2.6
Sum Cations: 1775.0 Sum Anions: 1754.3 Cations/Anions: 1.01 Tot. P: 20.2
Tot. Al: 242.5 Ext. Al: 9.2 Fe: 26.0 Mn: 29.0 SiO2: 2.49

ID: 1A3-031 Name: MOREAU LAKE State: NY Date: 03NOV84
Sample Type: REGULAR Latitude: 43-14'00"N Longitude: 73-42'45"W
Elevation: 101 Surface Temp: 12.7 Stratified: MIXED Site Depth: 13.7
Lake Area: 28 Watershed Area: 231 WA/LA: 8.1 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 6.8 Turbidity: 0.3 Color: 10
Closed pH: 7.45 Equil. pH: 8.00 ANC: 630.7 DOC: 3.00
Closed DIC: 7.36 Equil. DIC: 6.69 Meas. Cond: 95.7 Cal. Cond: 100.3
Ca: 611.3 Mg: 175.2 Na: 114.0 K: 11.6 NH4: 3.0
SO4: 226.3 HCO3: 510.1 Cl: 89.0 NO3: 0.1 F: 2.3
Sum Cations: 915.1 Sum Anions: 829.6 Cations/Anions: 1.10 Tot. P: 7.8
Tot. Al: 60.5 Ext. Al: 7.2 Fe: 12.0 Mn: 4.0 SiO2: 1.02

ID: 1A3-032 Name: PORT RESERVOIR State: NY Date: 04NOV84
Sample Type: REGULAR Latitude: 43-05'15"N Longitude: 74-21'30"W
Elevation: 352 Surface Temp: 9.8 Stratified: MIXED Site Depth: 4.6
Lake Area: 7 Watershed Area: 184 WA/LA: 27.5 Hydro Type: RESERVOIR
Residence Time: 0.15 Secchi Depth: 1.7 Turbidity: 2.4 Color: 40
Closed pH: 7.15 Equil. pH: 7.82 ANC: 447.1 DOC: 5.16
Closed DIC: 6.03 Equil. DIC: 4.84 Meas. Cond: 56.2 Cal. Cond: 63.1
Ca: 371.8 Mg: 107.8 Na: 54.0 K: 7.3 NH4: 0.9
SO4: 148.9 HCO3: 415.7 Cl: 17.5 NO3: 0.0 F: 3.3
Sum Cations: 541.9 Sum Anions: 586.3 Cations/Anions: 0.92 Tot. P: 10.1
Tot. Al: 29.6 Ext. Al: 1.9 Fe: 123.0 Mn: 6.0 SiO2: 5.01

(continued)

TABLE 3-1 (continued)

ID: 1A3-037 Name: BALLSTON LAKE (NORTH END) State: NY Date: 04NOV84
Sample Type: REGULAR Latitude: 42-57'00"N Longitude: 73-51'10"W
Elevation: 77 Surface Temp: 11.5 Stratified: MIXED Site Depth: 4.9
Lake Area: 104 Watershed Area: 2764 WA/LA: 26.5 Hydro Type: DRAINAGE
Residence Time: 0.21 Secchi Depth: 1.7 Turbidity: 2.4 Color: 35
Closed pH: 7.96 Equil. pH: 8.36 ANC: 1481.1 DOC: 6.03
Closed DIC: 17.75 Equil. DIC: 16.36 Meas. Cond: 254.4 Cal. Cond: 270.9
Ca: 1260.5 Mg: 553.6 Na: 570.7 K: 37.6 NH4: 1.2
SO4: 355.7 HCO3: 1338.9 Cl: 608.0 NO3: 0.0 F: 4.4
Sum Cations: 2423.6 Sum Anions: 2313.8 Cations/Anions: 1.05 Tot. P: 21.9
Tot. Al: 111.3 Ext. Al: 2.5 Fe: 2.0 Mn: 0.0 SiO2: 0.48

ID: 1A3-038 Name: LITTLE ROUND POND State: NY Date: 04NOV84
Sample Type: REGULAR Latitude: 42-56'25"N Longitude: 73-46'40"W
Elevation: 47 Surface Temp: 11.1 Stratified: MIXED Site Depth: 5.8
Lake Area: 12 Watershed Area: 148 WA/LA: 12.4 Hydro Type: DRAINAGE
Residence Time: 0.51 Secchi Depth: 0.8 Turbidity: 3.4 Color: 35
Closed pH: 7.52 Equil. pH: 8.29 ANC: 1504.2 DOC: 6.21
Closed DIC: 18.76 Equil. DIC: 16.45 Meas. Cond: 231.7 Cal. Cond: 244.2
Ca: 1268.0 Mg: 446.7 Na: 442.0 K: 32.6 NH4: 24.3
SO4: 245.5 HCO3: 1394.7 Cl: 476.3 NO3: 1.2 F: 4.0
Sum Cations: 2213.6 Sum Anions: 2128.7 Cations/Anions: 1.04 Tot. P: 64.7
Tot. Al: 131.8 Ext. Al: 1.7 Fe: 71.0 Mn: 104.0 SiO2: 2.97

ID: 1A3-039 Name: WOODMAN POND State: NY Date: 15NOV84
Sample Type: REGULAR Latitude: 42-51'15"N Longitude: 75-34'10"W
Elevation: 347 Surface Temp: 6.4 Stratified: MIXED Site Depth: 14.0
Lake Area: 38 Watershed Area: 3761 WA/LA: 99.5 Hydro Type: DRAINAGE
Residence Time: 0.13 Secchi Depth: 8.8 Turbidity: 0.7 Color: 20
Closed pH: 8.08 Equil. pH: 8.77 ANC: 2722.0 DOC: 3.40
Closed DIC: 32.37 Equil. DIC: 29.04 Meas. Cond: 317.5 Cal. Cond: 370.9
Ca: 1810.4 Mg: 1378.7 Na: 273.2 K: 22.5 NH4: 6.1
SO4: 372.3 HCO3: 2408.6 Cl: 462.1 NO3: 1.0 F: 2.2
Sum Cations: 3490.8 Sum Anions: 3275.2 Cations/Anions: 1.07 Tot. P: 7.0
Tot. Al: 20.0 Ext. Al: 1.0 Fe: 0.0 Mn: 0.0 SiO2: 4.57

ID: 1A3-040 Name: ZACK POND State: NY Date: 15OCT84
Sample Type: REGULAR Latitude: 43-56'00"N Longitude: 74-11'00"W
Elevation: 566 Surface Temp: 13.1 Stratified: MIXED Site Depth: 7.6
Lake Area: 36 Watershed Area: 202 WA/LA: 5.6 Hydro Type: DRAINAGE
Residence Time: 1.08 Secchi Depth: 7.5 Turbidity: 0.2 Color: 10
Closed pH: 6.83 Equil. pH: 7.09 ANC: 75.7 DOC: 2.55
Closed DIC: 1.08 Equil. DIC: 0.33 Meas. Cond: 24.0 Cal. Cond: 24.1
Ca: 126.1 Mg: 36.4 Na: 31.8 K: 5.5 NH4: 1.8
SO4: 108.6 HCO3: 65.1 Cl: 10.2 NO3: 0.1 F: 2.6
Sum Cations: 201.7 Sum Anions: 186.7 Cations/Anions: 1.08 Tot. P: 0.0
Tot. Al: 11.9 Ext. Al: 0.9 Fe: 49.0 Mn: 2.0 SiO2: 0.12

ID: 1A3-041 Name: THIRD LAKE (ESSEX CHAIN) State: NY Date: 15OCT84
Sample Type: REGULAR Latitude: 43-52'30"N Longitude: 74-15'00"W
Elevation: 487 Surface Temp: 13.2 Stratified: MIXED Site Depth: 6.7
Lake Area: 102 Watershed Area: 1914 WA/LA: 18.7 Hydro Type: DRAINAGE
Residence Time: 0.26 Secchi Depth: 4.8 Turbidity: 0.3 Color: 25
Closed pH: 7.56 Equil. pH: 7.92 ANC: 460.0 DOC: 4.44
Closed DIC: 5.35 Equil. DIC: 5.13 Meas. Cond: 57.6 Cal. Cond: 65.1
Ca: 522.0 Mg: 63.3 Na: 28.1 K: 12.1 NH4: 1.4
SO4: 113.3 HCO3: 410.3 Cl: 8.7 NO3: 0.5 F: 2.7
Sum Cations: 626.8 Sum Anions: 537.4 Cations/Anions: 1.17 Tot. P: 1.7
Tot. Al: 21.8 Ext. Al: 0.1 Fe: 25.0 Mn: 12.0 SiO2: 1.70

(continued)

TABLE 3-1 (continued)

ID: 1A3-042 Name: CHENEY POND State: NY Date: 15OCT84
Sample Type: REGULAR Latitude: 43-52'40"N Longitude: 74-09'45"W
Elevation: 503 Surface Temp: 12.0 Stratified: MIXED Site Depth: 2.4
Lake Area: 7 Watershed Area: 158 WA/LA: 21.6 Hydro Type: DRAINAGE
Residence Time: 0.10 Secchi Depth: 2.5 Turbidity: 0.9 Color: 20
Closed pH: 6.03 Equil. pH: 6.65 ANC: 40.3 DOC: 5.13
Closed DIC: 1.19 Equil. DIC: 0.46 Meas. Cond: 25.2 Cal. Cond: 24.4
Ca: 121.3 Mg: 32.7 Na: 32.9 K: 3.5 NH4: 5.9
SO4: 130.8 HCO3: 33.7 Cl: 9.4 NO3: 0.6 F: 3.2
Sum Cations: 196.8 Sum Anions: 177.7 Cations/Anions: 1.11 Tot. P: 2.1
Tot. Al: 106.9 Ext. Al: 20.0 Fe: 66.0 Mn: 20.0 SiO2: 2.24

ID: 1A3-043 Name: UNKNOWN POND State: NY Date: 15OCT84
Sample Type: REGULAR Latitude: 43-49'10"N Longitude: 74-17'00"W
Elevation: 497 Surface Temp: 11.7 Stratified: MIXED Site Depth: 4.6
Lake Area: 14 Watershed Area: 497 WA/LA: 35.8 Hydro Type: DRAINAGE
Residence Time: 0.09 Secchi Depth: 2.2 Turbidity: 0.7 Color: 65
Closed pH: 6.81 Equil. pH: 7.55 ANC: 250.5 DOC: 6.95
Closed DIC: 3.47 Equil. DIC: 2.67 Meas. Cond: 53.8 Cal. Cond: 57.3
Ca: 316.2 Mg: 59.6 Na: 140.5 K: 7.5 NH4: 1.8
SO4: 94.0 HCO3: 209.6 Cl: 138.4 NO3: 0.1 F: 3.4
Sum Cations: 525.7 Sum Anions: 445.8 Cations/Anions: 1.18 Tot. P: 0.0
Tot. Al: 124.4 Ext. Al: 10.4 Fe: 92.0 Mn: 12.0 SiO2: 5.61

ID: 1A3-044 Name: ROSS POND State: NY Date: 15OCT84
Sample Type: REGULAR Latitude: 43-47'40"N Longitude: 74-08'45"W
Elevation: 533 Surface Temp: 12.6 Stratified: MIXED Site Depth: 7.3
Lake Area: 10 Watershed Area: 106 WA/LA: 11.2 Hydro Type: DRAINAGE
Residence Time: 0.56 Secchi Depth: 3.4 Turbidity: 0.4 Color: 30
Closed pH: 6.31 Equil. pH: 6.92 ANC: 41.7 DOC: 4.55
Closed DIC: 1.10 Equil. DIC: 0.62 Meas. Cond: 21.8 Cal. Cond: 22.3
Ca: 112.4 Mg: 42.8 Na: 21.2 K: 10.2 NH4: 2.2
SO4: 106.8 HCO3: 42.4 Cl: 8.4 NO3: 0.0 F: 2.8
Sum Cations: 189.1 Sum Anions: 160.5 Cations/Anions: 1.18 Tot. P: 0.0
Tot. Al: 90.3 Ext. Al: 8.7 Fe: 125.0 Mn: 22.0 SiO2: 0.09

ID: 1A3-045 Name: CENTER POND State: NY Date: 15OCT84
Sample Type: REGULAR Latitude: 43-44'30"N Longitude: 74-13'00"W
Elevation: 527 Surface Temp: 11.3 Stratified: MIXED Site Depth: 4.3
Lake Area: 6 Watershed Area: 259 WA/LA: 43.2 Hydro Type: DRAINAGE
Residence Time: 0.09 Secchi Depth: 1.4 Turbidity: 0.6 Color: 75
Closed pH: 6.26 Equil. pH: 7.50 ANC: 213.9 DOC: 7.01
Closed DIC: 5.00 Equil. DIC: 2.07 Meas. Cond: 35.0 Cal. Cond: 35.4
Ca: 224.6 Mg: 69.7 Na: 38.5 K: 6.0 NH4: 1.7
SO4: 91.9 HCO3: 169.9 Cl: 9.3 NO3: 0.1 F: 2.6
Sum Cations: 340.6 Sum Anions: 273.9 Cations/Anions: 1.24 Tot. P: 4.0
Tot. Al: 63.7 Ext. Al: 7.5 Fe: 119.0 Mn: 15.0 SiO2: 5.40

ID: 1A3-046 Name: LONG POND State: NY Date: 15OCT84
Sample Type: REGULAR Latitude: 43-38'15"N Longitude: 74-17'20"W
Elevation: 564 Surface Temp: 13.0 Stratified: MIXED Site Depth: 10.4
Lake Area: 15 Watershed Area: 155 WA/LA: 10.1 Hydro Type: DRAINAGE
Residence Time: 0.72 Secchi Depth: 4.7 Turbidity: 0.3 Color: 10
Closed pH: 6.07 Equil. pH: 6.44 ANC: 26.3 DOC: 2.81
Closed DIC: 0.58 Equil. DIC: 0.91 Meas. Cond: 21.3 Cal. Cond: 20.7
Ca: 95.3 Mg: 35.9 Na: 22.4 K: 5.8 NH4: 1.7
SO4: 122.0 HCO3: 17.6 Cl: 7.5 NO3: 0.0 F: 2.3
Sum Cations: 161.7 Sum Anions: 149.4 Cations/Anions: 1.08 Tot. P: 0.0
Tot. Al: 33.4 Ext. Al: 6.2 Fe: 51.0 Mn: 17.0 SiO2: 1.51

(continued)

TABLE 3-1 (continued)

ID: 1A3-047 Name: INDEPENDENCE LAKE State: NY Date: 14OCT84
Sample Type: REG/SPC/NRC/ Latitude: 43-46'20"N Longitude: 74-58'45"W
Elevation: 589 Surface Temp: 12.5 Stratified: MIXED Site Depth: 3.0
Lake Area: 20 Watershed Area: 168 WA/LA: 8.4 Hydro Type: DRAINAGE
Residence Time: 0.21 Secchi Depth: 2.2 Turbidity: 1.1 Color: 25
Closed pH: 6.71 Equil. pH: 6.68 ANC: 44.1 DOC: 4.69
Closed DIC: 0.51 Equil. DIC: 0.49 Meas. Cond: 24.1 Cal. Cond: 22.2
Ca: 100.3 Mg: 31.1 Na: 43.4 K: 9.4 NH4: 0.0
SO4: 113.0 HCO3: 37.3 Cl: 7.9 NO3: 0.2 F: 5.8
Sum Cations: 184.6 Sum Anions: 164.2 Cations/Anions: 1.12 Tot. P: 1.6
Tot. Al: 58.8 Ext. Al: 8.3 Fe: 0.0 Mn: 0.0 SiO2: 4.79

ID: 1A3-048 Name: GRASS POND State: NY Date: 14OCT84
Sample Type: REGULAR Latitude: 43-41'35"N Longitude: 75-03'40"W
Elevation: 546 Surface Temp: 11.9 Stratified: MIXED Site Depth: 5.5
Lake Area: 5 Watershed Area: 228 WA/LA: 44.7 Hydro Type: DRAINAGE
Residence Time: 0.07 Secchi Depth: 4.8 Turbidity: 0.3 Color: 30
Closed pH: 5.34 Equil. pH: 5.54 ANC: 14.6 DOC: 4.67
Closed DIC: 0.86 Equil. DIC: 0.18 Meas. Cond: 25.2 Cal. Cond: 22.9
Ca: 93.4 Mg: 27.1 Na: 35.3 K: 8.2 NH4: 1.3
SO4: 126.0 HCO3: 5.6 Cl: 8.8 NO3: 12.3 F: 4.9
Sum Cations: 169.0 Sum Anions: 157.5 Cations/Anions: 1.07 Tot. P: 0.2
Tot. Al: 459.8 Ext. Al: 197.7 Fe: 36.0 Mn: 53.0 SiO2: 7.04

ID: 1A3-049 Name: NELSON LAKE State: NY Date: 16OCT84
Sample Type: REGULAR Latitude: 43-38'45"N Longitude: 75-03'30"W
Elevation: 487 Surface Temp: 13.3 Stratified: MIXED Site Depth: 1.8
Lake Area: 37 Watershed Area: 495 WA/LA: 13.5 Hydro Type: DRAINAGE
Residence Time: 0.08 Secchi Depth: 2.0 Turbidity: 1.0 Color: 40
Closed pH: 6.34 Equil. pH: 7.00 ANC: 76.6 DOC: 4.40
Closed DIC: 1.34 Equil. DIC: 0.79 Meas. Cond: 28.0 Cal. Cond: 28.0
Ca: 138.1 Mg: 45.3 Na: 45.2 K: 9.6 NH4: 2.9
SO4: 118.5 HCO3: 57.4 Cl: 17.7 NO3: 6.6 F: 4.3
Sum Cations: 241.3 Sum Anions: 204.6 Cations/Anions: 1.18 Tot. P: 2.6
Tot. Al: 167.6 Ext. Al: 22.3 Fe: 97.0 Mn: 36.0 SiO2: 5.75

ID: 1A3-051 Name: ROUND POND State: NY Date: 03NOV84
Sample Type: REGULAR Latitude: 43-21'09"N Longitude: 73-40'37"W
Elevation: 122 Surface Temp: 13.2 Stratified: MIXED Site Depth: 11.0
Lake Area: 14 Watershed Area: 117 WA/LA: 8.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 5.4 Turbidity: 0.3 Color: 10
Closed pH: 7.74 Equil. pH: 8.35 ANC: 1480.3 DOC: 2.80
Closed DIC: 16.63 Equil. DIC: 15.35 Meas. Cond: 152.4 Cal. Cond: 154.6
Ca: 1029.4 Mg: 440.1 Na: 66.2 K: 19.0 NH4: 3.7
SO4: 70.3 HCO3: 1186.4 Cl: 78.5 NO3: 0.3 F: 2.3
Sum Cations: 1558.5 Sum Anions: 1345.6 Cations/Anions: 1.16 Tot. P: 4.2
Tot. Al: 40.0 Ext. Al: 5.4 Fe: 0.0 Mn: 0.0 SiO2: 0.46

ID: 1A3-053 Name: GREEN POND State: NY Date: 17OCT84
Sample Type: REGULAR Latitude: 43-28'47"N Longitude: 75-56'05"W
Elevation: 189 Surface Temp: 13.6 Stratified: MIXED Site Depth: 1.5
Lake Area: 14 Watershed Area: 96 WA/LA: 6.9 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 1.8 Turbidity: 0.2 Color: 10
Closed pH: 8.14 Equil. pH: 8.46 ANC: 1677.3 DOC: 0.76
Closed DIC: 19.21 Equil. DIC: 18.46 Meas. Cond: 180.1 Cal. Cond: 183.2
Ca: 1140.7 Mg: 647.4 Na: 56.7 K: 9.8 NH4: 2.7
SO4: 60.0 HCO3: 1528.4 Cl: 9.8 NO3: 28.2 F: 1.2
Sum Cations: 1857.3 Sum Anions: 1650.7 Cations/Anions: 1.13 Tot. P: 0.0
Tot. Al: 21.2 Ext. Al: 7.1 Fe: 0.0 Mn: 20.0 SiO2: 0.01

(continued)

TABLE 3-1 (continued)

ID: 1A3-057 Name: (NO NAME) State: NY Date: 08OCT84
Sample Type: REGULAR Latitude: 44-41'47"N Longitude: 73-37'50"W
Elevation: 223 Surface Temp: 8.5 Stratified: MIXED Site Depth: 9.1
Lake Area: 9 Watershed Area: 149909 WA/LA: 16843.7 Hydro Type: RESERVOIR
Residence Time: 0.00 Secchi Depth: 3.4 Turbidity: 0.8 Color: 35
Closed pH: 7.04 Equil. pH: 7.82 ANC: 422.4 DOC: 5.25
Closed DIC: 4.93 Equil. DIC: 4.69 Meas. Cond: 73.9 Cal. Cond: 81.9
Ca: 448.1 Mg: 181.8 Na: 139.6 K: 14.3 NH4: 1.2
SO4: 146.7 HCO3: 379.3 Cl: 113.1 NO3: 0.0 F: 2.6
Sum Cations: 785.0 Sum Anions: 643.1 Cations/Anions: 1.22 Tot. P: 1.3
Tot. Al: 50.9 Ext. Al: 0.0 Fe: 171.0 Mn: 21.0 SiO2: 6.96

ID: 1A3-058 Name: RICE RESERVOIR State: NY Date: 04NOV84
Sample Type: REGULAR Latitude: 43-05'37"N Longitude: 74-20'18"W
Elevation: 339 Surface Temp: 9.9 Stratified: MIXED Site Depth: 4.6
Lake Area: 7 Watershed Area: 311 WA/LA: 42.6 Hydro Type: RESERVOIR
Residence Time: 0.10 Secchi D pth: 1.7 Turbidity: 1.4 Color: 30
Closed pH: 7.29 Equil. pH: 7.38 ANC: 208.7 DOC: 3.27
Closed DIC: 2.69 Equil. DIC: 2.35 Meas. Cond: 37.7 Cal. Cond: 38.0
Ca: 207.6 Mg: 62.6 Na: 44.1 K: 8.4 NH4: 0.9
SO4: 122.3 HCO3: 184.0 Cl: 15.8 NO3: 1.0 F: 3.0
Sum Cations: 323.8 Sum Anions: 326.5 Cations/Anions: 0.99 Tot. P: 6.3
Tot. Al: 47.8 Ext. Al: 2.7 Fe: 52.0 Mn: 0.0 SiO2: 3.33

ID: 1A3-060 Name: BUTTERNUT POND State: NY Date: 08OCT84
Sample Type: REGULAR Latitude: 44-25'45"N Longitude: 73-29'52"W
Elevation: 203 Surface Temp: 10.4 Stratified: MIXED Site Depth: 3.0
Lake Area: 65 Watershed Area: 1370 WA/LA: 21.0 Hydro Type: DRAINAGE
Residence Time: 0.16 Secchi Depth: 3.5 Turbidity: 0.3 Color: 15
Closed pH: 7.45 Equil. pH: 7.92 ANC: 529.7 DOC: 4.27
Closed DIC: 5.83 Equil. DIC: 6.00 Meas. Cond: 145.2 Cal. Cond: 150.0
Ca: 605.8 Mg: 181.8 Na: 517.2 K: 8.1 NH4: 1.9
SO4: 162.2 HCO3: 475.1 Cl: 567.0 NO3: 0.1 F: 1.5
Sum Cations: 1314.8 Sum Anions: 1208.4 Cations/Anions: 1.09 Tot. P: 2.6
Tot. Al: 43.5 Ext. Al: 0.0 Fe: 11.0 Mn: 3.0 SiO2: 0.65

ID: 1A3-061 Name: CRYSTAL LAKE State: NY Date: 18OCT84
Sample Type: REGULAR Latitude: 43-39'22"N Longitude: 73-44'35"W
Elevation: 290 Surface Temp: 13.9 Stratified: WEAK Site Depth: 12.1
Lake Area: 21 Watershed Area: 321 WA/LA: 15.4 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 6.2 Turbidity: 0.2 Color: 20
Closed pH: 7.36 Equil. pH: 7.68 ANC: 274.0 DOC: 3.07
Closed DIC: 3.36 Equil. DIC: 3.08 Meas. Cond: 49.4 Cal. Cond: 55.1
Ca: 319.7 Mg: 87.1 Na: 64.6 K: 7.9 NH4: 1.1
SO4: 153.1 HCO3: 270.2 Cl: 41.1 NO3: 0.1 F: 1.7
Sum Cations: 480.4 Sum Anions: 466.9 Cations/Anions: 1.03 Tot. P: 1.8
Tot. Al: 59.0 Ext. Al: 0.0 Fe: 1.0 Mn: 0.0 SiO2: 2.99

ID: 1A3-062 Name: SOUTH COLWELL POND State: NY Date: 17OCT84
Sample Type: REGULAR Latitude: 43-41'58"N Longitude: 76-11'43"W
Elevation: 75 Surface Temp: 14.6 Stratified: MIXED Site Depth: 1.0
Lake Area: 42 Watershed Area: 324 WA/LA: 7.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.0 Turbidity: 1.7 Color: 30
Closed pH: 9.36 Equil. pH: 8.90 ANC: 1198.1 DOC: 5.40
Closed DIC: 11.51 Equil. DIC: 12.04 Meas. Cond: 220.3 Cal. Cond: 229.7
Ca: 989.5 Mg: 501.0 Na: 460.2 K: 19.2 NH4: 1.4
SO4: 266.2 HCO3: 1004.6 Cl: 632.6 NO3: 0.7 F: 5.1
Sum Cations: 1971.3 Sum Anions: 1983.6 Cations/Anions: 0.99 Tot. P: 21.6
Tot. Al: 33.9 Ext. Al: 7.1 Fe: 20.0 Mn: 6.0 SiO2: 0.43

(continued)

TABLE 3-1 (continued)

ID: 1A3-063 Name: (NO NAME) State: NY Date: 14OCT84
Sample Type: REGULAR Latitude: 43-41'44"N Longitude: 75-00'18"W
Elevation: 516 Surface Temp: 12.3 Stratified: MIXED Site Depth: 3.0
Lake Area: 16 Watershed Area: 29143 WA/LA: 1810.1 Hydro Type: DRAINAGE
Residence Time: 0.00 Secchi Depth: 3.0 Turbidity: 0.6 Color: 20
Closed pH: 6.55 Equil. pH: 7.28 ANC: 121.4 DOC: 3.03
Closed DIC: 2.20 Equil. DIC: 1.39 Meas. Cond: 38.5 Cal. Cond: 36.4
Ca: 165.3 Mg: 56.3 Na: 60.8 K: 14.4 NH4: 1.7
SO4: 123.5 HCO3: 114.5 Cl: 32.8 NO3: 18.2 F: 9.3
Sum Cations: 298.7 Sum Anions: 298.4 Cations/Anions: 1.00 Tot. P: 7.4
Tot. Al: 108.5 Ext. Al: 11.1 Fe: 123.0 Mn: 29.0 SiO2: 6.20

ID: 1A3-064 Name: CORK CENTER RESERVOIR State: NY Date: 04NOV84
Sample Type: REGULAR Latitude: 43-02'29"N Longitude: 74-27'58"W
Elevation: 326 Surface Temp: 9.4 Stratified: MIXED Site Depth: 2.2
Lake Area: 16 Watershed Area: 111 WA/LA: 7.2 Hydro Type: RESERVOIR
Residence Time: 0.32 Secchi Depth: 2.3 Turbidity: 0.9 Color: 20
Closed pH: 7.75 Equil. pH: 8.18 ANC: 1072.4 DOC: 2.56
Closed DIC: 12.74 Equil. DIC: 11.29 Meas. Cond: 135.3 Cal. Cond: 132.1
Ca: 972.6 Mg: 188.4 Na: 178.0 K: 8.8 NH4: 0.8
SO4: 121.2 HCO3: 966.7 Cl: 15.8 NO3: 1.1 F: 3.5
Sum Cations: 1348.5 Sum Anions: 1115.5 Cations/Anions: 1.21 Tot. P: 11.0
Tot. Al: 81.0 Ext. Al: 4.3 Fe: 40.0 Mn: 2.0 SiO2: 1.04

ID: 1A3-065 Name: SOUTH LAKE (EAST BRANCH) State: NY Date: 16OCT84
Sample Type: REGULAR Latitude: 43-30'54"N Longitude: 74-53'32"W
Elevation: 615 Surface Temp: 13.2 Stratified: MIXED Site Depth: 8.0
Lake Area: 196 Watershed Area: 1644 WA/LA: 8.4 Hydro Type: RESERVOIR
Residence Time: 0.57 Secchi Depth: 8.0 Turbidity: 0.2 Color: 10
Closed pH: 5.22 Equil. pH: 5.34 ANC: 2.9 DOC: 1.67
Closed DIC: 0.35 Equil. DIC: 0.24 Meas. Cond: 21.9 Cal. Cond: 21.0
Ca: 72.6 Mg: 25.3 Na: 22.7 K: 6.1 NH4: 1.9
SO4: 113.5 HCO3: 1.5 Cl: 7.8 NO3: 15.1 F: 2.8
Sum Cations: 136.1 Sum Anions: 140.8 Cations/Anions: 0.97 Tot. P: 0.0
Tot. Al: 161.5 Ext. Al: 7.4 Fe: 47.0 Mn: 66.0 SiO2: 2.84

ID: 1A3-066 Name: ROCK POND State: NY Date: 15OCT84
Sample Type: REGULAR Latitude: 43-37'50"N Longitude: 74-18'12"W
Elevation: 570 Surface Temp: 12.7 Stratified: MIXED Site Depth: 3.0
Lake Area: 13 Watershed Area: 109 WA/LA: 8.1 Hydro Type: DRAINAGE
Residence Time: 0.26 Secchi Depth: 3.5 Turbidity: 0.3 Color: 10
Closed pH: 5.69 Equil. pH: 5.90 ANC: 11.3 DOC: 3.61
Closed DIC: 0.43 Equil. DIC: 0.22 Meas. Cond: 18.7 Cal. Cond: 18.5
Ca: 82.2 Mg: 28.1 Na: 21.1 K: 5.9 NH4: 1.6
SO4: 112.7 HCO3: 9.7 Cl: 6.0 NO3: 0.0 F: 2.5
Sum Cations: 140.3 Sum Anions: 130.9 Cations/Anions: 1.07 Tot. P: 1.5
Tot. Al: 56.6 Ext. Al: 22.0 Fe: 62.0 Mn: 13.0 SiO2: 0.22

ID: 1A3-067 Name: ADIRONDACK LAKE State: NY Date: 30OCT84
Sample Type: REGULAR Latitude: 43-47'22"N Longitude: 74-15'42"W
Elevation: 506 Surface Temp: 11.4 Stratified: MIXED Site Depth: 3.0
Lake Area: 85 Watershed Area: 298 WA/LA: 3.5 Hydro Type: RESERVOIR
Residence Time: 0.55 Secchi Depth: 2.4 Turbidity: 0.8 Color: 30
Closed pH: 7.16 Equil. pH: 7.94 ANC: 605.0 DOC: 5.01
Closed DIC: 7.65 Equil. DIC: 6.44 Meas. Cond: 84.2 Cal. Cond: 86.8
Ca: 568.1 Mg: 104.6 Na: 88.7 K: 25.2 NH4: 5.9
SO4: 104.7 HCO3: 523.9 Cl: 102.6 NO3: 13.6 F: 2.1
Sum Cations: 792.5 Sum Anions: 748.2 Cations/Anions: 1.06 Tot. P: 11.8
Tot. Al: 16.2 Ext. Al: 0.0 Fe: 85.0 Mn: 13.0 SiO2: 1.96

(continued)

TABLE 3-1 (continued)

ID: 1B1-002 Name: ROUND POND State: NY Date: 15NOV84
Sample Type: REGULAR Latitude: 41-56'20"N Longitude: 74-35'15"W
Elevation: 593 Surface Temp: 4.1 Stratified: MIXED Site Depth: 4.6
Lake Area: 8 Watershed Area: 83 WA/LA: 10.3 Hydro Type: DRAINAGE
Residence Time: 0.32 Secchi Depth: 4.6 Turbidity: 0.3 Color: 10
Closed pH: 5.40 Equil. pH: 5.39 ANC: -1.9 DOC: 1.80
Closed DIC: 0.38 Equil. DIC: 0.18 Meas. Cond: 25.6 Cal. Cond: 25.8
Ca: 89.3 Mg: 37.8 Na: 51.3 K: 4.6 NH4: 1.7
SO4: 124.5 HCO3: 2.8 Cl: 46.5 NO3: 0.5 F: 1.6
Sum Cations: 189.5 Sum Anions: 176.0 Cations/Anions: 1.08 Tot. P: 4.0
Tot. Al: 82.0 Ext. Al: 38.0 Fe: 10.0 Mn: 20.0 SiO2: 0.26

ID: 1B1-003 Name: NO NAME(ALLENS LAKE) State: PA Date: 12NOV84
Sample Type: REGULAR Latitude: 41-40'10"N Longitude: 76-37'15"W
Elevation: 585 Surface Temp: 5.5 Stratified: MIXED Site Depth: 1.2
Lake Area: 13 Watershed Area: 65 WA/LA: 5.2 Hydro Type: RESERVOIR
Residence Time: 0.24 Secchi Depth: 1.5 Turbidity: 0.8 Color: 45
Closed pH: 4.80 Equil. pH: 4.76 ANC: -21.0 DOC: 3.10
Closed DIC: 0.51 Equil. DIC: 0.22 Meas. Cond: 25.5 Cal. Cond: 25.6
Ca: 55.4 Mg: 34.5 Na: 19.1 K: 5.9 NH4: 7.8
SO4: 116.2 HCO3: 0.9 Cl: 23.7 NO3: 4.7 F: 3.5
Sum Cations: 142.2 Sum Anions: 149.0 Cations/Anions: 0.95 Tot. P: 24.0
Tot. Al: 117.0 Ext. Al: 88.0 Fe: 180.0 Mn: 220.0 SiO2: 0.07

ID: 1B1-004 Name: NO NAME(SOUTH MTN. LAKE); State: PA Date: 12NOV84
Sample Type: REGULAR Latitude: 41-37'30"N Longitude: 76-45'20"W
Elevation: 649 Surface Temp: 5.2 Stratified: MIXED Site Depth: 2.1
Lake Area: 8 Watershed Area: 114 WA/LA: 14.3 Hydro Type: DRAINAGE
Residence Time: 0.17 Secchi Depth: 1.6 Turbidity: 2.0 Color: 43
Closed pH: 6.38 Equil. pH: 6.72 ANC: 44.7 DOC: 4.25
Closed DIC: 0.89 Equil. DIC: 0.64 Meas. Cond: 20.1 Cal. Cond: 20.2
Ca: 83.1 Mg: 51.8 Na: 17.4 K: 9.6 NH4: 0.8
SO4: 91.7 HCO3: 37.3 Cl: 18.5 NO3: 1.2 F: 3.3
Sum Cations: 163.2 Sum Anions: 152.0 Cations/Anions: 1.07 Tot. P: 24.0
Tot. Al: 47.5 Ext. Al: 4.0 Fe: 150.0 Mn: 70.0 SiO2: 0.16

ID: 1B1-006 Name: LAKE JOHN State: PA Date: 12NOV84
Sample Type: REGULAR Latitude: 41-25'50"N Longitude: 76-16'15"W
Elevation: 619 Surface Temp: 7.0 Stratified: MIXED Site Depth: 1.8
Lake Area: 23 Watershed Area: 316 WA/LA: 14.0 Hydro Type: DRAINAGE
Residence Time: 0.15 Secchi Depth: 1.8 Turbidity: 0.6 Color: 10
Closed pH: 5.71 Equil. pH: 6.09 ANC: 11.1 DOC: 3.10
Closed DIC: 0.80 Equil. DIC: 0.27 Meas. Cond: 19.4 Cal. Cond: 19.5
Ca: 95.8 Mg: 28.8 Na: 12.2 K: 3.1 NH4: 2.8
SO4: 104.5 HCO3: 10.9 Cl: 20.3 NO3: 1.0 F: 2.0
Sum Cations: 144.6 Sum Anions: 138.7 Cations/Anions: 1.04 Tot. P: 6.0
Tot. Al: 28.0 Ext. Al: 10.0 Fe: 60.0 Mn: 30.0 SiO2: 0.14

ID: 1B1-007 Name: LOPEZ POND State: PA Date: 12NOV84
Sample Type: REGULAR Latitude: 41-23'50"N Longitude: 76-23'28"W
Elevation: 679 Surface Temp: 6.3 Stratified: MIXED Site Depth: 1.2
Lake Area: 8 Watershed Area: 150 WA/LA: 19.2 Hydro Type: DRAINAGE
Residence Time: 0.07 Secchi Depth: 1.2 Turbidity: 0.4 Color: 30
Closed pH: 5.22 Equil. pH: 5.33 ANC: -9.2 DOC: 4.20
Closed DIC: 0.56 Equil. DIC: 0.22 Meas. Cond: 16.1 Cal. Cond: 16.1
Ca: 43.4 Mg: 34.5 Na: 11.7 K: 7.7 NH4: 1.1
SO4: 79.5 HCO3: 2.4 Cl: 15.2 NO3: 3.8 F: 1.9
Sum Cations: 105.4 Sum Anions: 102.9 Cations/Anions: 1.02 Tot. P: 0.0
Tot. Al: 115.0 Ext. Al: 64.0 Fe: 70.0 Mn: 60.0 SiO2: 0.83

(continued)

TABLE 3-1 (continued)

ID: 1B1-008 Name: ROUSE POND State: PA Date: 12NOV84
Sample Type: REGULAR Latitude: 41-25'35"N Longitude: 76-17'15"W
Elevation: 628 Surface Temp: 7.1 Stratified: MIXED Site Depth: 5.2
Lake Area: 37 Watershed Area: 166 WA/LA: 4.5 Hydro Type: DRAINAGE
Residence Time: 1.20 Secchi Depth: 2.8 Turbidity: 0.8 Color: 30
Closed pH: 6.20 Equil. pH: 6.60 ANC: 28.9 DOC: 3.40
Closed DIC: 0.92 Equil. DIC: 0.53 Meas. Cond: 20.3 Cal. Cond: 20.7
Ca: 110.8 Mg: 27.1 Na: 10.9 K: 5.4 NH4: 1.1
SO4: 102.4 HCO3: 24.6 Cl: 24.3 NO3: 1.3 F: 1.8
Sum Cations: 156.1 Sum Anions: 154.4 Cations/Anions: 1.01 Tot. P: 6.0
Tot. Al: 34.0 Ext. Al: 2.0 Fe: 110.0 Mn: 40.0 SiO2: 0.39

ID: 1B1-010 Name: GANOGA LAKE State: PA Date: 12NOV84
Sample Type: REGULAR Latitude: 41-21'30"N Longitude: 76-19'15"W
Elevation: 691 Surface Temp: 5.9 Stratified: MIXED Site Depth: 2.4
Lake Area: 32 Watershed Area: 168 WA/LA: 5.3 Hydro Type: DRAINAGE
Residence Time: 0.48 Secchi Depth: 2.4 Turbidity: 0.3 Color: 0
Closed pH: 4.76 Equil. pH: 4.70 ANC: -23.6 DOC: 0.50
Closed DIC: 0.37 Equil. DIC: 0.21 Meas. Cond: 32.1 Cal. Cond: 32.7
Ca: 75.8 Mg: 31.3 Na: 19.1 K: 10.7 NH4: 5.5
SO4: 162.0 HCO3: 0.5 Cl: 25.7 NO3: 18.0 F: 2.1
Sum Cations: 165.4 Sum Anions: 208.2 Cations/Anions: 0.79 Tot. P: 0.0
Tot. Al: 330.0 Ext. Al: 260.0 Fe: 20.0 Mn: 280.0 SiO2: 0.16

ID: 1B1-012 Name: COBEY POND State: PA Date: 03NOV84
Sample Type: REGULAR Latitude: 41-34'00"N Longitude: 75-04'15"W
Elevation: 334 Surface Temp: 10.3 Stratified: MIXED Site Depth: 1.8
Lake Area: 17 Watershed Area: 155 WA/LA: 9.3 Hydro Type: RESERVOIR
Residence Time: 0.17 Secchi Depth: 1.8 Turbidity: 1.7 Color: 35
Closed pH: 6.59 Equil. pH: 7.19 ANC: 102.3 DOC: 5.96
Closed DIC: 1.67 Equil. DIC: 1.07 Meas. Cond: 29.2 Cal. Cond: 27.8
Ca: 91.3 Mg: 77.7 Na: 51.1 K: 14.7 NH4: 2.3
SO4: 104.2 HCO3: 91.5 Cl: 21.7 NO3: 0.4 F: 3.8
Sum Cations: 237.5 Sum Anions: 221.6 Cations/Anions: 1.07 Tot. P: 17.5
Tot. Al: 58.0 Ext. Al: 9.4 Fe: 114.0 Mn: 73.0 SiO2: 0.46

ID: 1B1-015 Name: TINKWIG LAKE State: PA Date: 03NOV84
Sample Type: REGULAR Latitude: 41-30'00"N Longitude: 75-07'35"W
Elevation: 337 Surface Temp: 10.4 Stratified: MIXED Site Depth: 2.8
Lake Area: 48 Watershed Area: 868 WA/LA: 18.0 Hydro Type: RESERVOIR
Residence Time: 0.14 Secchi Depth: 2.8 Turbidity: 1.4 Color: 30
Closed pH: 6.45 Equil. pH: 7.35 ANC: 146.3 DOC: 5.51
Closed DIC: 2.93 Equil. DIC: 1.49 Meas. Cond: 33.2 Cal. Cond: 33.7
Ca: 126.3 Mg: 89.9 Na: 69.6 K: 7.5 NH4: 1.9
SO4: 99.0 HCO3: 124.7 Cl: 45.2 NO3: 0.1 F: 3.2
Sum Cations: 295.6 Sum Anions: 272.3 Cations/Anions: 1.09 Tot. P: 17.6
Tot. Al: 65.1 Ext. Al: 10.6 Fe: 63.0 Mn: 32.0 SiO2: 1.02

ID: 1B1-019 Name: (NO NAME) State: NY Date: 10NOV84
Sample Type: REGULAR Latitude: 41-30'40"N Longitude: 74-46'25"W
Elevation: 379 Surface Temp: 8.2 Stratified: MIXED Site Depth: 2.1
Lake Area: 9 Watershed Area: 78 WA/LA: 9.0 Hydro Type: RESERVOIR
Residence Time: 0.19 Secchi Depth: 2.1 Turbidity: 0.9 Color: 20
Closed pH: 6.43 Equil. pH: 7.15 ANC: 58.3 DOC: 3.80
Closed DIC: 1.13 Equil. DIC: 0.66 Meas. Cond: 35.0 Cal. Cond: 34.9
Ca: 123.3 Mg: 61.7 Na: 82.6 K: 10.7 NH4: 0.6
SO4: 139.7 HCO3: 45.2 Cl: 76.2 NO3: 0.0 F: 3.0
Sum Cations: 279.3 Sum Anions: 264.1 Cations/Anions: 1.06 Tot. P: 200.0
Tot. Al: 19.0 Ext. Al: 4.0 Fe: 20.0 Mn: 30.0 SiO2: 0.54

(continued)

TABLE 3-1 (continued)

ID: 1B1-020 Name: BURNT HOPE LAKE State: NY Date: 10NOV84
Sample Type: REGULAR Latitude: 41-31'30"N Longitude: 74-44'38"W
Elevation: 376 Surface Temp: 8.0 Stratified: MIXED Site Depth: 2.7
Lake Area: 18 Watershed Area: 692 WA/LA: 38.4 Hydro Type: RESERVOIR
Residence Time: 0.06 Secchi Depth: 2.7 Turbidity: 0.5 Color: 0
Closed pH: 6.64 Equil. pH: 7.23 ANC: 40.3 DOC: 3.60
Closed DIC: 0.65 Equil. DIC: 0.57 Meas. Cond: 41.1 Cal. Cond: 41.4
Ca: 141.7 Mg: 60.0 Na: 111.4 K: 10.0 NH4: 2.2
SO4: 175.3 HCO3: 32.0 Cl: 98.7 NO3: 0.0 F: 3.2
Sum Cations: 325.7 Sum Anions: 309.3 Cations/Anions: 1.05 Tot. P: 6.0
Tot. Al: 30.0 Ext. Al: 4.0 Fe: 20.0 Mn: 0.0 SiO2: 0.23

ID: 1B1-022 Name: LAKE GILES State: PA Date: 31OCT84
Sample Type: REGULAR Latitude: 41-22'30"N Longitude: 75-05'40"W
Elevation: 428 Surface Temp: 14.8 Stratified: WEAK Site Depth: 22.3
Lake Area: 48 Watershed Area: 176 WA/LA: 3.7 Hydro Type: DRAINAGE
Residence Time: 4.60 Secchi Depth: 9.3 Turbidity: 0.2 Color: 5
Closed pH: 5.30 Equil. pH: 5.26 ANC: 2.2 DOC: 0.61
Closed DIC: 0.22 Equil. DIC: 0.12 Meas. Cond: 38.8 Cal. Cond: 41.1
Ca: 97.5 Mg: 60.0 Na: 108.2 K: 12.7 NH4: 0.7
SO4: 182.8 HCO3: 2.4 Cl: 118.9 NO3: 0.6 F: 3.2
Sum Cations: 283.8 Sum Anions: 307.9 Cations/Anions: 0.92 Tot. P: 5.7
Tot. Al: 76.7 Ext. Al: 19.4 Fe: 26.0 Mn: 85.0 SiO2: 0.13

ID: 1B1-023 Name: TWIN LAKES (BRINK P) State: PA Date: 31OCT84
Sample Type: REGULAR Latitude: 41-23'00"N Longitude: 74-54'15"W
Elevation: 409 Surface Temp: 14.4 Stratified: MIXED Site Depth: 9.1
Lake Area: 115 Watershed Area: 746 WA/LA: 6.5 Hydro Type: DRAINAGE
Residence Time: 1.11 Secchi Depth: 2.4 Turbidity: 0.7 Color: 15
Closed pH: 6.34 Equil. pH: 6.69 ANC: 44.9 DOC: 3.00
Closed DIC: 0.77 Equil. DIC: 0.46 Meas. Cond: 33.6 Cal. Cond: 36.0
Ca: 102.1 Mg: 69.1 Na: 99.0 K: 9.3 NH4: 1.0
SO4: 142.9 HCO3: 42.1 Cl: 90.5 NO3: 0.3 F: 2.7
Sum Cations: 280.9 Sum Anions: 278.5 Cations/Anions: 1.01 Tot. P: 13.2
Tot. Al: 18.5 Ext. Al: 0.6 Fe: 0.0 Mn: 3.0 SiO2: 1.22

ID: 1B1-024 Name: LAKE PAUPACK State: PA Date: 31OCT84
Sample Type: REGULAR Latitude: 41-19'30"N Longitude: 75-15'30"W
Elevation: 490 Surface Temp: 14.0 Stratified: MIXED Site Depth: 6.0
Lake Area: 43 Watershed Area: 3629 WA/LA: 83.8 Hydro Type: DRAINAGE
Residence Time: 0.06 Secchi Depth: 1.9 Turbidity: 1.8 Color: 30
Closed pH: 7.00 Equil. pH: 7.30 ANC: 145.0 DOC: 5.14
Closed DIC: 1.77 Equil. DIC: 1.50 Meas. Cond: 38.0 Cal. Cond: 39.4
Ca: 204.9 Mg: 55.0 Na: 61.2 K: 9.3 NH4: 1.9
SO4: 131.8 HCO3: 137.0 Cl: 45.4 NO3: 1.3 F: 2.5
Sum Cations: 332.6 Sum Anions: 318.0 Cations/Anions: 1.05 Tot. P: 14.4
Tot. Al: 39.7 Ext. Al: 5.2 Fe: 161.0 Mn: 35.0 SiO2: 0.44

ID: 1B1-025 Name: BRUCE LAKE State: PA Date: 31OCT84
Sample Type: REGULAR Latitude: 41-21'00"N Longitude: 75-10'15"W
Elevation: 530 Surface Temp: 13.8 Stratified: MIXED Site Depth: 3.0
Lake Area: 23 Watershed Area: 91 WA/LA: 4.0 Hydro Type: DRAINAGE
Residence Time: 0.59 Secchi Depth: 1.8 Turbidity: 1.3 Color: 15
Closed pH: 6.25 Equil. pH: 6.49 ANC: 30.8 DOC: 4.09
Closed DIC: 0.46 Equil. DIC: 0.33 Meas. Cond: 20.5 Cal. Cond: 20.5
Ca: 91.3 Mg: 34.2 Na: 22.0 K: 6.5 NH4: 0.8
SO4: 100.8 HCO3: 31.0 Cl: 23.2 NO3: 0.7 F: 2.2
Sum Cations: 155.5 Sum Anions: 158.0 Cations/Anions: 0.98 Tot. P: 14.1
Tot. Al: 45.3 Ext. Al: 3.2 Fe: 27.0 Mn: 24.0 SiO2: 0.48

(continued)

TABLE 3-1 (continued)

ID: 1B1-026 Name: (NO NAME) State: PA Date: 31OCT84
Sample Type: REGULAR Latitude: 41-19'30"N Longitude: 75-03'45"W
Elevation: 430 Surface Temp: 14.6 Stratified: MIXED Site Depth: 2.7
Lake Area: 11 Watershed Area: 93 WA/LA: 8.5 Hydro Type: RESERVOIR
Residence Time: 0.27 Secchi Depth: 1.7 Turbidity: 1.4 Color: 15
Closed pH: 6.77 Equil. pH: 7.20 ANC: 115.7 DOC: 2.89
Closed DIC: 1.83 Equil. DIC: 1.33 Meas. Cond: 64.9 Cal. Cond: 70.5
Ca: 174.2 Mg: 102.2 Na: 261.5 K: 19.4 NH4: 1.4
SO4: 171.9 HCO3: 122.3 Cl: 269.9 NO3: 1.9 F: 2.6
Sum Cations: 558.8 Sum Anions: 568.8 Cations/Anions: 0.98 Tot. P: 15.0
Tot. Al: 30.1 Ext. Al: 0.0 Fe: 26.0 Mn: 143.0 SiO2: 0.05

ID: 1B1-027 Name: MUD POND State: PA Date: 31OCT84
Sample Type: REGULAR Latitude: 41-21'00"N Longitude: 74-54'20"W
Elevation: 395 Surface Temp: 14.1 Stratified: MIXED Site Depth: 2.7
Lake Area: 4 Watershed Area: 194 WA/LA: 45.1 Hydro Type: DRAINAGE
Residence Time: 0.05 Secchi Depth: 0.9 Turbidity: 1.0 Color: 95
Closed pH: 5.88 Equil. pH: 6.18 ANC: 41.5 DOC: 11.23
Closed DIC: 0.78 Equil. DIC: 0.22 Meas. Cond: 36.4 Cal. Cond: 36.2
Ca: 104.0 Mg: 66.1 Na: 136.6 K: 3.9 NH4: 1.3
SO4: 103.9 HCO3: 18.0 Cl: 122.3 NO3: 1.4 F: 3.8
Sum Cations: 313.6 Sum Anions: 249.4 Cations/Anions: 1.26 Tot. P: 17.2
Tot. Al: 126.7 Ext. Al: 17.8 Fe: 165.0 Mn: 34.0 SiO2: 3.02

ID: 1B1-028 Name: MEMORY LAKE State: PA Date: 03NOV84
Sample Type: REGULAR Latitude: 41-18'40"N Longitude: 75-25'45"W
Elevation: 580 Surface Temp: 10.0 Stratified: MIXED, Site Depth: 0.9
Lake Area: 4 Watershed Area: 60 WA/LA: 14.3 Hydro Type: DRAINAGE
Residence Time: 0.06 Secchi Depth: 0.9 Turbidity: 1.9 Color: 25
Closed pH: 6.76 Equil. pH: 7.35 ANC: 134.1 DOC: 4.27
Closed DIC: 1.44 Equil. DIC: 1.40 Meas. Cond: 32.8 Cal. Cond: 31.9
Ca: 168.6 Mg: 50.8 Na: 27.7 K: 12.7 NH4: 6.0
SO4: 102.8 HCO3: 122.4 Cl: 32.4 NO3: 1.1 F: 1.7
Sum Cations: 266.0 Sum Anions: 260.5 Cations/Anions: 1.02 Tot. P: 12.9
Tot. Al: 59.8 Ext. Al: 2.9 Fe: 112.0 Mn: 162.0 SiO2: 0.27

ID: 1B1-029 Name: NO NAME(WILSON CREEK DAM) State: PA Date: 31OCT84
Sample Type: REGULAR Latitude: 41-17'30"N Longitude: 75-14'20"W
Elevation: 521 Surface Temp: 13.6 Stratified: MIXED Site Depth: 3.0
Lake Area: 4 Watershed Area: 453 WA/LA: 105.3 Hydro Type: RESERVOIR
Residence Time: 0.03 Secchi Depth: 1.9 Turbidity: 1.0 Color: 45
Closed pH: 6.68 Equil. pH: 7.37 ANC: 177.6 DOC: 5.37
Closed DIC: 2.88 Equil. DIC: 1.95 Meas. Cond: 60.3 Cal. Cond: 65.7
Ca: 323.3 Mg: 84.5 Na: 114.8 K: 12.5 NH4: 2.3
SO4: 189.5 HCO3: 170.7 Cl: 159.0 NO3: 0.6 F: 2.3
Sum Cations: 537.5 Sum Anions: 522.2 Cations/Anions: 1.03 Tot. P: 14.1
Tot. Al: 70.4 Ext. Al: 10.3 Fe: 165.0 Mn: 70.0 SiO2: 0.83

ID: 1B1-030 Name: LAKE EARNEST State: PA Date: 31OCT84
Sample Type: REGULAR Latitude: 41-17'20"N Longitude: 75-09'35"W
Elevation: 572 Surface Temp: 13.2 Stratified: MIXED Site Depth: 2.4
Lake Area: 13 Watershed Area: 39 WA/LA: 3.0 Hydro Type: DRAINAGE
Residence Time: 0.61 Secchi Depth: 2.4 Turbidity: 0.2 Color: 5
Closed pH: 4.49 Equil. pH: 4.47 ANC: -32.9 DOC: 0.43
Closed DIC: 0.20 Equil. DIC: 0.12 Meas. Cond: 36.5 Cal. Cond: 37.3
Ca: 60.2 Mg: 39.9 Na: 17.6 K: 7.6 NH4: 10.8
SO4: 169.8 HCO3: 0.3 Cl: 20.8 NO3: 10.8 F: 2.1
Sum Cations: 174.0 Sum Anions: 203.9 Cations/Anions: 0.85 Tot. P: 5.5
Tot. Al: 282.2 Ext. Al: 86.5 Fe: 20.0 Mn: 108.0 SiO2: 0.07

(continued)

TABLE 3-1 (continued)

ID: 1B1-031 Name: HEMLOCK LAKE State: PA Date: 31OCT84
Sample Type: REGULAR Latitude: 41-18'15"N Longitude: 75-02'50"W
Elevation: 439 Surface Temp: 14.4 Stratified: MIXED Site Depth: 4.3
Lake Area: 43 Watershed Area: 311 WA/LA: 7.3 Hydro Type: DRAINAGE
Residence Time: 0.48 Secchi Depth: 1.6 Turbidity: 1.2 Color: 15
Closed pH: 7.00 Equil. pH: 7.58 ANC: 265.8 DOC: 3.06
Closed DIC: 3.80 Equil. DIC: 3.08 Meas. Cond: 76.6 Cal. Cond: 81.9
Ca: 272.1 Mg: 152.2 Na: 233.8 K: 19.9 NH4: 1.3
SO4: 161.9 HCO3: 278.0 Cl: 246.9 NO3: 0.1 F: 2.3
Sum Cations: 679.4 Sum Anions: 689.5 Cations/Anions: 0.99 Tot. P: 25.8
Tot. Al: 33.6 Ext. Al: 0.0 Fe: 0.0 Mn: 102.0 SiO2: 0.61

ID: 1B1-032 Name: (NO NAME) State: PA Date: 31OCT84
Sample Type: REGULAR Latitude: 41-18'25"N Longitude: 74-59'15"W
Elevation: 421 Surface Temp: 14.6 Stratified: MIXED Site Depth: 1.8
Lake Area: 8 Watershed Area: 41 WA/LA: 5.0 Hydro Type: RESERVOIR
Residence Time: 0.28 Secchi Depth: 1.5 Turbidity: 1.8 Color: 25
Closed pH: 6.41 Equil. pH: 6.99 ANC: 74.0 DOC: 4.02
Closed DIC: 1.59 Equil. DIC: 0.80 Meas. Cond: 33.3 Cal. Cond: 31.5
Ca: 108.4 Mg: 76.3 Na: 61.1 K: 10.4 NH4: 0.8
SO4: 143.1 HCO3: 66.0 Cl: 31.9 NO3: 0.1 F: 2.7
Sum Cations: 257.5 Sum Anions: 243.8 Cations/Anions: 1.06 Tot. P: 25.9
Tot. Al: 68.6 Ext. Al: 2.1 Fe: 164.0 Mn: 153.0 SiO2: 1.54

ID: 1B1-033 Name: LOG TAVERN POND State: PA Date: 15NOV84
Sample Type: REGULAR Latitude: 41-18'40"N Longitude: 74-55'45"W
Elevation: 397 Surface Temp: 7.5 Stratified: MIXED Site Depth: 18.9
Lake Area: 30 Watershed Area: 210 WA/LA: 7.0 Hydro Type: DRAINAGE
Residence Time: 2.17 Secchi Depth: 4.5 Turbidity: 0.5 Color: 10
Closed pH: 6.05 Equil. pH: 6.69 ANC: 22.9 DOC: 2.40
Closed DIC: 1.02 Equil. DIC: 0.39 Meas. Cond: 41.0 Cal. Cond: 41.5
Ca: 115.3 Mg: 70.7 Na: 121.4 K: 9.2 NH4: 0.6
SO4: 153.9 HCO3: 27.4 Cl: 132.3 NO3: 0.6 F: 2.8
Sum Cations: 317.8 Sum Anions: 317.1 Cations/Anions: 1.00 Tot. P: 6.0
Tot. Al: 35.0 Ext. Al: 10.0 Fe: 10.0 Mn: 60.0 SiO2: 0.71

ID: 1B1-034 Name: GOULDSBORO LAKE State: PA Date: 07NOV84
Sample Type: REGULAR Latitude: 41-14'00"N Longitude: 75-27'15"W
Elevation: 577 Surface Temp: 7.0 Stratified: MIXED Site Depth: 1.5
Lake Area: 107 Watershed Area: 1015 WA/LA: 9.5 Hydro Type: DRAINAGE
Residence Time: 0.14 Secchi Depth: 1.5 Turbidity: 1.1 Color: 20
Closed pH: 6.96 Equil. pH: 7.18 ANC: 118.0 DOC: 5.22
Closed DIC: 1.30 Equil. DIC: 1.09 Meas. Cond: 40.8 Cal. Cond: 40.8
Ca: 174.5 Mg: 50.7 Na: 96.9 K: 13.9 NH4: 1.2
SO4: 110.5 HCO3: 97.8 Cl: 110.1 NO3: 0.1 F: 2.6
Sum Cations: 337.4 Sum Anions: 321.2 Cations/Anions: 1.05 Tot. P: 12.9
Tot. Al: 38.1 Ext. Al: 1.3 Fe: 38.0 Mn: 4.0 SiO2: 0.34

ID: 1B1-036 Name: LAKE JAMIE State: PA Date: 07NOV84
Sample Type: REGULAR Latitude: 41-14'30"N Longitude: 75-17'15"W
Elevation: 568 Surface Temp: 7.8 Stratified: MIXED Site Depth: 1.5
Lake Area: 17 Watershed Area: 212 WA/LA: 12.8 Hydro Type: RESERVOIR
Residence Time: 0.10 Secchi Depth: 1.5 Turbidity: 1.2 Color: 30
Closed pH: 6.82 Equil. pH: 7.34 ANC: 145.6 DOC: 4.31
Closed DIC: 2.06 Equil. DIC: 1.60 Meas. Cond: 37.5 Cal. Cond: 37.1
Ca: 211.9 Mg: 50.7 Na: 32.5 K: 8.8 NH4: 4.3
SO4: 127.9 HCO3: 126.3 Cl: 39.2 NO3: 2.6 F: 1.9
Sum Cations: 308.3 Sum Anions: 298.1 Cations/Anions: 1.03 Tot. P: 11.7
Tot. Al: 46.8 Ext. Al: 3.5 Fe: 50.0 Mn: 9.0 SiO2: 0.33

(continued)

TABLE 3-1 (continued)

ID: 1B1-037 Name: GRAVEL POND State: PA Date: 31OCT84
Sample Type: REGULAR Latitude: 41-13'40"N Longitude: 75-15'20"W
Elevation: 463 Surface Temp: 14.1 Stratified: MIXED Site Depth: 2.7
Lake Area: 9 Watershed Area: 91 WA/LA: 10.5 Hydro Type: DRAINAGE
Residence Time: 0.22 Secchi Depth: 2.7 Turbidity: 1.5 Color: 20
Closed pH: 6.54 Equil. pH: 7.23 ANC: 121.2 DOC: 4.92
Closed DIC: 2.00 Equil. DIC: 1.31 Meas. Cond: 34.9 Cal. Cond: 37.8
Ca: 184.4 Mg: 80.3 Na: 29.9 K: 10.5 NH4: 1.9
SO4: 161.2 HCO3: 111.1 Cl: 28.2 NO3: 0.3 F: 1.7
Sum Cations: 307.3 Sum Anions: 302.5 Cations/Anions: 1.02 Tot. P: 18.7
Tot. Al: 45.6 Ext. Al: 3.0 Fe: 20.0 Mn: 6.0 SiO2: 0.46

ID: 1B1-038 Name: GOOSE POND State: PA Date: 31OCT84
Sample Type: REGULAR Latitude: 41-15'10"N Longitude: 75-11'40"W
Elevation: 448 Surface Temp: 13.0 Stratified: MIXED Site Depth: 0.9
Lake Area: 4 Watershed Area: 510 WA/LA: 127.5 Hydro Type: DRAINAGE
Residence Time: 0.01 Secchi Depth: 0.4 Turbidity: 0.6 Color: 250
Closed pH: 5.67 Equil. pH: 6.24 ANC: 52.9 DOC: 16.40
Closed DIC: 2.13 Equil. DIC: 0.24 Meas. Cond: 23.1 Cal. Cond: 23.4
Ca: 82.6 Mg: 68.4 Na: 41.2 K: 11.7 NH4: 22.8
SO4: 62.6 HCO3: 26.7 Cl: 39.7 NO3: 2.0 F: 3.0
Sum Cations: 228.8 Sum Anions: 133.9 Cations/Anions: 1.71 Tot. P: 27.5
Tot. Al: 200.2 Ext. Al: 18.9 Fe: 704.0 Mn: 78.0 SiO2: 1.05

ID: 1B1-039 Name: PORTERS LAKE State: PA Date: 15NOV84
Sample Type: REGULAR Latitude: 41-15'05"N Longitude: 75-03'30"W
Elevation: 401 Surface Temp: 5.6 Stratified: MIXED Site Depth: 4.3
Lake Area: 97 Watershed Area: 647 WA/LA: 6.7 Hydro Type: DRAINAGE
Residence Time: 0.53 Secchi Depth: 1.9 Turbidity: 0.7 Color: 20
Closed pH: 6.52 Equil. pH: 6.77 ANC: 51.3 DOC: 2.30
Closed DIC: 0.88 Equil. DIC: 0.58 Meas. Cond: 31.6 Cal. Cond: 31.5
Ca: 118.3 Mg: 67.5 Na: 66.6 K: 6.4 NH4: 0.6
SO4: 140.5 HCO3: 39.7 Cl: 45.7 NO3: 2.8 F: 2.8
Sum Cations: 259.6 Sum Anions: 231.5 Cations/Anions: 1.12 Tot. P: 15.0
Tot. Al: 47.0 Ext. Al: 5.0 Fe: 30.0 Mn: 0.0 SiO2: 2.43

ID: 1B1-040 Name: MARCEL LAKE State: PA Date: 31OCT84
Sample Type: REGULAR Latitude: 41-15'20"N Longitude: 74-57'15"W
Elevation: 375 Surface Temp: 14.4 Stratified: MIXED Site Depth: 0.9
Lake Area: 11 Watershed Area: 1075 WA/LA: 100.5 Hydro Type: RESERVOIR
Residence Time: 0.01 Secchi Depth: 0.9 Turbidity: 11.1 Color: 113
Closed pH: 6.34 Equil. pH: 6.77 ANC: 64.7 DOC: 9.37
Closed DIC: 0.89 Equil. DIC: 0.32 Meas. Cond: 24.9 Cal. Cond: 25.6
Ca: 102.8 Mg: 60.9 Na: 61.2 K: 8.8 NH4: 1.4
SO4: 108.2 HCO3: 32.6 Cl: 25.3 NO3: 0.9 F: 2.7
Sum Cations: 235.8 Sum Anions: 169.6 Cations/Anions: 1.39 Tot. P: 43.9
Tot. Al: 192.0 Ext. Al: 16.1 Fe: 284.0 Mn: 49.0 SiO2: 2.07

ID: 1B1-041 Name: BRADYS LAKE State: PA Date: 01NOV84
Sample Type: REGULAR Latitude: 41-10'00"N Longitude: 75-31'45"W
Elevation: 523 Surface Temp: 13.4 Stratified: MIXED Site Depth: 3.7
Lake Area: 90 Watershed Area: 1751 WA/LA: 19.5 Hydro Type: RESERVOIR
Residence Time: 0.17 Secchi Depth: 1.5 Turbidity: 1.0 Color: 60
Closed pH: 5.72 Equil. pH: 6.16 ANC: 24.5 DOC: 5.71
Closed DIC: 0.81 Equil. DIC: 0.25 Meas. Cond: 24.0 Cal. Cond: 24.1
Ca: 117.0 Mg: 42.3 Na: 23.9 K: 5.5 NH4: 3.2
SO4: 122.2 HCO3: 13.0 Cl: 23.8 NO3: 1.7 F: 2.5
Sum Cations: 193.8 Sum Anions: 163.2 Cations/Anions: 1.19 Tot. P: 16.5
Tot. Al: 155.1 Ext. Al: 110.6 Fe: 409.0 Mn: 44.0 SiO2: 0.45

(continued)

TABLE 3-1 (continued)

ID: 1B1-042 Name: WILKINSON LAKE State: PA Date: 16NOV84
Sample Type: REGULAR Latitude: 41-11'20"N Longitude: 75-10'05"W
Elevation: 346 Surface Temp: 3.9 Stratified: MIXED Site Depth: 1.8
Lake Area: 9 Watershed Area: 342 WA/LA: 38.0 Hydro Type: RESERVOIR
Residence Time: 0.04 Secchi Depth: 1.8 Turbidity: 1.2 Color: 30
Closed pH: 5.73 Equil. pH: 5.91 ANC: 3.7 DOC: 3.70
Closed DIC: 0.41 Equil. DIC: 0.21 Meas. Cond: 25.5 Cal. Cond: 26.1
Ca: 73.9 Mg: 65.0 Na: 51.8 K: 5.4 NH4: 0.0
SO4: 143.7 HCO3: 5.1 Cl: 33.0 NO3: 0.5 F: 2.9
Sum Cations: 198.5 Sum Anions: 185.2 Cations/Anions: 1.07 Tot. P: 14.0
Tot. Al: 143.0 Ext. Al: 25.0 Fe: 80.0 Mn: 20.0 SiO2: 0.85

ID: 1B1-043 Name: PENN LAKE State: PA Date: 01NOV84
Sample Type: REGULAR Latitude: 41-06'45"N Longitude: 75-46'10"W
Elevation: 406 Surface Temp: 13.7 Stratified: MIXED Site Depth: 4.3
Lake Area: 22 Watershed Area: 1805 WA/LA: 82.0 Hydro Type: RESERVOIR
Residence Time: 0.05 Secchi Depth: 4.3 Turbidity: 0.4 Color: 5
Closed pH: 5.83 Equil. pH: 6.23 ANC: 18.5 DOC: 1.80
Closed DIC: 0.63 Equil. DIC: 0.22 Meas. Cond: 97.7 Cal. Cond: 104.8
Ca: 110.7 Mg: 68.3 Na: 617.3 K: 11.2 NH4: 0.9
SO4: 101.8 HCO3: 15.3 Cl: 698.8 NO3: 0.2 F: 1.9
Sum Cations: 809.8 Sum Anions: 818.1 Cations/Anions: 0.99 Tot. P: 5.6
Tot. Al: 64.5 Ext. Al: 12.7 Fe: 50.0 Mn: 32.0 SiO2: 0.47

ID: 1B1-044 Name: NO NAME(EAST LAKE) State: PA Date: 01NOV84
Sample Type: REGULAR Latitude: 41-08'30"N Longitude: 75-32'30"W
Elevation: 533 Surface Temp: 13.0 Stratified: MIXED Site Depth: 1.5
Lake Area: 21 Watershed Area: 67 WA/LA: 3.2 Hydro Type: RESERVOIR
Residence Time: 0.38 Secchi Depth: 0.8 Turbidity: 2.5 Color: 35
Closed pH: 5.98 Equil. pH: 6.54 ANC: 30.8 DOC: 5.36
Closed DIC: 0.94 Equil. DIC: 0.34 Meas. Cond: 27.1 Cal. Cond: 28.0
Ca: 106.8 Mg: 41.6 Na: 37.4 K: 16.0 NH4: 8.9
SO4: 98.9 HCO3: 21.9 Cl: 77.0 NO3: 3.2 F: 3.1
Sum Cations: 212.2 Sum Anions: 204.1 Cations/Anions: 1.04 Tot. P: 27.7
Tot. Al: 318.6 Ext. Al: 11.8 Fe: 69.0 Mn: 237.0 SiO2: 0.14

ID: 1B1-046 Name: POCONO SUMMIT LAKE State: PA Date: 06NOV84
Sample Type: REGULAR Latitude: 41-07'15"N Longitude: 75-23'10"W
Elevation: 556 Surface Temp: 9.1 Stratified: MIXED Site Depth: 0.9
Lake Area: 25 Watershed Area: 681 WA/LA: 27.0 Hydro Type: DRAINAGE
Residence Time: 0.03 Secchi Depth: 3.0 Turbidity: 1.0 Color: 20
Closed pH: 7.00 Equil. pH: 7.24 ANC: 114.7 DOC: 6.62
Closed DIC: 1.42 Equil. DIC: 1.21 Meas. Cond: 87.8 Cal. Cond: 91.8
Ca: 255.4 Mg: 80.2 Na: 384.1 K: 13.7 NH4: 1.1
SO4: 105.5 HCO3: 69.2 Cl: 526.8 NO3: 0.3 F: 3.0
Sum Cations: 734.8 Sum Anions: 704.8 Cations/Anions: 1.04 Tot. P: 10.3
Tot. Al: 46.0 Ext. Al: 8.3 Fe: 105.0 Mn: 11.0 SiO2: 0.12

ID: 1B1-048 Name: PLACID LAKE State: PA Date: 01NOV84
Sample Type: REGULAR Latitude: 41-01'40"N Longitude: 75-36'45"W
Elevation: 508 Surface Temp: 12.9 Stratified: MIXED Site Depth: 0.9
Lake Area: 11 Watershed Area: 280 WA/LA: 24.6 Hydro Type: DRAINAGE
Residence Time: 0.03 Secchi Depth: 0.9 Turbidity: 1.4 Color: 5
Closed pH: 5.56 Equil. pH: 5.42 ANC: 3.2 DOC: 2.42
Closed DIC: 0.29 Equil. DIC: 0.15 Meas. Cond: 17.3 Cal. Cond: 17.4
Ca: 52.3 Mg: 26.4 Na: 24.6 K: 5.7 NH4: 1.0
SO4: 93.5 HCO3: 3.5 Cl: 24.2 NO3: 0.6 F: 1.2
Sum Cations: 114.5 Sum Anions: 123.1 Cations/Anions: 0.93 Tot. P: 7.7
Tot. Al: 114.0 Ext. Al: 27.2 Fe: 17.0 Mn: 40.0 SiO2: 0.04

(continued)

TABLE 3-1 (continued)

ID: 1B1-050 Name: INDIAN MOUNTAIN LAKE State: PA Date: 15NOV84
Sample Type: REGULAR Latitude: 41-00'19"N Longitude: 75-30'20"W
Elevation: 546 Surface Temp: 2.1 Stratified: MIXED Site Depth: 1.5
Lake Area: 17 Watershed Area: 743 WA/LA: 44.2 Hydro Type: RESERVOIR
Residence Time: 0.03 Secchi Depth: 1.5 Turbidity: 2.9 Color: 30
Closed pH: 6.43 Equil. pH: 6.77 ANC: 23.7 DOC: 3.60
Closed DIC: 0.61 Equil. DIC: 0.52 Meas. Cond: 21.2 Cal. Cond: 21.5
Ca: 54.4 Mg: 43.6 Na: 62.6 K: 9.7 NH4: 0.6
SO4: 38.1 HCO3: 20.9 Cl: 92.2 NO3: 10.4 F: 1.0
Sum Cations: 171.5 Sum Anions: 162.7 Cations/Anions: 1.05 Tot. P: 8.0
Tot. Al: 0.0 Ext. Al: 6.0 Fe: 120.0 Mn: 0.0 SiO2: 0.36

ID: 1B1-055 Name: ROCK HILL POND State: PA Date: 31OCT84
Sample Type: REGULAR Latitude: 41-18'49"N Longitude: 75-00'58"W
Elevation: 430 Surface Temp: 14.5 Stratified: MIXED Site Depth: 3.0
Lake Area: 6 Watershed Area: 199 WA/LA: 33.2 Hydro Type: DRAINAGE
Residence Time: 0.08 Secchi Depth: 0.8 Turbidity: 1.4 Color: 80
Closed pH: 6.33 Equil. pH: 6.88 ANC: 70.6 DOC: 8.39
Closed DIC: 1.18 Equil. DIC: 0.59 Meas. Cond: 27.7 Cal. Cond: 28.9
Ca: 104.5 Mg: 77.2 Na: 56.2 K: 9.5 NH4: 0.8
SO4: 121.9 HCO3: 62.6 Cl: 27.6 NO3: 0.9 F: 2.7
Sum Cations: 248.8 Sum Anions: 215.6 Cations/Anions: 1.15 Tot. P: 27.6
Tot. Al: 109.1 Ext. Al: 16.9 Fe: 123.0 Mn: 15.0 SiO2: 3.42

ID: 1B1-057 Name: SACKETT LAKE State: NY Date: 10NOV84
Sample Type: REGULAR Latitude: 41-37'33"N Longitude: 74-44'25"W
Elevation: 405 Surface Temp: 10.2 Stratified: MIXED Site Depth: 8.5
Lake Area: 51 Watershed Area: 471 WA/LA: 9.3 Hydro Type: DRAINAGE
Residence Time: 0.64 Secchi Depth: 1.8 Turbidity: 2.5 Color: 20
Closed pH: 6.73 Equil. pH: 7.39 ANC: 260.7 DOC: 3.20
Closed DIC: 4.47 Equil. DIC: 2.85 Meas. Cond: 69.4 Cal. Cond: 85.1
Ca: 305.9 Mg: 97.9 Na: 150.5 K: 22.5 NH4: 15.5
SO4: 270.9 HCO3: 244.4 Cl: 243.7 NO3: 0.4 F: 2.8
Sum Cations: 592.4 Sum Anions: 762.4 Cations/Anions: 0.78 Tot. P: 39.0
Tot. Al: 11.0 Ext. Al: 2.0 Fe: 20.0 Mn: 220.0 SiO2: 0.83

ID: 1B1-058 Name: NO NAME(LAKE SINCA) State: PA Date: 01NOV84
Sample Type: REGULAR Latitude: 41-06'04"N Longitude: 75-35'47"W
Elevation: 494 Surface Temp: 13.2 Stratified: MIXED Site Depth: 2.4
Lake Area: 8 Watershed Area: 114 WA/LA: 13.7 Hydro Type: RESERVOIR
Residence Time: 0.16 Secchi Depth: 1.9 Turbidity: 1.9 Color: 20
Closed pH: 5.31 Equil. pH: 5.54 ANC: 5.6 DOC: 2.11
Closed DIC: 0.81 Equil. DIC: 0.16 Meas. Cond: 29.0 Cal. Cond: 30.9
Ca: 69.7 Mg: 51.6 Na: 84.1 K: 12.3 NH4: 1.7
SO4: 119.1 HCO3: 6.1 Cl: 97.5 NO3: 0.4 F: 2.6
Sum Cations: 223.2 Sum Anions: 225.8 Cations/Anions: 0.99 Tot. P: 8.0
Tot. Al: 86.7 Ext. Al: 39.7 Fe: 97.0 Mn: 47.0 SiO2: 0.14

ID: 1B1-059 Name: NO NAME(LAKE IN THE WOODS) State: PA Date: 31OCT84
Sample Type: REGULAR Latitude: 41-15'23"N Longitude: 75-15'29"W
Elevation: 537 Surface Temp: 13.8 Stratified: MIXED Site Depth: 1.5
Lake Area: 4 Watershed Area: 34 WA/LA: 7.7 Hydro Type: DRAINAGE
Residence Time: 0.17 Secchi Depth: 1.1 Turbidity: 7.5 Color: 30
Closed pH: 6.81 Equil. pH: 7.41 ANC: 179.4 DOC: 5.26
Closed DIC: 2.47 Equil. DIC: 1.91 Meas. Cond: 37.3 Cal. Cond: 40.6
Ca: 228.4 Mg: 61.4 Na: 33.6 K: 11.3 NH4: 0.8
SO4: 121.0 HCO3: 179.1 Cl: 42.7 NO3: 0.9 F: 2.1
Sum Cations: 335.7 Sum Anions: 345.9 Cations/Anions: 0.97 Tot. P: 30.5
Tot. Al: 216.6 Ext. Al: 1.9 Fe: 39.0 Mn: 7.0 SiO2: 0.11

(continued)

TABLE 3-1 (continued)

ID: 1B1-061 Name: (NO NAME) State: NY Date: 15NOV84
Sample Type: REGULAR Latitude: 41-59'03"N Longitude: 74-30'43"W
Elevation: 596 Surface Temp: 3.5 Stratified: MIXED Site Depth: 3.7
Lake Area: 6 Watershed Area: 155 WA/LA: 25.0 Hydro Type: DRAINAGE
Residence Time: 0.11 Secchi Depth: 1.1 Turbidity: 3.3 Color: 20
Closed pH: 6.75 Equil. pH: 7.15 ANC: 66.3 DOC: 2.80
Closed DIC: 1.08 Equil. DIC: 0.89 Meas. Cond: 30.9 Cal. Cond: 31.0
Ca: 136.7 Mg: 59.2 Na: 44.4 K: 9.2 NH4: 0.6
SO4: 136.8 HCO3: 54.6 Cl: 42.0 NO3: 0.6 F: 1.3
Sum Cations: 250.4 Sum Anions: 235.3 Cations/Anions: 1.06 Tot. P: 10.0
Tot. Al: 120.0 Ext. Al: 8.0 Fe: 0.0 Mn: 0.0 SiO2: 1.82

ID: 1B1-062 Name: LAKE METAUQUE State: NY Date: 10NOV84
Sample Type: REGULAR Latitude: 41-31'02"N Longitude: 74-47'03"W
Elevation: 387 Surface Temp: 9.5 Stratified: MIXED Site Depth: 6.7
Lake Area: 30 Watershed Area: 430 WA/LA: 14.6 Hydro Type: DRAINAGE
Residence Time: 0.39 Secchi Depth: 2.3 Turbidity: 0.8 Color: 35
Closed pH: 6.47 Equil. pH: 7.32 ANC: 58.0 DOC: 4.30
Closed DIC: 1.16 Equil. DIC: 0.71 Meas. Cond: 38.2 Cal. Cond: 37.5
Ca: 141.2 Mg: 65.0 Na: 86.1 K: 10.7 NH4: 5.0
SO4: 143.7 HCO3: 48.3 Cl: 77.6 NO3: 3.8 F: 2.7
Sum Cations: 308.5 Sum Anions: 276.1 Cations/Anions: 1.12 Tot. P: 22.0
Tot. Al: 38.0 Ext. Al: 9.0 Fe: 140.0 Mn: 30.0 SiO2: 3.05

ID: 1B1-063 Name: SCHMITTHENNER LAKE State: PA Date: 12NOV84
Sample Type: REGULAR Latitude: 41-26'15"N Longitude: 76-14'38"W
Elevation: 614 Surface Temp: 7.5 Stratified: MIXED Site Depth: 8.5
Lake Area: 9 Watershed Area: 106 WA/LA: 11.4 Hydro Type: DRAINAGE
Residence Time: 0.85 Secchi Depth: 3.3 Turbidity: 0.9 Color: 20
Closed pH: 5.24 Equil. pH: 5.44 ANC: -1.2 DOC: 2.70
Closed DIC: 0.97 Equil. DIC: 0.20 Meas. Cond: 21.9 Cal. Cond: 24.7
Ca: 71.9 Mg: 32.1 Na: 22.6 K: 10.5 NH4: 1.7
SO4: 114.9 HCO3: 4.5 Cl: 66.0 NO3: 0.4 F: 2.2
Sum Cations: 144.9 Sum Anions: 188.0 Cations/Anions: 0.77 Tot. P: 6.0
Tot. Al: 97.0 Ext. Al: 49.0 Fe: 120.0 Mn: 110.0 SiO2: 0.21

ID: 1B1-064 Name: MILLPOND NO. 1 State: PA Date: 07NOV84
Sample Type: REGULAR Latitude: 41-10'47"N Longitude: 75-24'39"W
Elevation: 579 Surface Temp: 7.2 Stratified: MIXED Site Depth: 1.8
Lake Area: 15 Watershed Area: 4387 WA/LA: 294.4 Hydro Type: RESERVOIR
Residence Time: 0.01 Secchi Depth: 1.4 Turbidity: 1.5 Color: 50
Closed pH: 6.46 Equil. pH: 6.95 ANC: 71.8 DOC: 4.54
Closed DIC: 1.25 Equil. DIC: 0.72 Meas. Cond: 36.0 Cal. Cond: 37.2
Ca: 150.8 Mg: 54.2 Na: 75.2 K: 12.2 NH4: 3.0
SO4: 122.4 HCO3: 55.6 Cl: 93.8 NO3: 11.1 F: 1.9
Sum Cations: 295.9 Sum Anions: 284.8 Cations/Anions: 1.04 Tot. P: 15.2
Tot. Al: 172.4 Ext. Al: 17.6 Fe: 167.0 Mn: 39.0 SiO2: 2.40

ID: 1B1-066 Name: LOWER LAKE (WEST) State: PA Date: 31OCT84
Sample Type: REGULAR Latitude: 41-18'52"N Longitude: 75-13'53"W
Elevation: 523 Surface Temp: 13.8 Stratified: MIXED Site Depth: 2.4
Lake Area: 11 Watershed Area: 2618 WA/LA: 240.2 Hydro Type: DRAINAGE
Residence Time: 0.01 Secchi Depth: 1.8 Turbidity: 1.0 Color: 25
Closed pH: 6.34 Equil. pH: 6.95 ANC: 69.8 DOC: 5.12
Closed DIC: 1.28 Equil. DIC: 0.72 Meas. Cond: 33.4 Cal. Cond: 34.3
Ca: 159.2 Mg: 55.4 Na: 55.3 K: 7.6 NH4: 1.0
SO4: 134.3 HCO3: 53.1 Cl: 67.0 NO3: 0.2 F: 2.4
Sum Cations: 279.0 Sum Anions: 257.0 Cations/Anions: 1.09 Tot. P: 17.7
Tot. Al: 38.1 Ext. Al: 3.9 Fe: 38.0 Mn: 44.0 SiO2: 0.24

(continued)

TABLE 3-1 (continued)

ID: 1B1-067 Name: LAKE MINISINK State: PA Date: 15NOV84
Sample Type: REGULAR Latitude: 41-12'57"N Longitude: 75-03'13"W
Elevation: 409 Surface Temp: 5.3 Stratified: MIXED Site Depth: 3.4
Lake Area: 14 Watershed Area: 49 WA/LA: 3.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.2 Turbidity: 0.8 Color: 20
Closed pH: 6.93 Equil. pH: 7.25 ANC: 101.4 DOC: 4.40
Closed DIC: 1.52 Equil. DIC: 1.23 Meas. Cond: 36.2 Cal. Cond: 35.8
Ca: 171.7 Mg: 61.7 Na: 62.6 K: 11.0 NH4: 0.6
SO4: 111.4 HCO3: 84.6 Cl: 72.2 NO3: 0.0 F: 2.2
Sum Cations: 307.7 Sum Anions: 270.5 Cations/Anions: 1.14 Tot. P: 6.0
Tot. Al: 19.0 Ext. Al: 1.0 Fe: 10.0 Mn: 0.0 SiO2: 0.07

ID: 1B1-068 Name: SUNRISE LAKE State: PA Date: 31OCT84
Sample Type: REGULAR Latitude: 41-19'10"N Longitude: 74-57'37"W
Elevation: 396 Surface Temp: 14.2 Stratified: MIXED Site Depth: 1.5
Lake Area: 25 Watershed Area: 1168 WA/LA: 46.2 Hydro Type: RESERVOIR
Residence Time: 0.03 Secchi Depth: 0.5 Turbidity: 4.6 Color: 75
Closed pH: 6.50 Equil. pH: 7.28 ANC: 150.3 DOC: 8.05
Closed DIC: 2.84 Equil. DIC: 1.28 Meas. Cond: 32.6 Cal. Cond: 32.0
Ca: 125.7 Mg: 80.2 Na: 71.7 K: 10.7 NH4: 1.0
SO4: 87.0 HCO3: 131.0 Cl: 35.3 NO3: 0.5 F: 2.8
Sum Cations: 289.8 Sum Anions: 256.5 Cations/Anions: 1.13 Tot. P: 64.5
Tot. Al: 67.6 Ext. Al: 1.9 Fe: 97.0 Mn: 46.0 SiO2: 3.21

ID: 1B1-069 Name: NO NAME(STAIRWAY LAKE) State: PA Date: 10NOV84
Sample Type: REGULAR Latitude: 41-24'45"N Longitude: 74-47'59"W
Elevation: 357 Surface Temp: 8.2 Stratified: MIXED Site Depth: 1.8
Lake Area: 5 Watershed Area: 117 WA/LA: 23.4 Hydro Type: RESERVOIR
Residence Time: 0.07 Secchi Depth: 1.8 Turbidity: 1.3 Color: 25
Closed pH: 6.98 Equil. pH: 7.31 ANC: 111.5 DOC: 5.20
Closed DIC: 1.38 Equil. DIC: 1.22 Meas. Cond: 34.5 Cal. Cond: 34.1
Ca: 156.7 Mg: 74.0 Na: 46.5 K: 12.8 NH4: 1.7
SO4: 132.2 HCO3: 83.1 Cl: 39.2 NO3: 0.0 F: 2.3
Sum Cations: 291.9 Sum Anions: 256.9 Cations/Anions: 1.14 Tot. P: 27.0
Tot. Al: 33.0 Ext. Al: 4.0 Fe: 50.0 Mn: 0.0 SiO2: 0.00

ID: 1B1-070 Name: NO NAME(FOREST LAKE) State: PA Date: 03NOV84
Sample Type: REGULAR Latitude: 41-30'47"N Longitude: 75-04'17"W
Elevation: 375 Surface Temp: 11.2 Stratified: MIXED Site Depth: 1.8
Lake Area: 17 Watershed Area: 290 WA/LA: 17.2 Hydro Type: DRAINAGE
Residence Time: 0.09 Secchi Depth: 2.0 Turbidity: 2.0 Color: 20
Closed pH: 6.50 Equil. pH: 7.17 ANC: 105.3 DOC: 4.79
Closed DIC: 1.75 Equil. DIC: 1.13 Meas. Cond: 36.6 Cal. Cond: 37.1
Ca: 115.3 Mg: 81.7 Na: 79.1 K: 15.6 NH4: 6.9
SO4: 125.4 HCO3: 95.5 Cl: 70.7 NO3: 4.4 F: 3.0
Sum Cations: 298.9 Sum Anions: 299.0 Cations/Anions: 1.00 Tot. P: 12.1
Tot. Al: 28.6 Ext. Al: 3.1 Fe: 45.0 Mn: 198.0 SiO2: 0.94

ID: 1B2-001 Name: ORSON POND State: PA Date: 03NOV84
Sample Type: REGULAR Latitude: 41-48'45"N Longitude: 75-26'40"W
Elevation: 613 Surface Temp: 9.6 Stratified: MIXED Site Depth: 2.1
Lake Area: 8 Watershed Area: 350 WA/LA: 44.3 Hydro Type: RESERVOIR
Residence Time: 0.04 Secchi Depth: 1.5 Turbidity: 2.4 Color: 40
Closed pH: 6.99 Equil. pH: 7.34 ANC: 161.3 DOC: 6.12
Closed DIC: 2.03 Equil. DIC: 1.59 Meas. Cond: 57.2 Cal. Cond: 57.6
Ca: 249.3 Mg: 70.6 Na: 127.3 K: 22.9 NH4: 1.6
SO4: 140.1 HCO3: 136.1 Cl: 175.9 NO3: 0.2 F: 2.3
Sum Cations: 471.9 Sum Anions: 454.7 Cations/Anions: 1.04 Tot. P: 18.6
Tot. Al: 96.0 Ext. Al: 6.4 Fe: 42.0 Mn: 6.0 SiO2: 0.86

(continued)

TABLE 3-1 (continued)

ID: 1B2-002 Name: POYNTELLE LAKE State: PA Date: 03NOV84
Sample Type: REGULAR Latitude: 41-49'17"N Longitude: 75-24'38"W
Elevation: 609 Surface Temp: 11.3 Stratified: MIXED Site Depth: 7.0
Lake Area: 29 Watershed Area: 225 WA/LA: 7.9 Hydro Type: DRAINAGE
Residence Time: 0.77 Secchi Depth: 3.0 Turbidity: 1.7 Color: 15
Closed pH: 6.98 Equil. pH: 7.56 ANC: 233.7 DOC: 2.41
Closed DIC: 3.21 Equil. DIC: 2.52 Meas. Cond: 64.4 Cal. Cond: 67.9
Ca: 310.5 Mg: 62.8 Na: 133.2 K: 25.7 NH4: 15.5
SO4: 159.9 HCO3: 214.5 Cl: 170.4 NO3: 12.1 F: 1.8
Sum Cations: 547.9 Sum Anions: 558.9 Cations/Anions: 0.98 Tot. P: 13.6
Tot. Al: 24.4 Ext. Al: 2.0 Fe: 16.0 Mn: 220.0 SiO2: 1.34

ID: 1B2-005 Name: ROCK LAKE State: PA Date: 03NOV84
Sample Type: REGULAR Latitude: 41-46'20"N Longitude: 75-19'30"W
Elevation: 480 Surface Temp: 11.9 Stratified: WEAK Site Depth: 13.7
Lake Area: 34 Watershed Area: 210 WA/LA: 6.2 Hydro Type: DRAINAGE
Residence Time: 1.89 Secchi Depth: 5.1 Turbidity: 0.5 Color: 10
Closed pH: 6.86 Equil. pH: 7.33 ANC: 141.5 DOC: 3.61
Closed DIC: 1.99 Equil. DIC: 1.47 Meas. Cond: 37.8 Cal. Cond: 39.4
Ca: 240.7 Mg: 43.1 Na: 29.9 K: 10.0 NH4: 1.2
SO4: 164.6 HCO3: 124.7 Cl: 20.9 NO3: 0.1 F: 1.9
Sum Cations: 325.0 Sum Anions: 312.3 Cations/Anions: 1.04 Tot. P: 5.3
Tot. Al: 26.4 Ext. Al: 2.2 Fe: 22.0 Mn: 17.0 SiO2: 0.31

ID: 1B2-006 Name: ELK LAKE State: PA Date: 07NOV84
Sample Type: REGULAR Latitude: 41-37'20"N Longitude: 75-23'05"W
Elevation: 433 Surface Temp: 11.1 Stratified: MIXED Site Depth: 18.3
Lake Area: 65 Watershed Area: 241 WA/LA: 3.7 Hydro Type: DRAINAGE
Residence Time: 4.07 Secchi Depth: 2.4 Turbidity: 0.8 Color: 10
Closed pH: 6.86 Equil. pH: 7.42 ANC: 184.4 DOC: 2.42
Closed DIC: 2.54 Equil. DIC: 1.92 Meas. Cond: 47.5 Cal. Cond: 50.1
Ca: 268.0 Mg: 48.3 Na: 65.4 K: 13.0 NH4: 1.8
SO4: 193.8 HCO3: 155.1 Cl: 60.7 NO3: 0.1 F: 2.5
Sum Cations: 396.6 Sum Anions: 412.3 Cations/Anions: 0.96 Tot. P: 15.8
Tot. Al: 44.6 Ext. Al: 2.2 Fe: 18.0 Mn: 55.0 SiO2: 0.27

ID: 1B2-007 Name: MUD POND State: PA Date: 07NOV84
Sample Type: REGULAR Latitude: 41-38'05"N Longitude: 75-22'15"W
Elevation: 431 Surface Temp: 7.3 Stratified: MIXED Site Depth: 1.2
Lake Area: 6 Watershed Area: 101 WA/LA: 16.8 Hydro Type: DRAINAGE
Residence Time: 0.06 Secchi Depth: 0.5 Turbidity: 2.4 Color: 225
Closed pH: 6.37 Equil. pH: 6.79 ANC: 131.8 DOC: 20.03
Closed DIC: 0.96 Equil. DIC: 0.52 Meas. Cond: 38.7 Cal. Cond: 37.6
Ca: 266.4 Mg: 45.9 Na: 40.3 K: 5.7 NH4: 1.9
SO4: 145.9 HCO3: 60.8 Cl: 27.4 NO3: 0.0 F: 2.1
Sum Cations: 360.6 Sum Anions: 236.2 Cations/Anions: 1.53 Tot. P: 30.0
Tot. Al: 223.0 Ext. Al: 50.9 Fe: 132.0 Mn: 25.0 SiO2: 4.42

ID: 1B2-008 Name: NO NAME(SWACKHAMMER LAKE) State: PA Date: 07NOV84
Sample Type: REGULAR Latitude: 41-33'15"N Longitude: 75-26'35"W
Elevation: 521 Surface Temp: 7.4 Stratified: MIXED Site Depth: 1.2
Lake Area: 10 Watershed Area: 150 WA/LA: 14.8 Hydro Type: DRAINAGE
Residence Time: 0.07 Secchi Depth: 1.2 Turbidity: 1.1 Color: 30
Closed pH: 5.84 Equil. pH: 6.43 ANC: 24.7 DOC: 3.34
Closed DIC: 0.89 Equil. DIC: 0.29 Meas. Cond: 21.0 Cal. Cond: 22.0
Ca: 75.8 Mg: 57.6 Na: 17.5 K: 12.0 NH4: 1.4
SO4: 123.5 HCO3: 16.7 Cl: 19.1 NO3: 0.0 F: 2.3
Sum Cations: 165.5 Sum Anions: 161.7 Cations/Anions: 1.02 Tot. P: 12.3
Tot. Al: 79.5 Ext. Al: 7.1 Fe: 106.0 Mn: 9.0 SiO2: 0.29

(continued)

TABLE 3-1 (continued)

ID: 1B2-009 Name: LAKE LODORE State: PA Date: 07NOV84
Sample Type: REGULAR Latitude: 41-34'10"N Longitude: 75-23'30"W
Elevation: 417 Surface Temp: 10.8 Stratified: MIXED Site Depth: 4.6
Lake Area: 107 Watershed Area: 948 WA/LA: 8.8 Hydro Type: RESERVOIR
Residence Time: 0.45 Secchi Depth: 1.9 Turbidity: 3.3 Color: 20
Closed pH: 7.03 Equil. pH: 7.75 ANC: 364.3 DOC: 3.42
Closed DIC: 5.01 Equil. DIC: 4.05 Meas. Cond: 119.1 Cal. Cond: 129.0
Ca: 503.5 Mg: 90.4 Na: 415.0 K: 32.4 NH4: 1.5
SO4: 276.9 HCO3: 337.8 Cl: 434.0 NO3: 6.9 F: 2.8
Sum Cations: 1042.8 Sum Anions: 1059.0 Cations/Anions: 0.98 Tot. P: 35.7
Tot. Al: 61.4 Ext. Al: 2.7 Fe: 10.0 Mn: 7.0 SiO2: 0.45

ID: 1B2-010 Name: LITTLE KEEN POND State: PA Date: 07NOV84
Sample Type: REGULAR Latitude: 41-35'45"N Longitude: 75-22'45"W
Elevation: 394 Surface Temp: 8.4 Stratified: MIXED Site Depth: 2.7
Lake Area: 8 Watershed Area: 1841 WA/LA: 242.2 Hydro Type: DRAINAGE
Residence Time: 0.01 Secchi Depth: 1.0 Turbidity: 3.9 Color: 55
Closed pH: 7.36 Equil. pH: 7.85 ANC: 462.2 DOC: 6.99
Closed DIC: 5.58 Equil. DIC: 4.78 Meas. Cond: 101.3 Cal. Cond: 110.8
Ca: 579.3 Mg: 115.2 Na: 183.4 K: 51.3 NH4: 1.3
SO4: 252.9 HCO3: 377.8 Cl: 260.6 NO3: 0.0 F: 2.9
Sum Cations: 930.5 Sum Anions: 895.1 Cations/Anions: 1.04 Tot. P: 46.8
Tot. Al: 287.7 Ext. Al: 3.9 Fe: 195.0 Mn: 86.0 SiO2: 2.26

ID: 1B2-011 Name: BRONSON POND State: PA Date: 16NOV84
Sample Type: REGULAR Latitude: 41-31'30"N Longitude: 75-26'15"W
Elevation: 428 Surface Temp: 3.2 Stratified: MIXED Site Depth: 1.3
Lake Area: 23 Watershed Area: 616 WA/LA: 26.8 Hydro Type: RESERVOIR
Residence Time: 0.04 Secchi Depth: 1.1 Turbidity: 3.3 Color: 30
Closed pH: 7.40 Equil. pH: 7.60 ANC: 254.0 DOC: 5.90
Closed DIC: 2.79 Equil. DIC: 2.61 Meas. Cond: 49.0 Cal. Cond: 51.8
Ca: 285.9 Mg: 96.2 Na: 58.3 K: 23.8 NH4: 0.0
SO4: 159.1 HCO3: 191.1 Cl: 46.3 NO3: 0.4 F: 3.2
Sum Cations: 464.4 Sum Anions: 400.2 Cations/Anions: 1.16 Tot. P: 40.0
Tot. Al: 139.0 Ext. Al: 3.0 Fe: 90.0 Mn: 10.0 SiO2: 1.15

ID: 1B2-012 Name: TELSHAW POND State: PA Date: 16NOV84
Sample Type: REGULAR Latitude: 41-31'00"N Longitude: 75-25'30"W
Elevation: 429 Surface Temp: 3.3 Stratified: MIXED Site Depth: 0.9
Lake Area: 12 Watershed Area: 83 WA/LA: 6.9 Hydro Type: DRAINAGE
Residence Time: 0.11 Secchi Depth: 1.5 Turbidity: 1.3 Color: 25
Closed pH: 7.33 Equil. pH: 7.76 ANC: 369.3 DOC: 5.60
Closed DIC: 4.67 Equil. DIC: 3.86 Meas. Cond: 57.1 Cal. Cond: 58.8
Ca: 358.8 Mg: 98.7 Na: 57.4 K: 29.4 NH4: 0.6
SO4: 115.8 HCO3: 305.8 Cl: 53.3 NO3: 0.6 F: 2.9
Sum Cations: 544.9 Sum Anions: 478.8 Cations/Anions: 1.14 Tot. P: 21.0
Tot. Al: 29.0 Ext. Al: 2.0 Fe: 30.0 Mn: 0.0 SiO2: 0.30

ID: 1B2-013 Name: NO NAME(ST. TIKHONS DAM) State: PA Date: 16NOV84
Sample Type: REGULAR Latitude: 41-30'45"N Longitude: 75-24'00"W
Elevation: 419 Surface Temp: 3.5 Stratified: MIXED Site Depth: 0.9
Lake Area: 4 Watershed Area: 168 WA/LA: 42.0 Hydro Type: RESERVOIR
Residence Time: 0.02 Secchi Depth: 1.0 Turbidity: 1.3 Color: 50
Closed pH: 7.55 Equil. pH: 8.00 ANC: 526.6 DOC: 11.00
Closed DIC: 6.19 Equil. DIC: 5.29 Meas. Cond: 75.3 Cal. Cond: 76.7
Ca: 433.1 Mg: 106.1 Na: 100.0 K: 30.2 NH4: 54.9
SO4: 102.6 HCO3: 421.1 Cl: 71.1 NO3: 20.4 F: 3.1
Sum Cations: 724.4 Sum Anions: 619.3 Cations/Anions: 1.17 Tot. P: 41.0
Tot. Al: 86.0 Ext. Al: 2.0 Fe: 140.0 Mn: 0.0 SiO2: 0.26

(continued)

TABLE 3-1 (continued)

ID: 1B2-015 Name: MOOSIC LAKES (EASTERN) State: PA Date: 07NOV84
Sample Type: REGULAR Latitude: 41-26'10"N Longitude: 75-30'45"W
Elevation: 619 Surface Temp: 8.5 Stratified: MIXED Site Depth: 5.5
Lake Area: 5 Watershed Area: 16 WA/LA: 3.2 Hydro Type: DRAINAGE
Residence Time: 1.40 Secchi Depth: 1.5 Turbidity: 2.3 Color: 5
Closed pH: 5.80 Equil. pH: 5.96 ANC: 15.7 DOC: 2.92
Closed DIC: 0.41 Equil. DIC: 0.21 Meas. Cond: 36.8 Cal. Cond: 38.2
Ca: 118.8 Mg: 42.9 Na: 80.1 K: 20.0 NH4: 1.0
SO4: 196.4 HCO3: 12.6 Cl: 84.1 NO3: 0.1 F: 2.2
Sum Cations: 264.1 Sum Anions: 295.3 Cations/Anions: 0.89 Tot. P: 11.4
Tot. Al: 123.2 Ext. Al: 6.1 Fe: 38.0 Mn: 1191.0 SiO2: 0.03

ID: 1B2-016 Name: HALF MOON POND State: PA Date: 07NOV84
Sample Type: REGULAR Latitude: 41-26'35"N Longitude: 75-27'30"W
Elevation: 468 Surface Temp: 7.7 Stratified: MIXED Site Depth: 1.5
Lake Area: 9 Watershed Area: 70 WA/LA: 8.0 Hydro Type: RESERVOIR
Residence Time: 0.16 Secchi Depth: 1.5 Turbidity: 0.9 Color: 25
Closed pH: 6.93 Equil. pH: 7.51 ANC: 222.5 DOC: 5.79
Closed DIC: 3.06 Equil. DIC: 2.17 Meas. Cond: 43.4 Cal. Cond: 44.6
Ca: 273.3 Mg: 48.0 Na: 44.9 K: 15.8 NH4: 2.3
SO4: 135.0 HCO3: 201.0 Cl: 30.5 NO3: 0.3 F: 2.2
Sum Cations: 384.3 Sum Anions: 369.3 Cations/Anions: 1.04 Tot. P: 21.8
Tot. Al: 38.1 Ext. Al: 3.4 Fe: 69.0 Mn: 10.0 SiO2: 0.20

ID: 1B2-017 Name: LAKE HENRY State: PA Date: 16NOV84
Sample Type: REGULAR Latitude: 41-27'00"N Longitude: 75-26'50"W
Elevation: 451 Surface Temp: 4.7 Stratified: MIXED Site Depth: 6.7
Lake Area: 126 Watershed Area: 1510 WA/LA: 12.0 Hydro Type: DRAINAGE
Residence Time: 0.49 Secchi Depth: 3.4 Turbidity: 1.0 Color: 20
Closed pH: 7.15 Equil. pH: 7.34 ANC: 191.7 DOC: 2.90
Closed DIC: 2.48 Equil. DIC: 2.06 Meas. Cond: 55.3 Cal. Cond: 57.2
Ca: 273.0 Mg: 68.3 Na: 120.1 K: 14.1 NH4: 0.6
SO4: 163.4 HCO3: 156.6 Cl: 130.3 NO3: 1.6 F: 2.4
Sum Cations: 476.0 Sum Anions: 454.6 Cations/Anions: 1.05 Tot. P: 14.0
Tot. Al: 15.0 Ext. Al: 1.0 Fe: 30.0 Mn: 0.0 SiO2: 0.61

ID: 1B2-019 Name: CURTIS RESERVOIR State: PA Date: 07NOV84
Sample Type: REGULAR Latitude: 41-22'55"N Longitude: 75-30'15"W
Elevation: 455 Surface Temp: 8.3 Stratified: MIXED Site Depth: 1.5
Lake Area: 29 Watershed Area: 572 WA/LA: 19.9 Hydro Type: RESERVOIR
Residence Time: 0.07 Secchi Depth: 0.4 Turbidity: 9.2 Color: 35
Closed pH: 6.90 Equil. pH: 7.53 ANC: 200.4 DOC: 2.94
Closed DIC: 3.50 Equil. DIC: 2.13 Meas. Cond: 64.7 Cal. Cond: 68.5
Ca: 323.4 Mg: 64.2 Na: 117.3 K: 16.1 NH4: 3.0
SO4: 252.4 HCO3: 190.4 Cl: 124.8 NO3: 2.6 F: 2.0
Sum Cations: 524.1 Sum Anions: 572.3 Cations/Anions: 0.92 Tot. P: 56.1
Tot. Al: 313.6 Ext. Al: 2.7 Fe: 89.0 Mn: 138.0 SiO2: 3.85

ID: 1B2-022 Name: MAPLE LAKE State: PA Date: 07NOV84
Sample Type: REGULAR Latitude: 41-19'45"N Longitude: 75-35'00"W
Elevation: 492 Surface Temp: 9.7 Stratified: MIXED Site Depth: 3.0
Lake Area: 34 Watershed Area: 249 WA/LA: 7.4 Hydro Type: RESERVOIR
Residence Time: 0.35 Secchi Depth: 2.3 Turbidity: 1.6 Color: 30
Closed pH: 6.94 Equil. pH: 7.52 ANC: 214.0 DOC: 4.58
Closed DIC: 2.87 Equil. DIC: 2.38 Meas. Cond: 71.8 Cal. Cond: 79.2
Ca: 314.7 Mg: 78.1 Na: 203.5 K: 25.1 NH4: 9.4
SO4: 220.4 HCO3: 192.2 Cl: 223.9 NO3: 1.6 F: 2.8
Sum Cations: 630.8 Sum Anions: 641.1 Cations/Anions: 0.98 Tot. P: 22.8
Tot. Al: 43.7 Ext. Al: 2.5 Fe: 287.0 Mn: 175.0 SiO2: 0.35

(continued)

TABLE 3-1 (continued)

ID: 1B2-025 Name: GRASSY POND State: PA Date: 12NOV84
Sample Type: REGULAR Latitude: 41-16'45"N Longitude: 76-09'20"W
Elevation: 393 Surface Temp: 8.6 Stratified: MIXED Site Depth: 4.6
Lake Area: 5 Watershed Area: 41 WA/LA: 7.7 Hydro Type: DRAINAGE
Residence Time: 0.65 Secchi Depth: 2.5 Turbidity: 2.0 Color: 30
Closed pH: 6.81 Equil. pH: 7.66 ANC: 315.1 DOC: 4.50
Closed DIC: 5.11 Equil. DIC: 3.56 Meas. Cond: 67.1 Cal. Cond: 70.8
Ca: 357.3 Mg: 127.5 Na: 84.0 K: 24.8 NH4: 6.1
SO4: 151.6 HCO3: 300.4 Cl: 137.4 NO3: 1.3 F: 3.3
Sum Cations: 599.8 Sum Anions: 594.3 Cations/Anions: 1.01 Tot. P: 23.0
Tot. Al: 24.0 Ext. Al: 2.0 Fe: 340.0 Mn: 50.0 SiO2: 0.56

ID: 1B2-027 Name: DEEP HOLLOW POND State: PA Date: 07NOV84
Sample Type: REGULAR Latitude: 41-15'20"N Longitude: 75-47'40"W
Elevation: 342 Surface Temp: 11.2 Stratified: MIXED Site Depth: 4.8
Lake Area: 10 Watershed Area: 231 WA/LA: 22.2 Hydro Type: RESERVOIR
Residence Time: 0.19 Secchi Depth: 2.4 Turbidity: 1.6 Color: 8
Closed pH: 6.69 Equil. pH: 6.97 ANC: 68.9 DOC: 1.69
Closed DIC: 1.05 Equil. DIC: 0.76 Meas. Cond: 46.6 Cal. Cond: 50.1
Ca: 243.4 Mg: 73.3 Na: 31.7 K: 10.5 NH4: 1.8
SO4: 305.1 HCO3: 56.9 Cl: 26.9 NO3: 0.6 F: 3.0
Sum Cations: 361.0 Sum Anions: 392.5 Cations/Anions: 0.92 Tot. P: 6.2
Tot. Al: 127.6 Ext. Al: 1.9 Fe: 15.0 Mn: 25.5 SiO2: 1.20

ID: 1B2-028 Name: MILL CREEK RESERVOIR State: PA Date: 16NOV84
Sample Type: REGULAR Latitude: 41-15'45"N Longitude: 75-45'00"W
Elevation: 436 Surface Temp: 7.7 Stratified: MIXED Site Depth: 9.0
Lake Area: 38 Watershed Area: 759 WA/LA: 20.2 Hydro Type: RESERVOIR
Residence Time: 0.40 Secchi Depth: 9.3 Turbidity: 0.6 Color: 15
Closed pH: 6.23 Equil. pH: 6.44 ANC: 9.8 DOC: 1.20
Closed DIC: 0.53 Equil. DIC: 0.37 Meas. Cond: 30.9 Cal. Cond: 32.1
Ca: 124.8 Mg: 70.7 Na: 31.3 K: 9.5 NH4: 0.0
SO4: 185.3 HCO3: 11.7 Cl: 35.8 NO3: 0.2 F: 2.7
Sum Cations: 237.4 Sum Anions: 235.8 Cations/Anions: 1.01 Tot. P: 0.0
Tot. Al: 20.0 Ext. Al: 3.0 Fe: 0.0 Mn: 30.0 SiO2: 1.57

ID: 1B2-030 Name: HENRY LAKE State: PA Date: 03NOV84
Sample Type: REGULAR Latitude: 41-17'00"N Longitude: 75-29'10"W
Elevation: 579 Surface Temp: 11.0 Stratified: MIXED Site Depth: 3.0
Lake Area: 28 Watershed Area: 80 WA/LA: 2.8 Hydro Type: RESERVOIR
Residence Time: 0.85 Secchi Depth: 2.3 Turbidity: 2.7 Color: 20
Closed pH: 6.31 Equil. pH: 6.56 ANC: 29.9 DOC: 2.86
Closed DIC: 0.59 Equil. DIC: 0.37 Meas. Cond: 36.8 Cal. Cond: 37.9
Ca: 181.7 Mg: 42.3 Na: 36.0 K: 11.9 NH4: 1.9
SO4: 123.5 HCO3: 22.7 Cl: 139.3 NO3: 1.4 F: 2.2
Sum Cations: 274.6 Sum Anions: 289.2 Cations/Anions: 0.95 Tot. P: 12.2
Tot. Al: 137.7 Ext. Al: 3.5 Fe: 31.0 Mn: 120.0 SiO2: 0.50

ID: 1B2-031 Name: NO NAME(HIDDEN LAKE) State: PA Date: 01NOV84
Sample Type: REGULAR Latitude: 41-13'00"N Longitude: 76-12'00"W
Elevation: 302 Surface Temp: 14.2 Stratified: MIXED Site Depth: 3.0
Lake Area: 7 Watershed Area: 101 WA/LA: 13.6 Hydro Type: RESERVOIR
Residence Time: 0.25 Secchi Depth: 1.9 Turbidity: 2.8 Color: 35
Closed pH: 6.88 Equil. pH: 7.75 ANC: 345.1 DOC: 5.80
Closed DIC: 5.32 Equil. DIC: 3.88 Meas. Cond: 91.8 Cal. Cond: 100.0
Ca: 367.8 Mg: 204.8 Na: 217.5 K: 42.9 NH4: 6.0
SO4: 228.3 HCO3: 341.0 Cl: 246.7 NO3: 2.6 F: 4.2
Sum Cations: 839.2 Sum Anions: 823.1 Cations/Anions: 1.02 Tot. P: 46.3
Tot. Al: 53.1 Ext. Al: 10.4 Fe: 372.0 Mn: 581.5 SiO2: 4.15

(continued)

TABLE 3-1 (continued)

ID: 1B2-033 Name: NO NAME(LAKE ALEEDA) State: PA Date: 16NOV84
Sample Type: REGULAR Latitude: 41-14'45"N Longitude: 75-43'15"W
Elevation: 582 Surface Temp: 3.7 Stratified: MIXED Site Depth: 3.9
Lake Area: 26 Watershed Area: 119 WA/LA: 4.6 Hydro Type: RESERVOIR
Residence Time: 0.71 Secchi Depth: 1.6 Turbidity: 2.5 Color: 45
Closed pH: 5.14 Equil. pH: 5.15 ANC: -16.9 DOC: 2.20
Closed DIC: 0.38 Equil. DIC: 0.19 Meas. Cond: 37.6 Cal. Cond: 41.1
Ca: 81.3 Mg: 69.9 Na: 84.8 K: 15.6 NH4: 1.1
SO4: 158.6 HCO3: 1.6 Cl: 136.5 NO3: 7.9 F: 1.7
Sum Cations: 261.9 Sum Anions: 306.5 Cations/Anions: 0.85 Tot. P: 24.0
Tot. Al: 99.0 Ext. Al: 43.0 Fe: 430.0 Mn: 210.0 SiO2: 0.08

ID: 1B2-034 Name: MEADOW RUN PONDS (SOUTH) State: PA Date: 01NOV84
Sample Type: REGULAR Latitude: 41-12'55"N Longitude: 75-40'15"W
Elevation: 607 Surface Temp: 12.1 Stratified: MIXED Site Depth: 1.6
Lake Area: 15 Watershed Area: 510 WA/LA: 34.0 Hydro Type: RESERVOIR
Residence Time: 0.04 Secchi Depth: 1.6 Turbidity: 1.3 Color: 15
Closed pH: 5.77 Equil. pH: 6.02 ANC: 12.4 DOC: 1.76
Closed DIC: 0.38 Equil. DIC: 0.19 Meas. Cond: 22.7 Cal. Cond: 23.1
Ca: 54.2 Mg: 55.1 Na: 41.3 K: 12.6 NH4: 2.8
SO4: 116.3 HCO3: 9.4 Cl: 41.0 NO3: 0.2 F: 1.8
Sum Cations: 168.2 Sum Anions: 168.6 Cations/Anions: 1.00 Tot. P: 12.8
Tot. Al: 72.5 Ext. Al: 10.7 Fe: 107.0 Mn: 90.0 SiO2: 0.02

ID: 1B2-036 Name: NO NAME(LAKE PINCREST) State: PA Date: 01NOV84
Sample Type: REGULAR Latitude: 41-11'00"N Longitude: 76-14'40"W
Elevation: 290 Surface Temp: 14.8 Stratified: MIXED Site Depth: 2.7
Lake Area: 27 Watershed Area: 166 WA/LA: 6.1 Hydro Type: RESERVOIR
Residence Time: 0.47 Secchi Depth: 0.9 Turbidity: 2.2 Color: 30
Closed pH: 7.03 Equil. pH: 7.87 ANC: 476.7 DOC: 4.73
Closed DIC: 6.48 Equil. DIC: 5.07 Meas. Cond: 81.0 Cal. Cond: 86.7
Ca: 413.7 Mg: 153.0 Na: 139.1 K: 31.3 NH4: 15.6
SO4: 179.2 HCO3: 450.0 Cl: 111.7 NO3: 5.0 F: 3.9
Sum Cations: 752.8 Sum Anions: 750.4 Cations/Anions: 1.00 Tot. P: 28.0
Tot. Al: 119.0 Ext. Al: 5.0 Fe: 14.0 Mn: 27.0 SiO2: 0.82

ID: 1B2-037 Name: HANOVER RESERVOIR State: PA Date: 01NOV84
Sample Type: REGULAR Latitude: 41-10'20"N Longitude: 75-59'20"W
Elevation: 325 Surface Temp: 14.3 Stratified: MIXED Site Depth: 1.8
Lake Area: 7 Watershed Area: 73 WA/LA: 10.4 Hydro Type: RESERVOIR
Residence Time: 0.15 Secchi Depth: 1.8 Turbidity: 1.0 Color: 15
Closed pH: 6.53 Equil. pH: 7.15 ANC: 101.9 DOC: 3.64
Closed DIC: 2.09 Equil. DIC: 1.12 Meas. Cond: 38.5 Cal. Cond: 41.3
Ca: 174.4 Mg: 85.5 Na: 32.5 K: 27.3 NH4: 1.1
SO4: 200.6 HCO3: 93.6 Cl: 28.5 NO3: 0.1 F: 2.4
Sum Cations: 321.1 Sum Anions: 325.3 Cations/Anions: 0.99 Tot. P: 16.3
Tot. Al: 32.2 Ext. Al: 8.4 Fe: 42.0 Mn: 52.0 SiO2: 2.02

ID: 1B2-038 Name: THE ICE PONDS (EAST) State: PA Date: 01NOV84
Sample Type: REGULAR Latitude: 41-08'35"N Longitude: 75-56'15"W
Elevation: 349 Surface Temp: 14.0 Stratified: MIXED Site Depth: 2.4
Lake Area: 16 Watershed Area: 329 WA/LA: 20.7 Hydro Type: RESERVOIR
Residence Time: 0.10 Secchi Depth: 2.0 Turbidity: 0.6 Color: 20
Closed pH: 6.71 Equil. pH: 7.08 ANC: 85.1 DOC: 3.48
Closed DIC: 1.19 Equil. DIC: 0.89 Meas. Cond: 40.4 Cal. Cond: 41.8
Ca: 132.2 Mg: 86.7 Na: 96.9 K: 12.9 NH4: 1.2
SO4: 181.7 HCO3: 71.3 Cl: 68.7 NO3: 0.2 F: 6.3
Sum Cations: 330.2 Sum Anions: 328.2 Cations/Anions: 1.01 Tot. P: 12.7
Tot. Al: 26.0 Ext. Al: 8.8 Fe: 8.0 Mn: 13.0 SiO2: 0.79

(continued)

TABLE 3-1 (continued)

ID: 1B2-039 Name: CRYSTAL LAKE State: PA Date: 01NOV84
Sample Type: REGULAR Latitude: 41-10'00"N Longitude: 75-50'00"W
Elevation: 594 Surface Temp: 12.5 Stratified: MIXED Site Depth: 4.9
Lake Area: 213 Watershed Area: 658 WA/LA: 3.1 Hydro Type: RESERVOIR
Residence Time: 1.29 Secchi Depth: 4.9 Turbidity: 0.3 Color: 5
Closed pH: 4.67 Equil. pH: 4.63 ANC: -19.9 DOC: 0.24
Closed DIC: 0.29 Equil. DIC: 0.14 Meas. Cond: 34.9 Cal. Cond: 36.0
Ca: 59.8 Mg: 45.1 Na: 60.5 K: 8.7 NH4: 2.2
SO4: 152.6 HCO3: 0.5 Cl: 66.5 NO3: 5.6 F: 2.4
Sum Cations: 200.3 Sum Anions: 227.5 Cations/Anions: 0.88 Tot. P: 5.1
Tot. Al: 167.7 Ext. Al: 103.7 Fe: 74.0 Mn: 181.0 SiO2: 0.19

ID: 1B2-040 Name: BEAR CREEK LAKE State: PA Date: 01NOV84
Sample Type: REGULAR Latitude: 41-11'00"N Longitude: 75-45'15"W
Elevation: 464 Surface Temp: 12.2 Stratified: MIXED Site Depth: 2.1
Lake Area: 32 Watershed Area: 8399 WA/LA: 265.8 Hydro Type: RESERVOIR
Residence Time: 0.01 Secchi Depth: 1.7 Turbidity: 1.3 Color: 35
Closed pH: 5.60 Equil. pH: 6.21 ANC: 21.7 DOC: 3.55
Closed DIC: 1.24 Equil. DIC: 0.22 Meas. Cond: 65.9 Cal. Cond: 66.7
Ca: 109.8 Mg: 95.4 Na: 299.3 K: 22.4 NH4: 1.4
SO4: 133.5 HCO3: 15.3 Cl: 342.8 NO3: 0.4 F: 2.6
Sum Cations: 530.3 Sum Anions: 494.5 Cations/Anions: 1.07 Tot. P: 10.6
Tot. Al: 108.7 Ext. Al: 62.1 Fe: 183.0 Mn: 53.0 SiO2: 2.24

ID: 1B2-042 Name: SECOND POND State: PA Date: 18NOV84
Sample Type: REGULAR Latitude: 41-08'45"N Longitude: 75-01'45"W
Elevation: 351 Surface Temp: 7.5 Stratified: MIXED Site Depth: 10.8
Lake Area: 33 Watershed Area: 249 WA/LA: 7.7 Hydro Type: DRAINAGE
Residence Time: 1.16 Secchi Depth: 1.6 Turbidity: 1.8 Color: 20
Closed pH: 6.68 Equil. pH: 7.35 ANC: 156.2 DOC: 3.00
Closed DIC: 2.49 Equil. DIC: 1.77 Meas. Cond: 49.4 Cal. Cond: 50.4
Ca: 192.1 Mg: 99.5 Na: 104.4 K: 15.6 NH4: 0.0
SO4: 158.6 HCO3: 138.1 Cl: 107.5 NO3: 0.4 F: 2.8
Sum Cations: 411.8 Sum Anions: 407.6 Cations/Anions: 1.01 Tot. P: 13.0
Tot. Al: 22.0 Ext. Al: 2.0 Fe: 90.0 Mn: 370.0 SiO2: 0.46

ID: 1B2-044 Name: SWIFTWATER LAKE State: PA Date: 01NOV84
Sample Type: REGULAR Latitude: 41-05'53"N Longitude: 75-16'39"W
Elevation: 261 Surface Temp: 13.4 Stratified: MIXED Site Depth: 3.6
Lake Area: 8 Watershed Area: 2484 WA/LA: 322.6 Hydro Type: RESERVOIR
Residence Time: 0.01 Secchi Depth: 1.7 Turbidity: 1.7 Color: 20
Closed pH: 6.55 Equil. pH: 7.52 ANC: 215.4 DOC: 0.59
Closed DIC: 4.25 Equil. DIC: 2.50 Meas. Cond: 80.5 Cal. Cond: 84.1
Ca: 246.2 Mg: 120.1 Na: 284.5 K: 16.0 NH4: 11.3
SO4: 121.8 HCO3: 208.5 Cl: 353.4 NO3: 9.3 F: 1.7
Sum Cations: 678.3 Sum Anions: 694.8 Cations/Anions: 0.98 Tot. P: 12.4
Tot. Al: 69.6 Ext. Al: 5.2 Fe: 88.0 Mn: 277.0 SiO2: 4.27

ID: 1B2-045 Name: MANZANEDO LAKE State: PA Date: 01NOV84
Sample Type: REGULAR Latitude: 41-07'00"N Longitude: 75-11'45"W
Elevation: 317 Surface Temp: 14.1 Stratified: MIXED Site Depth: 1.8
Lake Area: 6 Watershed Area: 194 WA/LA: 30.8 Hydro Type: RESERVOIR
Residence Time: 0.05 Secchi Depth: 1.5 Turbidity: 1.1 Color: 30
Closed pH: 6.74 Equil. pH: 7.51 ANC: 206.4 DOC: 3.73
Closed DIC: 3.22 Equil. DIC: 2.23 Meas. Cond: 47.2 Cal. Cond: 48.2
Ca: 223.9 Mg: 79.6 Na: 98.9 K: 16.5 NH4: 1.0
SO4: 148.8 HCO3: 157.8 Cl: 67.3 NO3: 0.8 F: 3.7
Sum Cations: 420.1 Sum Anions: 378.4 Cations/Anions: 1.11 Tot. P: 20.5
Tot. Al: 43.5 Ext. Al: 6.0 Fe: 65.0 Mn: 66.0 SiO2: 0.18

(continued)

TABLE 3-1 (continued)

ID: 1B2-046 Name: IVAN SWAMP State: PA Date: 16NOV84
Sample Type: REGULAR Latitude: 41-08'26"N Longitude: 75-09'14"W
Elevation: 351 Surface Temp: 3.9 Stratified: MIXED Site Depth: 1.4
Lake Area: 7 Watershed Area: 73 WA/LA: 9.9 Hydro Type: RESERVOIR
Residence Time: 0.12 Secchi Depth: 1.3 Turbidity: 2.9 Color: 45
Closed pH: 7.04 Equil. pH: 7.49 ANC: 135.8 DOC: 5.00
Closed DIC: 1.76 Equil. DIC: 1.61 Meas. Cond: 34.6 Cal. Cond: 33.7
Ca: 168.7 Mg: 57.6 Na: 62.2 K: 11.8 NH4: 2.2
SO4: 100.4 HCO3: 101.8 Cl: 45.4 NO3: 3.1 F: 1.8
Sum Cations: 302.7 Sum Anions: 252.5 Cations/Anions: 1.20 Tot. P: 47.0
Tot. Al: 81.0 Ext. Al: 2.0 Fe: 60.0 Mn: 0.0 SiO2: 0.79

ID: 1B2-047 Name: FIRST POND State: PA Date: 18NOV84
Sample Type: REGULAR Latitude: 41-08'05"N Longitude: 75-01'35"W
Elevation: 322 Surface Temp: 7.5 Stratified: MIXED Site Depth: 7.6
Lake Area: 30 Watershed Area: 215 WA/LA: 7.3 Hydro Type: DRAINAGE
Residence Time: 0.86 Secchi Depth: 2.0 Turbidity: 1.8 Color: 20
Closed pH: 6.90 Equil. pH: 7.54 ANC: 296.8 DOC: 3.30
Closed DIC: 4.10 Equil. DIC: 3.27 Meas. Cond: 67.6 Cal. Cond: 68.7
Ca: 239.0 Mg: 139.8 Na: 175.7 K: 3.3 NH4: 14.4
SO4: 168.6 HCO3: 258.2 Cl: 146.4 NO3: 8.0 F: 3.6
Sum Cations: 572.5 Sum Anions: 585.1 Cations/Anions: 0.98 Tot. P: 40.0
Tot. Al: 14.0 Ext. Al: 1.0 Fe: 210.0 Mn: 20.0 SiO2: 1.21

ID: 1B2-048 Name: (NO NAME) State: PA Date: 15NOV84
Sample Type: REGULAR Latitude: 41-02'45"N Longitude: 75-24'00"W
Elevation: 558 Surface Temp: 1.5 Stratified: MIXED Site Depth: 0.9
Lake Area: 11 Watershed Area: 337 WA/LA: 31.5 Hydro Type: RESERVOIR
Residence Time: 0.03 Secchi Depth: 0.5 Turbidity: 5.4 Color: 50
Closed pH: 4.91 Equil. pH: 4.85 ANC: -12.0 DOC: 2.50
Closed DIC: 0.29 Equil. DIC: 0.22 Meas. Cond: 18.1 Cal. Cond: 17.5
Ca: 38.9 Mg: 20.6 Na: 22.2 K: 5.9 NH4: 0.6
SO4: 68.3 HCO3: 1.5 Cl: 24.5 NO3: 6.4 F: 1.2
Sum Cations: 101.3 Sum Anions: 101.9 Cations/Anions: 0.99 Tot. P: 21.0
Tot. Al: 136.0 Ext. Al: 40.0 Fe: 120.0 Mn: 50.0 SiO2: 1.21

ID: 1B2-049 Name: CRESENT LAKE State: PA Date: 06NOV84
Sample Type: REGULAR Latitude: 41-04'15"N Longitude: 75-23'10"W
Elevation: 527 Surface Temp: 10.6 Stratified: MIXED Site Depth: 3.1
Lake Area: 6 Watershed Area: 78 WA/LA: 12.6 Hydro Type: DRAINAGE
Residence Time: 0.22 Secchi Depth: 2.0 Turbidity: 2.5 Color: 30
Closed pH: 7.25 Equil. pH: 7.83 ANC: 409.1 DOC: 4.44
Closed DIC: 5.26 Equil. DIC: 4.42 Meas. Cond: 143.4 Cal. Cond: 155.9
Ca: 456.6 Mg: 67.9 Na: 762.1 K: 23.6 NH4: 2.3
SO4: 128.5 HCO3: 369.1 Cl: 761.8 NO3: 1.0 F: 2.5
Sum Cations: 1312.5 Sum Anions: 1263.8 Cations/Anions: 1.04 Tot. P: 9.7
Tot. Al: 52.6 Ext. Al: 8.5 Fe: 85.0 Mn: 200.0 SiO2: 1.86

ID: 1B2-051 Name: BELMONT LAKE State: PA Date: 03NOV84
Sample Type: REGULAR Latitude: 41-46'36"N Longitude: 75-26'30"W
Elevation: 593 Surface Temp: 10.3 Stratified: MIXED Site Depth: 4.5
Lake Area: 69 Watershed Area: 1114 WA/LA: 16.1 Hydro Type: RESERVOIR
Residence Time: 0.25 Secchi Depth: 2.4 Turbidity: 0.9 Color: 20
Closed pH: 6.99 Equil. pH: 7.32 ANC: 143.4 DOC: 3.41
Closed DIC: 1.82 Equil. DIC: 1.52 Meas. Cond: 37.7 Cal. Cond: 39.0
Ca: 217.5 Mg: 48.5 Na: 43.8 K: 12.3 NH4: 1.2
SO4: 146.6 HCO3: 125.6 Cl: 36.3 NO3: 0.1 F: 2.0
Sum Cations: 323.4 Sum Anions: 310.7 Cations/Anions: 1.04 Tot. P: 8.8
Tot. Al: 54.1 Ext. Al: 4.2 Fe: 27.0 Mn: 0.0 SiO2: 0.41

(continued)

TABLE 3-1 (continued)

ID: 1B2-053 Name: NORTH LAKE State: PA Date: 16NOV84
Sample Type: REGULAR Latitude: 41-17'30"N Longitude: 76-08'39"W
Elevation: 417 Surface Temp: 6.5 Stratified: MIXED Site Depth: 6.4
Lake Area: 16 Watershed Area: 54 WA/LA: 3.3 Hydro Type: DRAINAGE
Residence Time: 1.86 Secchi Depth: 3.8 Turbidity: 0.5 Color: 10
Closed pH: 7.32 Equil. pH: 7.70 ANC: 272.9 DOC: 2.65
Closed DIC: 3.41 Equil. DIC: 2.96 Meas. Cond: 69.4 Cal. Cond: 72.2
Ca: 333.1 Mg: 98.7 Na: 158.1 K: 20.5 NH4: 0.6
SO4: 192.4 HCO3: 222.1 Cl: 160.0 NO3: 0.6 F: 2.1
Sum Cations: 611.0 Sum Anions: 577.5 Cations/Anions: 1.06 Tot. P: 14.0
Tot. Al: 9.5 Ext. Al: 0.5 Fe: 5.0 Mn: 0.0 SiO2: 0.11

ID: 1B2-054 Name: TAMARACK LAKE State: PA Date: 03NOV84
Sample Type: REGULAR Latitude: 41-15'16"N Longitude: 75-29'34"W
Elevation: 561 Surface Temp: 8.6 Stratified: MIXED Site Depth: 0.9
Lake Area: 30 Watershed Area: 440 WA/LA: 14.9 Hydro Type: DRAINAGE
Residence Time: 0.05 Secchi Depth: 0.9 Turbidity: 0.7 Color: 25
Closed pH: 6.81 Equil. pH: 7.34 ANC: 154.0 DOC: 5.34
Closed DIC: 2.10 Equil. DIC: 1.57 Meas. Cond: 45.6 Cal. Cond: 46.6
Ca: 257.6 Mg: 66.1 Na: 42.4 K: 11.5 NH4: 4.2
SO4: 165.9 HCO3: 134.9 Cl: 60.1 NO3: 7.0 F: 2.2
Sum Cations: 381.9 Sum Anions: 370.2 Cations/Anions: 1.03 Tot. P: 15.1
Tot. Al: 35.2 Ext. Al: 3.7 Fe: 22.0 Mn: 6.0 SiO2: 0.35

ID: 1B2-055 Name: MEADOW RUN PO.(LG.NORTH) State: PA Date: 01NOV84
Sample Type: REGULAR Latitude: 41-13'29"N Longitude: 75-40'02"W
Elevation: 613 Surface Temp: 12.8 Stratified: MIXED Site Depth: 2.1
Lake Area: 36 Watershed Area: 438 WA/LA: 12.3 Hydro Type: RESERVOIR
Residence Time: 0.15 Secchi Depth: 3.1 Turbidity: 0.9 Color: 10
Closed pH: 6.13 Equil. pH: 6.33 ANC: 20.1 DOC: 1.59
Closed DIC: 0.39 Equil. DIC: 0.28 Meas. Cond: 18.5 Cal. Cond: 19.2
Ca: 49.6 Mg: 56.4 Na: 22.8 K: 10.4 NH4: 0.6
SO4: 101.4 HCO3: 18.1 Cl: 23.9 NO3: 0.5 F: 1.8
Sum Cations: 140.9 Sum Anions: 145.8 Cations/Anions: 0.97 Tot. P: 8.8
Tot. Al: 41.0 Ext. Al: 4.3 Fe: 54.0 Mn: 19.0 SiO2: 0.06

ID: 1B2-056 Name: NO NAME(GARDNERS DAM) State: PA Date: 16NOV84
Sample Type: REGULAR Latitude: 41-16'15"N Longitude: 75-45'47"W
Elevation: 327 Surface Temp: 6.4 Stratified: MIXED Site Depth: 3.9
Lake Area: 6 Watershed Area: 974 WA/LA: 157.1 Hydro Type: RESERVOIR
Residence Time: 0.02 Secchi Depth: 2.4 Turbidity: 1.3 Color: 5
Closed pH: 6.75 Equil. pH: 7.31 ANC: 99.7 DOC: 2.00
Closed DIC: 1.67 Equil. DIC: 1.21 Meas. Cond: 64.3 Cal. Cond: 70.3
Ca: 305.9 Mg: 86.4 Na: 124.0 K: 13.0 NH4: 0.6
SO4: 209.9 HCO3: 86.5 Cl: 253.9 NO3: 1.7 F: 2.4
Sum Cations: 530.0 Sum Anions: 554.4 Cations/Anions: 0.96 Tot. P: 4.0
Tot. Al: 41.0 Ext. Al: 1.0 Fe: 20.0 Mn: 420.0 SiO2: 2.46

ID: 1B2-058 Name: HOADLEY POND State: PA Date: 07NOV84
Sample Type: REGULAR Latitude: 41-33'32"N Longitude: 75-23'55"W
Elevation: 438 Surface Temp: 10.1 Stratified: MIXED Site Depth: 4.6
Lake Area: 15 Watershed Area: 52 WA/LA: 3.5 Hydro Type: DRAINAGE
Residence Time: 1.08 Secchi Depth: 1.1 Turbidity: 1.4 Color: 30
Closed pH: 6.83 Equil. pH: 7.22 ANC: 114.7 DOC: 6.73
Closed DIC: 1.47 Equil. DIC: 1.15 Meas. Cond: 32.4 Cal. Cond: 33.5
Ca: 187.7 Mg: 39.5 Na: 38.7 K: 8.4 NH4: 4.0
SO4: 139.1 HCO3: 93.8 Cl: 24.9 NO3: 0.1 F: 2.9
Sum Cations: 278.4 Sum Anions: 260.8 Cations/Anions: 1.07 Tot. P: 14.2
Tot. Al: 40.3 Ext. Al: 3.3 Fe: 12.0 Mn: 0.0 SiO2: 0.64

(continued)

TABLE 3-1 (continued)

ID: 1B2-059 Name: MUD POND State: PA Date: 07NOV84
Sample Type: REGULAR Latitude: 41-23'01"N Longitude: 75-31'35"W
Elevation: 486 Surface Temp: 7.9 Stratified: MIXED Site Depth: 1.5
Lake Area: 14 Watershed Area: 73 WA/LA: 5.1 Hydro Type: RESERVOIR
Residence Time: 0.25 Secchi Depth: 1.5 Turbidity: 0.6 Color: 35
Closed pH: 6.69 Equil. pH: 7.50 ANC: 203.4 DOC: 5.93
Closed DIC: 3.33 Equil. DIC: 1.97 Meas. Cond: 48.5 Cal. Cond: 50.2
Ca: 193.2 Mg: 75.9 Na: 138.1 K: 17.9 NH4: 0.1
SO4: 72.3 HCO3: 187.4 Cl: 158.9 NO3: 0.2 F: 3.2
Sum Cations: 425.3 Sum Anions: 422.2 Cations/Anions: 1.01 Tot. P: 14.2
Tot. Al: 29.1 Ext. Al: 1.9 Fe: 126.0 Mn: 7.0 SiO2: 0.54

ID: 1B2-062 Name: CURTIS POND State: PA Date: 07NOV84
Sample Type: REGULAR Latitude: 41-32'08"N Longitude: 75-22'40"W
Elevation: 418 Surface Temp: 9.6 Stratified: MIXED Site Depth: 5.2
Lake Area: 16 Watershed Area: 171 WA/LA: 10.6 Hydro Type: DRAINAGE
Residence Time: 0.43 Secchi Depth: 0.8 Turbidity: 2.1 Color: 45
Closed pH: 6.71 Equil. pH: 7.51 ANC: 208.1 DOC: 7.07
Closed DIC: 3.39 Equil. DIC: 2.19 Meas. Cond: 42.1 Cal. Cond: 41.8
Ca: 237.6 Mg: 47.5 Na: 58.5 K: 10.9 NH4: 11.6
SO4: 108.7 HCO3: 180.4 Cl: 47.1 NO3: 0.4 F: 2.4
Sum Cations: 366.4 Sum Anions: 339.3 Cations/Anions: 1.08 Tot. P: 23.7
Tot. Al: 80.6 Ext. Al: 3.9 Fe: 62.0 Mn: 136.0 SiO2: 0.62

ID: 1B2-064 Name: LAKE MASKENOZHA State: PA Date: 18NOV84
Sample Type: REGULAR Latitude: 41-11'18"N Longitude: 74'59'15"W
Elevation: 363 Surface Temp: 3.7 Stratified: MIXED Site Depth: 1.8
Lake Area: 77 Watershed Area: 5499 WA/LA: 71.0 Hydro Type: RESERVOIR
Residence Time: 0.02 Secchi Depth: 1.0 Turbidity: 2.5 Color: 60
Closed pH: 6.63 Equil. pH: 7.08 ANC: 74.3 DOC: 9.10
Closed DIC: 0.73 Equil. DIC: 0.70 Meas. Cond: 26.5 Cal. Cond: 24.9
Ca: 102.8 Mg: 72.4 Na: 58.3 K: 4.3 NH4: 0.0
SO4: 90.2 HCO3: 34.9 Cl: 33.0 NO3: 0.3 F: 2.9
Sum Cations: 238.4 Sum Anions: 161.3 Cations/Anions: 1.48 Tot. P: 39.0
Tot. Al: 23.0 Ext. Al: 27.0 Fe: 120.0 Mn: 30.0 SiO2: 2.10

ID: 1B2-065 Name: NO NAME(HIAWATHA LAKE) State: PA Date: 01NOV84
Sample Type: REGULAR Latitude: 41-07'33"N Longitude: 75-10'52"W
Elevation: 363 Surface Temp: 14.0 Stratified: MIXED Site Depth: 1.8
Lake Area: 6 Watershed Area: 145 WA/LA: 23.0 Hydro Type: RESERVOIR
Residence Time: 0.07 Secchi Depth: 1.8 Turbidity: 0.9 Color: 20
Closed pH: 6.60 Equil. pH: 7.17 ANC: 100.1 DOC: 3.07
Closed DIC: 1.64 Equil. DIC: 1.13 Meas. Cond: 32.2 Cal. Cond: 33.5
Ca: 147.7 Mg: 54.4 Na: 64.4 K: 12.1 NH4: 1.2
SO4: 141.3 HCO3: 85.6 Cl: 28.7 NO3: 0.4 F: 3.5
Sum Cations: 280.1 Sum Anions: 259.6 Cations/Anions: 1.08 Tot. P: 15.6
Tot. Al: 27.7 Ext. Al: 5.4 Fe: 66.0 Mn: 69.0 SiO2: 0.48

ID: 1B2-066 Name: KIZER POND State: PA Date: 16NOV84
Sample Type: REGULAR Latitude: 41-27'21"N Longitude: 75-27'38"W
Elevation: 472 Surface Temp: 3.1 Stratified: MIXED Site Depth: 1.2
Lake Area: 43 Watershed Area: 596 WA/LA: 13.7 Hydro Type: RESERVOIR
Residence Time: 0.08 Secchi Depth: 1.2 Turbidity: 1.9 Color: 30
Closed pH: 6.97 Equil. pH: 7.58 ANC: 125.6 DOC: 3.40
Closed DIC: 1.77 Equil. DIC: 1.38 Meas. Cond: 48.9 Cal. Cond: 49.7
Ca: 198.1 Mg: 78.1 Na: 122.2 K: 12.0 NH4: 0.6
SO4: 131.8 HCO3: 95.8 Cl: 152.6 NO3: 1.0 F: 2.7
Sum Cations: 411.3 Sum Anions: 383.9 Cations/Anions: 1.07 Tot. P: 22.0
Tot. Al: 43.0 Ext. Al: 1.0 Fe: 80.0 Mn: 120.0 SiO2: 0.50

(continued)

TABLE 3-1 (continued)

ID: 1B2-069 Name: BOYLE POND State: PA Date: 16NOV84
Sample Type: REGULAR Latitude: 41-10'11"N Longitude: 75-55'30"W
Elevation: 373 Surface Temp: 5.0 Stratified: MIXED Site Depth: 1.5
Lake Area: 12 Watershed Area: 179 WA/LA: 15.2 Hydro Type: RESERVOIR
Residence Time: 0.09 Secchi Depth: 1.3 Turbidity: 2.3 Color: 35
Closed pH: 7.23 Equil. pH: 7.51 ANC: 287.2 DOC: 3.90
Closed DIC: 3.73 Equil. DIC: 3.17 Meas. Cond: 47.4 Cal. Cond: 49.5
Ca: 262.5 Mg: 111.9 Na: 44.4 K: 18.7 NH4: 0.0
SO4: 121.8 HCO3: 252.8 Cl: 40.1 NO3: 1.2 F: 3.3
Sum Cations: 437.5 Sum Anions: 419.4 Cations/Anions: 1.04 Tot. P: 40.0
Tot. Al: 24.0 Ext. Al: 1.0 Fe: 230.0 Mn: 0.0 SiO2: 1.41

ID: 1B2-070 Name: INDIAN LAKE State: PA Date: 01NOV84
Sample Type: REGULAR Latitude: 41-11'20"N Longitude: 75-40'03"W
Elevation: 571 Surface Temp: 13.0 Stratified: MIXED Site Depth: 4.2
Lake Area: 13 Watershed Area: 67 WA/LA: 5.1 Hydro Type: DRAINAGE
Residence Time: 0.69 Secchi Depth: 2.5 Turbidity: 1.2 Color: 20
Closed pH: 6.66 Equil. pH: 7.13 ANC: 95.5 DOC: 3.06
Closed DIC: 1.69 Equil. DIC: 1.07 Meas. Cond: 42.3 Cal. Cond: 45.4
Ca: 160.1 Mg: 54.9 Na: 120.0 K: 19.2 NH4: 1.6
SO4: 142.5 HCO3: 109.8 Cl: 116.5 NO3: 0.3 F: 2.9
Sum Cations: 355.9 Sum Anions: 372.1 Cations/Anions: 0.96 Tot. P: 12.3
Tot. Al: 37.5 Ext. Al: 4.5 Fe: 56.0 Mn: 34.0 SiO2: 0.22

ID: 1B3-001 Name: CAYUGA LAKE State: NY Date: 15NOV84
Sample Type: REGULAR Latitude: 42-45'00"N Longitude: 76-45'00"W
Elevation: 118 Surface Temp: 9.2 Stratified: MIXED Site Depth: 27.4
Lake Area: 16604 Watershed Area: 202743 WA/LA: 12.2 Hydro Type: DRAINAGE
Residence Time: 2.49 Secchi Depth: 8.8 Turbidity: 0.5 Color: 5
Closed pH: 8.16 Equil. pH: 8.68 ANC: 2126.0 DOC: 2.60
Closed DIC: 25.11 Equil. DIC: 23.09 Meas. Cond: 434.9 Cal. Cond: 490.4
Ca: 2092.3 Mg: 865.4 Na: 1254.1 K: 51.9 NH4: 1.1
SO4: 719.3 HCO3: 1895.8 Cl: 1362.5 NO3: 75.5 F: 4.4
Sum Cations: 4264.8 Sum Anions: 4084.4 Cations/Anions: 1.04 Tot. P: 7.0
Tot. Al: 16.0 Ext. Al: 1.0 Fe: 10.0 Mn: 0.0 SiO2: 0.72

ID: 1B3-003 Name: TRIANGLE LAKE State: NY Date: 15NOV84
Sample Type: REGULAR Latitude: 42-32'00"N Longitude: 74-12'15"W
Elevation: 610 Surface Temp: 4.8 Stratified: MIXED Site Depth: 7.6
Lake Area: 11 Watershed Area: 117 WA/LA: 10.9 Hydro Type: DRAINAGE
Residence Time: 0.60 Secchi Depth: 1.5 Turbidity: 3.7 Color: 30
Closed pH: 7.36 Equil. pH: 7.91 ANC: 476.4 DOC: 4.00
Closed DIC: 5.92 Equil. DIC: 5.25 Meas. Cond: 86.4 Cal. Cond: 88.2
Ca: 479.0 Mg: 103.6 Na: 175.3 K: 16.1 NH4: 9.4
SO4: 118.3 HCO3: 412.0 Cl: 203.1 NO3: 1.9 F: 1.5
Sum Cations: 783.6 Sum Anions: 737.6 Cations/Anions: 1.06 Tot. P: 20.5
Tot. Al: 50.0 Ext. Al: 1.0 Fe: 165.0 Mn: 90.0 SiO2: 1.09

ID: 1B3-004 Name: GUILFORD LAKE State: NY Date: 15NOV84
Sample Type: REGULAR Latitude: 42-24'45"N Longitude: 75-30'00"W
Elevation: 475 Surface Temp: 6.9 Stratified: MIXED Site Depth: 15.2
Lake Area: 30 Watershed Area: 404 WA/LA: 13.6 Hydro Type: DRAINAGE
Residence Time: 0.96 Secchi Depth: 2.7 Turbidity: 1.2 Color: 25
Closed pH: 7.00 Equil. pH: 7.81 ANC: 343.4 DOC: 2.90
Closed DIC: 5.26 Equil. DIC: 3.89 Meas. Cond: 73.8 Cal. Cond: 78.0
Ca: 428.6 Mg: 131.6 Na: 101.4 K: 20.2 NH4: 4.4
SO4: 194.0 HCO3: 327.3 Cl: 109.5 NO3: 0.7 F: 1.8
Sum Cations: 686.3 Sum Anions: 633.8 Cations/Anions: 1.08 Tot. P: 37.0
Tot. Al: 14.0 Ext. Al: 1.0 Fe: 190.0 Mn: 250.0 SiO2: 0.96

(continued)

TABLE 3-1 (continued)

ID: 1B3-005 Name: AFTON LAKE State: NY Date: 15NOV84
Sample Type: REGULAR Latitude: 42-14'20"N Longitude: 75-30'45"W
Elevation: 301 Surface Temp: 8.3 Stratified: MIXED Site Depth: 16.2
Lake Area: 13 Watershed Area: 36 WA/LA: 2.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.3 Turbidity: 0.7 Color: 15
Closed pH: 7.02 Equil. pH: 7.85 ANC: 422.3 DOC: 3.30
Closed DIC: 6.07 Equil. DIC: 4.62 Meas. Cond: 85.8 Cal. Cond: 89.6
Ca: 421.7 Mg: 125.9 Na: 197.1 K: 33.2 NH4: 1.7
SO4: 159.3 HCO3: 377.9 Cl: 205.9 NO3: 0.0 F: 2.3
Sum Cations: 779.6 Sum Anions: 745.9 Cations/Anions: 1.05 Tot. P: 16.0
Tot. Al: 8.0 Ext. Al: 2.0 Fe: 0.0 Mn: 0.0 SiO2: 0.09

ID: 1B3-007 Name: OQUAGA LAKE State: NY Date: 03NOV84
Sample Type: REGULAR Latitude: 42-01'15"N Longitude: 75-27'30"W
Elevation: 479 Surface Temp: 11.9 Stratified: STRONG Site Depth: 21.9
Lake Area: 54 Watershed Area: 267 WA/LA: 5.0 Hydro Type: DRAINAGE
Residence Time: 3.66 Secchi Depth: 3.8 Turbidity: 0.7 Color: 10
Closed pH: 6.89 Equil. pH: 7.47 ANC: 191.2 DOC: 1.84
Closed DIC: 2.77 Equil. DIC: 2.08 Meas. Cond: 52.1 Cal. Cond: 54.1
Ca: 216.4 Mg: 79.3 Na: 125.8 K: 15.9 NH4: 3.9
SO4: 146.9 HCO3: 175.4 Cl: 124.7 NO3: 0.6 F: 1.8
Sum Cations: 441.4 Sum Anions: 449.7 Cations/Anions: 0.98 Tot. P: 11.4
Tot. Al: 48.2 Ext. Al: 2.7 Fe: 0.0 Mn: 21.5 SiO2: 0.57

ID: 1B3-012 Name: LITTLE BUTLER LAKE State: PA Date: 15NOV84
Sample Type: REGULAR Latitude: 41-51'45"N Longitude: 75-37'40"W
Elevation: 491 Surface Temp: 4.0 Stratified: MIXED Site Depth: 1.8
Lake Area: 10 Watershed Area: 137 WA/LA: 14.3 Hydro Type: RESERVOIR
Residence Time: 0.20 Secchi Depth: 1.8 Turbidity: 0.6 Color: 35
Closed pH: 7.13 Equil. pH: 7.74 ANC: 343.0 DOC: 5.40
Closed DIC: 4.49 Equil. DIC: 3.77 Meas. Cond: 63.9 Cal. Cond: 63.4
Ca: 333.3 Mg: 133.3 Na: 75.7 K: 38.4 NH4: 3.3
SO4: 123.9 HCO3: 291.8 Cl: 81.8 NO3: 5.2 F: 2.5
Sum Cations: 584.1 Sum Anions: 505.5 Cations/Anions: 1.16 Tot. P: 25.0
Tot. Al: 25.0 Ext. Al: 3.0 Fe: 60.0 Mn: 0.0 SiO2: 0.51

ID: 1B3-013 Name: STUMP POND State: NY Date: 15NOV84
Sample Type: REGULAR Latitude: 41-50'15"N Longitude: 74-54'00"W
Elevation: 531 Surface Temp: 2.5 Stratified: MIXED Site Depth: 2.3
Lake Area: 9 Watershed Area: 129 WA/LA: 14.2 Hydro Type: RESERVOIR
Residence Time: 0.10 Secchi Depth: 1.9 Turbidity: 1.6 Color: 35
Closed pH: 7.13 Equil. pH: 7.40 ANC: 190.7 DOC: 4.80
Closed DIC: 2.27 Equil. DIC: 1.98 Meas. Cond: 40.6 Cal. Cond: 39.5
Ca: 227.0 Mg: 63.3 Na: 47.8 K: 19.2 NH4: 1.1
SO4: 93.1 HCO3: 147.6 Cl: 59.5 NO3: 0.4 F: 2.3
Sum Cations: 358.6 Sum Anions: 303.0 Cations/Anions: 1.18 Tot. P: 22.0
Tot. Al: 32.0 Ext. Al: 3.0 Fe: 20.0 Mn: 0.0 SiO2: 0.33

ID: 1B3-014 Name: BROWNS POND State: PA Date: 12NOV84
Sample Type: REGULAR Latitude: 41-48'50"N Longitude: 76-35'00"W
Elevation: 399 Surface Temp: 6.7 Stratified: MIXED Site Depth: 0.9
Lake Area: 6 Watershed Area: 47 WA/LA: 8.3 Hydro Type: DRAINAGE
Residence Time: 0.16 Secchi Depth: 0.9 Turbidity: 0.9 Color: 25
Closed pH: 8.47 Equil. pH: 8.10 ANC: 688.3 DOC: 5.50
Closed DIC: 7.94 Equil. DIC: 7.71 Meas. Cond: 104.9 Cal. Cond: 113.8
Ca: 580.8 Mg: 340.6 Na: 94.4 K: 16.6 NH4: 1.7
SO4: 228.6 HCO3: 620.9 Cl: 110.0 NO3: 3.2 F: 4.8
Sum Cations: 1034.1 Sum Anions: 971.8 Cations/Anions: 1.06 Tot. P: 14.0
Tot. Al: 20.0 Ext. Al: 5.0 Fe: 50.0 Mn: 0.0 SiO2: 0.00

(continued)

TABLE 3-1 (continued)

ID: 1B3-015 Name: (NO NAME) State: PA Date: 15NOV84
Sample Type: REGULAR Latitude: 41-47'20"N Longitude: 75-38'15"W
Elevation: 468 Surface Temp: 3.5 Stratified: MIXED Site Depth: 1.5
Lake Area: 6 Watershed Area: 41 WA/LA: 7.4 Hydro Type: RESERVOIR
Residence Time: 0.30 Secchi Depth: 1.5 Turbidity: 3.2 Color: 15
Closed pH: 7.11 Equil. pH: 7.35 ANC: 226.0 DOC: 3.60
Closed DIC: 3.13 Equil. DIC: 2.49 Meas. Cond: 53.3 Cal. Cond: 54.4
Ca: 325.3 Mg: 56.8 Na: 68.3 K: 13.0 NH4: 6.1
SO4: 152.8 HCO3: 197.6 Cl: 69.1 NO3: 10.0 F: 2.1
Sum Cations: 469.6 Sum Anions: 431.9 Cations/Anions: 1.09 Tot. P: 17.0
Tot. Al: 37.0 Ext. Al: 2.0 Fe: 70.0 Mn: 0.0 SiO2: 0.91

ID: 1B3-017 Name: LITTLE ELK LAKE State: PA Date: 12NOV84
Sample Type: REGULAR Latitude: 41-45'30"N Longitude: 75-56'30"W
Elevation: 409 Surface Temp: 8.9 Stratified: MIXED Site Depth: 7.3
Lake Area: 19 Watershed Area: 207 WA/LA: 11.1 Hydro Type: DRAINAGE
Residence Time: 1.04 Secchi Depth: 1.9 Turbidity: 1.3 Color: 30
Closed pH: 6.89 Equil. pH: 8.01 ANC: 556.4 DOC: 5.00
Closed DIC: 8.63 Equil. DIC: 6.11 Meas. Cond: 100.3 Cal. Cond: 106.1
Ca: 446.1 Mg: 195.8 Na: 180.5 K: 67.0 NH4: 18.8
SO4: 183.0 HCO3: 512.7 Cl: 209.3 NO3: 2.3 F: 3.5
Sum Cations: 908.4 Sum Anions: 911.3 Cations/Anions: 1.00 Tot. P: 89.0
Tot. Al: 15.0 Ext. Al: 2.0 Fe: 80.0 Mn: 310.0 SiO2: 0.60

ID: 1B3-018 Name: CONKLIN POND State: NY Date: 10NOV84
Sample Type: REGULAR Latitude: 41-43'04"N Longitude: 74-38'30"W
Elevation: 381 Surface Temp: 6.7 Stratified: MIXED Site Depth: 0.9
Lake Area: 10 Watershed Area: 404 WA/LA: 42.5 Hydro Type: DRAINAGE
Residence Time: 0.02 Secchi Depth: 0.9 Turbidity: 0.5 Color: 15
Closed pH: 6.68 Equil. pH: 7.16 ANC: 108.9 DOC: 4.90
Closed DIC: 1.71 Equil. DIC: 1.16 Meas. Cond: 68.4 Cal. Cond: 70.8
Ca: 210.3 Mg: 114.3 Na: 203.4 K: 29.7 NH4: 2.8
SO4: 190.5 HCO3: 89.2 Cl: 263.2 NO3: 1.8 F: 2.5
Sum Cations: 560.7 Sum Anions: 547.3 Cations/Anions: 1.02 Tot. P: 13.5
Tot. Al: 19.0 Ext. Al: 4.5 Fe: 20.0 Mn: 0.0 SiO2: 0.03

ID: 1B3-019 Name: HARTLEY POND State: PA Date: 16NOV84
Sample Type: REGULAR Latitude: 41-39'30"N Longitude: 75-42'30"W
Elevation: 338 Surface Temp: 6.8 Stratified: MIXED Site Depth: 7.0
Lake Area: 14 Watershed Area: 145 WA/LA: 10.7 Hydro Type: DRAINAGE
Residence Time: 1.03 Secchi Depth: 1.4 Turbidity: 1.5 Color: 35
Closed pH: 6.47 Equil. pH: 7.65 ANC: 218.7 DOC: 6.40
Closed DIC: 4.74 Equil. DIC: 2.23 Meas. Cond: 46.7 Cal. Cond: 50.2
Ca: 288.4 Mg: 63.3 Na: 37.4 K: 10.5 NH4: 25.5
SO4: 175.3 HCO3: 197.0 Cl: 27.4 NO3: 1.4 F: 2.4
Sum Cations: 425.4 Sum Anions: 403.6 Cations/Anions: 1.05 Tot. P: 42.0
Tot. Al: 40.0 Ext. Al: 3.0 Fe: 130.0 Mn: 80.0 SiO2: 1.02

ID: 1B3-020 Name: KIAMESHA LAKE State: NY Date: 10NOV84
Sample Type: REGULAR Latitude: 41-40'30"N Longitude: 74-40'00"W
Elevation: 422 Surface Temp: 9.9 Stratified: MIXED Site Depth: 7.0
Lake Area: 59 Watershed Area: 249 WA/LA: 4.2 Hydro Type: DRAINAGE
Residence Time: 1.09 Secchi Depth: 1.0 Turbidity: 1.5 Color: 25
Closed pH: 6.85 Equil. pH: 7.64 ANC: 318.8 DOC: 4.10
Closed DIC: 4.74 Equil. DIC: 3.29 Meas. Cond: 116.3 Cal. Cond: 123.7
Ca: 333.3 Mg: 101.2 Na: 485.0 K: 25.1 NH4: 18.8
SO4: 169.7 HCO3: 285.9 Cl: 582.5 NO3: 0.3 F: 2.8
Sum Cations: 963.6 Sum Anions: 1041.4 Cations/Anions: 0.93 Tot. P: 52.0
Tot. Al: 12.0 Ext. Al: 1.0 Fe: 10.0 Mn: 250.0 SiO2: 0.60

(continued)

TABLE 3-1 (continued)

ID: 1B3-021 Name: CORD POND State: PA Date: 16NOV84
Sample Type: REGULAR Latitude: 41-39'10"N Longitude: 75-51'00"W
Elevation: 360 Surface Temp: 7.8 Stratified: MIXED Site Depth: 7.3
Lake Area: 12 Watershed Area: 57 WA/LA: 4.8 Hydro Type: DRAINAGE
Residence Time: 2.03 Secchi Depth: 2.5 Turbidity: 1.7 Color: 15
Closed pH: 7.13 Equil. pH: 7.71 ANC: 382.7 DOC: 3.80
Closed DIC: 5.35 Equil. DIC: 4.23 Meas. Cond: 60.5 Cal. Cond: 62.8
Ca: 362.8 Mg: 93.0 Na: 43.5 K: 25.3 NH4: 23.8
SO4: 135.7 HCO3: 333.9 Cl: 58.1 NO3: 1.8 F: 2.5
Sum Cations: 548.5 Sum Anions: 532.5 Cations/Anions: 1.03 Tot. P: 21.0
Tot. Al: 16.0 Ext. Al: 0.0 Fe: 10.0 Mn: 180.0 SiO2: 0.84

ID: 1B3-022 Name: FEAGLES LAKE State: NY Date: 15NOV84
Sample Type: REGULAR Latitude: 41-36'15"N Longitude: 75-02'50"W
Elevation: 223 Surface Temp: 3.8 Stratified: MIXED Site Depth: 1.5
Lake Area: 12 Watershed Area: 106 WA/LA: 8.8 Hydro Type: RESERVOIR
Residence Time: 0.15 Secchi Depth: 0.5 Turbidity: 7.6 Color: 50
Closed pH: 7.55 Equil. pH: 7.63 ANC: 201.3 DOC: 11.20
Closed DIC: 2.25 Equil. DIC: 2.14 Meas. Cond: 113.8 Cal. Cond: 120.6
Ca: 274.9 Mg: 164.5 Na: 498.1 K: 22.0 NH4: 2.2
SO4: 205.1 HCO3: 146.5 Cl: 571.3 NO3: 28.8 F: 3.7
Sum Cations: 961.9 Sum Anions: 955.4 Cations/Anions: 1.01 Tot. P: 60.0
Tot. Al: 54.0 Ext. Al: 3.0 Fe: 20.0 Mn: 0.0 SiO2: 0.56

ID: 1B3-023 Name: (NO NAME) State: NY Date: 06NOV84
Sample Type: REGULAR Latitude: 41-37'40"N Longitude: 73-37'30"W
Elevation: 294 Surface Temp: 10.6 Stratified: MIXED Site Depth: 3.4
Lake Area: 8 Watershed Area: 16 WA/LA: 1.9 Hydro Type: RESERVOIR
Residence Time: 1.13 Secchi Depth: 3.4 Turbidity: 1.2 Color: 15
Closed pH: 7.19 Equil. pH: 7.65 ANC: 281.9 DOC: 3.14
Closed DIC: 3.61 Equil. DIC: 3.09 Meas. Cond: 51.8 Cal. Cond: 55.8
Ca: 310.3 Mg: 66.4 Na: 60.2 K: 32.7 NH4: 1.2
SO4: 175.9 HCO3: 258.5 Cl: 33.8 NO3: 0.5 F: 1.9
Sum Cations: 470.8 Sum Anions: 471.4 Cations/Anions: 1.00 Tot. P: 7.7
Tot. Al: 36.3 Ext. Al: 7.2 Fe: 78.0 Mn: 23.0 SiO2: 1.33

ID: 1B3-025 Name: TROUT LAKE State: NY Date: 10NOV84
Sample Type: REGULAR Latitude: 41-35'10"N Longitude: 74-40'50"W
Elevation: 446 Surface Temp: 7.7 Stratified: MIXED Site Depth: 1.8
Lake Area: 19 Watershed Area: 122 WA/LA: 6.3 Hydro Type: RESERVOIR
Residence Time: 0.19 Secchi Depth: 1.8 Turbidity: 0.8 Color: 20
Closed pH: 6.03 Equil. pH: 6.58 ANC: 35.4 DOC: 3.30
Closed DIC: 1.04 Equil. DIC: 0.42 Meas. Cond: 20.7 Cal. Cond: 19.7
Ca: 82.8 Mg: 27.1 Na: 32.2 K: 5.9 NH4: 5.5
SO4: 93.7 HCO3: 26.4 Cl: 23.1 NO3: 0.4 F: 2.9
Sum Cations: 154.4 Sum Anions: 146.5 Cations/Anions: 1.05 Tot. P: 10.0
Tot. Al: 29.0 Ext. Al: 5.0 Fe: 80.0 Mn: 10.0 SiO2: 0.00

ID: 1B3-026 Name: GLENBURN POND State: PA Date: 16NOV84
Sample Type: REGULAR Latitude: 41-31'00"N Longitude: 75-43'45"W
Elevation: 341 Surface Temp: 4.1 Stratified: MIXED Site Depth: 1.4
Lake Area: 11 Watershed Area: 1981 WA/LA: 180.1 Hydro Type: RESERVOIR
Residence Time: 0.01 Secchi Depth: 1.4 Turbidity: 2.9 Color: 30
Closed pH: 7.63 Equil. pH: 8.27 ANC: 1083.0 DOC: 3.60
Closed DIC: 13.38 Equil. DIC: 11.93 Meas. Cond: 329.4 Cal. Cond: 367.8
Ca: 1365.8 Mg: 278.0 Na: 1213.6 K: 60.6 NH4: 2.2
SO4: 514.3 HCO3: 951.7 Cl: 1572.7 NO3: 35.6 F: 4.0
Sum Cations: 2920.3 Sum Anions: 3081.4 Cations/Anions: 0.95 Tot. P: 125.0
Tot. Al: 42.0 Ext. Al: 1.0 Fe: 30.0 Mn: 10.0 SiO2: 4.23

(continued)

TABLE 3-1 (continued)

ID: 1B3-027 Name: BEACON RESERVOIR State: NY Date: 06NOV84
Sample Type: REGULAR Latitude: 41-29'25"N Longitude: 73-53'00"W
Elevation: 269 Surface Temp: 12.6 Stratified: MIXED Site Depth: 10.7
Lake Area: 9 Watershed Area: 202 WA/LA: 21.5 Hydro Type: RESERVOIR
Residence Time: 0.55 Secchi Depth: 2.4 Turbidity: 0.8 Color: 15
Closed pH: 7.05 Equil. pH: 7.45 ANC: 191.8 DOC: 2.94
Closed DIC: 2.55 Equil. DIC: 2.13 Meas. Cond: 48.0 Cal. Cond: 51.9
Ca: 234.9 Mg: 95.0 Na: 83.0 K: 13.3 NH4: 0.9
SO4: 196.2 HCO3: 172.6 Cl: 53.3 NO3: 0.3 F: 3.0
Sum Cations: 427.2 Sum Anions: 425.6 Cations/Anions: 1.00 Tot. P: 8.6
Tot. Al: 26.1 Ext. Al: 7.5 Fe: 36.0 Mn: 0.0 SiO2: 2.09

ID: 1B3-028 Name: CRAFT POND State: PA Date: 03NOV84
Sample Type: REGULAR Latitude: 41-26'05"N Longitude: 75-17'15"W
Elevation: 404 Surface Temp: 10.6 Stratified: MIXED Site Depth: 2.7
Lake Area: 7 Watershed Area: 777 WA/LA: 111.0 Hydro Type: RESERVOIR
Residence Time: 0.02 Secchi Depth: 1.4 Turbidity: 2.7 Color: 35
Closed pH: 7.15 Equil. pH: 7.91 ANC: 507.4 DOC: 6.94
Closed DIC: 6.49 Equil. DIC: 5.14 Meas. Cond: 80.5 Cal. Cond: 83.8
Ca: 495.5 Mg: 101.1 Na: 116.6 K: 36.0 NH4: 2.3
SO4: 131.5 HCO3: 451.2 Cl: 124.3 NO3: 0.4 F: 2.9
Sum Cations: 751.7 Sum Anions: 711.0 Cations/Anions: 1.06 Tot. P: 37.7
Tot. Al: 65.3 Ext. Al: 2.8 Fe: 52.0 Mn: 0.0 SiO2: 2.45

ID: 1B3-029 Name: JACOX POND State: NY Date: 06NOV84
Sample Type: REGULAR Latitude: 41-26'40"N Longitude: 73-55'25"W
Elevation: 125 Surface Temp: 10.6 Stratified: MIXED Site Depth: 2.4
Lake Area: 5 Watershed Area: 41 WA/LA: 7.7 Hydro Type: DRAINAGE
Residence Time: 0.30 Secchi Depth: 0.9 Turbidity: 2.4 Color: 50
Closed pH: 6.69 Equil. pH: 7.84 ANC: 410.5 DOC: 8.02
Closed DIC: 6.94 Equil. DIC: 4.27 Meas. Cond: 52.3 Cal. Cond: 51.8
Ca: 282.7 Mg: 134.9 Na: 60.4 K: 8.3 NH4: 1.4
SO4: 67.4 HCO3: 361.3 Cl: 30.2 NO3: 0.6 F: 3.6
Sum Cations: 487.9 Sum Anions: 463.3 Cations/Anions: 1.05 Tot. P: 37.2
Tot. Al: 17.6 Ext. Al: 7.1 Fe: 74.0 Mn: 6.0 SiO2: 4.61

ID: 1B3-030 Name: ELSTONS POND State: PA Date: 01NOV84
Sample Type: REGULAR Latitude: 41-22'20"N Longitude: 75-58'15"W
Elevation: 360 Surface Temp: 13.9 Stratified: MIXED Site Depth: 1.2
Lake Area: 12 Watershed Area: 272 WA/LA: 22.9 Hydro Type: RESERVOIR
Residence Time: 0.06 Secchi Depth: 1.1 Turbidity: 3.6 Color: 30
Closed pH: 7.11 Equil. pH: 7.84 ANC: 413.4 DOC: 3.80
Closed DIC: 5.53 Equil. DIC: 4.56 Meas. Cond: 87.3 Cal. Cond: 93.1
Ca: 426.6 Mg: 128.3 Na: 191.5 K: 30.0 NH4: 6.0
SO4: 235.6 HCO3: 369.6 Cl: 166.1 NO3: 6.4 F: 2.7
Sum Cations: 782.6 Sum Anions: 780.8 Cations/Anions: 1.00 Tot. P: 57.2
Tot. Al: 113.2 Ext. Al: 17.0 Fe: 270.0 Mn: 316.0 SiO2: 2.50

ID: 1B3-032 Name: WIXON POND State: NY Date: 06NOV84
Sample Type: REGULAR Latitude: 41-23'45"N Longitude: 73-44'05"W
Elevation: 219 Surface Temp: 12.1 Stratified: MIXED Site Depth: 3.6
Lake Area: 10 Watershed Area: 62 WA/LA: 6.2 Hydro Type: DRAINAGE
Residence Time: 0.53 Secchi Depth: 1.5 Turbidity: 4.7 Color: 45
Closed pH: 7.21 Equil. pH: 7.73 ANC: 336.7 DOC: 6.10
Closed DIC: 4.17 Equil. DIC: 3.55 Meas. Cond: 63.6 Cal. Cond: 67.9
Ca: 289.6 Mg: 147.2 Na: 142.0 K: 25.9 NH4: 1.3
SO4: 158.3 HCO3: 280.9 Cl: 109.4 NO3: 0.3 F: 2.9
Sum Cations: 606.2 Sum Anions: 552.2 Cations/Anions: 1.10 Tot. P: 23.9
Tot. Al: 19.1 Ext. Al: 9.5 Fe: 204.0 Mn: 45.0 SiO2: 3.66

(continued)

TABLE 3-1 (continued)

ID: 1B3-033 Name: (NO NAME) State: NY Date: 10NOV84
Sample Type: REGULAR Latitude: 41-20'15"N Longitude: 74-32'15"W
Elevation: 149 Surface Temp: 9.0 Stratified: MIXED Site Depth: 1.5
Lake Area: 6 Watershed Area: 88 WA/LA: 14.9 Hydro Type: DRAINAGE
Residence Time: 0.08 Secchi Depth: 1.5 Turbidity: 1.6 Color: 25
Closed pH: 8.24 Equil. pH: 8.52 ANC: 1412.0 DOC: 6.20
Closed DIC: 16.64 Equil. DIC: 15.60 Meas. Cond: 216.5 Cal. Cond: 230.9
Ca: 1023.4 Mg: 310.9 Na: 729.5 K: 21.2 NH4: 1.1
SO4: 108.7 HCO3: 1263.8 Cl: 647.7 NO3: 1.4 F: 5.4
Sum Cations: 2086.2 Sum Anions: 2036.1 Cations/Anions: 1.02 Tot. P: 25.0
Tot. Al: 16.0 Ext. Al: 4.0 Fe: 100.0 Mn: 0.0 SiO2: 0.44

ID: 1B3-034 Name: BARGER LAKE State: NY Date: 06NOV84
Sample Type: REGULAR Latitude: 41-21'40"N Longitude: 73-48'45"W
Elevation: 197 Surface Temp: 11.7 Stratified: MIXED Site Depth: 3.1
Lake Area: 12 Watershed Area: 497 WA/LA: 40.4 Hydro Type: DRAINAGE
Residence Time: 0.09 Secchi Depth: 1.4 Turbidity: 2.3 Color: 93
Closed pH: 7.23 Equil. pH: 8.07 ANC: 719.8 DOC: 11.65
Closed DIC: 9.18 Equil. DIC: 7.36 Meas. Cond: 130.0 Cal. Cond: 141.5
Ca: 615.8 Mg: 326.2 Na: 311.0 K: 29.4 NH4: 7.8
SO4: 120.7 HCO3: 619.5 Cl: 414.3 NO3: 1.9 F: 3.4
Sum Cations: 1290.2 Sum Anions: 1161.4 Cations/Anions: 1.11 Tot. P: 23.4
Tot. Al: 24.6 Ext. Al: 10.5 Fe: 158.5 Mn: 27.5 SiO2: 8.38

ID: 1B3-036 Name: NO NAME(LAKE JAMIE) State: PA Date: 31OCT84
Sample Type: REGULAR Latitude: 41-15'00"N Longitude: 74-54'25"W
Elevation: 320 Surface Temp: 15.0 Stratified: MIXED Site Depth: 1.2
Lake Area: 16 Watershed Area: 65 WA/LA: 4.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.2 Turbidity: 1.1 Color: 20
Closed pH: 6.64 Equil. pH: 7.10 ANC: 96.5 DOC: 5.99
Closed DIC: 1.35 Equil. DIC: 1.00 Meas. Cond: 50.5 Cal. Cond: 53.4
Ca: 174.4 Mg: 96.6 Na: 151.5 K: 7.9 NH4: 1.3
SO4: 127.5 HCO3: 91.9 Cl: 197.4 NO3: 0.8 F: 2.5
Sum Cations: 432.0 Sum Anions: 420.1 Cations/Anions: 1.03 Tot. P: 21.6
Tot. Al: 36.5 Ext. Al: 0.8 Fe: 27.0 Mn: 17.0 SiO2: 0.16

ID: 1B3-040 Name: KITCHELL LAKE State: NJ Date: 10NOV84
Sample Type: REGULAR Latitude: 41-05'15"N Longitude: 74-21'15"W
Elevation: 242 Surface Temp: 9.3 Stratified: MIXED Site Depth: 1.5
Lake Area: 8 Watershed Area: 220 WA/LA: 26.5 Hydro Type: RESERVOIR
Residence Time: 0.05 Secchi Depth: 1.5 Turbidity: 2.5 Color: 20
Closed pH: 7.21 Equil. pH: 7.84 ANC: 400.0 DOC: 3.30
Closed DIC: 5.35 Equil. DIC: 4.47 Meas. Cond: 84.3 Cal. Cond: 87.0
Ca: 291.9 Mg: 185.1 Na: 253.2 K: 17.9 NH4: 7.2
SO4: 143.2 HCO3: 349.9 Cl: 227.4 NO3: 8.9 F: 4.8
Sum Cations: 755.4 Sum Anions: 734.7 Cations/Anions: 1.03 Tot. P: 23.0
Tot. Al: 37.0 Ext. Al: 1.0 Fe: 110.0 Mn: 60.0 SiO2: 2.55

ID: 1B3-041 Name: EAST STROUDSBURG RESERV. State: PA Date: 01NOV84
Sample Type: REGULAR Latitude: 41-04'00"N Longitude: 75-10'00"W
Elevation: 271 Surface Temp: 14.6 Stratified: MIXED Site Depth: 7.6
Lake Area: 22 Watershed Area: 326 WA/LA: 15.2 Hydro Type: RESERVOIR
Residence Time: 0.44 Secchi Depth: 3.7 Turbidity: 1.4 Color: 5
Closed pH: 6.84 Equil. pH: 7.14 ANC: 97.2 DOC: 2.48
Closed DIC: 1.35 Equil. DIC: 1.05 Meas. Cond: 40.2 Cal. Cond: 41.9
Ca: 161.4 Mg: 78.7 Na: 73.5 K: 8.9 NH4: 1.2
SO4: 199.0 HCO3: 94.5 Cl: 43.8 NO3: 0.3 F: 2.7
Sum Cations: 323.8 Sum Anions: 340.4 Cations/Anions: 0.95 Tot. P: 12.2
Tot. Al: 30.2 Ext. Al: 8.5 Fe: 44.0 Mn: 57.0 SiO2: 1.11

(continued)

TABLE 3-1 (continued)

ID: 1B3-042 Name: LAKE STOCKHOLM State: NJ Date: 10NOV84
Sample Type: REGULAR Latitude: 41-04'05"N Longitude: 74-31'45"W
Elevation: 335 Surface Temp: 9.8 Stratified: MIXED Site Depth: 3.7
Lake Area: 13 Watershed Area: 158 WA/LA: 12.4 Hydro Type: RESERVOIR
Residence Time: 0.25 Secchi Depth: 3.7 Turbidity: 1.0 Color: 10
Closed pH: 8.13 Equil. pH: 8.20 ANC: 770.7 DOC: 2.80
Closed DIC: 9.17 Equil. DIC: 8.49 Meas. Cond: 263.6 Cal. Cond: 283.5
Ca: 735.5 Mg: 398.1 Na: 1174.5 K: 20.5 NH4: 1.1
SO4: 239.4 HCO3: 678.2 Cl: 1419.0 NO3: 1.5 F: 5.6
Sum Cations: 2329.8 Sum Anions: 2347.0 Cations/Anions: 0.99 Tot. P: 13.0
Tot. Al: 46.0 Ext. Al: 5.0 Fe: 10.0 Mn: 0.0 SiO2: 0.27

ID: 1B3-043 Name: TROUT LAKE State: PA Date: 01NOV84
Sample Type: REGULAR Latitude: 41-00'15"N Longitude: 75-20'30"W
Elevation: 287 Surface Temp: 14.7 Stratified: MIXED Site Depth: 4.2
Lake Area: 37 Watershed Area: 987 WA/LA: 26.7 Hydro Type: RESERVOIR
Residence Time: 0.14 Secchi Depth: 4.4 Turbidity: 0.9 Color: 15
Closed pH: 6.86 Equil. pH: 7.36 ANC: 152.0 DOC: 2.50
Closed DIC: 2.19 Equil. DIC: 1.71 Meas. Cond: 34.9 Cal. Cond: 36.4
Ca: 147.1 Mg: 75.6 Na: 72.9 K: 10.7 NH4: 1.2
SO4: 100.1 HCO3: 145.0 Cl: 58.6 NO3: 0.0 F: 2.1
Sum Cations: 307.6 Sum Anions: 305.9 Cations/Anions: 1.01 Tot. P: 14.4
Tot. Al: 20.4 Ext. Al: 6.0 Fe: 87.0 Mn: 122.0 SiO2: 1.86

ID: 1B3-044 Name: HIGH CREST LAKE State: NJ Date: 10NOV84
Sample Type: REGULAR Latitude: 41-01'10"N Longitude: 74-22'30"W
Elevation: 194 Surface Temp: 10.6 Stratified: MIXED Site Depth: 3.7
Lake Area: 16 Watershed Area: 171 WA/LA: 10.6 Hydro Type: RESERVOIR
Residence Time: 0.29 Secchi Depth: 1.8 Turbidity: 3.1 Color: 10
Closed pH: 7.71 Equil. pH: 8.15 ANC: 670.0 DOC: 4.30
Closed DIC: 8.22 Equil. DIC: 7.53 Meas. Cond: 179.9 Cal. Cond: 189.6
Ca: 560.9 Mg: 300.2 Na: 689.9 K: 25.1 NH4: 3.9
SO4: 196.7 HCO3: 590.9 Cl: 804.0 NO3: 0.0 F: 3.1
Sum Cations: 1580.0 Sum Anions: 1595.9 Cations/Anions: 0.99 Tot. P: 29.0
Tot. Al: 37.0 Ext. Al: 4.0 Fe: 80.0 Mn: 40.0 SiO2: 1.46

ID: 1B3-045 Name: STAG POND State: NJ Date: 18NOV84
Sample Type: REGULAR Latitude: 40-59'34"N Longitude: 74-41'49"W
Elevation: 247 Surface Temp: 7.3 Stratified: MIXED Site Depth: 7.0
Lake Area: 11 Watershed Area: 85 WA/LA: 7.9 Hydro Type: DRAINAGE
Residence Time: 0.70 Secchi Depth: 2.5 Turbidity: 0.7 Color: 28
Closed pH: 7.03 Equil. pH: 7.91 ANC: 417.8 DOC: 3.95
Closed DIC: 5.43 Equil. DIC: 4.57 Meas. Cond: 73.4 Cal. Cond: 77.4
Ca: 396.0 Mg: 211.0 Na: 66.1 K: 14.7 NH4: 0.6
SO4: 221.5 HCO3: 373.4 Cl: 46.4 NO3: 0.3 F: 4.7
Sum Cations: 688.4 Sum Anions: 646.9 Cations/Anions: 1.06 Tot. P: 15.0
Tot. Al: 11.0 Ext. Al: 1.5 Fe: 25.0 Mn: 0.0 SiO2: 2.75

ID: 1B3-048 Name: (NO NAME) State: NJ Date: 10NOV84
Sample Type: REGULAR Latitude: 40-52'15"N Longitude: 74-37'45"W
Elevation: 216 Surface Temp: 12.1 Stratified: MIXED Site Depth: 7.3
Lake Area: 17 Watershed Area: 73 WA/LA: 4.4 Hydro Type: RESERVOIR
Residence Time: 1.18 Secchi Depth: 1.7 Turbidity: 1.4 Color: 20
Closed pH: 8.15 Equil. pH: 8.79 ANC: 2187.0 DOC: 3.30
Closed DIC: 26.54 Equil. DIC: 23.90 Meas. Cond: 324.7 Cal. Cond: 361.0
Ca: 1378.7 Mg: 1147.5 Na: 682.1 K: 24.0 NH4: 5.0
SO4: 388.3 HCO3: 1999.4 Cl: 789.9 NO3: 1.8 F: 2.8
Sum Cations: 3237.4 Sum Anions: 3200.4 Cations/Anions: 1.01 Tot. P: 23.0
Tot. Al: 11.0 Ext. Al: 1.0 Fe: 0.0 Mn: 0.0 SiO2: 6.32

(continued)

TABLE 3-1 (continued)

ID: 1B3-051 Name: BARRETT POND State: NY Date: 06NOV84
Sample Type: REGULAR Latitude: 41-26'04"N Longitude: 73-44'25"W
Elevation: 237 Surface Temp: 12.9 Stratified: MIXED Site Depth: 9.6
Lake Area: 30 Watershed Area: 171 WA/LA: 5.8 Hydro Type: DRAINAGE
Residence Time: 1.50 Secchi Depth: 3.6 Turbidity: 0.5 Color: 15
Closed pH: 7.08 Equil. pH: 7.59 ANC: 299.1 DOC: 2.97
Closed DIC: 3.48 Equil. DIC: 2.90 Meas. Cond: 61.4 Cal. Cond: 65.1
Ca: 269.7 Mg: 155.5 Na: 101.9 K: 15.0 NH4: 1.4
SO4: 213.8 HCO3: 234.8 Cl: 90.0 NO3: 0.0 F: 1.7
Sum Cations: 543.5 Sum Anions: 540.5 Cations/Anions: 1.01 Tot. P: 9.3
Tot. Al: 8.6 Ext. Al: 7.0 Fe: 0.0 Mn: 10.0 SiO2: 2.45

ID: 1B3-052 Name: (NO NAME) State: NY Date: 10NOV84
Sample Type: REGULAR Latitude: 41-29'23"N Longitude: 74-32'20"W
Elevation: 381 Surface Temp: 8.7 Stratified: MIXED Site Depth: 2.1
Lake Area: 17 Watershed Area: 88 WA/LA: 5.1 Hydro Type: DRAINAGE
Residence Time: 0.30 Secchi Depth: 2.1 Turbidity: 1.6 Color: 20
Closed pH: 6.32 Equil. pH: 6.48 ANC: 19.1 DOC: 3.30
Closed DIC: 0.26 Equil. DIC: 0.28 Meas. Cond: 57.1 Cal. Cond: 58.6
Ca: 106.8 Mg: 82.3 Na: 237.9 K: 16.9 NH4: 1.1
SO4: 164.3 HCO3: 14.3 Cl: 267.1 NO3: 0.0 F: 2.6
Sum Cations: 446.1 Sum Anions: 448.3 Cations/Anions: 0.99 Tot. P: 31.0
Tot. Al: 46.0 Ext. Al: 3.0 Fe: 50.0 Mn: 160.0 SiO2: 0.37

ID: 1B3-053 Name: NO NAME(SNOWFLAKE LAKE) State: PA Date: 03NOV84
Sample Type: REGULAR Latitude: 41-54'18"N Longitude: 75-24'37"W
Elevation: 552 Surface Temp: 9.5 Stratified: MIXED Site Depth: 1.8
Lake Area: 5 Watershed Area: 73 WA/LA: 14.0 Hydro Type: RESERVOIR
Residence Time: 0.11 Secchi Depth: 1.5 Turbidity: 2.4 Color: 30
Closed pH: 6.77 Equil. pH: 7.60 ANC: 253.1 DOC: 5.67
Closed DIC: 3.81 Equil. DIC: 2.68 Meas. Cond: 39.8 Cal. Cond: 40.9
Ca: 281.7 Mg: 42.4 Na: 28.2 K: 7.2 NH4: 1.3
SO4: 104.4 HCO3: 228.5 Cl: 15.6 NO3: 0.0 F: 1.5
Sum Cations: 361.0 Sum Anions: 350.2 Cations/Anions: 1.03 Tot. P: 25.1
Tot. Al: 64.7 Ext. Al: 3.0 Fe: 77.0 Mn: 4.0 SiO2: 1.15

ID: 1B3-055 Name: SILVER LAKE State: NY Date: 15NOV84
Sample Type: REGULAR Latitude: 42-19'34"N Longitude: 74-10'05"W
Elevation: 567 Surface Temp: 3.2 Stratified: MIXED Site Depth: 0.9
Lake Area: 6 Watershed Area: 344 WA/LA: 61.4 Hydro Type: DRAINAGE
Residence Time: 0.01 Secchi Depth: 0.9 Turbidity: 0.9 Color: 45
Closed pH: 6.90 Equil. pH: 7.40 ANC: 175.5 DOC: 2.90
Closed DIC: 2.48 Equil. DIC: 1.96 Meas. Cond: 95.6 Cal. Cond: 97.7
Ca: 339.3 Mg: 171.1 Na: 210.1 K: 18.2 NH4: 38.8
SO4: 313.5 HCO3: 149.3 Cl: 261.8 NO3: 26.9 F: 1.2
Sum Cations: 777.6 Sum Anions: 752.8 Cations/Anions: 1.03 Tot. P: 17.0
Tot. Al: 62.0 Ext. Al: 2.0 Fe: 660.0 Mn: 490.0 SiO2: 3.07

ID: 1B3-056 Name: RIGA LAKE State: CT Date: 08NOV84
Sample Type: REGULAR Latitude: 42-01'18"N Longitude: 73-29'00"W
Elevation: 533 Surface Temp: 5.4 Stratified: MIXED Site Depth: 3.2
Lake Area: 64 Watershed Area: 619 WA/LA: 9.7 Hydro Type: DRAINAGE
Residence Time: 0.28 Secchi Depth: 3.2 Turbidity: 0.2 Color: 10
Closed pH: 5.23 Equil. pH: 5.19 ANC: 0.0 DOC: 0.40
Closed DIC: 0.21 Equil. DIC: 0.25 Meas. Cond: 21.4 Cal. Cond: 21.6
Ca: 57.9 Mg: 29.6 Na: 27.8 K: 3.3 NH4: 2.8
SO4: 124.7 HCO3: 1.4 Cl: 19.7 NO3: 8.9 F: 2.4
Sum Cations: 128.5 Sum Anions: 157.1 Cations/Anions: 0.82 Tot. P: 4.0
Tot. Al: 128.0 Ext. Al: 116.0 Fe: 30.0 Mn: 160.0 SiO2: 1.13

(continued)

TABLE 3-1 (continued)

ID: 1B3-057 Name: TYRRELL LAKE State: NY Date: 06NOV84
Sample Type: REGULAR Latitude: 41-45'25"N Longitude: 73-44'58"W
Elevation: 124 Surface Temp: 12.0 Stratified: MIXED Site Depth: 7.6
Lake Area: 17 Watershed Area: 243 WA/LA: 14.2 Hydro Type: DRAINAGE
Residence Time: 0.58 Secchi Depth: 2.4 Turbidity: 2.2 Color: 25
Closed pH: 6.98 Equil. pH: 7.90 ANC: 439.5 DOC: 4.24
Closed DIC: 6.14 Equil. DIC: 4.76 Meas. Cond: 76.9 Cal. Cond: 83.0
Ca: 456.6 Mg: 150.5 Na: 102.4 K: 12.2 NH4: 5.1
SO4: 249.3 HCO3: 388.2 Cl: 53.6 NO3: 0.2 F: 1.9
Sum Cations: 726.9 Sum Anions: 693.8 Cations/Anions: 1.05 Tot. P: 15.1
Tot. Al: 4.2 Ext. Al: 8.9 Fe: 7.0 Mn: 115.0 SiO2: 4.55

ID: 1B3-058 Name: CLOVE ACRES LAKE State: NJ Date: 10NOV84
Sample Type: REGULAR Latitude: 41-12'53"N Longitude: 74-36'44"W
Elevation: 131 Surface Temp: 8.3 Stratified: MIXED Site Depth: 2.1
Lake Area: 14 Watershed Area: 5009 WA/LA: 363.0 Hydro Type: RESERVOIR
Residence Time: 0.01 Secchi Depth: 1.4 Turbidity: 4.3 Color: 20
Closed pH: 7.68 Equil. pH: 8.57 ANC: 1313.0 DOC: 3.30
Closed DIC: 16.42 Equil. DIC: 14.76 Meas. Cond: 249.2 Cal. Cond: 269.7
Ca: 1383.2 Mg: 348.8 Na: 475.5 K: 59.3 NH4: 20.0
SO4: 429.9 HCO3: 1197.4 Cl: 658.7 NO3: 12.3 F: 2.7
Sum Cations: 2286.8 Sum Anions: 2305.3 Cations/Anions: 0.99 Tot. P: 65.0
Tot. Al: 99.0 Ext. Al: 1.0 Fe: 130.0 Mn: 110.0 SiO2: 5.10

ID: 1B3-059 Name: ISLAND POND State: NY Date: 10NOV84
Sample Type: REGULAR Latitude: 41-15'26"N Longitude: 74-08'25"W
Elevation: 296 Surface Temp: 10.1 Stratified: STRONG Site Depth: 30.5
Lake Area: 21 Watershed Area: 414 WA/LA: 19.7 Hydro Type: DRAINAGE
Residence Time: 1.33 Secchi Depth: 2.6 Turbidity: 0.7 Color: 30
Closed pH: 5.09 Equil. pH: 5.17 ANC: -13.1 DOC: 3.60
Closed DIC: 0.69 Equil. DIC: 0.15 Meas. Cond: 34.1 Cal. Cond: 35.8
Ca: 116.3 Mg: 61.7 Na: 49.6 K: 4.3 NH4: 0.6
SO4: 194.7 HCO3: 2.2 Cl: 48.0 NO3: 0.2 F: 4.8
Sum Cations: 241.6 Sum Anions: 249.8 Cations/Anions: 0.97 Tot. P: 11.0
Tot. Al: 145.0 Ext. Al: 93.0 Fe: 70.0 Mn: 80.0 SiO2: 2.69

ID: 1B3-060 Name: SLY LAKE State: PA Date: 03NOV84
Sample Type: REGULAR Latitude: 41-49'25"N Longitude: 75-20'14"W
Elevation: 459 Surface Temp: 11.9 Stratified: WEAK Site Depth: 16.8
Lake Area: 23 Watershed Area: 135 WA/LA: 5.9 Hydro Type: DRAINAGE
Residence Time: 2.43 Secchi Depth: 4.2 Turbidity: 0.5 Color: 15
Closed pH: 6.92 Equil. pH: 7.44 ANC: 196.0 DOC: 2.69
Closed DIC: 2.82 Equil. DIC: 2.16 Meas. Cond: 42.8 Cal. Cond: 44.6
Ca: 231.9 Mg: 50.3 Na: 66.5 K: 13.8 NH4: 1.1
SO4: 147.2 HCO3: 180.0 Cl: 48.9 NO3: 0.0 F: 2.3
Sum Cations: 363.7 Sum Anions: 378.6 Cations/Anions: 0.96 Tot. P: 7.2
Tot. Al: 27.9 Ext. Al: 3.4 Fe: 6.0 Mn: 70.0 SiO2: 0.34

ID: 1B3-062 Name: BASSETT POND State: PA Date: 16NOV84
Sample Type: REGULAR Latitude: 41-35'33"N Longitude: 75-42'40"W
Elevation: 362 Surface Temp: 6.2 Stratified: MIXED Site Depth: 5.1
Lake Area: 16 Watershed Area: 98 WA/LA: 6.0 Hydro Type: DRAINAGE
Residence Time: 1.20 Secchi Depth: 2.4 Turbidity: 2.8 Color: 30
Closed pH: 7.10 Equil. pH: 7.82 ANC: 378.3 DOC: 5.10
Closed DIC: 5.18 Equil. DIC: 3.99 Meas. Cond: 98.2 Cal. Cond: 103.3
Ca: 445.6 Mg: 100.4 Na: 271.0 K: 32.7 NH4: 17.2
SO4: 194.5 HCO3: 321.7 Cl: 310.3 NO3: 6.2 F: 2.7
Sum Cations: 867.0 Sum Anions: 835.8 Cations/Anions: 1.04 Tot. P: 40.0
Tot. Al: 33.0 Ext. Al: 1.0 Fe: 120.0 Mn: 220.0 SiO2: 0.86

(continued)

TABLE 3-1 (continued)

ID: 1B3-064 Name: POCANTICO LAKE State: NY Date: 06NOV84
Sample Type: REGULAR Latitude: 41-07'22"N Longitude: 73-50'00"W
Elevation: 67 Surface Temp: 13.3 Stratified: MIXED Site Depth: 6.4
Lake Area: 25 Watershed Area: 3170 WA/LA: 124.8 Hydro Type: RESERVOIR
Residence Time: 0.06 Secchi Depth: 0.4 Turbidity: 17.0 Color: 60
Closed pH: 7.29 Equil. pH: 8.29 ANC: 1080.8 DOC: 6.74
Closed DIC: 14.31 Equil. DIC: 10.55 Meas. Cond: 283.3 Cal. Cond: 307.9
Ca: 1099.3 Mg: 549.5 Na: 846.5 K: 118.5 NH4: 11.3
SO4: 429.8 HCO3: 961.0 Cl: 1071.0 NO3: 30.5 F: 4.1
Sum Cations: 2625.2 Sum Anions: 2498.2 Cations/Anions: 1.05 Tot. P: 118.2
Tot. Al: 657.3 Ext. Al: 10.1 Fe: 148.0 Mn: 100.0 SiO2: 6.59

ID: 1B3-066 Name: SOLON POND State: NY Date: 15NOV84
Sample Type: REGULAR Latitude: 42-37'06"N Longitude: 75-55'28"W
Elevation: 439 Surface Temp: 3.8 Stratified: MIXED Site Depth: 3.3
Lake Area: 15 Watershed Area: 425 WA/LA: 28.1 Hydro Type: DRAINAGE
Residence Time: 0.10 Secchi Depth: 2.4 Turbidity: 2.8 Color: 35
Closed pH: 7.42 Equil. pH: 8.24 ANC: 713.3 DOC: 5.20
Closed DIC: 8.75 Equil. DIC: 7.51 Meas. Cond: 105.7 Cal. Cond: 112.4
Ca: 609.3 Mg: 222.9 Na: 145.7 K: 61.4 NH4: 3.9
SO4: 139.3 HCO3: 615.9 Cl: 166.4 NO3: 9.0 F: 4.4
Sum Cations: 1043.2 Sum Anions: 936.5 Cations/Anions: 1.11 Tot. P: 33.0
Tot. Al: 48.0 Ext. Al: 3.0 Fe: 290.0 Mn: 60.0 SiO2: 3.61

ID: 1B3-067 Name: BASS LAKE State: NJ Date: 18NOV84
Sample Type: REGULAR Latitude: 41-01'33"N Longitude: 74-57'12"W
Elevation: 233 Surface Temp: 4.7 Stratified: MIXED Site Depth: 1.6
Lake Area: 6 Watershed Area: 1479 WA/LA: 268.9 Hydro Type: DRAINAGE
Residence Time: 0.01 Secchi Depth: 1.5 Turbidity: 2.2 Color: 25
Closed pH: 7.44 Equil. pH: 7.85 ANC: 409.9 DOC: 2.90
Closed DIC: 4.60 Equil. DIC: 4.55 Meas. Cond: 104.6 Cal. Cond: 116.3
Ca: 515.0 Mg: 177.7 Na: 202.7 K: 28.4 NH4: 0.0
SO4: 312.7 HCO3: 334.2 Cl: 313.7 NO3: 0.0 F: 2.8
Sum Cations: 923.8 Sum Anions: 964.0 Cations/Anions: 0.96 Tot. P: 24.0
Tot. Al: 38.0 Ext. Al: 1.0 Fe: 120.0 Mn: 10.0 SiO2: 2.57

ID: 1B3-068 Name: HOLP POND State: NY Date: 15NOV84
Sample Type: REGULAR Latitude: 41-52'43"N Longitude: 74-59'58"W
Elevation: 556 Surface Temp: 1.8 Stratified: MIXED Site Depth: 1.5
Lake Area: 12 Watershed Area: 140 WA/LA: 12.0 Hydro Type: DRAINAGE
Residence Time: 0.09 Secchi Depth: 1.5 Turbidity: 2.0 Color: 45
Closed pH: 7.07 Equil. pH: 7.53 ANC: 198.6 DOC: 6.20
Closed DIC: 2.49 Equil. DIC: 2.05 Meas. Cond: 33.2 Cal. Cond: 32.7
Ca: 226.5 Mg: 49.4 Na: 23.9 K: 9.7 NH4: 2.2
SO4: 73.9 HCO3: 155.8 Cl: 19.2 NO3: 0.1 F: 1.6
Sum Cations: 312.0 Sum Anions: 250.8 Cations/Anions: 1.24 Tot. P: 27.0
Tot. Al: 19.0 Ext. Al: 2.0 Fe: 80.0 Mn: 10.0 SiO2: 0.64

ID: 1C1-001 Name: LAKE ABENIKI State: NH Date: 18OCT84
Sample Type: REGULAR Latitude: 44-52'40"N Longitude: 71-18'00"W
Elevation: 680 Surface Temp: 8.1 Stratified: MIXED Site Depth: 2.1
Lake Area: 7 Watershed Area: 311 WA/LA: 45.7 Hydro Type: RESERVOIR
Residence Time: 0.03 Secchi Depth: 0.2 Turbidity: 11.3 Color: 65
Closed pH: 6.61 Equil. pH: 7.64 ANC: 261.5 DOC: 4.32
Closed DIC: 4.80 Equil. DIC: 2.81 Meas. Cond: 44.0 Cal. Cond: 43.7
Ca: 258.8 Mg: 74.1 Na: 49.9 K: 14.5 NH4: 5.1
SO4: 112.1 HCO3: 222.5 Cl: 11.3 NO3: 8.0 F: 2.0
Sum Cations: 402.6 Sum Anions: 356.1 Cations/Anions: 1.13 Tot. P: 59.2
Tot. Al: 405.4 Ext. Al: 16.6 Fe: 194.0 Mn: 150.0 SiO2: 5.26

(continued)

TABLE 3-1 (continued)

ID: 1C1-002 Name: EDDY POND State: ME Date: 18OCT84
Sample Type: REGULAR Latitude: 44-55'15"N Longitude: 70-31'32"W
Elevation: 797 Surface Temp: 9.1 Stratified: MIXED Site Depth: 6.7
Lake Area: 4 Watershed Area: 158 WA/LA: 37.6 Hydro Type: DRAINAGE
Residence Time: 0.13 Secchi Depth: 4.0 Turbidity: 0.5 Color: 15
Closed pH: 6.34 Equil. pH: 6.70 ANC: 33.7 DOC: 2.99
Closed DIC: 0.59 Equil. DIC: 0.47 Meas. Cond: 15.2 Cal. Cond: 17.1
Ca: 81.8 Mg: 24.4 Na: 29.2 K: 3.7 NH4: 1.2
SO4: 91.2 HCO3: 24.9 Cl: 6.7 NO3: 0.3 F: 1.8
Sum Cations: 140.7 Sum Anions: 124.9 Cations/Anions: 1.13 Tot. P: 17.2
Tot. Al: 90.8 Ext. Al: 13.0 Fe: 19.0 Mn: 4.0 SiO2: 0.78

ID: 1C1-003 Name: SOUTH POND State: ME Date: 18OCT84
Sample Type: REGULAR Latitude: 44-52'00"N Longitude: 70-33'30"W
Elevation: 663 Surface Temp: 10.0 Stratified: MIXED Site Depth: 1.8
Lake Area: 6 Watershed Area: 31 WA/LA: 5.2 Hydro Type: DRAINAGE
Residence Time: 0.23 Secchi Depth: 1.8 Turbidity: 0.9 Color: 10
Closed pH: 5.91 Equil. pH: 6.37 ANC: 14.0 DOC: 2.53
Closed DIC: 0.40 Equil. DIC: 0.30 Meas. Cond: 13.3 Cal. Cond: 13.5
Ca: 56.2 Mg: 18.8 Na: 22.0 K: 3.8 NH4: 0.8
SO4: 76.5 HCO3: 8.4 Cl: 8.3 NO3: 0.2 F: 1.3
Sum Cations: 103.0 Sum Anions: 94.7 Cations/Anions: 1.09 Tot. P: 5.2
Tot. Al: 115.6 Ext. Al: 22.4 Fe: 42.0 Mn: 10.0 SiO2: 0.71

ID: 1C1-004 Name: LONG POND State: NH Date: 25OCT84
Sample Type: REGULAR Latitude: 44-03'00"N Longitude: 71-53'30"W
Elevation: 665 Surface Temp: 9.4 Stratified: MIXED Site Depth: 1.8
Lake Area: 39 Watershed Area: 557 WA/LA: 14.5 Hydro Type: DRAINAGE
Residence Time: 0.09 Secchi Depth: 1.4 Turbidity: 2.1 Color: 35
Closed pH: 6.54 Equil. pH: 7.15 ANC: 92.7 DOC: 5.97
Closed DIC: 1.48 Equil. DIC: 0.99 Meas. Cond: 22.7 Cal. Cond: 23.4
Ca: 122.0 Mg: 39.4 Na: 30.3 K: 12.2 NH4: 1.2
SO4: 91.1 HCO3: 76.4 Cl: 8.0 NO3: 0.2 F: 1.8
Sum Cations: 205.3 Sum Anions: 177.6 Cations/Anions: 1.16 Tot. P: 11.5
Tot. Al: 118.4 Ext. Al: 8.7 Fe: 74.0 Mn: 16.0 SiO2: 0.86

ID: 1C1-008 Name: SANDY RIVER PONDS (MID) State: ME Date: 18OCT84
Sample Type: REGULAR Latitude: 44-53'50"N Longitude: 70-33'30"W
Elevation: 518 Surface Temp: 10.2 Stratified: MIXED Site Depth: 13.4
Lake Area: 28 Watershed Area: 909 WA/LA: 32.7 Hydro Type: DRAINAGE
Residence Time: 0.29 Secchi Depth: 1.7 Turbidity: 1.4 Color: 30
Closed pH: 6.80 Equil. pH: 7.05 ANC: 75.4 DOC: 3.78
Closed DIC: 0.90 Equil. DIC: 0.90 Meas. Cond: 27.9 Cal. Cond: 29.9
Ca: 120.1 Mg: 36.5 Na: 85.3 K: 8.0 NH4: 0.9
SO4: 109.9 HCO3: 64.7 Cl: 51.6 NO3: 0.7 F: 2.4
Sum Cations: 250.9 Sum Anions: 229.4 Cations/Anions: 1.09 Tot. P: 13.5
Tot. Al: 62.0 Ext. Al: 9.4 Fe: 102.0 Mn: 5.0 SiO2: 3.43

ID: 1C1-009 Name: UPPER BAKER POND State: NH Date: 25OCT84
Sample Type: REGULAR Latitude: 43-54'30"N Longitude: 71-59'30"W
Elevation: 275 Surface Temp: 11.5 Stratified: MIXED Site Depth: 5.5
Lake Area: 67 Watershed Area: 2647 WA/LA: 39.6 Hydro Type: DRAINAGE
Residence Time: 0.12 Secchi Depth: 3.7 Turbidity: 0.6 Color: 25
Closed pH: 6.77 Equil. pH: 7.19 ANC: 120.0 DOC: 4.80
Closed DIC: 1.47 Equil. DIC: 1.30 Meas. Cond: 29.2 Cal. Cond: 30.5
Ca: 139.9 Mg: 44.3 Na: 61.0 K: 19.7 NH4: 1.1
SO4: 105.5 HCO3: 91.2 Cl: 33.2 NO3: 0.6 F: 2.4
Sum Cations: 266.1 Sum Anions: 233.0 Cations/Anions: 1.14 Tot. P: 6.2
Tot. Al: 52.6 Ext. Al: 7.9 Fe: 39.0 Mn: 8.0 SiO2: 2.18

(continued)

TABLE 3-1 (continued)

ID: 1C1-010 Name: (BIG) BERRY POND State: ME Date: 19OCT84
Sample Type: REGULAR Latitude: 45-30'20"N Longitude: 70-02'15"W
Elevation: 491 Surface Temp: 9.0 Stratified: MIXED Site Depth: 4.6
Lake Area: 14 Watershed Area: 342 WA/LA: 25.3 Hydro Type: DRAINAGE
Residence Time: 0.16 Secchi Depth: 4.2 Turbidity: 0.4 Color: 35
Closed pH: 6.54 Equil. pH: 6.85 ANC: 60.7 DOC: 5.88
Closed DIC: 0.78 Equil. DIC: 0.64 Meas. Cond: 21.3 Cal. Cond: 21.6
Ca: 99.5 Mg: 41.4 Na: 47.1 K: 5.2 NH4: 1.2
SO4: 92.0 HCO3: 48.6 Cl: 12.8 NO3: 0.0 F: 1.4
Sum Cations: 194.7 Sum Anions: 154.8 Cations/Anions: 1.26 Tot. P: 5.4
Tot. Al: 70.1 Ext. Al: 11.2 Fe: 42.0 Mn: 11.0 SiO2: 1.89

ID: 1C1-011 Name: TEN THOUSAND ACRE POND State: ME Date: 19OCT84
Sample Type: REGULAR Latitude: 45-30'20"N Longitude: 69-57'30"W
Elevation: 404 Surface Temp: 9.8 Stratified: MIXED Site Depth: 2.1
Lake Area: 14 Watershed Area: 339 WA/LA: 25.1 Hydro Type: DRAINAGE
Residence Time: 0.07 Secchi Depth: 2.1 Turbidity: 0.8 Color: 40
Closed pH: 6.72 Equil. pH: 7.08 ANC: 90.3 DOC: 5.69
Closed DIC: 1.14 Equil. DIC: 0.94 Meas. Cond: 24.6 Cal. Cond: 24.3
Ca: 124.3 Mg: 45.2 Na: 48.2 K: 6.3 NH4: 1.1
SO4: 91.7 HCO3: 71.7 Cl: 11.7 NO3: 0.0 F: 1.5
Sum Cations: 225.1 Sum Anions: 176.6 Cations/Anions: 1.27 Tot. P: 9.4
Tot. Al: 121.2 Ext. Al: 5.4 Fe: 17.0 Mn: 4.0 SiO2: 3.11

ID: 1C1-012 Name: WILSON HILL POND State: ME Date: 19OCT84
Sample Type: REGULAR Latitude: 45-25'58"N Longitude: 69-58'12"W
Elevation: 344 Surface Temp: 10.0 Stratified: MIXED Site Depth: 0.9
Lake Area: 7 Watershed Area: 101 WA/LA: 13.6 Hydro Type: DRAINAGE
Residence Time: 0.05 Secchi Depth: 0.9 Turbidity: 1.0 Color: 25
Closed pH: 7.46 Equil. pH: 7.75 ANC: 307.0 DOC: 8.72
Closed DIC: 3.24 Equil. DIC: 3.33 Meas. Cond: 42.8 Cal. Cond: 44.9
Ca: 276.5 Mg: 101.7 Na: 54.0 K: 6.7 NH4: 1.9
SO4: 81.4 HCO3: 274.9 Cl: 11.4 NO3: 0.0 F: 1.8
Sum Cations: 440.8 Sum Anions: 370.1 Cations/Anions: 1.19 Tot. P: 10.0
Tot. Al: 59.3 Ext. Al: 4.9 Fe: 16.0 Mn: 2.0 SiO2: 3.03

ID: 1C1-013 Name: SPECTACLE POND State: ME Date: 18OCT84
Sample Type: REGULAR Latitude: 45-20'00"N Longitude: 70-27'30"W
Elevation: 460 Surface Temp: 9.8 Stratified: MIXED Site Depth: 10.4
Lake Area: 18 Watershed Area: 131 WA/LA: 7.3 Hydro Type: DRAINAGE
Residence Time: 1.14 Secchi Depth: 2.7 Turbidity: 0.5 Color: 35
Closed pH: 6.68 Equil. pH: 7.20 ANC: 94.8 DOC: 5.92
Closed DIC: 1.34 Equil. DIC: 0.98 Meas. Cond: 21.9 Cal. Cond: 22.5
Ca: 124.0 Mg: 41.8 Na: 39.5 K: 5.1 NH4: 1.3
SO4: 82.4 HCO3: 68.9 Cl: 7.7 NO3: 1.1 F: 1.3
Sum Cations: 211.9 Sum Anions: 161.4 Cations/Anions: 1.31 Tot. P: 5.8
Tot. Al: 76.3 Ext. Al: 18.3 Fe: 94.0 Mn: 38.0 SiO2: 2.63

ID: 1C1-015 Name: LITTLE JIM POND State: ME Date: 18OCT84
Sample Type: REGULAR Latitude: 45-17'00"N Longitude: 70-27'30"W
Elevation: 527 Surface Temp: 10.4 Stratified: MIXED Site Depth: 11.9
Lake Area: 33 Watershed Area: 114 WA/LA: 3.4 Hydro Type: DRAINAGE
Residence Time: 2.46 Secchi Depth: 3.4 Turbidity: 0.5 Color: 20
Closed pH: 7.27 Equil. pH: 7.39 ANC: 143.5 DOC: 4.59
Closed DIC: 1.72 Equil. DIC: 1.58 Meas. Cond: 25.8 Cal. Cond: 27.0
Ca: 122.5 Mg: 86.1 Na: 36.2 K: 6.2 NH4: 0.7
SO4: 80.2 HCO3: 126.0 Cl: 8.7 NO3: 0.2 F: 1.2
Sum Cations: 251.8 Sum Anions: 216.5 Cations/Anions: 1.16 Tot. P: 44.8
Tot. Al: 24.7 Ext. Al: 8.1 Fe: 33.0 Mn: 15.0 SiO2: 0.15

(continued)

TABLE 3-1 (continued)

ID: 1C1-016 Name: GRASS POND State: ME Date: 19OCT84
Sample Type: REGULAR Latitude: 45-18'30"N Longitude: 70-05'30"W
Elevation: 352 Surface Temp: 10.5 Stratified: MIXED Site Depth: 9.1
Lake Area: 30 Watershed Area: 925 WA/LA: 31.4 Hydro Type: DRAINAGE
Residence Time: 0.21 Secchi Depth: 3.4 Turbidity: 0.7 Color: 30
Closed pH: 6.93 Equil. pH: 7.43 ANC: 146.3 DOC: 6.22
Closed DIC: 1.65 Equil. DIC: 1.47 Meas. Cond: 26.1 Cal. Cond: 27.4
Ca: 160.3 Mg: 54.5 Na: 40.9 K: 8.0 NH4: 1.6
SO4: 78.8 HCO3: 113.1 Cl: 9.7 NO3: 0.2 F: 1.5
Sum Cations: 265.4 Sum Anions: 203.4 Cations/Anions: 1.31 Tot. P: 6.0
Tot. Al: 283.3 Ext. Al: 3.0 Fe: 56.0 Mn: 20.0 SiO2: 3.62

ID: 1C1-017 Name: WELHERN POND State: ME Date: 18OCT84
Sample Type: REGULAR Latitude: 45-12'45"N Longitude: 70-29'40"W
Elevation: 363 Surface Temp: 9.2 Stratified: MIXED Site Depth: 4.3
Lake Area: 5 Watershed Area: 236 WA/LA: 51.3 Hydro Type: DRAINAGE
Residence Time: 0.08 Secchi Depth: 2.7 Turbidity: 1.3 Color: 35
Closed pH: 7.06 Equil. pH: 7.75 ANC: 332.3 DOC: 5.08
Closed DIC: 4.45 Equil. DIC: 3.56 Meas. Cond: 44.5 Cal. Cond: 46.4
Ca: 218.1 Mg: 157.1 Na: 61.2 K: 10.7 NH4: 2.4
SO4: 81.7 HCO3: 306.8 Cl: 9.7 NO3: 0.5 F: 1.8
Sum Cations: 449.5 Sum Anions: 401.2 Cations/Anions: 1.12 Tot. P: 14.4
Tot. Al: 33.8 Ext. Al: 9.4 Fe: 128.0 Mn: 40.0 SiO2: 4.85

ID: 1C1-018 Name: DECKER PONDS (EASTERN) State: ME Date: 19OCT84
Sample Type: REGULAR Latitude: 45-11'45"N Longitude: 69-56'15"W
Elevation: 381 Surface Temp: 10.0 Stratified: MIXED Site Depth: 6.7
Lake Area: 6 Watershed Area: 117 WA/LA: 20.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.5 Turbidity: 0.6 Color: 35
Closed pH: 7.14 Equil. pH: 7.41 ANC: 182.3 DOC: 6.96
Closed DIC: 2.02 Equil. DIC: 2.00 Meas. Cond: 28.6 Cal. Cond: 30.0
Ca: 201.1 Mg: 52.2 Na: 34.5 K: 8.9 NH4: 1.2
SO4: 61.5 HCO3: 158.9 Cl: 8.7 NO3: 0.1 F: 1.0
Sum Cations: 297.9 Sum Anions: 230.5 Cations/Anions: 1.29 Tot. P: 5.8
Tot. Al: 297.3 Ext. Al: 6.0 Fe: 26.0 Mn: 6.0 SiO2: 1.90

ID: 1C1-019 Name: LITTLE DIMMICK POND State: ME Date: 19OCT84
Sample Type: REGULAR Latitude: 45-13'45"N Longitude: 69-52'30"W
Elevation: 425 Surface Temp: 9.7 Stratified: MIXED Site Depth: 3.9
Lake Area: 17 Watershed Area: 1124 WA/LA: 67.3 Hydro Type: DRAINAGE
Residence Time: 0.04 Secchi Depth: 3.1 Turbidity: 0.5 Color: 30
Closed pH: 7.30 Equil. pH: 7.66 ANC: 319.5 DOC: 5.83
Closed DIC: 3.56 Equil. DIC: 3.45 Meas. Cond: 44.1 Cal. Cond: 45.9
Ca: 139.7 Mg: 273.9 Na: 29.1 K: 5.4 NH4: 1.3
SO4: 90.5 HCO3: 280.2 Cl: 14.3 NO3: 3.6 F: 0.4
Sum Cations: 449.5 Sum Anions: 389.7 Cations/Anions: 1.15 Tot. P: 4.0
Tot. Al: 231.0 Ext. Al: 1.3 Fe: 99.0 Mn: 13.0 SiO2: 4.97

ID: 1C1-021 Name: CLEAR POND State: ME Date: 19OCT84
Sample Type: REGULAR Latitude: 45-06'30"N Longitude: 69-59'15"W
Elevation: 364 Surface Temp: 9.6 Stratified: MIXED Site Depth: 7.3
Lake Area: 10 Watershed Area: 404 WA/LA: 42.5 Hydro Type: DRAINAGE
Residence Time: 0.12 Secchi Depth: 3.1 Turbidity: 0.8 Color: 30
Closed pH: 6.94 Equil. pH: 7.23 ANC: 131.5 DOC: 5.31
Closed DIC: 1.60 Equil. DIC: 1.44 Meas. Cond: 24.5 Cal. Cond: 25.2
Ca: 125.0 Mg: 59.2 Na: 49.0 K: 8.4 NH4: 1.8
SO4: 68.5 HCO3: 112.2 Cl: 10.7 NO3: 0.5 F: 1.6
Sum Cations: 243.6 Sum Anions: 193.7 Cations/Anions: 1.26 Tot. P: 4.0
Tot. Al: 116.3 Ext. Al: 0.0 Fe: 72.0 Mn: 8.0 SiO2: 3.69

(continued)

TABLE 3-1 (continued)

ID: 1C1-022 Name: SAFFORD POND State: ME Date: 18OCT84
Sample Type: REGULAR Latitude: 45-00'00"N Longitude: 70-06'30"W
Elevation: 251 Surface Temp: 12.2 Stratified: MIXED Site Depth: 1.2
Lake Area: 17 Watershed Area: 171 WA/LA: 10.0 Hydro Type: DRAINAGE
Residence Time: 0.08 Secchi Depth: 1.2 Turbidity: 0.5 Color: 25
Closed pH: 6.64 Equil. pH: 7.18 ANC: 91.9 DOC: 5.23
Closed DIC: 1.22 Equil. DIC: 1.00 Meas. Cond: 21.7 Cal. Cond: 21.7
Ca: 99.8 Mg: 39.9 Na: 47.7 K: 9.4 NH4: 1.7
SO4: 71.7 HCO3: 77.7 Cl: 13.9 NO3: 1.1 F: 1.8
Sum Cations: 198.6 Sum Anions: 166.2 Cations/Anions: 1.20 Tot. P: 18.1
Tot. Al: 111.7 Ext. Al: 17.5 Fe: 13.0 Mn: 0.0 SiO2: 0.36

ID: 1C1-023 Name: CRANBERRY POND State: ME Date: 18OCT84
Sample Type: REGULAR Latitude: 44-51'30"N Longitude: 70-56'55"W
Elevation: 429 Surface Temp: 10.8 Stratified: MIXED Site Depth: 0.9
Lake Area: 39 Watershed Area: 591 WA/LA: 15.1 Hydro Type: DRAINAGE
Residence Time: 0.04 Secchi Depth: 0.9 Turbidity: 0.9 Color: 45
Closed pH: 6.65 Equil. pH: 7.07 ANC: 90.7 DOC: 9.57
Closed DIC: 1.04 Equil. DIC: 0.84 Meas. Cond: 24.6 Cal. Cond: 23.0
Ca: 102.8 Mg: 48.9 Na: 66.3 K: 9.3 NH4: 2.1
SO4: 77.9 HCO3: 63.4 Cl: 9.8 NO3: 0.2 F: 3.8
Sum Cations: 229.7 Sum Anions: 155.2 Cations/Anions: 1.48 Tot. P: 14.2
Tot. Al: 115.2 Ext. Al: 17.4 Fe: 41.0 Mn: 8.0 SiO2: 2.67

ID: 1C1-024 Name: ROUND POND State: NH Date: 18OCT84
Sample Type: REGULAR Latitude: 44-48'15"N Longitude: 71-07'15"W
Elevation: 424 Surface Temp: 11.3 Stratified: MIXED Site Depth: 1.2
Lake Area: 18 Watershed Area: 197 WA/LA: 11.3 Hydro Type: DRAINAGE
Residence Time: 0.07 Secchi Depth: 1.2 Turbidity: 0.3 Color: 30
Closed pH: 6.38 Equil. pH: 6.83 ANC: 58.0 DOC: 6.92
Closed DIC: 0.71 Equil. DIC: 0.56 Meas. Cond: 23.0 Cal. Cond: 23.9
Ca: 94.4 Mg: 52.9 Na: 52.5 K: 12.1 NH4: 1.6
SO4: 116.8 HCO3: 34.9 Cl: 8.1 NO3: 0.2 F: 2.7
Sum Cations: 213.9 Sum Anions: 162.8 Cations/Anions: 1.31 Tot. P: 1.4
Tot. Al: 142.4 Ext. Al: 25.5 Fe: 11.0 Mn: 5.0 SiO2: 1.71

ID: 1C1-025 Name: BRAGG POND State: NH Date: 18OCT84
Sample Type: REGULAR Latitude: 44-46'00"N Longitude: 71-15'00"W
Elevation: 521 Surface Temp: 9.9 Stratified: MIXED Site Depth: 0.9
Lake Area: 6 Watershed Area: 2789 WA/LA: 480.9 Hydro Type: DRAINAGE
Residence Time: 0.00 Secchi Depth: 0.9 Turbidity: 1.7 Color: 25
Closed pH: 6.90 Equil. pH: 7.42 ANC: 162.9 DOC: 4.22
Closed DIC: 2.10 Equil. DIC: 1.83 Meas. Cond: 28.3 Cal. Cond: 31.5
Ca: 160.6 Mg: 55.5 Na: 58.2 K: 9.1 NH4: 1.4
SO4: 86.7 HCO3: 156.2 Cl: 10.7 NO3: 0.4 F: 9.1
Sum Cations: 285.0 Sum Anions: 263.2 Cations/Anions: 1.08 Tot. P: 13.9
Tot. Al: 103.4 Ext. Al: 10.4 Fe: 18.0 Mn: 18.0 SiO2: 0.83

ID: 1C1-027 Name: PIKE POND State: NH Date: 18OCT84
Sample Type: REGULAR Latitude: 44-37'50"N Longitude: 71-21'10"W
Elevation: 357 Surface Temp: 11.1 Stratified: MIXED Site Depth: 7.3
Lake Area: 6 Watershed Area: 135 WA/LA: 24.5 Hydro Type: DRAINAGE
Residence Time: 0.21 Secchi Depth: 7.3 Turbidity: 0.3 Color: 15
Closed pH: 6.25 Equil. pH: 6.72 ANC: 37.7 DOC: 4.29
Closed DIC: 0.72 Equil. DIC: 0.48 Meas. Cond: 23.7 Cal. Cond: 22.6
Ca: 101.9 Mg: 30.0 Na: 52.9 K: 11.1 NH4: 1.2
SO4: 116.8 HCO3: 22.7 Cl: 9.2 NO3: 0.4 F: 2.7
Sum Cations: 197.4 Sum Anions: 151.8 Cations/Anions: 1.30 Tot. P: 5.7
Tot. Al: 92.9 Ext. Al: 15.7 Fe: 48.0 Mn: 9.0 SiO2: 1.71

(continued)

TABLE 3-1 (continued)

ID: 1C1-028 Name: HORSESHOE POND State: ME Date: 24OCT84
Sample Type: REGULAR Latitude: 44-35'27"N Longitude: 70-40'00"W
Elevation: 309 Surface Temp: 10.6 Stratified: MIXED Site Depth: 1.2
Lake Area: 6 Watershed Area: 60 WA/LA: 10.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.2 Turbidity: 0.7 Color: 70
Closed pH: 6.52 Equil. pH: 7.25 ANC: 135.2 DOC: 10.46
Closed DIC: 1.00 Equil. DIC: 1.09 Meas. Cond: 29.4 Cal. Cond: 29.8
Ca: 143.4 Mg: 58.2 Na: 71.6 K: 14.3 NH4: 1.7
SO4: 91.4 HCO3: 104.4 Cl: 16.8 NO3: 0.0 F: 2.6
Sum Cations: 289.4 Sum Anions: 215.3 Cations/Anions: 1.34 Tot. P: 9.0
Tot. Al: 92.4 Ext. Al: 17.5 Fe: 66.0 Mn: 7.0 SiO2: 2.25

ID: 1C1-029 Name: NORTH POND State: ME Date: 25OCT84
Sample Type: REGULAR Latitude: 44-24'15"N Longitude: 70-40'30"W
Elevation: 220 Surface Temp: 11.7 Stratified: MIXED Site Depth: 8.5
Lake Area: 125 Watershed Area: 1031 WA/LA: 8.3 Hydro Type: DRAINAGE
Residence Time: 0.71 Secchi Depth: 5.3 Turbidity: 0.5 Color: 15
Closed pH: 6.76 Equil. pH: 7.13 ANC: 105.1 DOC: 3.24
Closed DIC: 1.43 Equil. DIC: 1.21 Meas. Cond: 28.7 Cal. Cond: 29.7
Ca: 103.3 Mg: 40.6 Na: 99.4 K: 11.7 NH4: 1.1
SO4: 75.4 HCO3: 85.1 Cl: 71.8 NO3: 0.1 F: 1.9
Sum Cations: 256.2 Sum Anions: 234.3 Cations/Anions: 1.09 Tot. P: 6.0
Tot. Al: 37.1 Ext. Al: 5.9 Fe: 50.0 Mn: 7.0 SiO2: 1.34

ID: 1C1-030 Name: PEARL LAKE State: NH Date: 25OCT84
Sample Type: REGULAR Latitude: 44-12'00"N Longitude: 71-52'00"W
Elevation: 311 Surface Temp: 11.3 Stratified: MIXED Site Depth: 6.4
Lake Area: 25 Watershed Area: 1463 WA/LA: 59.2 Hydro Type: DRAINAGE
Residence Time: 0.10 Secchi Depth: 3.6 Turbidity: 0.7 Color: 20
Closed pH: 7.24 Equil. pH: 7.68 ANC: 292.3 DOC: 4.32
Closed DIC: 3.59 Equil. DIC: 3.34 Meas. Cond: 50.5 Cal. Cond: 54.1
Ca: 295.1 Mg: 72.6 Na: 66.5 K: 29.1 NH4: 1.1
SO4: 140.7 HCO3: 278.5 Cl: 44.0 NO3: 0.1 F: 2.2
Sum Cations: 464.4 Sum Anions: 466.3 Cations/Anions: 1.00 Tot. P: 8.0
Tot. Al: 51.6 Ext. Al: 6.8 Fe: 131.0 Mn: 37.0 SiO2: 4.89

ID: 1C1-031 Name: HUNT POND State: ME Date: 25OCT84
Sample Type: REGULAR Latitude: 44-05'00"N Longitude: 71-00'00"W
Elevation: 149 Surface Temp: 12.3 Stratified: MIXED Site Depth: 3.0
Lake Area: 7 Watershed Area: 62 WA/LA: 8.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.0 Turbidity: 0.4 Color: 20
Closed pH: 6.47 Equil. pH: 7.09 ANC: 73.5 DOC: 3.40
Closed DIC: 1.39 Equil. DIC: 0.95 Meas. Cond: 19.4 Cal. Cond: 19.0
Ca: 72.2 Mg: 24.2 Na: 64.5 K: 8.0 NH4: 0.9
SO4: 52.6 HCO3: 70.6 Cl: 18.9 NO3: 0.0 F: 11.7
Sum Cations: 170.0 Sum Anions: 153.8 Cations/Anions: 1.10 Tot. P: 5.1
Tot. Al: 37.4 Ext. Al: 8.0 Fe: 74.0 Mn: 17.0 SiO2: 3.18

ID: 1C1-032 Name: PEQUAWKET POND State: NH Date: 25OCT84
Sample Type: REGULAR Latitude: 43-58'15"N Longitude: 71-08'15"W
Elevation: 140 Surface Temp: 11.7 Stratified: WEAK Site Depth: 12.5
Lake Area: 24 Watershed Area: 5514 WA/LA: 232.7 Hydro Type: DRAINAGE
Residence Time: 0.04 Secchi Depth: 4.2 Turbidity: 0.4 Color: 15
Closed pH: 7.07 Equil. pH: 7.76 ANC: 175.4 DOC: 2.16
Closed DIC: 2.13 Equil. DIC: 1.99 Meas. Cond: 52.8 Cal. Cond: 57.4
Ca: 194.5 Mg: 42.5 Na: 228.8 K: 17.6 NH4: 0.8
SO4: 53.9 HCO3: 154.5 Cl: 233.1 NO3: 0.1 F: 30.9
Sum Cations: 484.4 Sum Anions: 472.6 Cations/Anions: 1.02 Tot. P: 4.5
Tot. Al: 40.5 Ext. Al: 9.3 Fe: 59.5 Mn: 4.0 SiO2: 6.69

(continued)

TABLE 3-1 (continued)

ID: 1C1-037 Name: COOKS POND State: NH Date: 25OCT84
Sample Type: REGULAR Latitude: 43-51'30"N Longitude: 71-09'00"W
Elevation: 146 Surface Temp: 11.3 Stratified: MIXED Site Depth: 6.7
Lake Area: 11 Watershed Area: 487 WA/LA: 43.5 Hydro Type: DRAINAGE
Residence Time: 0.11 Secchi Depth: 4.4 Turbidity: 0.4 Color: 10
Closed pH: 6.89 Equil. pH: 7.35 ANC: 145.6 DOC: 1.68
Closed DIC: 1.85 Equil. DIC: 1.65 Meas. Cond: 26.7 Cal. Cond: 27.2
Ca: 115.1 Mg: 30.8 Na: 79.5 K: 11.2 NH4: 0.9
SO4: 67.6 HCO3: 135.7 Cl: 22.7 NO3: 0.0 F: 11.1
Sum Cations: 237.6 Sum Anions: 237.2 Cations/Anions: 1.00 Tot. P: 3.9
Tot. Al: 23.1 Ext. Al: 6.8 Fe: 13.0 Mn: 0.0 SiO2: 5.33

ID: 1C1-038 Name: RESERVOIR POND State: NH Date: 24OCT84
Sample Type: REGULAR Latitude: 43-47'15"N Longitude: 72-02'30"W
Elevation: 410 Surface Temp: 12.1 Stratified: MIXED Site Depth: 12.2
Lake Area: 64 Watershed Area: 1145 WA/LA: 17.9 Hydro Type: RESERVOIR
Residence Time: 0.58 Secchi Depth: 6.4 Turbidity: 0.3 Color: 20
Closed pH: 6.28 Equil. pH: 6.60 ANC: 36.7 DOC: 3.74
Closed DIC: 0.59 Equil. DIC: 0.38 Meas. Cond: 20.4 Cal. Cond: 20.5
Ca: 98.8 Mg: 27.5 Na: 32.5 K: 6.7 NH4: 1.2
SO4: 106.3 HCO3: 26.6 Cl: 13.4 NO3: 0.5 F: 1.9
Sum Cations: 167.1 Sum Anions: 148.7 Cations/Anions: 1.12 Tot. P: 4.9
Tot. Al: 51.8 Ext. Al: 11.5 Fe: 32.0 Mn: 13.5 SiO2: 2.31

ID: 1C1-039 Name: OSSIPEE LAKE State: NH Date: 29OCT84
Sample Type: REGULAR Latitude: 43-47'30"N Longitude: 71-08'00"W
Elevation: 124 Surface Temp: 12.4 Stratified: MIXED Site Depth: 14.0
Lake Area: 1296 Watershed Area: 81424 WA/LA: 62.8 Hydro Type: DRAINAGE
Residence Time: 0.16 Secchi Depth: 5.8 Turbidity: 0.2 Color: 15
Closed pH: 6.62 Equil. pH: 7.05 ANC: 96.0 DOC: 2.51
Closed DIC: 1.50 Equil. DIC: 1.12 Meas. Cond: 29.9 Cal. Cond: 32.2
Ca: 94.5 Mg: 28.4 Na: 124.0 K: 11.2 NH4: 1.1
SO4: 71.4 HCO3: 90.2 Cl: 94.8 NO3: 2.5 F: 13.2
Sum Cations: 259.3 Sum Anions: 272.3 Cations/Anions: 0.95 Tot. P: 0.0
Tot. Al: 49.5 Ext. Al: 9.9 Fe: 20.0 Mn: 4.0 SiO2: 6.49

ID: 1C1-040 Name: MUDGETTS POND State: NH Date: 24OCT84
Sample Type: REGULAR Latitude: 43-46'10"N Longitude: 71-59'40"W
Elevation: 521 Surface Temp: 10.6 Stratified: MIXED Site Depth: 3.6
Lake Area: 4 Watershed Area: 137 WA/LA: 34.3 Hydro Type: DRAINAGE
Residence Time: 0.09 Secchi Depth: 1.7 Turbidity: 0.7 Color: 40
Closed pH: 6.69 Equil. pH: 7.25 ANC: 133.0 DOC: 6.24
Closed DIC: 1.90 Equil. DIC: 1.40 Meas. Cond: 30.2 Cal. Cond: 30.7
Ca: 172.8 Mg: 43.9 Na: 53.4 K: 7.8 NH4: 2.8
SO4: 106.6 HCO3: 104.3 Cl: 14.2 NO3: 1.0 F: 3.6
Sum Cations: 280.9 Sum Anions: 229.8 Cations/Anions: 1.22 Tot. P: 9.1
Tot. Al: 114.5 Ext. Al: 22.4 Fe: 38.0 Mn: 5.0 SiO2: 4.95

ID: 1C1-041 Name: ENFIELD RESERVOIR State: NH Date: 23OCT84
Sample Type: REGULAR Latitude: 43-39'50"N Longitude: 72-09'00"W
Elevation: 289 Surface Temp: 12.5 Stratified: MIXED Site Depth: 3.9
Lake Area: 7 Watershed Area: 396 WA/LA: 53.5 Hydro Type: RESERVOIR
Residence Time: 0.07 Secchi Depth: 1.9 Turbidity: 2.6 Color: 25
Closed pH: 6.73 Equil. pH: 7.29 ANC: 145.2 DOC: 4.83
Closed DIC: 2.11 Equil. DIC: 1.54 Meas. Cond: 32.3 Cal. Cond: 35.6
Ca: 193.3 Mg: 48.6 Na: 48.2 K: 13.3 NH4: 1.0
SO4: 132.2 HCO3: 139.8 Cl: 13.5 NO3: 1.2 F: 1.4
Sum Cations: 304.5 Sum Anions: 288.1 Cations/Anions: 1.06 Tot. P: 13.5
Tot. Al: 111.8 Ext. Al: 12.6 Fe: 20.0 Mn: 6.0 SiO2: 0.32

(continued)

TABLE 3-1 (continued)

ID: 1C1-042 Name: DUNCAN LAKE State: NH Date: 29OCT84
Sample Type: REGULAR Latitude: 43-42'15"N Longitude: 71-06'30"W
Elevation: 175 Surface Temp: 12.8 Stratified: MIXED Site Depth: 6.1
Lake Area: 34 Watershed Area: 132 WA/LA: 3.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.4 Turbidity: 0.6 Color: 30
Closed pH: 6.56 Equil. pH: 7.09 ANC: 99.6 DOC: 4.43
Closed DIC: 1.59 Equil. DIC: 1.07 Meas. Cond: 75.8 Cal. Cond: 81.1
Ca: 126.0 Mg: 32.1 Na: 478.9 K: 16.5 NH4: 1.1
SO4: 52.9 HCO3: 80.9 Cl: 502.3 NO3: 0.3 F: 5.6
Sum Cations: 654.9 Sum Anions: 642.1 Cations/Anions: 1.02 Tot. P: 6.6
Tot. Al: 38.5 Ext. Al: 5.0 Fe: 291.0 Mn: 71.0 SiO2: 1.08

ID: 1C1-044 Name: SMITH POND State: NH Date: 23OCT84
Sample Type: REGULAR Latitude: 43-35'15"N Longitude: 72-08'00"W
Elevation: 503 Surface Temp: 12.3 Stratified: MIXED Site Depth: 9.1
Lake Area: 28 Watershed Area: 231 WA/LA: 8.3 Hydro Type: DRAINAGE
Residence Time: 0.88 Secchi Depth: 4.9 Turbidity: 0.3 Color: 10
Closed pH: 6.54 Equil. pH: 6.89 ANC: 51.4 DOC: 2.58
Closed DIC: 0.87 Equil. DIC: 0.58 Meas. Cond: 19.0 Cal. Cond: 20.3
Ca: 102.7 Mg: 26.9 Na: 23.2 K: 5.4 NH4: 1.1
SO4: 91.2 HCO3: 62.4 Cl: 11.7 NO3: 0.8 F: 1.6
Sum Cations: 159.4 Sum Anions: 167.8 Cations/Anions: 0.95 Tot. P: 4.5
Tot. Al: 28.7 Ext. Al: 10.5 Fe: 18.0 Mn: 9.0 SiO2: 1.57

ID: 1C1-045 Name: COOKS POND State: NH Date: 29OCT84
Sample Type: REGULAR Latitude: 43-33'45"N Longitude: 71-05'15"W
Elevation: 199 Surface Temp: 13.6 Stratified: MIXED Site Depth: 10.0
Lake Area: 96 Watershed Area: 497 WA/LA: 5.2 Hydro Type: DRAINAGE
Residence Time: 1.50 Secchi Depth: 7.4 Turbidity: 0.2 Color: 5
Closed pH: 6.98 Equil. pH: 7.26 ANC: 128.4 DOC: 2.33
Closed DIC: 1.57 Equil. DIC: 1.51 Meas. Cond: 31.5 Cal. Cond: 32.6
Ca: 155.2 Mg: 38.3 Na: 77.0 K: 9.2 NH4: 0.9
SO4: 86.3 HCO3: 106.7 Cl: 63.4 NO3: 0.3 F: 4.0
Sum Cations: 280.7 Sum Anions: 260.9 Cations/Anions: 1.08 Tot. P: 3.6
Tot. Al: 10.2 Ext. Al: 2.1 Fe: 0.0 Mn: 1.0 SiO2: 1.14

ID: 1C1-046 Name: SHAWS POND State: NH Date: 29OCT84
Sample Type: REGULAR Latitude: 43-32'00"N Longitude: 71-08'30"W
Elevation: 236 Surface Temp: 12.3 Stratified: MIXED Site Depth: 4.6
Lake Area: 24 Watershed Area: 461 WA/LA: 19.1 Hydro Type: DRAINAGE
Residence Time: 0.21 Secchi Depth: 4.0 Turbidity: 0.4 Color: 20
Closed pH: 6.99 Equil. pH: 7.35 ANC: 170.1 DOC: 3.47
Closed DIC: 2.14 Equil. DIC: 1.92 Meas. Cond: 37.7 Cal. Cond: 39.5
Ca: 162.8 Mg: 32.2 Na: 139.2 K: 8.2 NH4: 1.0
SO4: 61.2 HCO3: 150.5 Cl: 109.6 NO3: 0.3 F: 8.6
Sum Cations: 343.4 Sum Anions: 330.3 Cations/Anions: 1.04 Tot. P: 5.5
Tot. Al: 36.6 Ext. Al: 3.0 Fe: 24.5 Mn: 3.5 SiO2: 4.12

ID: 1C1-047 Name: OTTER POND State: NH Date: 24OCT84
Sample Type: REGULAR Latitude: 43-26'00"N Longitude: 72-03'30"W
Elevation: 343 Surface Temp: 12.7 Stratified: MIXED Site Depth: 7.3
Lake Area: 71 Watershed Area: 4082 WA/LA: 57.2 Hydro Type: DRAINAGE
Residence Time: 0.11 Secchi Depth: 4.3 Turbidity: 0.4 Color: 15
Closed pH: 6.80 Equil. pH: 7.08 ANC: 103.7 DOC: 3.56
Closed DIC: 1.34 Equil. DIC: 1.12 Meas. Cond: 71.4 Cal. Cond: 60.4
Ca: 172.2 Mg: 48.5 Na: 370.2 K: 15.5 NH4: 0.8
SO4: 120.4 HCO3: 90.3 Cl: 183.4 NO3: 0.2 F: 2.9
Sum Cations: 607.4 Sum Anions: 397.3 Cations/Anions: 1.53 Tot. P: 4.2
Tot. Al: 17.8 Ext. Al: 3.8 Fe: 16.0 Mn: 2.0 SiO2: 1.82

(continued)

TABLE 3-1 (continued)

ID: 1C1-049 Name: DODGE POND State: NH Date: 24OCT84
Sample Type: REGULAR Latitude: 43-13'20"N Longitude: 72-10'40"W
Elevation: 369 Surface Temp: 12.3 Stratified: MIXED Site Depth: 4.3
Lake Area: 8 Watershed Area: 300 WA/LA: 39.0 Hydro Type: DRAINAGE
Residence Time: 0.10 Secchi Depth: 0.8 Turbidity: 1.3 Color: 125
Closed pH: 6.13 Equil. pH: 7.14 ANC: 107.1 DOC: 0.14
Closed DIC: 2.73 Equil. DIC: 0.97 Meas. Cond: 90.9 Cal. Cond: 96.4
Ca: 194.5 Mg: 61.2 Na: 490.7 K: 24.8 NH4: 4.5
SO4: 81.5 HCO3: 74.1 Cl: 585.7 NO3: 0.6 F: 3.4
Sum Cations: 776.0 Sum Anions: 745.4 Cations/Anions: 1.04 Tot. P: 3.9
Tot. Al: 80.0 Ext. Al: 9.5 Fe: 964.0 Mn: 36.0 SiO2: 4.53

ID: 1C1-050 Name: BILLINGS POND State: NH Date: 24OCT84
Sample Type: REGULAR Latitude: 43-17'00"N Longitude: 71-56'30"W
Elevation: 252 Surface Temp: 13.2 Stratified: MIXED Site Depth: 4.6
Lake Area: 10 Watershed Area: 57 WA/LA: 5.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.8 Turbidity: 0.6 Color: 25
Closed pH: 6.58 Equil. pH: 6.94 ANC: 77.8 DOC: 2.05
Closed DIC: 1.07 Equil. DIC: 0.75 Meas. Cond: 36.4 Cal. Cond: 37.6
Ca: 107.1 Mg: 32.0 Na: 158.3 K: 10.7 NH4: 0.7
SO4: 89.7 HCO3: 63.1 Cl: 138.2 NO3: 0.0 F: 2.3
Sum Cations: 308.9 Sum Anions: 293.4 Cations/Anions: 1.05 Tot. P: 9.5
Tot. Al: 21.6 Ext. Al: 6.0 Fe: 10.0 Mn: 2.0 SiO2: 0.48

ID: 1C1-052 Name: CALDWELL POND State: NH Date: 24OCT84
Sample Type: REGULAR Latitude: 43-04'36"N Longitude: 72-18'20"W
Elevation: 388 Surface Temp: 13.4 Stratified: MIXED Site Depth: 7.3
Lake Area: 12 Watershed Area: 67 WA/LA: 5.8 Hydro Type: DRAINAGE
Residence Time: 0.98 Secchi Depth: 7.3 Turbidity: 0.1 Color: 5
Closed pH: 5.25 Equil. pH: 5.34 ANC: 2.7 DOC: 1.16
Closed DIC: 0.43 Equil. DIC: 0.13 Meas. Cond: 20.4 Cal. Cond: 20.5
Ca: 61.7 Mg: 20.6 Na: 38.2 K: 6.1 NH4: 1.8
SO4: 123.2 HCO3: 2.3 Cl: 17.3 NO3: 0.7 F: 2.5
Sum Cations: 133.4 Sum Anions: 146.1 Cations/Anions: 0.91 Tot. P: 3.7
Tot. Al: 52.5 Ext. Al: 41.1 Fe: 5.0 Mn: 70.0 SiO2: 1.03

ID: 1C1-056 Name: LITTLE ELMORE POND State: VT Date: 29OCT84
Sample Type: REGULAR Latitude: 44-29'45"N Longitude: 72-31'50"W
Elevation: 375 Surface Temp: 10.7 Stratified: MIXED Site Depth: 3.7
Lake Area: 9 Watershed Area: 129 WA/LA: 13.9 Hydro Type: DRAINAGE
Residence Time: 0.21 Secchi Depth: 1.2 Turbidity: 1.2 Color: 35
Closed pH: 7.02 Equil. pH: 7.32 ANC: 166.1 DOC: 7.59
Closed DIC: 1.90 Equil. DIC: 1.67 Meas. Cond: 32.2 Cal. Cond: 33.2
Ca: 180.8 Mg: 88.2 Na: 27.6 K: 8.2 NH4: 1.1
SO4: 104.8 HCO3: 134.0 Cl: 15.7 NO3: 0.1 F: 1.8
Sum Cations: 306.0 Sum Anions: 256.4 Cations/Anions: 1.19 Tot. P: 15.3
Tot. Al: 45.6 Ext. Al: 3.5 Fe: 23.0 Mn: 27.0 SiO2: 0.12

ID: 1C1-059 Name: FERN LAKE State: VT Date: 03NOV84
Sample Type: REGULAR Latitude: 43-52'00"N Longitude: 73-04'15"W
Elevation: 174 Surface Temp: 11.2 Stratified: MIXED Site Depth: 7.0
Lake Area: 26 Watershed Area: 181 WA/LA: 6.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 5.3 Turbidity: 0.4 Color: 13
Closed pH: 7.78 Equil. pH: 8.22 ANC: 1075.6 DOC: 3.40
Closed DIC: 11.86 Equil. DIC: 11.29 Meas. Cond: 143.8 Cal. Cond: 144.5
Ca: 640.0 Mg: 528.5 Na: 237.7 K: 14.7 NH4: 2.4
SO4: 91.7 HCO3: 966.3 Cl: 189.3 NO3: 0.1 F: 1.2
Sum Cations: 1423.4 Sum Anions: 1253.8 Cations/Anions: 1.14 Tot. P: 9.9
Tot. Al: 33.5 Ext. Al: 2.4 Fe: 5.5 Mn: 0.0 SiO2: 0.33

(continued)

TABLE 3-1 (continued)

ID: 1C1-060 Name: GREAT AVERILL POND State: VT Date: 18OCT84
Sample Type: REGULAR Latitude: 44-59'00"N Longitude: 71-42'00"W
Elevation: 513 Surface Temp: 10.6 Stratified: MIXED Site Depth: 14.0
Lake Area: 340 Watershed Area: 3046 WA/LA: 9.0 Hydro Type: DRAINAGE
Residence Time: 1.00 Secchi Depth: 3.4 Turbidity: 0.3 Color: 15
Closed pH: 7.06 Equil. pH: 7.33 ANC: 135.5 DOC: 3.28
Closed DIC: 1.75 Equil. DIC: 1.55 Meas. Cond: 30.8 Cal. Cond: 32.6
Ca: 181.5 Mg: 43.3 Na: 50.7 K: 8.7 NH4: 0.9
SO4: 103.6 HCO3: 119.8 Cl: 29.0 NO3: 1.0 F: 5.4
Sum Cations: 285.1 Sum Anions: 259.0 Cations/Anions: 1.10 Tot. P: 7.1
Tot. Al: 20.4 Ext. Al: 8.1 Fe: 26.0 Mn: 20.5 SiO2: 1.68

ID: 1C1-061 Name: ECHO POND State: VT Date: 29OCT84
Sample Type: REGULAR Latitude: 44-51'40"N Longitude: 72-00'00"W
Elevation: 381 Surface Temp: 11.7 Stratified: STRONG Site Depth: 30.4
Lake Area: 204 Watershed Area: 6133 WA/LA: 30.0 Hydro Type: DRAINAGE
Residence Time: 0.71 Secchi Depth: 5.9 Turbidity: 0.3 Color: 20
Closed pH: 7.73 Equil. pH: 7.99 ANC: 606.0 DOC: 2.34
Closed DIC: 6.94 Equil. DIC: 6.87 Meas. Cond: 84.9 Cal. Cond: 90.8
Ca: 601.3 Mg: 97.1 Na: 91.2 K: 23.2 NH4: 1.0
SO4: 136.5 HCO3: 541.8 Cl: 106.3 NO3: 0.0 F: 3.2
Sum Cations: 813.9 Sum Anions: 791.2 Cations/Anions: 1.03 Tot. P: 5.0
Tot. Al: 174.2 Ext. Al: 5.3 Fe: 3.0 Mn: 1.0 SiO2: 1.57

ID: 1C1-062 Name: DANIELS POND State: VT Date: 29OCT84
Sample Type: REGULAR Latitude: 44-40'30"N Longitude: 72-15'40"W
Elevation: 497 Surface Temp: 11.1 Stratified: MIXED Site Depth: 1.8
Lake Area: 26 Watershed Area: 363 WA/LA: 13.9 Hydro Type: DRAINAGE
Residence Time: 0.10 Secchi Depth: 2.3 Turbidity: 0.5 Color: 25
Closed pH: 7.83 Equil. pH: 8.00 ANC: 682.6 DOC: 5.48
Closed DIC: 7.12 Equil. DIC: 7.52 Meas. Cond: 78.2 Cal. Cond: 82.1
Ca: 633.2 Mg: 106.4 Na: 41.6 K: 8.5 NH4: 1.4
SO4: 94.9 HCO3: 583.6 Cl: 25.8 NO3: 0.5 F: 4.5
Sum Cations: 791.1 Sum Anions: 711.5 Cations/Anions: 1.11 Tot. P: 9.1
Tot. Al: 57.3 Ext. Al: 4.6 Fe: 24.0 Mn: 0.0 SiO2: 0.77

ID: 1C1-063 Name: CLARK POND State: VT Date: 29OCT84
Sample Type: REGULAR Latitude: 44-38'40"N Longitude: 72-12'15"W
Elevation: 376 Surface Temp: 11.2 Stratified: MIXED Site Depth: 6.7
Lake Area: 11 Watershed Area: 422 WA/LA: 38.4 Hydro Type: DRAINAGE
Residence Time: 0.15 Secchi Depth: 1.3 Turbidity: 0.7 Color: 20
Closed pH: 7.92 Equil. pH: 8.44 ANC: 1994.9 DOC: 3.23
Closed DIC: 22.34 Equil. DIC: 23.20 Meas. Cond: 258.8 Cal. Cond: 270.4
Ca: 1814.9 Mg: 276.4 Na: 360.2 K: 40.1 NH4: 2.5
SO4: 293.4 HCO3: 1966.7 Cl: 177.0 NO3: 0.8 F: 2.1
Sum Cations: 2494.0 Sum Anions: 2468.5 Cations/Anions: 1.01 Tot. P: 16.6
Tot. Al: 35.2 Ext. Al: 2.3 Fe: 24.0 Mn: 48.0 SiO2: 7.44

ID: 1C1-064 Name: LOWELL LAKE State: VT Date: 23OCT84
Sample Type: REGULAR Latitude: 43-13'30"N Longitude: 72-45'45"W
Elevation: 405 Surface Temp: 13.4 Stratified: MIXED Site Depth: 6.1
Lake Area: 39 Watershed Area: 546 WA/LA: 14.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.1 Turbidity: 0.4 Color: 15
Closed pH: 6.36 Equil. pH: 6.66 ANC: 42.7 DOC: 3.93
Closed DIC: 0.78 Equil. DIC: 0.46 Meas. Cond: 18.0 Cal. Cond: 19.8
Ca: 69.8 Mg: 42.4 Na: 37.3 K: 12.8 NH4: 0.2
SO4: 96.4 HCO3: 36.2 Cl: 12.2 NO3: 0.0 F: 2.1
Sum Cations: 162.9 Sum Anions: 147.0 Cations/Anions: 1.11 Tot. P: 6.5
Tot. Al: 36.9 Ext. Al: 9.8 Fe: 42.0 Mn: 4.0 SiO2: 0.31

(continued)

TABLE 3-1 (continued)

ID: 1C1-065 Name: FERRIN POND State: NH Date: 01NOV84
Sample Type: REGULAR Latitude: 43-02'30"N Longitude: 71-46'30"W
Elevation: 296 Surface Temp: 11.4 Stratified: MIXED Site Depth: 3.0
Lake Area: 5 Watershed Area: 44 WA/LA: 9.0 Hydro Type: DRAINAGE
Residence Time: 0.27 Secchi Depth: 3.0 Turbidity: 0.7 Color: 15
Closed pH: 5.98 Equil. pH: 6.42 ANC: 27.1 DOC: 3.63
Closed DIC: 0.70 Equil. DIC: 0.31 Meas. Cond: 19.9 Cal. Cond: 20.1
Ca: 56.8 Mg: 32.0 Na: 56.9 K: 9.6 NH4: 1.7
SO4: 101.2 HCO3: 19.1 Cl: 24.9 NO3: 0.3 F: 1.4
Sum Cations: 158.0 Sum Anions: 146.9 Cations/Anions: 1.08 Tot. P: 6.3
Tot. Al: 43.3 Ext. Al: 7.6 Fe: 25.0 Mn: 21.0 SiO2: 0.21

ID: 1C1-066 Name: HAUNTED LAKE State: NH Date: 01NOV84
Sample Type: REGULAR Latitude: 42-59'00"N Longitude: 71-46'00"W
Elevation: 194 Surface Temp: 12.0 Stratified: MIXED Site Depth: 3.6
Lake Area: 55 Watershed Area: 1528 WA/LA: 27.9 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 2.9 Turbidity: 1.0 Color: 65
Closed pH: 6.46 Equil. pH: 7.08 ANC: 84.0 DOC: 6.33
Closed DIC: 1.29 Equil. DIC: 0.80 Meas. Cond: 42.6 Cal. Cond: 42.5
Ca: 114.1 Mg: 48.1 Na: 180.1 K: 12.9 NH4: 1.2
SO4: 113.2 HCO3: 65.6 Cl: 142.4 NO3: 0.1 F: 2.5
Sum Cations: 356.7 Sum Anions: 323.8 Cations/Anions: 1.10 Tot. P: 11.0
Tot. Al: 113.9 Ext. Al: 7.6 Fe: 353.0 Mn: 14.0 SiO2: 3.58

ID: 1C1-067 Name: STUMP POND State: NH Date: 03NOV84
Sample Type: REGULAR Latitude: 42-44'45"N Longitude: 71-56'15"W
Elevation: 381 Surface Temp: 7.0 Stratified: MIXED Site Depth: 0.6
Lake Area: 7 Watershed Area: 106 WA/LA: 14.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.6 Turbidity: 0.9 Color: 100
Closed pH: 4.81 Equil. pH: 4.87 ANC: -4.0 DOC: 9.05
Closed DIC: 0.68 Equil. DIC: 0.15 Meas. Cond: 28.3 Cal. Cond: 26.3
Ca: 41.7 Mg: 20.5 Na: 65.7 K: 10.2 NH4: 25.3
SO4: 96.8 HCO3: 1.6 Cl: 49.8 NO3: 3.3 F: 2.3
Sum Cations: 177.1 Sum Anions: 153.8 Cations/Anions: 1.15 Tot. P: 12.9
Tot. Al: 211.4 Ext. Al: 29.4 Fe: 175.0 Mn: 46.0 SiO2: 0.97

ID: 1C1-068 Name: LINCOLN POND State: MA Date: 03NOV84
Sample Type: REGULAR Latitude: 42-40'10"N Longitude: 71-54'45"W
Elevation: 351 Surface Temp: 9.7 Stratified: MIXED Site Depth: 2.4
Lake Area: 12 Watershed Area: 73 WA/LA: 6.3 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 0.7 Turbidity: 1.5 Color: 125
Closed pH: 4.54 Equil. pH: 4.53 ANC: -21.5 DOC: 12.42
Closed DIC: 0.70 Equil. DIC: 0.17 Meas. Cond: 22.8 Cal. Cond: 21.0
Ca: 22.3 Mg: 12.8 Na: 44.2 K: 4.3 NH4: 3.5
SO4: 45.2 HCO3: 0.8 Cl: 20.0 NO3: 1.2 F: 2.2
Sum Cations: 117.9 Sum Anions: 69.3 Cations/Anions: 1.70 Tot. P: 24.6
Tot. Al: 125.7 Ext. Al: 13.1 Fe: 171.0 Mn: 25.0 SiO2: 3.96

ID: 1C1-069 Name: HIDDEN LAKE State: VT Date: 06NOV84
Sample Type: REGULAR Latitude: 42-52'50"N Longitude: 72-43'10"W
Elevation: 451 Surface Temp: 7.3 Stratified: MIXED Site Depth: 1.2
Lake Area: 6 Watershed Area: 285 WA/LA: 50.0 Hydro Type: DRAINAGE
Residence Time: 0.02 Secchi Depth: 1.4 Turbidity: 0.8 Color: 40
Closed pH: 6.39 Equil. pH: 7.03 ANC: 78.6 DOC: 4.38
Closed DIC: 1.49 Equil. DIC: 0.84 Meas. Cond: 77.9 Cal. Cond: 73.2
Ca: 107.7 Mg: 64.3 Na: 420.2 K: 17.3 NH4: 11.9
SO4: 50.2 HCO3: 77.5 Cl: 425.3 NO3: 2.0 F: 1.6
Sum Cations: 621.6 Sum Anions: 556.5 Cations/Anions: 1.12 Tot. P: 6.7
Tot. Al: 122.9 Ext. Al: 7.7 Fe: 245.0 Mn: 39.0 SiO2: 1.92

(continued)

TABLE 3-1 (continued)

ID: 1C1-070 Name: PACKARD POND State: MA Date: 03NOV84
Sample Type: REGULAR Latitude: 42-38'00"N Longitude: 72-14'00"W
Elevation: 180 Surface Temp: 11.7 Stratified: WEAK Site Depth: 10.6
Lake Area: 17 Watershed Area: 13709 WA/LA: 792.4 Hydro Type: DRAINAGE
Residence Time: 0.01 Secchi Depth: 2.3 Turbidity: 0.7 Color: 55
Closed pH: 5.97 Equil. pH: 6.57 ANC: 37.0 DOC: 5.98
Closed DIC: 1.08 Equil. DIC: 0.40 Meas. Cond: 35.6 Cal. Cond: 36.1
Ca: 86.2 Mg: 37.9 Na: 154.4 K: 14.0 NH4: 2.1
SO4: 100.2 HCO3: 25.3 Cl: 135.9 NO3: 0.2 F: 3.6
Sum Cations: 295.6 Sum Anions: 265.2 Cations/Anions: 1.11 Tot. P: 9.7
Tot. Al: 104.4 Ext. Al: 15.0 Fe: 152.0 Mn: 16.0 SiO2: 0.79

ID: 1C1-074 Name: BEAVER POND State: ME Date: 18OCT84
Sample Type: REGULAR Latitude: 44-48'44"N Longitude: 70-41'14"W
Elevation: 602 Surface Temp: 11.1 Stratified: MIXED Site Depth: 5.2
Lake Area: 7 Watershed Area: 80 WA/LA: 10.8 Hydro Type: DRAINAGE
Residence Time: 0.33 Secchi Depth: 4.9 Turbidity: 0.8 Color: 25
Closed pH: 6.76 Equil. pH: 7.02 ANC: 69.7 DOC: 5.17
Closed DIC: 0.79 Equil. DIC: 0.78 Meas. Cond: 23.0 Cal. Cond: 23.9
Ca: 89.8 Mg: 33.2 Na: 77.9 K: 8.4 NH4: 1.8
SO4: 73.1 HCO3: 60.6 Cl: 44.8 NO3: 0.0 F: 2.5
Sum Cations: 211.3 Sum Anions: 181.1 Cations/Anions: 1.17 Tot. P: 7.3
Tot. Al: 111.5 Ext. Al: 14.6 Fe: 77.0 Mn: 3.0 SiO2: 1.13

ID: 1C1-075 Name: UPPER PIERCE POND State: ME Date: 19OCT84
Sample Type: REGULAR Latitude: 45-18'05"N Longitude: 70-06'09"W
Elevation: 351 Surface Temp: 10.7 Stratified: MIXED Site Depth: 20.4
Lake Area: 127 Watershed Area: 2134 WA/LA: 16.8 Hydro Type: DRAINAGE
Residence Time: 0.86 Secchi Depth: 4.4 Turbidity: 0.3 Color: 30
Closed pH: 7.21 Equil. pH: 7.38 ANC: 179.7 DOC: 5.64
Closed DIC: 1.88 Equil. DIC: 1.95 Meas. Cond: 32.2 Cal. Cond: 33.4
Ca: 210.0 Mg: 61.5 Na: 38.8 K: 8.8 NH4: 1.3
SO4: 91.7 HCO3: 146.6 Cl: 11.7 NO3: 1.0 F: 1.1
Sum Cations: 320.6 Sum Anions: 252.4 Cations/Anions: 1.27 Tot. P: 3.5
Tot. Al: 88.8 Ext. Al: 6.0 Fe: 9.0 Mn: 11.0 SiO2: 3.60

ID: 1C1-077 Name: TOBEY POND State: ME Date: 19OCT84
Sample Type: REGULAR Latitude: 45-26'42"N Longitude: 69-59'10"W
Elevation: 381 Surface Temp: 9.3 Stratified: MIXED Site Depth: 6.7
Lake Area: 5 Watershed Area: 44 WA/LA: 9.8 Hydro Type: DRAINAGE
Residence Time: 0.47 Secchi Depth: 4.0 Turbidity: 0.4 Color: 30
Closed pH: 6.91 Equil. pH: 7.30 ANC: 133.1 DOC: 6.07
Closed DIC: 1.65 Equil. DIC: 1.39 Meas. Cond: 28.8 Cal. Cond: 31.6
Ca: 168.5 Mg: 66.9 Na: 44.1 K: 8.7 NH4: 1.3
SO4: 96.6 HCO3: 116.3 Cl: 26.5 NO3: 0.0 F: 1.5
Sum Cations: 289.7 Sum Anions: 241.0 Cations/Anions: 1.20 Tot. P: 4.9
Tot. Al: 94.7 Ext. Al: 2.2 Fe: 17.0 Mn: 7.0 SiO2: 2.77

ID: 1C1-078 Name: BEAN POND State: ME Date: 19OCT84
Sample Type: REGULAR Latitude: 45-07'38"N Longitude: 69-58'41"W
Elevation: 381 Surface Temp: 10.0 Stratified: MIXED Site Depth: 9.1
Lake Area: 12 Watershed Area: 153 WA/LA: 12.3 Hydro Type: DRAINAGE
Residence Time: 0.52 Secchi Depth: 4.0 Turbidity: 0.9 Color: 40
Closed pH: 6.51 Equil. pH: 6.85 ANC: 70.0 DOC: 8.16
Closed DIC: 0.83 Equil. DIC: 0.69 Meas. Cond: 20.8 Cal. Cond: 19.5
Ca: 97.1 Mg: 44.2 Na: 39.4 K: 8.6 NH4: 1.5
SO4: 66.6 HCO3: 46.3 Cl: 11.3 NO3: 3.2 F: 1.6
Sum Cations: 191.0 Sum Anions: 129.0 Cations/Anions: 1.48 Tot. P: 4.7
Tot. Al: 261.2 Ext. Al: 22.2 Fe: 21.0 Mn: 5.0 SiO2: 2.11

(continued)

TABLE 3-1 (continued)

ID: 1C1-079 Name: BROAD BAY State: NH Date: 29OCT84
Sample Type: REGULAR Latitude: 43-48'23"N Longitude: 71-06'04"W
Elevation: 124 Surface Temp: 12.8 Stratified: MIXED Site Depth: 19.8
Lake Area: 162 Watershed Area: 87770 WA/LA: 540.5 Hydro Type: DRAINAGE
Residence Time: 0.03 Secchi Depth: 5.2 Turbidity: 0.3 Color: 20
Closed pH: 6.71 Equil. pH: 7.15 ANC: 105.0 DOC: 2.53
Closed DIC: 1.43 Equil. DIC: 1.19 Meas. Cond: 30.5 Cal. Cond: 32.3
Ca: 102.0 Mg: 29.8 Na: 121.1 K: 11.3 NH4: 1.0
SO4: 69.1 HCO3: 92.6 Cl: 93.3 NO3: 1.6 F: 13.2
Sum Cations: 265.3 Sum Anions: 269.9 Cations/Anions: 0.98 Tot. P: 0.0
Tot. Al: 67.1 Ext. Al: 10.2 Fe: 8.0 Mn: 3.0 SiO2: 6.41

ID: 1C1-081 Name: BEAN POND State: VT Date: 29OCT84
Sample Type: REGULAR Latitude: 44-41'50"N Longitude: 72-05'15"W
Elevation: 358 Surface Temp: 11.9 Stratified: MIXED Site Depth: 0.9
Lake Area: 13 Watershed Area: 453 WA/LA: 35.1 Hydro Type: DRAINAGE
Residence Time: 0.02 Secchi Depth: 1.0 Turbidity: 0.6 Color: 20
Closed pH: 8.23 Equil. pH: 8.36 ANC: 1477.7 DOC: 3.00
Closed DIC: 16.28 Equil. DIC: 16.54 Meas. Cond: 173.1 Cal. Cond: 183.3
Ca: 1445.1 Mg: 93.7 Na: 154.8 K: 27.2 NH4: 1.0
SO4: 157.0 HCO3: 1307.5 Cl: 137.2 NO3: 1.2 F: 2.8
Sum Cations: 1721.8 Sum Anions: 1622.2 Cations/Anions: 1.06 Tot. P: 7.3
Tot. Al: 34.3 Ext. Al: 3.9 Fe: 5.0 Mn: 4.0 SiO2: 3.79

ID: 1C1-082 Name: ROCKY POND State: NH Date: 25OCT84
Sample Type: REGULAR Latitude: 43-50'40"N Longitude: 71-59'33"W
Elevation: 613 Surface Temp: 9.8 Stratified: MIXED Site Depth: 2.5
Lake Area: 8 Watershed Area: 148 WA/LA: 18.5 Hydro Type: DRAINAGE
Residence Time: 0.12 Secchi Depth: 2.4 Turbidity: 0.7 Color: 30
Closed pH: 5.24 Equil. pH: 5.33 ANC: 10.2 DOC: 4.84
Closed DIC: 0.41 Equil. DIC: 0.19 Meas. Cond: 15.3 Cal. Cond: 14.8
Ca: 46.2 Mg: 16.5 Na: 24.0 K: 5.9 NH4: 1.5
SO4: 83.8 HCO3: 3.2 Cl: 9.3 NO3: 0.5 F: 2.0
Sum Cations: 99.0 Sum Anions: 98.8 Cations/Anions: 1.00 Tot. P: 4.8
Tot. Al: 354.4 Ext. Al: 99.2 Fe: 55.0 Mn: 38.0 SiO2: 1.49

ID: 1C1-084 Name: UPPER BEECH POND State: NH Date: 29OCT84
Sample Type: REGULAR Latitude: 43-38'54"N Longitude: 71-12'15"W
Elevation: 300 Surface Temp: 12.4 Stratified: MIXED Site Depth: 4.8
Lake Area: 51 Watershed Area: 212 WA/LA: 4.2 Hydro Type: DRAINAGE
Residence Time: 0.73 Secchi Depth: 4.8 Turbidity: 0.6 Color: 10
Closed pH: 6.58 Equil. pH: 6.81 ANC: 50.7 DOC: 2.42
Closed DIC: 0.84 Equil. DIC: 0.61 Meas. Cond: 20.3 Cal. Cond: 20.0
Ca: 66.9 Mg: 25.6 Na: 60.4 K: 6.9 NH4: 0.8
SO4: 79.4 HCO3: 40.6 Cl: 34.7 NO3: 0.2 F: 2.2
Sum Cations: 161.0 Sum Anions: 157.1 Cations/Anions: 1.02 Tot. P: 2.1
Tot. Al: 29.1 Ext. Al: 2.7 Fe: 0.0 Mn: 5.0 SiO2: 1.80

ID: 1C1-086 Name: STAR LAKE State: NH Date: 24OCT84
Sample Type: REGULAR Latitude: 43-27'43"N Longitude: 72-03'20"W
Elevation: 392 Surface Temp: 12.2 Stratified: WEAK Site Depth: 13.4
Lake Area: 26 Watershed Area: 417 WA/LA: 16.2 Hydro Type: DRAINAGE
Residence Time: 0.70 Secchi Depth: 3.7 Turbidity: 0.5 Color: 20
Closed pH: 6.36 Equil. pH: 6.62 ANC: 35.6 DOC: 3.79
Closed DIC: 0.57 Equil. DIC: 0.37 Meas. Cond: 30.9 Cal. Cond: 32.2
Ca: 113.2 Mg: 33.4 Na: 96.0 K: 10.3 NH4: 1.1
SO4: 134.5 HCO3: 25.1 Cl: 76.3 NO3: 0.2 F: 3.0
Sum Cations: 254.6 Sum Anions: 239.1 Cations/Anions: 1.06 Tot. P: 12.1
Tot. Al: 52.9 Ext. Al: 13.0 Fe: 25.0 Mn: 30.0 SiO2: 3.75

(continued)

TABLE 3-1 (continued)

ID: 1C1-087 Name: NAY POND State: NH Date: 18OCT84
Sample Type: REGULAR Latitude: 44-34'15"N Longitude: 71-17'03"W
Elevation: 322 Surface Temp: 11.4 Stratified: MIXED Site Depth: 1.8
Lake Area: 21 Watershed Area: 171 WA/LA: 8.2 Hydro Type: DRAINAGE
Residence Time: 0.14 Secchi Depth: 1.8 Turbidity: 0.3 Color: 15
Closed pH: 6.77 Equil. pH: 7.23 ANC: 105.1 DOC: 4.63
Closed DIC: 0.56 Equil. DIC: 1.21 Meas. Cond: 142.0 Cal. Cond: 149.3
Ca: 231.8 Mg: 97.1 Na: 823.0 K: 29.0 NH4: 4.5
SO4: 123.8 HCO3: 96.2 Cl: 946.5 NO3: 0.4 F: 3.3
Sum Cations: 1185.5 Sum Anions: 1170.2 Cations/Anions: 1.01 Tot. P: 6.9
Tot. Al: 55.2 Ext. Al: 9.3 Fe: 11.0 Mn: 7.0 SiO2: 0.74

ID: 1C1-088 Name: LUFKIN POND State: ME Date: 18OCT84
Sample Type: REGULAR Latitude: 44-50'25"N Longitude: 70-27'46"W
Elevation: 282 Surface Temp: 11.7 Stratified: MIXED Site Depth: 7.4
Lake Area: 17 Watershed Area: 347 WA/LA: 20.5 Hydro Type: DRAINAGE
Residence Time: 0.26 Secchi Depth: 5.8 Turbidity: 0.5 Color: 15
Closed pH: 7.10 Equil. pH: 7.42 ANC: 146.2 DOC: 2.69
Closed DIC: 1.80 Equil. DIC: 1.76 Meas. Cond: 26.3 Cal. Cond: 26.2
Ca: 157.7 Mg: 33.2 Na: 35.2 K: 12.0 NH4: 0.6
SO4: 69.4 HCO3: 135.3 Cl: 9.5 NO3: 0.0 F: 1.2
Sum Cations: 238.8 Sum Anions: 215.7 Cations/Anions: 1.11 Tot. P: 10.0
Tot. Al: 13.9 Ext. Al: 7.6 Fe: 16.0 Mn: 15.0 SiO2: 1.18

ID: 1C2-002 Name: IRON POND State: ME Date: 19OCT84
Sample Type: REGULAR Latitude: 45-27'30"N Longitude: 70-22'30"W
Elevation: 510 Surface Temp: 9.2 Stratified: MIXED Site Depth: 2.1
Lake Area: 10 Watershed Area: 174 WA/LA: 16.7 Hydro Type: DRAINAGE
Residence Time: 0.11 Secchi Depth: 0.9 Turbidity: 1.8 Color: 55
Closed pH: 6.87 Equil. pH: 7.00 ANC: 83.2 DOC: 10.47
Closed DIC: 0.74 Equil. DIC: 0.73 Meas. Cond: 27.1 Cal. Cond: 27.2
Ca: 137.0 Mg: 58.1 Na: 63.4 K: 7.6 NH4: 1.4
SO4: 107.9 HCO3: 45.6 Cl: 11.5 NO3: 3.7 F: 3.3
Sum Cations: 267.8 Sum Anions: 172.1 Cations/Anions: 1.56 Tot. P: 4.2
Tot. Al: 221.5 Ext. Al: 21.9 Fe: 15.0 Mn: 0.0 SiO2: 3.51

ID: 1C2-005 Name: RICHARDSON POND State: ME Date: 18OCT84
Sample Type: REGULAR Latitude: 44-55'30"N Longitude: 70-55'00"W
Elevation: 459 Surface Temp: 10.9 Stratified: MIXED Site Depth: 10.9
Lake Area: 181 Watershed Area: 3569 WA/LA: 19.8 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 3.3 Turbidity: 0.6 Color: 30
Closed pH: 6.99 Equil. pH: 7.06 ANC: 86.4 DOC: 6.38
Closed DIC: 0.96 Equil. DIC: 0.89 Meas. Cond: 25.7 Cal. Cond: 26.1
Ca: 131.8 Mg: 48.0 Na: 47.8 K: 9.8 NH4: 1.2
SO4: 103.7 HCO3: 62.0 Cl: 16.7 NO3: 0.2 F: 2.1
Sum Cations: 238.8 Sum Anions: 184.8 Cations/Anions: 1.29 Tot. P: 8.3
Tot. Al: 65.2 Ext. Al: 11.8 Fe: 36.0 Mn: 7.0 SiO2: 3.50

ID: 1C2-006 Name: UNKNOWN POND State: VT Date: 25OCT84
Sample Type: REGULAR Latitude: 44-39'55"N Longitude: 71-43'22"W
Elevation: 508 Surface Temp: 9.9 Stratified: MIXED Site Depth: 3.4
Lake Area: 5 Watershed Area: 73 WA/LA: 16.2 Hydro Type: DRAINAGE
Residence Time: 0.17 Secchi Depth: 2.0 Turbidity: 0.4 Color: 65
Closed pH: 6.30 Equil. pH: 6.90 ANC: 74.7 DOC: 8.99
Closed DIC: 1.08 Equil. DIC: 0.58 Meas. Cond: 22.3 Cal. Cond: 27.0
Ca: 169.0 Mg: 49.5 Na: 53.5 K: 15.8 NH4: 2.4
SO4: 91.6 HCO3: 51.2 Cl: 4.9 NO3: 0.4 F: 4.0
Sum Cations: 290.6 Sum Anions: 152.1 Cations/Anions: 1.91 Tot. P: 5.3
Tot. Al: 271.5 Ext. Al: 38.6 Fe: 115.0 Mn: 19.0 SiO2: 6.20

(continued)

TABLE 3-1 (continued)

ID: 1C2-007 Name: BEAL POND State: ME Date: 18OCT84
Sample Type: REGULAR Latitude: 44-54'14"N Longitude: 70-24'30"W
Elevation: 401 Surface Temp: 11.1 Stratified: MIXED Site Depth: 4.3
Lake Area: 11 Watershed Area: 111 WA/LA: 10.0 Hydro Type: DRAINAGE
Residence Time: 0.30 Secchi Depth: 3.9 Turbidity: 0.5 Color: 18
Closed pH: 6.53 Equil. pH: 6.90 ANC: 54.0 DOC: 4.92
Closed DIC: 0.77 Equil. DIC: 0.68 Meas. Cond: 16.8 Cal. Cond: 17.5
Ca: 73.3 Mg: 39.0 Na: 36.8 K: 5.5 NH4: 0.8
SO4: 74.3 HCO3: 40.6 Cl: 10.3 NO3: 0.2 F: 1.0
Sum Cations: 155.7 Sum Anions: 126.4 Cations/Anions: 1.23 Tot. P: 8.2
Tot. Al: 45.3 Ext. Al: 12.2 Fe: 7.5 Mn: 4.0 SiO2: 0.10

ID: 1C2-009 Name: JESSIE POND State: ME Date: 24OCT84
Sample Type: REGULAR Latitude: 44-44'52"N Longitude: 70-15'04"W
Elevation: 354 Surface Temp: 11.2 Stratified: MIXED Site Depth: 7.3
Lake Area: 4 Watershed Area: 28 WA/LA: 6.5 Hydro Type: DRAINAGE
Residence Time: 0.76 Secchi Depth: 3.6 Turbidity: 0.6 Color: 10
Closed pH: 7.36 Equil. pH: 7.80 ANC: 387.7 DOC: 3.43
Closed DIC: 4.26 Equil. DIC: 4.18 Meas. Cond: 47.0 Cal. Cond: 48.8
Ca: 370.3 Mg: 34.9 Na: 37.3 K: 11.1 NH4: 0.7
SO4: 73.1 HCO3: 339.0 Cl: 14.4 NO3: 0.2 F: 1.0
Sum Cations: 454.2 Sum Anions: 428.8 Cations/Anions: 1.06 Tot. P: 5.6
Tot. Al: 22.9 Ext. Al: 6.5 Fe: 49.0 Mn: 8.0 SiO2: 3.79

ID: 1C2-010 Name: ABBOTTS POND State: ME Date: 24OCT84
Sample Type: REGULAR Latitude: 44-25'45"N Longitude: 70-31'00"W
Elevation: 317 Surface Temp: 11.5 Stratified: WEAK Site Depth: 15.2
Lake Area: 10 Watershed Area: 93 WA/LA: 9.4 Hydro Type: DRAINAGE
Residence Time: 1.35 Secchi Depth: 7.6 Turbidity: 0.4 Color: 5
Closed pH: 6.32 Equil. pH: 6.56 ANC: 33.0 DOC: 2.07
Closed DIC: 0.38 Equil. DIC: 0.28 Meas. Cond: 16.3 Cal. Cond: 17.2
Ca: 65.9 Mg: 23.0 Na: 36.8 K: 5.6 NH4: 0.4
SO4: 86.9 HCO3: 24.6 Cl: 18.6 NO3: 0.3 F: 1.8
Sum Cations: 132.2 Sum Anions: 132.1 Cations/Anions: 1.00 Tot. P: 5.6
Tot. Al: 74.6 Ext. Al: 6.5 Fe: 67.0 Mn: 19.0 SiO2: 0.87

ID: 1C2-011 Name: MUD POND State: ME Date: 25OCT84
Sample Type: REGULAR Latitude: 44-17'30"N Longitude: 70-39'00"W
Elevation: 209 Surface Temp: 9.7 Stratified: MIXED Site Depth: 0.9
Lake Area: 22 Watershed Area: 171 WA/LA: 7.9 Hydro Type: DRAINAGE
Residence Time: 0.09 Secchi Depth: 0.9 Turbidity: 0.5 Color: 15
Closed pH: 6.67 Equil. pH: 8.13 ANC: 735.8 DOC: 4.52
Closed DIC: 7.94 Equil. DIC: 8.45 Meas. Cond: 87.5 Cal. Cond: 90.5
Ca: 698.1 Mg: 52.1 Na: 95.4 K: 10.9 NH4: 1.6
SO4: 96.1 HCO3: 622.1 Cl: 61.9 NO3: 0.0 F: 3.1
Sum Cations: 858.0 Sum Anions: 786.8 Cations/Anions: 1.09 Tot. P: 5.2
Tot. Al: 28.8 Ext. Al: 10.6 Fe: 29.0 Mn: 0.0 SiO2: 2.49

ID: 1C2-012 Name: BLACK POND State: ME Date: 25OCT84
Sample Type: REGULAR Latitude: 44-08'45"N Longitude: 70-48'00"W
Elevation: 152 Surface Temp: 11.1 Stratified: MIXED Site Depth: 4.2
Lake Area: 7 Watershed Area: 477 WA/LA: 73.4 Hydro Type: DRAINAGE
Residence Time: 0.05 Secchi Depth: 2.0 Turbidity: 1.0 Color: 40
Closed pH: 6.31 Equil. pH: 7.02 ANC: 86.6 DOC: 8.38
Closed DIC: 1.56 Equil. DIC: 0.77 Meas. Cond: 19.0 Cal. Cond: 19.6
Ca: 102.9 Mg: 30.3 Na: 59.6 K: 3.5 NH4: 1.1
SO4: 50.4 HCO3: 56.7 Cl: 23.1 NO3: 0.0 F: 2.5
Sum Cations: 197.7 Sum Anions: 132.7 Cations/Anions: 1.49 Tot. P: 10.8
Tot. Al: 80.2 Ext. Al: 18.2 Fe: 57.0 Mn: 9.0 SiO2: 0.87

(continued)

TABLE 3-1 (continued)

ID: 1C2-016 Name: TRAFTON POND State: ME Date: 25OCT84
Sample Type: REGULAR Latitude: 43-50'45"N Longitude: 70-53'30"W
Elevation: 117 Surface Temp: 12.5 Stratified: WEAK Site Depth: 11.9
Lake Area: 20 Watershed Area: 899 WA/LA: 45.4 Hydro Type: DRAINAGE
Residence Time: 0.19 Secchi Depth: 6.2 Turbidity: 0.3 Color: 20
Closed pH: 6.89 Equil. pH: 7.33 ANC: 135.1 DOC: 2.75
Closed DIC: 1.70 Equil. DIC: 1.53 Meas. Cond: 30.9 Cal. Cond: 32.8
Ca: 138.4 Mg: 40.9 Na: 87.2 K: 13.8 NH4: 1.1
SO4: 89.5 HCO3: 121.0 Cl: 53.4 NO3: 0.2 F: 4.0
Sum Cations: 281.4 Sum Anions: 268.4 Cations/Anions: 1.05 Tot. P: 6.8
Tot. Al: 23.1 Ext. Al: 8.0 Fe: 47.0 Mn: 16.0 SiO2: 2.01

ID: 1C2-018 Name: NORTHWEST POND State: ME Date: 29OCT84
Sample Type: REGULAR Latitude: 43-34'45"N Longitude: 70-47'45"W
Elevation: 130 Surface Temp: 12.0 Stratified: MIXED Site Depth: 4.0
Lake Area: 13 Watershed Area: 933 WA/LA: 72.9 Hydro Type: DRAINAGE
Residence Time: 0.05 Secchi Depth: 1.5 Turbidity: 0.7 Color: 45
Closed pH: 6.87 Equil. pH: 7.56 ANC: 269.7 DOC: 5.16
Closed DIC: 3.59 Equil. DIC: 2.98 Meas. Cond: 44.6 Cal. Cond: 44.0
Ca: 190.0 Mg: 80.9 Na: 94.4 K: 23.2 NH4: 2.1
SO4: 82.5 HCO3: 230.1 Cl: 59.9 NO3: 0.6 F: 5.2
Sum Cations: 390.8 Sum Anions: 378.6 Cations/Anions: 1.03 Tot. P: 10.7
Tot. Al: 89.9 Ext. Al: 9.9 Fe: 157.0 Mn: 23.0 SiO2: 9.85

ID: 1C2-019 Name: FOSTERS POND State: VT Date: 25OCT84
Sample Type: REGULAR Latitude: 44-19'45"N Longitude: 72-12'45"W
Elevation: 465 Surface Temp: 10.5 Stratified: MIXED Site Depth: 2.8
Lake Area: 23 Watershed Area: 251 WA/LA: 10.8 Hydro Type: DRAINAGE
Residence Time: 0.25 Secchi Depth: 0.9 Turbidity: 3.7 Color: 20
Closed pH: 8.00 Equil. pH: 8.21 ANC: 886.1 DOC: 8.62
Closed DIC: 10.16 Equil. DIC: 9.51 Meas. Cond: 100.3 Cal. Cond: 104.1
Ca: 806.9 Mg: 82.2 Na: 35.4 K: 7.6 NH4: 1.1
SO4: 135.8 HCO3: 830.1 Cl: 14.2 NO3: 0.0 F: 1.3
Sum Cations: 933.1 Sum Anions: 986.6 Cations/Anions: 0.95 Tot. P: 5.3
Tot. Al: 58.7 Ext. Al: 7.4 Fe: 26.0 Mn: 0.0 SiO2: 7.00

ID: 1C2-021 Name: THE POGUE State: VT Date: 23OCT84
Sample Type: REGULAR Latitude: 43-38'00"N Longitude: 72-32'35"W
Elevation: 384 Surface Temp: 13.1 Stratified: MIXED Site Depth: 1.8
Lake Area: 5 Watershed Area: 34 WA/LA: 6.8 Hydro Type: DRAINAGE
Residence Time: 0.21 Secchi Depth: 0.9 Turbidity: 0.9 Color: 25
Closed pH: 8.32 Equil. pH: 8.35 ANC: 1370.3 DOC: 4.98
Closed DIC: 15.49 Equil. DIC: 14.93 Meas. Cond: 148.5 Cal. Cond: 160.8
Ca: 1216.1 Mg: 260.8 Na: 34.0 K: 24.5 NH4: 0.8
SO4: 154.1 HCO3: 1273.6 Cl: 14.2 NO3: 0.0 F: 1.0
Sum Cations: 1536.2 Sum Anions: 1455.8 Cations/Anions: 1.06 Tot. P: 8.8
Tot. Al: 177.9 Ext. Al: 10.2 Fe: 31.0 Mn: 8.0 SiO2: 0.02

ID: 1C2-022 Name: (NO NAME) State: NH Date: 25OCT84
Sample Type: REGULAR Latitude: 43-52'50"N Longitude: 71-18'30"W
Elevation: 299 Surface Temp: 11.3 Stratified: MIXED Site Depth: 1.2
Lake Area: 8 Watershed Area: 83 WA/LA: 10.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.2 Turbidity: 1.0 Color: 45
Closed pH: 5.78 Equil. pH: 6.27 ANC: 32.6 DOC: 8.04
Closed DIC: 0.86 Equil. DIC: 0.37 Meas. Cond: 15.7 Cal. Cond: 15.7
Ca: 52.2 Mg: 19.2 Na: 58.3 K: 4.3 NH4: 1.6
SO4: 57.0 HCO3: 17.3 Cl: 23.1 NO3: 0.0 F: 10.6
Sum Cations: 137.1 Sum Anions: 107.9 Cations/Anions: 1.27 Tot. P: 8.3
Tot. Al: 104.4 Ext. Al: 27.1 Fe: 136.0 Mn: 21.0 SiO2: 1.82

(continued)

TABLE 3-1 (continued)

ID: 1C2-023 Name: SQUAM LAKE State: NH Date: 24OCT84
Sample Type: REGULAR Latitude: 43-46'00"N Longitude: 71-31'00"W
Elevation: 171 Surface Temp: 13.4 Stratified: WEAK Site Depth: 23.4
Lake Area: 2715 Watershed Area: 10984 WA/LA: 4.0 Hydro Type: DRAINAGE
Residence Time: 3.54 Secchi Depth: 7.4 Turbidity: 0.2 Color: 5
Closed pH: 6.85 Equil. pH: 7.13 ANC: 97.5 DOC: 2.15
Closed DIC: 1.26 Equil. DIC: 1.10 Meas. Cond: 35.8 Cal. Cond: 36.7
Ca: 127.8 Mg: 38.0 Na: 115.4 K: 12.6 NH4: 0.7
SO4: 104.7 HCO3: 84.0 Cl: 105.1 NO3: 0.7 F: 2.5
Sum Cations: 294.6 Sum Anions: 297.0 Cations/Anions: 0.99 Tot. P: 4.3
Tot. Al: 8.1 Ext. Al: 5.3 Fe: 6.0 Mn: 7.0 SiO2: 0.63

ID: 1C2-024 Name: LAKE WAUKEWAN State: NH Date: 24OCT84
Sample Type: REGULAR Latitude: 43-39'30"N Longitude: 71-31'30"W
Elevation: 164 Surface Temp: 13.5 Stratified: MIXED Site Depth: 8.8
Lake Area: 389 Watershed Area: 3318 WA/LA: 8.5 Hydro Type: DRAINAGE
Residence Time: 0.82 Secchi Depth: 6.7 Turbidity: 0.3 Color: 10
Closed pH: 6.90 Equil. pH: 7.24 ANC: 116.7 DOC: 4.37
Closed DIC: 1.52 Equil. DIC: 1.31 Meas. Cond: 55.5 Cal. Cond: 59.9
Ca: 168.0 Mg: 44.7 Na: 256.8 K: 16.3 NH4: 1.0
SO4: 101.6 HCO3: 107.8 Cl: 266.5 NO3: 0.0 F: 1.9
Sum Cations: 486.9 Sum Anions: 478.0 Cations/Anions: 1.02 Tot. P: 3.5
Tot. Al: 7.9 Ext. Al: 4.0 Fe: 0.0 Mn: 0.0 SiO2: 1.48

ID: 1C2-026 Name: WAUKEENA LAKE State: NH Date: 24OCT84
Sample Type: REGULAR Latitude: 43-31'00"N Longitude: 71-53'45"W
Elevation: 340 Surface Temp: 12.9 Stratified: MIXED Site Depth: 5.4
Lake Area: 25 Watershed Area: 114 WA/LA: 4.6 Hydro Type: DRAINAGE
Residence Time: 0.85 Secchi Depth: 3.8 Turbidity: 0.8 Color: 15
Closed pH: 7.37 Equil. pH: 6.71 ANC: 42.0 DOC: 3.15
Closed DIC: 0.65 Equil. DIC: 0.44 Meas. Cond: 22.0 Cal. Cond: 23.8
Ca: 92.5 Mg: 30.1 Na: 52.8 K: 8.1 NH4: 1.0
SO4: 111.7 HCO3: 36.4 Cl: 33.8 NO3: 0.1 F: 2.1
Sum Cations: 184.7 Sum Anions: 184.1 Cations/Anions: 1.00 Tot. P: 7.2
Tot. Al: 51.3 Ext. Al: 6.9 Fe: 15.0 Mn: 3.0 SiO2: 0.55

ID: 1C2-027 Name: ADDER POND State: NH Date: 24OCT84
Sample Type: REGULAR Latitude: 43-26'48"N Longitude: 71-48'33"W
Elevation: 195 Surface Temp: 13.0 Stratified: MIXED Site Depth: 4.8
Lake Area: 11 Watershed Area: 91 WA/LA: 8.5 Hydro Type: DRAINAGE
Residence Time: 0.45 Secchi Depth: 1.6 Turbidity: 0.7 Color: 45
Closed pH: 6.93 Equil. pH: 7.19 ANC: 109.6 DOC: 5.05
Closed DIC: 1.19 Equil. DIC: 1.09 Meas. Cond: 27.4 Cal. Cond: 29.2
Ca: 136.0 Mg: 44.4 Na: 55.5 K: 18.6 NH4: 3.6
SO4: 108.2 HCO3: 90.7 Cl: 19.9 NO3: 0.1 F: 1.5
Sum Cations: 258.4 Sum Anions: 220.5 Cations/Anions: 1.17 Tot. P: 5.3
Tot. Al: 40.5 Ext. Al: 8.7 Fe: 47.0 Mn: 9.0 SiO2: 3.59

ID: 1C2-028 Name: SUNSET LAKE State: NH Date: 30OCT84
Sample Type: REGULAR Latitude: 43-28'15"N Longitude: 71-18'00"W
Elevation: 246 Surface Temp: 12.0 Stratified: MIXED Site Depth: 11.0
Lake Area: 87 Watershed Area: 1417 WA/LA: 16.2 Hydro Type: DRAINAGE
Residence Time: 0.58 Secchi Depth: 6.3 Turbidity: 0.2 Color: 15
Closed pH: 6.50 Equil. pH: 6.87 ANC: 59.1 DOC: 2.59
Closed DIC: 0.95 Equil. DIC: 0.73 Meas. Cond: 20.0 Cal. Cond: 21.5
Ca: 91.3 Mg: 25.8 Na: 60.9 K: 6.7 NH4: 1.1
SO4: 81.1 HCO3: 44.0 Cl: 28.5 NO3: 0.2 F: 5.7
Sum Cations: 186.2 Sum Anions: 159.6 Cations/Anions: 1.17 Tot. P: 3.9
Tot. Al: 23.6 Ext. Al: 2.0 Fe: 71.0 Mn: 21.0 SiO2: 2.88

(continued)

TABLE 3-1 (continued)

ID: 1C2-029 Name: MEETINGHOUSE POND State: NH Date: 30OCT84
Sample Type: REGULAR Latitude: 43-24'45"N Longitude: 71-21-40"W
Elevation: 272 Surface Temp: 11.7 Stratified: MIXED Site Depth: 2.1
Lake Area: 8 Watershed Area: 85 WA/LA: 10.4 Hydro Type: DRAINAGE
Residence Time: 0.17 Secchi Depth: 2.1 Turbidity: 0.4 Color: 25
Closed pH: 6.51 Equil. pH: 7.05 ANC: 84.5 DOC: 4.03
Closed DIC: 1.40 Equil. DIC: 0.96 Meas. Cond: 26.4 Cal. Cond: 27.1
Ca: 93.8 Mg: 52.1 Na: 68.2 K: 11.4 NH4: 1.1
SO4: 79.8 HCO3: 68.9 Cl: 61.9 NO3: 0.2 F: 2.6
Sum Cations: 226.8 Sum Anions: 213.5 Cations/Anions: 1.06 Tot. P: 8.2
Tot. Al: 31.9 Ext. Al: 4.6 Fe: 29.0 Mn: 8.0 SiO2: 1.25

ID: 1C2-030 Name: CRANE NECK POND State: NH Date: 30OCT84
Sample Type: REGULAR Latitude: 43-20'20"N Longitude: 71-32'30"W
Elevation: 168 Surface Temp: 11.1 Stratified: MIXED Site Depth: 2.4
Lake Area: 5 Watershed Area: 332 WA/LA: 72.2 Hydro Type: DRAINAGE
Residence Time: 0.03 Secchi Depth: 1.6 Turbidity: 1.3 Color: 75
Closed pH: 6.22 Equil. pH: 7.09 ANC: 112.8 DOC: 9.52
Closed DIC: 2.36 Equil. DIC: 1.01 Meas. Cond: 61.5 Cal. Cond: 64.4
Ca: 126.5 Mg: 87.9 Na: 304.9 K: 24.4 NH4: 1.4
SO4: 130.0 HCO3: 78.0 Cl: 272.6 NO3: 0.3 F: 1.9
Sum Cations: 545.8 Sum Anions: 482.7 Cations/Anions: 1.13 Tot. P: 14.8
Tot. Al: 61.0 Ext. Al: 15.1 Fe: 101.0 Mn: 22.0 SiO2: 1.17

ID: 1C2-032 Name: CROOKED POND State: NH Date: 30OCT84
Sample Type: REGULAR Latitude: 43-17'40"N Longitude: 71-25'45"W
Elevation: 161 Surface Temp: 12.3 Stratified: MIXED Site Depth: 5.8
Lake Area: 12 Watershed Area: 83 WA/LA: 7.0 Hydro Type: DRAINAGE
Residence Time: 0.80 Secchi Depth: 5.3 Turbidity: 0.3 Color: 20
Closed pH: 6.22 Equil. pH: 6.94 ANC: 71.1 DOC: 4.13
Closed DIC: 1.68 Equil. DIC: 0.77 Meas. Cond: 21.7 Cal. Cond: 23.4
Ca: 63.7 Mg: 44.9 Na: 77.5 K: 7.9 NH4: 3.3
SO4: 78.2 HCO3: 62.2 Cl: 42.1 NO3: 0.4 F: 2.2
Sum Cations: 197.8 Sum Anions: 185.1 Cations/Anions: 1.07 Tot. P: 7.8
Tot. Al: 45.2 Ext. Al: 6.9 Fe: 80.0 Mn: 13.0 SiO2: 0.51

ID: 1C2-033 Name: LONG POND State: NH Date: 01NOV84
Sample Type: REGULAR Latitude: 43-12'14"N Longitude: 71-48'43"W
Elevation: 155 Surface Temp: 11.2 Stratified: MIXED Site Depth: 3.6
Lake Area: 34 Watershed Area: 1691 WA/LA: 49.7 Hydro Type: DRAINAGE
Residence Time: 0.06 Secchi Depth: 1.9 Turbidity: 0.6 Color: 70
Closed pH: 6.26 Equil. pH: 7.18 ANC: 110.2 DOC: 8.10
Closed DIC: 2.40 Equil. DIC: 1.01 Meas. Cond: 28.1 Cal. Cond: 28.2
Ca: 120.0 Mg: 40.9 Na: 85.6 K: 14.9 NH4: 1.8
SO4: 67.8 HCO3: 93.1 Cl: 46.8 NO3: 0.0 F: 2.3
Sum Cations: 263.6 Sum Anions: 210.0 Cations/Anions: 1.26 Tot. P: 9.4
Tot. Al: 80.6 Ext. Al: 25.6 Fe: 80.0 Mn: 10.0 SiO2: 3.29

ID: 1C2-034 Name: MARSH POND State: NH Date: 30OCT84
Sample Type: REGULAR Latitude: 43-14'40"N Longitude: 71-23'45"W
Elevation: 157 Surface Temp: 11.8 Stratified: MIXED Site Depth: 0.9
Lake Area: 8 Watershed Area: 189 WA/LA: 23.3 Hydro Type: DRAINAGE
Residence Time: 0.04 Secchi Depth: 0.9 Turbidity: 1.2 Color: 55
Closed pH: 6.24 Equil. pH: 6.71 ANC: 171.8 DOC: 9.32
Closed DIC: 4.21 Equil. DIC: 1.84 Meas. Cond: 83.7 Cal. Cond: 84.6
Ca: 130.2 Mg: 69.6 Na: 488.1 K: 24.8 NH4: 3.7
SO4: 88.2 HCO3: 139.6 Cl: 432.5 NO3: 0.5 F: 3.0
Sum Cations: 716.8 Sum Anions: 663.8 Cations/Anions: 1.08 Tot. P: 24.2
Tot. Al: 53.7 Ext. Al: 8.1 Fe: 174.0 Mn: 44.0 SiO2: 0.93

(continued)

TABLE 3-1 (continued)

ID: 1C2-035 Name: SMITH POND State: NH Date: 24OCT84
Sample Type: REGULAR Latitude: 43-09'15"N Longitude: 72-01'45"W
Elevation: 328 Surface Temp: 13.4 Stratified: MIXED Site Depth: 8.2
Lake Area: 11 Watershed Area: 215 WA/LA: 19.0 Hydro Type: DRAINAGE
Residence Time: 0.30 Secchi Depth: 3.3 Turbidity: 0.5 Color: 10
Closed pH: 6.77 Equil. pH: 6.95 ANC: 73.6 DOC: 2.38
Closed DIC: 1.08 Equil. DIC: 0.79 Meas. Cond: 25.4 Cal. Cond: 25.8
Ca: 110.3 Mg: 30.8 Na: 54.8 K: 10.2 NH4: 0.7
SO4: 118.3 HCO3: 67.1 Cl: 18.3 NO3: 0.1 F: 2.4
Sum Cations: 207.0 Sum Anions: 206.3 Cations/Anions: 1.00 Tot. P: 6.8
Tot. Al: 15.9 Ext. Al: 5.4 Fe: 19.0 Mn: 2.0 SiO2: 3.11

ID: 1C2-036 Name: KIMBALL POND State: NH Date: 01NOV84
Sample Type: REGULAR Latitude: 43-11'15"N Longitude: 71-40'00"W
Elevation: 148 Surface Temp: 11.1 Stratified: MIXED Site Depth: 0.9
Lake Area: 11 Watershed Area: 212 WA/LA: 19.4 Hydro Type: DRAINAGE
Residence Time: 0.04 Secchi Depth: 0.9 Turbidity: 1.0 Color: 25
Closed pH: 6.63 Equil. pH: 7.45 ANC: 192.3 DOC: 5.03
Closed DIC: 3.00 Equil. DIC: 2.01 Meas. Cond: 290.6 Cal. Cond: 321.2
Ca: 394.1 Mg: 127.5 Na: 1833.5 K: 45.3 NH4: 4.2
SO4: 210.8 HCO3: 162.5 Cl: 2243.3 NO3: 1.1 F: 2.0
Sum Cations: 2404.8 Sum Anions: 2619.8 Cations/Anions: 0.92 Tot. P: 13.3
Tot. Al: 69.6 Ext. Al: 3.1 Fe: 88.0 Mn: 32.0 SiO2: 0.82

ID: 1C2-037 Name: MENDUMS POND State: NH Date: 30OCT84
Sample Type: REG/SPC/NRC/ Latitude: 43-10'30"N Longitude: 71-04'00"W
Elevation: 67 Surface Temp: 13.2 Stratified: MIXED Site Depth: 6.6
Lake Area: 99 Watershed Area: 1779 WA/LA: 18.0 Hydro Type: DRAINAGE
Residence Time: 0.41 Secchi Depth: 4.5 Turbidity: 0.2 Color: 25
Closed pH: 5.78 Equil. pH: 6.03 ANC: 16.6 DOC: 4.10
Closed DIC: 0.52 Equil. DIC: 0.22 Meas. Cond: 19.5 Cal. Cond: 20.6
Ca: 46.6 Mg: 25.9 Na: 81.6 K: 6.9 NH4: 1.4
SO4: 82.3 HCO3: 8.9 Cl: 53.7 NO3: 0.6 F: 1.8
Sum Cations: 164.0 Sum Anions: 147.2 Cations/Anions: 1.11 Tot. P: 3.2
Tot. Al: 92.3 Ext. Al: 32.4 Fe: 30.0 Mn: 20.0 SiO2: 2.99

ID: 1C2-039 Name: (NO NAME) State: NH Date: 01NOV84
Sample Type: REGULAR Latitude: 43-03'15"N Longitude: 71-52'15"W
Elevation: 314 Surface Temp: 8.0 Stratified: MIXED Site Depth: 0.9
Lake Area: 7 Watershed Area: 124 WA/LA: 18.2 Hydro Type: DRAINAGE
Residence Time: 0.04 Secchi Depth: 0.4 Turbidity: 7.5 Color: 80
Closed pH: 5.75 Equil. pH: 6.03 ANC: 27.4 DOC: 17.05
Closed DIC: 0.46 Equil. DIC: 0.19 Meas. Cond: 21.8 Cal. Cond: 21.2
Ca: 68.5 Mg: 35.0 Na: 68.6 K: 2.2 NH4: 1.3
SO4: 76.5 HCO3: 19.5 Cl: 39.7 NO3: 0.0 F: 1.9
Sum Cations: 179.9 Sum Anions: 137.6 Cations/Anions: 1.31 Tot. P: 17.0
Tot. Al: 130.0 Ext. Al: 24.6 Fe: 36.0 Mn: 59.0 SiO2: 4.80

ID: 1C2-040 Name: DORRS POND State: NH Date: 30OCT84
Sample Type: REGULAR Latitude: 43-00'50"N Longitude: 71-27'15"W
Elevation: 82 Surface Temp: 13.1 Stratified: MIXED Site Depth: 1.2
Lake Area: 9 Watershed Area: 583 WA/LA: 63.4 Hydro Type: DRAINAGE
Residence Time: 0.02 Secchi Depth: 1.2 Turbidity: 2.6 Color: 25
Closed pH: 7.13 Equil. pH: 7.73 ANC: 361.0 DOC: 4.86
Closed DIC: 4.43 Equil. DIC: 4.17 Meas. Cond: 448.1 Cal. Cond: 461.3
Ca: 957.1 Mg: 398.1 Na: 2022.3 K: 90.7 NH4: 2.3
SO4: 879.9 HCO3: 303.1 Cl: 2501.3 NO3: 0.8 F: 5.6
Sum Cations: 3470.6 Sum Anions: 3691.1 Cations/Anions: 0.94 Tot. P: 10.2
Tot. Al: 58.2 Ext. Al: 0.2 Fe: 104.0 Mn: 156.0 SiO2: 2.11

(continued)

TABLE 3-1 (continued)

ID: 1C2-041 Name: JUGGERNAUT POND State: NH Date: 01NOV84
Sample Type: REGULAR Latitude: 42-57'35"N Longitude: 72-00'45"W
Elevation: 360 Surface Temp: 12.4 Stratified: MIXED Site Depth: 7.3
Lake Area: 6 Watershed Area: 47 WA/LA: 8.4 Hydro Type: DRAINAGE
Residence Time: 0.59 Secchi Depth: 4.4 Turbidity: 0.4 Color: 5
Closed pH: 5.46 Equil. pH: 5.75 ANC: 6.7 DOC: 1.80
Closed DIC: 0.57 Equil. DIC: 0.19 Meas. Cond: 19.2 Cal. Cond: 20.0
Ca: 59.2 Mg: 22.3 Na: 45.5 K: 6.9 NH4: 1.1
SO4: 117.9 HCO3: 8.1 Cl: 21.4 NO3: 0.4 F: 2.7
Sum Cations: 137.4 Sum Anions: 150.5 Cations/Anions: 0.91 Tot. P: 7.4
Tot. Al: 135.4 Ext. Al: 30.1 Fe: 29.0 Mn: 36.0 SiO2: 0.73

ID: 1C2-042 Name: STONE POND State: NH Date: 01NOV84
Sample Type: REG/SPC/NRC/ Latitude: 42-53'45"N Longitude: 72-09'15"W
Elevation: 395 Surface Temp: 11.9 Stratified: MIXED Site Depth: 10.4
Lake Area: 31 Watershed Area: 212 WA/LA: 6.8 Hydro Type: DRAINAGE
Residence Time: 1.03 Secchi Depth: 4.8 Turbidity: 0.6 Color: 10
Closed pH: 6.34 Equil. pH: 6.66 ANC: 33.0 DOC: 1.78
Closed DIC: 0.71 Equil. DIC: 0.40 Meas. Cond: 23.3 Cal. Cond: 24.2
Ca: 56.7 Mg: 43.0 Na: 59.6 K: 17.2 NH4: 1.2
SO4: 116.8 HCO3: 31.5 Cl: 40.5 NO3: 0.6 F: 2.5
Sum Cations: 178.2 Sum Anions: 191.9 Cations/Anions: 0.93 Tot. P: 4.9
Tot. Al: 27.1 Ext. Al: 2.7 Fe: 10.0 Mn: 11.0 SiO2: 0.99

ID: 1C2-043 Name: SEBBINS POND State: NH Date: 31OCT84
Sample Type: REGULAR Latitude: 42-55'45"N Longitude: 71-28'45"W
Elevation: 59 Surface Temp: 12.3 Stratified: MIXED Site Depth: 5.5
Lake Area: 8 Watershed Area: 60 WA/LA: 7.6 Hydro Type: DRAINAGE
Residence Time: 0.73 Secchi Depth: 2.1 Turbidity: 0.9 Color: 25
Closed pH: 6.78 Equil. pH: 7.68 ANC: 312.2 DOC: 3.25
Closed DIC: 4.65 Equil. DIC: 3.60 Meas. Cond: 136.0 Cal. Cond: 142.7
Ca: 401.7 Mg: 153.0 Na: 562.9 K: 32.8 NH4: 3.2
SO4: 206.5 HCO3: 276.9 Cl: 664.5 NO3: 1.8 F: 1.9
Sum Cations: 1153.7 Sum Anions: 1151.9 Cations/Anions: 1.00 Tot. P: 18.0
Tot. Al: 28.6 Ext. Al: 2.2 Fe: 41.0 Mn: 15.0 SiO2: 7.40

ID: 1C2-044 Name: SCOTT POND State: NH Date: 01NOV84
Sample Type: REGULAR Latitude: 42-47'15"N Longitude: 72-07'00"W
Elevation: 327 Surface Temp: 11.1 Stratified: MIXED Site Depth: 1.8
Lake Area: 51 Watershed Area: 1582 WA/LA: 30.8 Hydro Type: DRAINAGE
Residence Time: 0.04 Secchi Depth: 1.8 Turbidity: 0.8 Color: 70
Closed pH: 5.32 Equil. pH: 5.52 ANC: 12.8 DOC: 7.22
Closed DIC: 1.14 Equil. DIC: 0.18 Meas. Cond: 29.3 Cal. Cond: 29.3
Ca: 64.3 Mg: 27.0 Na: 123.5 K: 7.5 NH4: 1.6
SO4: 85.4 HCO3: 5.4 Cl: 108.7 NO3: 0.5 F: 3.9
Sum Cations: 228.3 Sum Anions: 203.9 Cations/Anions: 1.12 Tot. P: 19.4
Tot. Al: 139.7 Ext. Al: 51.1 Fe: 133.0 Mn: 45.0 SiO2: 0.50

ID: 1C2-045 Name: SIP POND State: NH Date: 01NOV84
Sample Type: REGULAR Latitude: 42-44'00"N Longitude: 72-06'15"W
Elevation: 269 Surface Temp: 11.4 Stratified: MIXED Site Depth: 2.1
Lake Area: 52 Watershed Area: 1228 WA/LA: 23.8 Hydro Type: DRAINAGE
Residence Time: 0.06 Secchi Depth: 1.9 Turbidity: 1.3 Color: 35
Closed pH: 5.29 Equil. pH: 5.50 ANC: 10.0 DOC: 5.93
Closed DIC: 0.56 Equil. DIC: 0.19 Meas. Cond: 36.2 Cal. Cond: 36.3
Ca: 65.8 Mg: 26.8 Na: 178.6 K: 7.1 NH4: 1.4
SO4: 99.7 HCO3: 5.0 Cl: 148.1 NO3: 0.8 F: 4.4
Sum Cations: 284.3 Sum Anions: 258.0 Cations/Anions: 1.10 Tot. P: 19.1
Tot. Al: 48.3 Ext. Al: 19.1 Fe: 125.0 Mn: 42.0 SiO2: 0.56

(continued)

TABLE 3-1 (continued)

ID: 1C2-048 Name: CRANBERRY POND State: NY Date: 04NOV84
Sample Type: REGULAR Latitude: 42-44'40"N Longitude: 73-26'00"W
Elevation: 505 Surface Temp: 9.3 Stratified: MIXED Site Depth: 4.0
Lake Area: 8 Watershed Area: 132 WA/LA: 16.5 Hydro Type: DRAINAGE
Residence Time: 0.21 Secchi Depth: 0.9 Turbidity: 1.4 Color: 120
Closed pH: 5.41 Equil. pH: 5.70 ANC: 25.9 DOC: 10.33
Closed DIC: 1.00 Equil. DIC: 0.21 Meas. Cond: 23.2 Cal. Cond: 23.1
Ca: 94.4 Mg: 32.1 Na: 43.0 K: 8.3 NH4: 5.8
SO4: 104.1 HCO3: 9.8 Cl: 29.7 NO3: 1.5 F: 4.0
Sum Cations: 187.1 Sum Anions: 149.1 Cations/Anions: 1.25 Tot. P: 9.5
Tot. Al: 225.5 Ext. Al: 23.8 Fe: 299.0 Mn: 55.0 SiO2: 4.18

ID: 1C2-050 Name: MOORES POND State: MA Date: 03NOV84
Sample Type: REGULAR Latitude: 42-39'20"N Longitude: 72-20'50"W
Elevation: 205 Surface Temp: 11.6 Stratified: MIXED Site Depth: 6.1
Lake Area: 12 Watershed Area: 622 WA/LA: 52.3 Hydro Type: DRAINAGE
Residence Time: 0.10 Secchi Depth: 5.3 Turbidity: 0.3 Color: 10
Closed pH: 6.33 Equil. pH: 6.81 ANC: 52.2 DOC: 2.58
Closed DIC: 1.11 Equil. DIC: 0.60 Meas. Cond: 36.2 Cal. Cond: 37.3
Ca: 78.9 Mg: 33.3 Na: 173.0 K: 9.1 NH4: 1.2
SO4: 104.6 HCO3: 45.1 Cl: 140.6 NO3: 0.2 F: 2.7
Sum Cations: 295.8 Sum Anions: 293.3 Cations/Anions: 1.01 Tot. P: 3.8
Tot. Al: 22.1 Ext. Al: 3.6 Fe: 15.0 Mn: 7.0 SiO2: 1.95

ID: 1C2-051 Name: CHESHIRE POND State: NH Date: 01NOV84
Sample Type: REGULAR Latitude: 42-49'15"N Longitude: 72-00'40"W
Elevation: 294 Surface Temp: 9.9 Stratified: MIXED Site Depth: 0.9
Lake Area: 14 Watershed Area: 8809 WA/LA: 616.0 Hydro Type: DRAINAGE
Residence Time: 0.00 Secchi Depth: 0.9 Turbidity: 1.7 Color: 40
Closed pH: 6.35 Equil. pH: 7.01 ANC: 77.4 DOC: 5.22
Closed DIC: 1.56 Equil. DIC: 0.79 Meas. Cond: 72.8 Cal. Cond: 76.9
Ca: 136.3 Mg: 66.7 Na: 364.5 K: 30.2 NH4: 2.1
SO4: 148.3 HCO3: 67.6 Cl: 385.6 NO3: 0.2 F: 2.6
Sum Cations: 600.3 Sum Anions: 604.3 Cations/Anions: 0.99 Tot. P: 19.3
Tot. Al: 106.1 Ext. Al: 9.2 Fe: 233.0 Mn: 51.0 SiO2: 1.58

ID: 1C2-052 Name: SHERMAN RESERVOIR State: VT Date: 07NOV84
Sample Type: REGULAR Latitude: 42-44'30"N Longitude: 72-55'35"W
Elevation: 336 Surface Temp: 20.4 Stratified: MIXED Site Depth: 9.4
Lake Area: 76 Watershed Area: 61290 WA/LA: 808.6 Hydro Type: DRAINAGE
Residence Time: 0.01 Secchi Depth: 1.9 Turbidity: 0.8 Color: 25
Closed pH: 6.61 Equil. pH: 7.13 ANC: 97.8 DOC: 3.13
Closed DIC: 1.52 Equil. DIC: 0.90 Meas. Cond: 34.0 Cal. Cond: 36.2
Ca: 124.1 Mg: 43.0 Na: 99.8 K: 18.1 NH4: 4.5
SO4: 105.9 HCO3: 85.2 Cl: 91.6 NO3: 6.8 F: 2.2
Sum Cations: 289.6 Sum Anions: 291.8 Cations/Anions: 0.99 Tot. P: 6.4
Tot. Al: 123.2 Ext. Al: 7.5 Fe: 65.0 Mn: 62.0 SiO2: 3.91

ID: 1C2-053 Name: KEZAR LAKE State: NH Date: 24OCT84
Sample Type: REG/SPC/NRC/ Latitude: 43-21'45"N Longitude: 71-57'00"W
Elevation: 276 Surface Temp: 12.7 Stratified: MIXED Site Depth: 4.6
Lake Area: 69 Watershed Area: 2696 WA/LA: 39.1 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 3.2 Turbidity: 0.6 Color: 10
Closed pH: 6.90 Equil. pH: 7.28 ANC: 123.2 DOC: 3.06
Closed DIC: 1.60 Equil. DIC: 1.39 Meas. Cond: 108.6 Cal. Cond: 130.4
Ca: 201.1 Mg: 56.1 Na: 639.0 K: 18.8 NH4: 1.0
SO4: 328.2 HCO3: 115.2 Cl: 661.9 NO3: 0.0 F: 2.1
Sum Cations: 916.0 Sum Anions: 1107.6 Cations/Anions: 0.83 Tot. P: 14.1
Tot. Al: 52.0 Ext. Al: 6.1 Fe: 12.0 Mn: 20.0 SiO2: 1.28

(continued)

TABLE 3-1 (continued)

ID: 1C2-054 Name: LAKE WAMPONOAG State: MA Date: 08NOV84
Sample Type: REGULAR Latitude: 42-37'02"N Longitude: 71-57'45"W
Elevation: 329 Surface Temp: 7.7 Stratified: MIXED Site Depth: 4.0
Lake Area: 89 Watershed Area: 751 WA/LA: 8.4 Hydro Type: DRAINAGE
Residence Time: 0.32 Secchi Depth: 4.0 Turbidity: 0.4 Color: 20
Closed pH: 5.06 Equil. pH: 5.09 ANC: -5.8 DOC: 2.00
Closed DIC: 0.44 Equil. DIC: 0.17 Meas. Cond: 45.0 Cal. Cond: 46.9
Ca: 85.8 Mg: 33.7 Na: 182.3 K: 12.3 NH4: 0.0
SO4: 136.2 HCO3: 1.5 Cl: 205.4 NO3: 0.2 F: 2.6
Sum Cations: 323.2 Sum Anions: 345.9 Cations/Anions: 0.93 Tot. P: 9.0
Tot. Al: 134.0 Ext. Al: 97.0 Fe: 60.0 Mn: 70.0 SiO2: 0.28

ID: 1C2-055 Name: NORTH RIVER POND State: NH Date: 30OCT84
Sample Type: REGULAR Latitude: 43-11'45"N Longitude: 71-07'45"W
Elevation: 137 Surface Temp: 12.8 Stratified: MIXED Site Depth: 5.5
Lake Area: 34 Watershed Area: 337 WA/LA: 10.0 Hydro Type: DRAINAGE
Residence Time: 0.58 Secchi Depth: 3.8 Turbidity: 0.8 Color: 20
Closed pH: 6.85 Equil. pH: 7.32 ANC: 145.2 DOC: 3.38
Closed DIC: 2.07 Equil. DIC: 1.69 Meas. Cond: 59.0 Cal. Cond: 63.3
Ca: 104.8 Mg: 45.7 Na: 357.1 K: 16.5 NH4: 1.8
SO4: 65.5 HCO3: 122.6 Cl: 320.6 NO3: 0.8 F: 2.6
Sum Cations: 526.1 Sum Anions: 512.3 Cations/Anions: 1.03 Tot. P: 10.0
Tot. Al: 24.5 Ext. Al: 0.6 Fe: 85.0 Mn: 16.0 SiO2: 2.05

ID: 1C2-056 Name: DRURY POND State: ME Date: 24OCT84
Sample Type: REGULAR Latitude: 44-42'15"N Longitude: 70-14'30"W
Elevation: 170 Surface Temp: 11.3 Stratified: MIXED Site Depth: 5.8
Lake Area: 13 Watershed Area: 844 WA/LA: 65.4 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 2.5 Turbidity: 1.4 Color: 20
Closed pH: 6.95 Equil. pH: 7.50 ANC: 220.1 DOC: 3.38
Closed DIC: 1.53 Equil. DIC: 2.41 Meas. Cond: 37.5 Cal. Cond: 37.9
Ca: 217.1 Mg: 44.4 Na: 65.4 K: 17.1 NH4: 0.3
SO4: 77.2 HCO3: 191.1 Cl: 42.9 NO3: 0.1 F: 1.4
Sum Cations: 344.4 Sum Anions: 313.0 Cations/Anions: 1.10 Tot. P: 6.8
Tot. Al: 46.7 Ext. Al: 4.2 Fe: 55.0 Mn: 2.0 SiO2: 2.29

ID: 1C2-057 Name: BABBIDGE RESERVOIR State: NH Date: 01NOV84
Sample Type: REGULAR Latitude: 42-56'05"N Longitude: 72-13'00"W
Elevation: 292 Surface Temp: 11.1 Stratified: MIXED Site Depth: 7.0
Lake Area: 12 Watershed Area: 1300 WA/LA: 111.1 Hydro Type: RESERVOIR
Residence Time: 0.06 Secchi Depth: 3.3 Turbidity: 1.0 Color: 25
Closed pH: 5.82 Equil. pH: 6.54 ANC: 27.6 DOC: 2.36
Closed DIC: 1.25 Equil. DIC: 0.36 Meas. Cond: 19.6 Cal. Cond: 20.1
Ca: 44.0 Mg: 42.0 Na: 44.1 K: 16.8 NH4: 2.8
SO4: 102.7 HCO3: 22.5 Cl: 23.5 NO3: 0.3 F: 2.7
Sum Cations: 151.0 Sum Anions: 151.7 Cations/Anions: 1.00 Tot. P: 9.0
Tot. Al: 101.8 Ext. Al: 9.2 Fe: 105.0 Mn: 28.0 SiO2: 2.01

ID: 1C2-059 Name: NORTHWOOD LAKE State: NH Date: 30OCT84
Sample Type: REGULAR Latitude: 43-12'33"N Longitude: 71-15'00"W
Elevation: 158 Surface Temp: 12.9 Stratified: MIXED Site Depth: 4.6
Lake Area: 256 Watershed Area: 5432 WA/LA: 21.2 Hydro Type: DRAINAGE
Residence Time: 0.25 Secchi Depth: 4.2 Turbidity: 0.9 Color: 20
Closed pH: 6.42 Equil. pH: 6.85 ANC: 53.0 DOC: 3.48
Closed DIC: 0.92 Equil. DIC: 0.64 Meas. Cond: 53.8 Cal. Cond: 55.7
Ca: 92.4 Mg: 52.0 Na: 278.6 K: 17.4 NH4: 1.8
SO4: 116.1 HCO3: 39.9 Cl: 271.2 NO3: 0.5 F: 2.2
Sum Cations: 442.6 Sum Anions: 429.9 Cations/Anions: 1.03 Tot. P: 11.0
Tot. Al: 36.4 Ext. Al: 1.8 Fe: 105.0 Mn: 16.0 SiO2: 0.99

(continued)

TABLE 3-1 (continued)

ID: 1C2-060 Name: WEST POND State: ME Date: 29OCT84
Sample Type: REGULAR Latitude: 43-45'15"N Longitude: 70-52'30"W
Elevation: 169 Surface Temp: 12.7 Stratified: MIXED Site Depth: 7.0
Lake Area: 70 Watershed Area: 285 WA/LA: 4.1 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 5.3 Turbidity: 0.4 Color: 10
Closed pH: 6.88 Equil. pH: 7.33 ANC: 139.2 DOC: 2.56
Closed DIC: 1.85 Equil. DIC: 1.62 Meas. Cond: 34.8 Cal. Cond: 35.8
Ca: 135.8 Mg: 49.7 Na: 103.2 K: 12.5 NH4: 2.4
SO4: 83.3 HCO3: 120.5 Cl: 83.8 NO3: 1.3 F: 4.1
Sum Cations: 303.6 Sum Anions: 293.1 Cations/Anions: 1.04 Tot. P: 7.1
Tot. Al: 226.1 Ext. Al: 1.4 Fe: 0.0 Mn: 7.0 SiO2: 0.94

ID: 1C2-061 Name: GREAT HILL POND State: NH Date: 25OCT84
Sample Type: REGULAR Latitude: 43-53'20"N Longitude: 71-20'00"W
Elevation: 286 Surface Temp: 11.9 Stratified: MIXED Site Depth: 2.7
Lake Area: 26 Watershed Area: 383 WA/LA: 14.5 Hydro Type: DRAINAGE
Residence Time: 0.13 Secchi Depth: 2.7 Turbidity: 0.6 Color: 35
Closed pH: 6.15 Equil. pH: 6.69 ANC: 95.4 DOC: 6.58
Closed DIC: 0.80 Equil. DIC: 0.45 Meas. Cond: 16.6 Cal. Cond: 16.5
Ca: 67.7 Mg: 22.3 Na: 57.4 K: 5.2 NH4: 1.3
SO4: 59.1 HCO3: 26.0 Cl: 14.2 NO3: 0.2 F: 12.8
Sum Cations: 154.5 Sum Anions: 112.4 Cations/Anions: 1.37 Tot. P: 4.9
Tot. Al: 99.4 Ext. Al: 22.0 Fe: 33.0 Mn: 3.0 SiO2: 0.51

ID: 1C2-062 Name: PEMIGEWASSET LAKE State: NH Date: 24OCT84
Sample Type: REGULAR Latitude: 43-36'55"N Longitude: 71-35'45"W
Elevation: 170 Surface Temp: 13.2 Stratified: MIXED Site Depth: 5.7
Lake Area: 103 Watershed Area: 1269 WA/LA: 12.3 Hydro Type: DRAINAGE
Residence Time: 0.39 Secchi Depth: 4.0 Turbidity: 0.5 Color: 15
Closed pH: 6.45 Equil. pH: 6.77 ANC: 51.6 DOC: 3.16
Closed DIC: 0.60 Equil. DIC: 0.52 Meas. Cond: 36.6 Cal. Cond: 38.3
Ca: 89.9 Mg: 34.7 Na: 166.5 K: 8.2 NH4: 1.1
SO4: 101.9 HCO3: 47.8 Cl: 151.8 NO3: 0.1 F: 2.4
Sum Cations: 300.6 Sum Anions: 304.0 Cations/Anions: 0.99 Tot. P: 4.5
Tot. Al: 24.7 Ext. Al: 6.8 Fe: 14.0 Mn: 5.0 SiO2: 0.65

ID: 1C2-063 Name: BOG POND State: NH Date: 24OCT84
Sample Type: REGULAR Latitude: 43-26'20"N Longitude: 71-52'15"W
Elevation: 196 Surface Temp: 11.6 Stratified: MIXED Site Depth: 3.9
Lake Area: 8 Watershed Area: 8513 WA/LA: 1013.4 Hydro Type: DRAINAGE
Residence Time: 0.00 Secchi Depth: 1.0 Turbidity: 17.4 Color: 75
Closed pH: 7.05 Equil. pH: 7.96 ANC: 532.4 DOC: 4.30
Closed DIC: 7.43 Equil. DIC: 5.89 Meas. Cond: 100.4 Cal. Cond: 92.9
Ca: 411.2 Mg: 120.1 Na: 315.8 K: 33.6 NH4: 4.9
SO4: 103.1 HCO3: 466.0 Cl: 183.0 NO3: 3.5 F: 2.7
Sum Cations: 885.7 Sum Anions: 759.1 Cations/Anions: 1.17 Tot. P: 3.5
Tot. Al: 46.1 Ext. Al: 7.6 Fe: 428.0 Mn: 240.0 SiO2: 6.45

ID: 1C2-064 Name: HANCOCK POND State: ME Date: 18OCT84
Sample Type: REGULAR Latitude: 44-57'20"N Longitude: 69-59'10"W
Elevation: 163 Surface Temp: 12.1 Stratified: STRONG Site Depth: 29.4
Lake Area: 129 Watershed Area: 1147 WA/LA: 8.9 Hydro Type: DRAINAGE
Residence Time: 2.73 Secchi Depth: 5.3 Turbidity: 0.3 Color: 15
Closed pH: 6.88 Equil. pH: 7.28 ANC: 93.0 DOC: 3.26
Closed DIC: 1.06 Equil. DIC: 1.07 Meas. Cond: 21.5 Cal. Cond: 22.3
Ca: 110.0 Mg: 35.7 Na: 46.2 K: 6.5 NH4: 1.1
SO4: 76.1 HCO3: 78.5 Cl: 15.7 NO3: 0.1 F: 3.2
Sum Cations: 199.6 Sum Anions: 173.6 Cations/Anions: 1.15 Tot. P: 6.8
Tot. Al: 51.4 Ext. Al: 9.9 Fe: 1.0 Mn: 2.0 SiO2: 2.60

(continued)

TABLE 3-1 (continued)

ID: 1C2-065 Name: DAN CHARLES POND State: ME Date: 25OCT84
Sample Type: REGULAR Latitude: 44-10'53"N Longitude: 70-49'35"W
Elevation: 143 Surface Temp: 10.6 Stratified: MIXED Site Depth: 0.9
Lake Area: 11 Watershed Area: 137 WA/LA: 12.0 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 0.9 Turbidity: 1.0 Color: 55
Closed pH: 6.29 Equil. pH: 7.13 ANC: 94.0 DOC: 6.30
Closed DIC: 1.96 Equil. DIC: 0.91 Meas. Cond: 21.1 Cal. Cond: 21.4
Ca: 109.4 Mg: 30.8 Na: 46.3 K: 11.1 NH4: 2.1
SO4: 67.1 HCO3: 72.3 Cl: 16.1 NO3: 0.0 F: 1.6
Sum Cations: 199.9 Sum Anions: 157.1 Cations/Anions: 1.27 Tot. P: 18.6
Tot. Al: 114.1 Ext. Al: 20.1 Fe: 73.0 Mn: 10.0 SiO2: 2.98

ID: 1C2-066 Name: TURTLE POND State: NH Date: 30OCT84
Sample Type: REGULAR Latitude: 43-15'15"N Longitude: 71-31'00"W
Elevation: 95 Surface Temp: 12.1 Stratified: MIXED Site Depth: 4.6
Lake Area: 54 Watershed Area: 510 WA/LA: 9.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.4 Turbidity: 0.5 Color: 55
Closed pH: 6.35 Equil. pH: 6.97 ANC: 84.2 DOC: 7.34
Closed DIC: 1.45 Equil. DIC: 0.75 Meas. Cond: 42.3 Cal. Cond: 43.7
Ca: 113.6 Mg: 58.9 Na: 182.2 K: 15.0 NH4: 1.1
SO4: 98.7 HCO3: 71.3 Cl: 158.3 NO3: 0.2 F: 4.0
Sum Cations: 371.1 Sum Anions: 332.6 Cations/Anions: 1.12 Tot. P: 9.4
Tot. Al: 77.2 Ext. Al: 13.8 Fe: 73.0 Mn: 10.0 SiO2: 1.44

ID: 1C2-067 Name: DUBES POND State: NH Date: 30OCT84
Sample Type: REGULAR Latitude: 43-04'13"N Longitude: 71-24'07"W
Elevation: 128 Surface Temp: 12.9 Stratified: MIXED Site Depth: 0.9
Lake Area: 38 Watershed Area: 1440 WA/LA: 38.4 Hydro Type: DRAINAGE
Residence Time: 0.03 Secchi Depth: 0.9 Turbidity: 1.8 Color: 150
Closed pH: 5.08 Equil. pH: 5.21 ANC: 7.7 DOC: 9.28
Closed DIC: 0.98 Equil. DIC: 0.13 Meas. Cond: 30.7 Cal. Cond: 31.2
Ca: 78.3 Mg: 33.4 Na: 97.4 K: 10.5 NH4: 2.6
SO4: 117.3 HCO3: 3.6 Cl: 83.0 NO3: 1.3 F: 6.1
Sum Cations: 229.6 Sum Anions: 211.3 Cations/Anions: 1.09 Tot. P: 8.5
Tot. Al: 203.4 Ext. Al: 42.2 Fe: 315.0 Mn: 67.0 SiO2: 0.34

ID: 1C2-068 Name: QUIMBY POND State: ME Date: 18OCT84
Sample Type: REGULAR Latitude: 44-59'27"N Longitude: 70-44'31"W
Elevation: 513 Surface Temp: 11.0 Stratified: MIXED Site Depth: 2.7
Lake Area: 68 Watershed Area: 181 WA/LA: 2.7 Hydro Type: DRAINAGE
Residence Time: 0.59 Secchi Depth: 1.2 Turbidity: 1.3 Color: 15
Closed pH: 7.62 Equil. pH: 7.72 ANC: 289.0 DOC: 5.87
Closed DIC: 3.31 Equil. DIC: 3.18 Meas. Cond: 51.6 Cal. Cond: 54.1
Ca: 345.1 Mg: 64.7 Na: 56.4 K: 8.9 NH4: 1.2
SO4: 157.1 HCO3: 262.8 Cl: 28.1 NO3: 0.6 F: 1.7
Sum Cations: 476.3 Sum Anions: 451.0 Cations/Anions: 1.06 Tot. P: 12.0
Tot. Al: 50.9 Ext. Al: 15.4 Fe: 38.0 Mn: 14.0 SiO2: 1.47

ID: 1C2-069 Name: LITTLE POND State: ME Date: 25OCT84
Sample Type: REGULAR Latitude: 43-57'40"N Longitude: 70-48'52"W
Elevation: 111 Surface Temp: 12.3 Stratified: MIXED Site Depth: 3.9
Lake Area: 13 Watershed Area: 7335 WA/LA: 551.5 Hydro Type: DRAINAGE
Residence Time: 0.01 Secchi Depth: 3.9 Turbidity: 0.4 Color: 20
Closed pH: 6.49 Equil. pH: 6.80 ANC: 99.4 DOC: 3.33
Closed DIC: 1.79 Equil. DIC: 1.38 Meas. Cond: 29.2 Cal. Cond: 30.3
Ca: 105.7 Mg: 34.3 Na: 111.7 K: 8.4 NH4: 2.0
SO4: 67.8 HCO3: 79.3 Cl: 86.7 NO3: 0.1 F: 3.3
Sum Cations: 262.4 Sum Anions: 237.2 Cations/Anions: 1.11 Tot. P: 3.8
Tot. Al: 26.7 Ext. Al: 6.8 Fe: 61.0 Mn: 16.0 SiO2: 1.30

(continued)

TABLE 3-1 (continued)

ID: 1C2-070 Name: LEVI POND State: VT Date: 25OCT84
Sample Type: REG/SPC/LTM/ Latitude: 44-16'00"N Longitude: 72-13'40"W
Elevation: 497 Surface Temp: 10.7 Stratified: MIXED Site Depth: 6.1
Lake Area: 9 Watershed Area: 78 WA/LA: 8.5 Hydro Type: DRAINAGE
Residence Time: 0.66 Secchi Depth: 3.9 Turbidity: 0.4 Color: 25
Closed pH: 5.32 Equil. pH: 5.31 ANC: 31.0 DOC: 5.40
Closed DIC: 0.63 Equil. DIC: 0.20 Meas. Cond: 18.9 Cal. Cond: 18.3
Ca: 69.4 Mg: 22.4 Na: 28.7 K: 5.2 NH4: 1.1
SO4: 107.6 HCO3: 4.1 Cl: 7.3 NO3: 0.2 F: 1.8
Sum Cations: 131.3 Sum Anions: 121.1 Cations/Anions: 1.08 Tot. P: 3.6
Tot. Al: 163.4 Ext. Al: 39.3 Fe: 89.0 Mn: 37.0 SiO2: 0.82

ID: 1C3-003 Name: RODERIQUE POND State: ME Date: 17OCT84
Sample Type: REGULAR Latitude: 45-39'15"N Longitude: 69-55'40"W
Elevation: 334 Surface Temp: 10.0 Stratified: MIXED Site Depth: 4.6
Lake Area: 14 Watershed Area: 115 WA/LA: 8.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.1 Turbidity: 0.4 Color: 45
Closed pH: 6.21 Equil. pH: 6.83 ANC: 61.1 DOC: 7.52
Closed DIC: 1.19 Equil. DIC: 0.55 Meas. Cond: 20.8 Cal. Cond: 21.1
Ca: 78.2 Mg: 55.9 Na: 31.7 K: 21.0 NH4: 7.2
SO4: 83.2 HCO3: 45.1 Cl: 12.4 NO3: 0.1 F: 1.5
Sum Cations: 194.4 Sum Anions: 142.3 Cations/Anions: 1.37 Tot. P: 0.2
Tot. Al: 116.4 Ext. Al: 27.6 Fe: 80.0 Mn: 25.0 SiO2: 0.90

ID: 1C3-004 Name: SUGAR BERTH POND State: ME Date: 19OCT84
Sample Type: REGULAR Latitude: 45-38'30"N Longitude: 70-21'00"W
Elevation: 403 Surface Temp: 9.5 Stratified: MIXED Site Depth: 2.4
Lake Area: 10 Watershed Area: 135 WA/LA: 13.2 Hydro Type: DRAINAGE
Residence Time: 0.15 Secchi Depth: 2.4 Turbidity: 0.4 Color: 23
Closed pH: 7.96 Equil. pH: 8.24 ANC: 1000.5 DOC: 7.16
Closed DIC: 11.27 Equil. DIC: 10.70 Meas. Cond: 112.8 Cal. Cond: 118.5
Ca: 880.7 Mg: 230.3 Na: 33.3 K: 6.0 NH4: 2.3
SO4: 126.0 HCO3: 903.0 Cl: 8.7 NO3: 1.7 F: 1.2
Sum Cations: 1152.6 Sum Anions: 1048.5 Cations/Anions: 1.10 Tot. P: 0.0
Tot. Al: 194.9 Ext. Al: 27.5 Fe: 8.0 Mn: 0.0 SiO2: 2.17

ID: 1C3-005 Name: LITTLE FISH POND State: ME Date: 18OCT84
Sample Type: REGULAR Latitude: 45-32'48"N Longitude: 70-28'37"W
Elevation: 409 Surface Temp: 9.5 Stratified: MIXED Site Depth: 1.2
Lake Area: 6 Watershed Area: 132 WA/LA: 21.6 Hydro Type: DRAINAGE
Residence Time: 0.05 Secchi Depth: 1.2 Turbidity: 0.3 Color: 60
Closed pH: 7.10 Equil. pH: 7.77 ANC: 397.1 DOC: 8.78
Closed DIC: 4.70 Equil. DIC: 3.73 Meas. Cond: 52.5 Cal. Cond: 54.4
Ca: 329.4 Mg: 122.6 Na: 70.8 K: 8.3 NH4: 2.7
SO4: 111.7 HCO3: 311.9 Cl: 9.6 NO3: 2.8 F: 2.6
Sum Cations: 533.8 Sum Anions: 439.0 Cations/Anions: 1.22 Tot. P: 3.0
Tot. Al: 74.0 Ext. Al: 17.3 Fe: 43.0 Mn: 12.0 SiO2: 5.35

ID: 1C3-006 Name: MUD POND State: ME Date: 18OCT84
Sample Type: REGULAR Latitude: 45-31'20"N Longitude: 70-40'49"W
Elevation: 546 Surface Temp: 10.6 Stratified: MIXED Site Depth: 0.9
Lake Area: 6 Watershed Area: 88 WA/LA: 14.9 Hydro Type: DRAINAGE
Residence Time: 0.05 Secchi Depth: 0.9 Turbidity: 1.0 Color: 30
Closed pH: 7.28 Equil. pH: 7.71 ANC: 316.3 DOC: 6.44
Closed DIC: 3.76 Equil. DIC: 3.32 Meas. Cond: 43.8 Cal. Cond: 46.4
Ca: 270.7 Mg: 118.9 Na: 49.8 K: 7.7 NH4: 1.3
SO4: 93.4 HCO3: 287.6 Cl: 5.0 NO3: 0.6 F: 1.4
Sum Cations: 448.4 Sum Anions: 388.9 Cations/Anions: 1.15 Tot. P: 10.8
Tot. Al: 86.0 Ext. Al: 15.1 Fe: 69.0 Mn: 9.0 SiO2: 1.65

(continued)

TABLE 3-1 (continued)

ID: 1C3-007 Name: HORSESHOE POND State: ME Date: 19OCT84
Sample Type: REGULAR Latitude: 45-27'30"N Longitude: 69-56'00"W
Elevation: 326 Surface Temp: 9.8 Stratified: MIXED Site Depth: 7.0
Lake Area: 13 Watershed Area: 461 WA/LA: 35.5 Hydro Type: DRAINAGE
Residence Time: 0.14 Secchi Depth: 2.9 Turbidity: 0.8 Color: 35
Closed pH: 7.27 Equil. pH: 7.67 ANC: 263.4 DOC: 7.55
Closed DIC: 2.92 Equil. DIC: 2.73 Meas. Cond: 37.6 Cal. Cond: 40.2
Ca: 251.7 Mg: 98.1 Na: 42.0 K: 7.4 NH4: 2.0
SO4: 74.5 HCO3: 230.6 Cl: 11.0 NO3: 0.0 F: 1.6
Sum Cations: 401.4 Sum Anions: 318.3 Cations/Anions: 1.26 Tot. P: 6.6
Tot. Al: 51.0 Ext. Al: 10.9 Fe: 42.0 Mn: 7.0 SiO2: 1.76

ID: 1C3-009 Name: DERBY POND State: VT Date: 18OCT84
Sample Type: REGULAR Latitude: 44-57'00"N Longitude: 72-07'00"W
Elevation: 299 Surface Temp: 12.0 Stratified: MIXED Site Depth: 2.4
Lake Area: 76 Watershed Area: 435 WA/LA: 5.8 Hydro Type: DRAINAGE
Residence Time: 0.24 Secchi Depth: 2.4 Turbidity: 0.8 Color: 5
Closed pH: 8.47 Equil. pH: 8.56 ANC: 2320.4 DOC: 2.96
Closed DIC: 25.62 Equil. DIC: 26.37 Meas. Cond: 318.6 Cal. Cond: 344.0
Ca: 2035.9 Mg: 540.4 Na: 502.9 K: 64.0 NH4: 4.7
SO4: 268.7 HCO3: 2235.6 Cl: 514.7 NO3: 9.2 F: 8.7
Sum Cations: 3147.9 Sum Anions: 3075.8 Cations/Anions: 1.02 Tot. P: 6.5
Tot. Al: 74.3 Ext. Al: 16.8 Fe: 4.0 Mn: 4.0 SiO2: 0.26

ID: 1C3-011 Name: ST ALBANS RES (SO. PART) State: VT Date: 29OCT84
Sample Type: REGULAR Latitude: 44-45'30"N Longitude: 73-03'50"W
Elevation: 219 Surface Temp: 12.7 Stratified: MIXED Site Depth: 2.4
Lake Area: 11 Watershed Area: 557 WA/LA: 52.1 Hydro Type: RESERVOIR
Residence Time: 0.04 Secchi Depth: 2.7 Turbidity: 1.7 Color: 20
Closed pH: 7.80 Equil. pH: 8.12 ANC: 844.8 DOC: 4.33
Closed DIC: 9.51 Equil. DIC: 9.47 Meas. Cond: 112.2 Cal. Cond: 118.3
Ca: 722.6 Mg: 207.3 Na: 141.5 K: 23.5 NH4: 1.1
SO4: 170.7 HCO3: 739.4 Cl: 110.4 NO3: 0.3 F: 2.5
Sum Cations: 1095.9 Sum Anions: 1027.0 Cations/Anions: 1.07 Tot. P: 14.5
Tot. Al: 75.9 Ext. Al: 3.1 Fe: 42.0 Mn: 0.0 SiO2: 0.22

ID: 1C3-012 Name: GILLETT POND State: VT Date: 29OCT84
Sample Type: REGULAR Latitude: 44-21'15"N Longitude: 72-57'45"W
Elevation: 217 Surface Temp: 13.4 Stratified: MIXED Site Depth: 1.0
Lake Area: 12 Watershed Area: 578 WA/LA: 46.6 Hydro Type: DRAINAGE
Residence Time: 0.02 Secchi Depth: 1.1 Turbidity: 2.1 Color: 30
Closed pH: 7.55 Equil. pH: 7.99 ANC: 563.5 DOC: 3.77
Closed DIC: 6.58 Equil. DIC: 6.30 Meas. Cond: 69.8 Cal. Cond: 72.4
Ca: 469.6 Mg: 139.8 Na: 48.0 K: 10.5 NH4: 1.3
SO4: 102.6 HCO3: 509.3 Cl: 34.8 NO3: 0.2 F: 2.0
Sum Cations: 669.2 Sum Anions: 651.0 Cations/Anions: 1.03 Tot. P: 8.3
Tot. Al: 24.9 Ext. Al: 3.4 Fe: 111.0 Mn: 16.0 SiO2: 1.27

ID: 1C3-013 Name: SUNRISE LAKE State: VT Date: 03NOV84
Sample Type: REGULAR Latitude: 43-45'38"N Longitude: 73-15'35"W
Elevation: 151 Surface Temp: 9.2 Stratified: MIXED Site Depth: 12.5
Lake Area: 22 Watershed Area: 238 WA/LA: 10.7 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 5.8 Turbidity: 0.4 Color: 15
Closed pH: 7.43 Equil. pH: 7.99 ANC: 609.9 DOC: 2.40
Closed DIC: 7.05 Equil. DIC: 6.56 Meas. Cond: 87.2 Cal. Cond: 90.4
Ca: 572.9 Mg: 205.6 Na: 47.9 K: 9.6 NH4: 0.9
SO4: 217.9 HCO3: 488.5 Cl: 37.7 NO3: 0.1 F: 1.5
Sum Cations: 836.9 Sum Anions: 747.2 Cations/Anions: 1.12 Tot. P: 5.3
Tot. Al: 16.5 Ext. Al: 2.3 Fe: 22.0 Mn: 44.0 SiO2: 1.52

(continued)

TABLE 3-1 (continued)

ID: 1C3-014 Name: BREESE POND State: VT Date: 03NOV84
Sample Type: REGULAR Latitude: 43-42'50"N Longitude: 73-13'00"W
Elevation: 168 Surface Temp: 9.3 Stratified: MIXED Site Depth: 2.1
Lake Area: 6 Watershed Area: 124 WA/LA: 22.5 Hydro Type: DRAINAGE
Residence Time: 0.11 Secchi Depth: 2.1 Turbidity: 0.6 Color: 30
Closed pH: 7.76 Equil. pH: 8.32 ANC: 1320.2 DOC: 6.30
Closed DIC: 14.52 Equil. DIC: 13.40 Meas. Cond: 151.0 Cal. Cond: 162.2
Ca: 1129.2 Mg: 281.3 Na: 118.6 K: 18.9 NH4: 1.6
SO4: 169.2 HCO3: 1173.1 Cl: 83.8 NO3: 0.0 F: 2.4
Sum Cations: 1549.6 Sum Anions: 1434.4 Cations/Anions: 1.08 Tot. P: 8.8
Tot. Al: 19.5 Ext. Al: 1.5 Fe: 9.0 Mn: 5.0 SiO2: 2.49

ID: 1C3-017 Name: CARTER POND State: NY Date: 03NOV84
Sample Type: REGULAR Latitude: 43-09'50"N Longitude: 73-25'15"W
Elevation: 134 Surface Temp: 10.1 Stratified: MIXED Site Depth: 5.2
Lake Area: 7 Watershed Area: 4033 WA/LA: 601.9 Hydro Type: DRAINAGE
Residence Time: 0.01 Secchi Depth: 1.3 Turbidity: 1.6 Color: 50
Closed pH: 7.27 Equil. pH: 8.42 ANC: 2010.4 DOC: 6.62
Closed DIC: 24.50 Equil. DIC: 20.28 Meas. Cond: 229.1 Cal. Cond: 236.0
Ca: 1531.9 Mg: 546.2 Na: 200.7 K: 64.3 NH4: 1.2
SO4: 116.4 HCO3: 1642.1 Cl: 238.8 NO3: 0.2 F: 2.7
Sum Cations: 2344.4 Sum Anions: 2004.0 Cations/Anions: 1.17 Tot. P: 67.5
Tot. Al: 39.9 Ext. Al: 1.8 Fe: 82.0 Mn: 183.0 SiO2: 5.56

ID: 1C3-018 Name: NO NAME(NO NAME LAKE) State: NY Date: 04NOV84
Sample Type: REGULAR Latitude: 42-46'10"N Longitude: 73-32'50"W
Elevation: 153 Surface Temp: 8.6 Stratified: MIXED Site Depth: 0.6
Lake Area: 7 Watershed Area: 186 WA/LA: 27.8 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 0.4 Turbidity: 9.9 Color: 100
Closed pH: 7.86 Equil. pH: 8.07 ANC: 679.3 DOC: 9.78
Closed DIC: 8.11 Equil. DIC: 7.41 Meas. Cond: 127.4 Cal. Cond: 135.3
Ca: 538.9 Mg: 269.0 Na: 308.4 K: 57.1 NH4: 1.6
SO4: 236.9 HCO3: 605.1 Cl: 302.5 NO3: 0.3 F: 3.3
Sum Cations: 1175.1 Sum Anions: 1149.2 Cations/Anions: 1.02 Tot. P: 40.0
Tot. Al: 138.9 Ext. Al: 3.0 Fe: 58.0 Mn: 37.0 SiO2: 5.13

ID: 1C3-020 Name: BERKSHIRE POND State: MA Date: 07NOV84
Sample Type: REGULAR Latitude: 42-30'15"N Longitude: 73-11'50"W
Elevation: 301 Surface Temp: 5.9 Stratified: MIXED Site Depth: 1.0
Lake Area: 7 Watershed Area: 523 WA/LA: 71.6 Hydro Type: DRAINAGE
Residence Time: 0.01 Secchi Depth: 1.0 Turbidity: 1.8 Color: 20
Closed pH: 8.03 Equil. pH: 8.60 ANC: 3229.2 DOC: 1.96
Closed DIC: 35.90 Equil. DIC: 34.06 Meas. Cond: 370.6 Cal. Cond: 421.3
Ca: 2020.7 Mg: 1370.7 Na: 496.8 K: 42.1 NH4: 1.2
SO4: 191.8 HCO3: 3084.8 Cl: 573.0 NO3: 0.3 F: 1.5
Sum Cations: 3931.5 Sum Anions: 3908.8 Cations/Anions: 1.01 Tot. P: 6.9
Tot. Al: 99.7 Ext. Al: 3.7 Fe: 62.0 Mn: 15.0 SiO2: 2.97

ID: 1C3-021 Name: MUD POND State: VT Date: 29OCT84
Sample Type: REGULAR Latitude: 44-23'40"N Longitude: 72-23'15"W
Elevation: 425 Surface Temp: 11.7 Stratified: MIXED Site Depth: 0.9
Lake Area: 8 Watershed Area: 85 WA/LA: 10.8 Hydro Type: DRAINAGE
Residence Time: 0.08 Secchi Depth: 1.0 Turbidity: 0.7 Color: 45
Closed pH: 7.77 Equil. pH: 8.10 ANC: 746.2 DOC: 10.80
Closed DIC: 7.90 Equil. DIC: 8.01 Meas. Cond: 82.6 Cal. Cond: 85.0
Ca: 701.1 Mg: 91.7 Na: 26.2 K: 7.5 NH4: 3.0
SO4: 87.4 HCO3: 632.6 Cl: 10.9 NO3: 1.4 F: 1.4
Sum Cations: 829.5 Sum Anions: 737.3 Cations/Anions: 1.13 Tot. P: 0.0
Tot. Al: 72.5 Ext. Al: 12.2 Fe: 12.0 Mn: 11.0 SiO2: 0.31

(continued)

TABLE 3-1 (continued)

ID: 1C3-022 Name: BERLIN POND State: VT Date: 25OCT84
Sample Type: REGULAR Latitude: 44-11'15"N Longitude: 72-35'15"W
Elevation: 297 Surface Temp: 12.4 Stratified: WEAK Site Depth: 15.8
Lake Area: 118 Watershed Area: 2647 WA/LA: 22.4 Hydro Type: DRAINAGE
Residence Time: 0.59 Secchi Depth: 11.4 Turbidity: 0.2 Color: 5
Closed pH: 8.30 Equil. pH: 8.45 ANC: 1631.7 DOC: 1.97
Closed DIC: 18.73 Equil. DIC: 17.78 Meas. Cond: 241.6 Cal. Cond: 252.7
Ca: 1638.7 Mg: 248.4 Na: 340.2 K: 8.1 NH4: 0.9
SO4: 331.5 HCO3: 1478.1 Cl: 389.5 NO3: 0.0 F: 1.3
Sum Cations: 2236.3 Sum Anions: 2233.5 Cations/Anions: 1.00 Tot. P: 3.8
Tot. Al: 7.5 Ext. Al: 5.6 Fe: 0.0 Mn: 0.0 SiO2: 2.95

ID: 1C3-023 Name: LIME POND State: NH Date: 18OCT84
Sample Type: REGULAR Latitude: 44-52'15"N Longitude: 71-29'20"W
Elevation: 431 Surface Temp: 10.6 Stratified: MIXED Site Depth: 2.4
Lake Area: 6 Watershed Area: 101 WA/LA: 18.4 Hydro Type: DRAINAGE
Residence Time: 0.09 Secchi Depth: 1.3 Turbidity: 0.8 Color: 20
Closed pH: 8.33 Equil. pH: 8.52 ANC: 1788.0 DOC: 5.53
Closed DIC: 20.98 Equil. DIC: 18.29 Meas. Cond: 196.5 Cal. Cond: 222.0
Ca: 1666.7 Mg: 267.3 Na: 56.8 K: 58.0 NH4: 1.2
SO4: 217.8 HCO3: 1785.0 Cl: 40.1 NO3: 0.2 F: 2.1
Sum Cations: 2050.0 Sum Anions: 2066.2 Cations/Anions: 0.99 Tot. P: 14.0
Tot. Al: 25.3 Ext. Al: 8.1 Fe: 27.0 Mn: 26.0 SiO2: 6.97

ID: 1C3-024 Name: NEAL POND State: VT Date: 25OCT84
Sample Type: REGULAR Latitude: 44-29'30"N Longitude: 71-41'30"W
Elevation: 366 Surface Temp: 10.9 Stratified: MIXED Site Depth: 7.6
Lake Area: 76 Watershed Area: 2264 WA/LA: 29.9 Hydro Type: DRAINAGE
Residence Time: 0.18 Secchi Depth: 1.9 Turbidity: 1.7 Color: 60
Closed pH: 6.84 Equil. pH: 7.48 ANC: 197.2 DOC: 8.27
Closed DIC: 2.62 Equil. DIC: 1.93 Meas. Cond: 35.0 Cal. Cond: 37.0
Ca: 212.8 Mg: 68.2 Na: 53.8 K: 20.3 NH4: 1.1
SO4: 95.4 HCO3: 163.7 Cl: 17.2 NO3: 0.7 F: 2.0
Sum Cations: 356.3 Sum Anions: 279.2 Cations/Anions: 1.28 Tot. P: 10.4
Tot. Al: 134.0 Ext. Al: 14.1 Fe: 92.0 Mn: 2.0 SiO2: 4.76

ID: 1C3-025 Name: BURNS POND State: NH Date: 25OCT84
Sample Type: REGULAR Latitude: 44-21'00"N Longitude: 71-38'30"W
Elevation: 310 Surface Temp: 11.5 Stratified: MIXED Site Depth: 6.4
Lake Area: 41 Watershed Area: 1287 WA/LA: 31.2 Hydro Type: DRAINAGE
Residence Time: 0.15 Secchi Depth: 2.7 Turbidity: 0.5 Color: 45
Closed pH: 6.59 Equil. pH: 7.27 ANC: 124.8 DOC: 7.30
Closed DIC: 1.95 Equil. DIC: 1.27 Meas. Cond: 56.0 Cal. Cond: 60.6
Ca: 164.3 Mg: 79.7 Na: 235.4 K: 24.2 NH4: 1.1
SO4: 103.9 HCO3: 109.0 Cl: 256.7 NO3: 0.5 F: 2.4
Sum Cations: 504.9 Sum Anions: 472.6 Cations/Anions: 1.07 Tot. P: 7.8
Tot. Al: 57.1 Ext. Al: 10.1 Fe: 41.0 Mn: 0.0 SiO2: 2.90

ID: 1C3-027 Name: MOSES POND State: NH Date: 23OCT84
Sample Type: REGULAR Latitude: 43-32'25"N Longitude: 72-18'50"W
Elevation: 244 Surface Temp: 13.3 Stratified: MIXED Site Depth: 1.8
Lake Area: 11 Watershed Area: 91 WA/LA: 8.4 Hydro Type: DRAINAGE
Residence Time: 0.21 Secchi Depth: 1.8 Turbidity: 0.4 Color: 25
Closed pH: 7.58 Equil. pH: 8.02 ANC: 538.7 DOC: 6.09
Closed DIC: 6.23 Equil. DIC: 5.81 Meas. Cond: 74.1 Cal. Cond: 77.6
Ca: 545.9 Mg: 78.8 Na: 61.8 K: 16.4 NH4: 1.9
SO4: 145.6 HCO3: 497.5 Cl: 32.4 NO3: 0.4 F: 1.5
Sum Cations: 704.9 Sum Anions: 679.4 Cations/Anions: 1.04 Tot. P: 10.9
Tot. Al: 77.3 Ext. Al: 16.4 Fe: 35.0 Mn: 8.0 SiO2: 5.07

(continued)

TABLE 3-1 (continued)

ID: 1C3-028 Name: HALL POND State: NH Date: 01NOV84
Sample Type: REGULAR Latitude: 43-15'00"N Longitude: 72-21'30"W
Elevation: 308 Surface Temp: 9.8 Stratified: MIXED Site Depth: 1.5
Lake Area: 4 Watershed Area: 233 WA/LA: 52.9 Hydro Type: DRAINAGE
Residence Time: 0.03 Secchi Depth: 1.5 Turbidity: 0.6 Color: 25
Closed pH: 6.58 Equil. pH: 7.07 ANC: 88.6 DOC: 5.20
Closed DIC: 1.30 Equil. DIC: 0.88 Meas. Cond: 30.1 Cal. Cond: 30.6
Ca: 107.6 Mg: 68.5 Na: 75.3 K: 5.0 NH4: 1.1
SO4: 129.1 HCO3: 73.2 Cl: 32.7 NO3: 0.3 F: 2.6
Sum Cations: 257.8 Sum Anions: 238.0 Cations/Anions: 1.08 Tot. P: 16.1
Tot. Al: 43.3 Ext. Al: 5.7 Fe: 40.5 Mn: 8.5 SiO2: 0.15

ID: 1C3-030 Name: PELHAM LAKE State: MA Date: 07NOV84
Sample Type: REGULAR Latitude: 42-42'00"N Longitude: 72-53'30"W
Elevation: 429 Surface Temp: 7.6 Stratified: MIXED Site Depth: 2.4
Lake Area: 32 Watershed Area: 1098 WA/LA: 34.2 Hydro Type: DRAINAGE
Residence Time: 0.05 Secchi Depth: 1.9 Turbidity: 1.6 Color: 20
Closed pH: 6.81 Equil. pH: 7.14 ANC: 94.3 DOC: 3.70
Closed DIC: 1.23 Equil. DIC: 0.90 Meas. Cond: 33.9 Cal. Cond: 34.2
Ca: 104.6 Mg: 56.7 Na: 90.6 K: 21.1 NH4: 1.2
SO4: 115.7 HCO3: 80.1 Cl: 75.1 NO3: 0.1 F: 3.2
Sum Cations: 274.3 Sum Anions: 274.1 Cations/Anions: 1.00 Tot. P: 14.9
Tot. Al: 129.2 Ext. Al: 2.6 Fe: 99.0 Mn: 17.0 SiO2: 0.80

ID: 1C3-031 Name: SADAWGA LAKE State: VT Date: 06NOV84
Sample Type: REGULAR Latitude: 42-47'00"N Longitude: 72-52'30"W
Elevation: 512 Surface Temp: 8.5 Stratified: MIXED Site Depth: 2.1
Lake Area: 78 Watershed Area: 461 WA/LA: 5.9 Hydro Type: RESERVOIR
Residence Time: 0.24 Secchi Depth: 2.2 Turbidity: 0.8 Color: 25
Closed pH: 6.86 Equil. pH: 7.32 ANC: 132.1 DOC: 4.19
Closed DIC: 1.79 Equil. DIC: 1.42 Meas. Cond: 39.7 Cal. Cond: 40.4
Ca: 138.7 Mg: 44.3 Na: 132.5 K: 17.3 NH4: 1.6
SO4: 84.4 HCO3: 116.2 Cl: 126.3 NO3: 0.4 F: 2.2
Sum Cations: 334.4 Sum Anions: 329.6 Cations/Anions: 1.01 Tot. P: 10.2
Tot. Al: 37.6 Ext. Al: 3.4 Fe: 102.0 Mn: 7.0 SiO2: 0.35

ID: 1C3-032 Name: BEAR POND State: ME Date: 25OCT84
Sample Type: REGULAR Latitude: 44-09'15"N Longitude: 70-43'00"W
Elevation: 115 Surface Temp: 12.0 Stratified: STRONG Site Depth: 21.3
Lake Area: 98 Watershed Area: 3788 WA/LA: 38.6 Hydro Type: DRAINAGE
Residence Time: 0.49 Secchi Depth: 4.9 Turbidity: 0.3 Color: 30
Closed pH: 6.92 Equil. pH: 7.18 ANC: 124.1 DOC: 3.24
Closed DIC: 1.56 Equil. DIC: 1.38 Meas. Cond: 35.7 Cal. Cond: 35.8
Ca: 134.2 Mg: 41.4 Na: 122.8 K: 12.8 NH4: 1.2
SO4: 83.5 HCO3: 102.1 Cl: 92.2 NO3: 0.0 F: 2.9
Sum Cations: 312.6 Sum Anions: 280.9 Cations/Anions: 1.11 Tot. P: 3.4
Tot. Al: 53.5 Ext. Al: 14.2 Fe: 49.0 Mn: 6.0 SiO2: 3.35

ID: 1C3-034 Name: HANSEN POND State: ME Date: 29OCT84
Sample Type: REGULAR Latitude: 43-35'45"N Longitude: 70-54'30"W
Elevation: 157 Surface Temp: 11.7 Stratified: MIXED Site Depth: 2.1
Lake Area: 10 Watershed Area: 88 WA/LA: 8.9 Hydro Type: DRAINAGE
Residence Time: 0.20 Secchi Depth: 1.2 Turbidity: 0.8 Color: 50
Closed pH: 6.40 Equil. pH: 7.41 ANC: 186.3 DOC: 7.16
Closed DIC: 3.65 Equil. DIC: 2.04 Meas. Cond: 30.8 Cal. Cond: 33.7
Ca: 152.9 Mg: 49.4 Na: 90.7 K: 13.0 NH4: 5.7
SO4: 52.4 HCO3: 161.9 Cl: 55.6 NO3: 0.8 F: 4.7
Sum Cations: 312.0 Sum Anions: 275.4 Cations/Anions: 1.13 Tot. P: 4.4
Tot. Al: 23.6 Ext. Al: 3.7 Fe: 293.0 Mn: 15.0 SiO2: 2.15

(continued)

TABLE 3-1 (continued)

ID: 1C3-040 Name: WHEELWRIGHT POND State: NH Date: 30OCT84
Sample Type: REGULAR Latitude: 43-08'20"N Longitude: 71-00'30"W
Elevation: 41 Surface Temp: 13.3 Stratified: MIXED Site Depth: 8.2
Lake Area: 41 Watershed Area: 448 WA/LA: 10.8 Hydro Type: DRAINAGE
Residence Time: 0.81 Secchi Depth: 2.3 Turbidity: 1.1 Color: 45
Closed pH: 7.05 Equil. pH: 7.62 ANC: 285.5 DOC: 5.67
Closed DIC: 3.68 Equil. DIC: 3.20 Meas. Cond: 80.4 Cal. Cond: 74.5
Ca: 303.6 Mg: 81.3 Na: 336.3 K: 21.1 NH4: 1.3
SO4: 120.4 HCO3: 236.7 Cl: 174.3 NO3: 0.1 F: 1.8
Sum Cations: 743.7 Sum Anions: 533.6 Cations/Anions: 1.39 Tot. P: 9.2
Tot. Al: 22.3 Ext. Al: 1.2 Fe: 173.0 Mn: 18.0 SiO2: 3.57

ID: 1C3-043 Name: ARLINGTON MILL RESERVOIR State: NH Date: 30OCT84
Sample Type: REGULAR Latitude: 42-49'15"N Longitude: 71-12'30"W
Elevation: 49 Surface Temp: 14.1 Stratified: MIXED Site Depth: 8.2
Lake Area: 111 Watershed Area: 5287 WA/LA: 47.7 Hydro Type: RESERVOIR
Residence Time: 0.20 Secchi Depth: 3.0 Turbidity: 0.7 Color: 20
Closed pH: 6.87 Equil. pH: 7.39 ANC: 171.7 DOC: 4.51
Closed DIC: 2.32 Equil. DIC: 1.96 Meas. Cond: 84.0 Cal. Cond: 92.6
Ca: 244.8 Mg: 70.4 Na: 380.2 K: 32.5 NH4: 1.9
SO4: 143.1 HCO3: 142.1 Cl: 456.0 NO3: 0.6 F: 2.1
Sum Cations: 730.0 Sum Anions: 744.0 Cations/Anions: 0.98 Tot. P: 6.0
Tot. Al: 27.4 Ext. Al: 0.4 Fe: 34.0 Mn: 8.0 SiO2: 1.01

ID: 1C3-044 Name: NATICOOK LAKE State: NH Date: 31OCT84
Sample Type: REGULAR Latitude: 42-49'10"N Longitude: 71-31'45"W
Elevation: 63 Surface Temp: 13.5 Stratified: MIXED Site Depth: 5.5
Lake Area: 30 Watershed Area: 153 WA/LA: 5.1 Hydro Type: DRAINAGE
Residence Time: 0.83 Secchi Depth: 5.5 Turbidity: 0.3 Color: 15
Closed pH: 6.80 Equil. pH: 7.53 ANC: 239.6 DOC: 3.49
Closed DIC: 3.47 Equil. DIC: 2.61 Meas. Cond: 168.5 Cal. Cond: 171.9
Ca: 331.8 Mg: 136.6 Na: 861.7 K: 51.7 NH4: 4.1
SO4: 143.6 HCO3: 209.4 Cl: 1004.1 NO3: 1.5 F: 2.4
Sum Cations: 1386.0 Sum Anions: 1361.1 Cations/Anions: 1.02 Tot. P: 7.4
Tot. Al: 19.0 Ext. Al: 1.8 Fe: 25.0 Mn: 2.0 SiO2: 1.07

ID: 1C3-045 Name: KENOZA LAKE State: MA Date: 31OCT84
Sample Type: REGULAR Latitude: 42-47'15"N Longitude: 71-03'30"W
Elevation: 34 Surface Temp: 13.6 Stratified: MIXED Site Depth: 11.6
Lake Area: 100 Watershed Area: 528 WA/LA: 5.3 Hydro Type: DRAINAGE
Residence Time: 2.08 Secchi Depth: 4.2 Turbidity: 0.5 Color: 20
Closed pH: 7.33 Equil. pH: 7.76 ANC: 363.5 DOC: 4.30
Closed DIC: 4.07 Equil. DIC: 4.05 Meas. Cond: 141.2 Cal. Cond: 150.0
Ca: 453.6 Mg: 163.7 Na: 569.8 K: 35.8 NH4: 1.1
SO4: 310.2 HCO3: 327.7 Cl: 570.0 NO3: 0.3 F: 2.6
Sum Cations: 1224.1 Sum Anions: 1211.6 Cations/Anions: 1.01 Tot. P: 15.0
Tot. Al: 37.3 Ext. Al: 2.2 Fe: 0.0 Mn: 4.0 SiO2: 2.43

ID: 1C3-047 Name: JOHNSONS POND State: MA Date: 31OCT84
Sample Type: REGULAR Latitude: 42-43'45"N Longitude: 71-03'15"W
Elevation: 21 Surface Temp: 13.9 Stratified: MIXED Site Depth: 6.1
Lake Area: 72 Watershed Area: 1334 WA/LA: 18.5 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 3.8 Turbidity: 0.8 Color: 25
Closed pH: 7.27 Equil. pH: 7.88 ANC: 469.3 DOC: 4.26
Closed DIC: 5.57 Equil. DIC: 5.25 Meas. Cond: 99.9 Cal. Cond: 104.6
Ca: 418.2 Mg: 171.9 Na: 264.1 K: 32.8 NH4: 4.3
SO4: 221.7 HCO3: 420.3 Cl: 234.5 NO3: 2.3 F: 2.6
Sum Cations: 891.3 Sum Anions: 882.2 Cations/Anions: 1.01 Tot. P: 18.6
Tot. Al: 26.6 Ext. Al: 3.1 Fe: 2.0 Mn: 7.0 SiO2: 0.80

(continued)

TABLE 3-1 (continued)

ID: 1C3-048 Name: ALTHEA LAKE State: MA Date: 31OCT84
Sample Type: REGULAR Latitude: 42-40'10"N Longitude: 71-22'50"W
Elevation: 47 Surface Temp: 13.5 Stratified: MIXED Site Depth: 3.0
Lake Area: 18 Watershed Area: 62 WA/LA: 3.5 Hydro Type: DRAINAGE
Residence Time: 0.72 Secchi Depth: 2.1 Turbidity: 1.0 Color: 40
Closed pH: 6.74 Equil. pH: 7.51 ANC: 250.6 DOC: 5.73
Closed DIC: 3.83 Equil. DIC: 2.67 Meas. Cond: 181.7 Cal. Cond: 189.6
Ca: 288.5 Mg: 87.1 Na: 1135.3 K: 43.0 NH4: 5.0
SO4: 138.9 HCO3: 211.9 Cl: 1134.7 NO3: 1.1 F: 2.9
Sum Cations: 1559.2 Sum Anions: 1489.5 Cations/Anions: 1.05 Tot. P: 15.2
Tot. Al: 19.2 Ext. Al: 2.7 Fe: 330.0 Mn: 14.0 SiO2: 0.56

ID: 1C3-050 Name: NEWFIELD POND State: MA Date: 31OCT84
Sample Type: REGULAR Latitude: 42-38'00"N Longitude: 71-23'20"W
Elevation: 37 Surface Temp: 13.7 Stratified: MIXED Site Depth: 6.4
Lake Area: 35 Watershed Area: 132 WA/LA: 3.8 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 2.1 Turbidity: 1.5 Color: 30
Closed pH: 7.13 Equil. pH: 7.90 ANC: 517.3 DOC: 4.65
Closed DIC: 6.45 Equil. DIC: 5.50 Meas. Cond: 244.7 Cal. Cond: 254.3
Ca: 578.3 Mg: 183.4 Na: 1265.0 K: 66.3 NH4: 3.3
SO4: 229.3 HCO3: 459.9 Cl: 1336.3 NO3: 6.9 F: 5.8
Sum Cations: 2096.5 Sum Anions: 2039.0 Cations/Anions: 1.03 Tot. P: 15.6
Tot. Al: 151.8 Ext. Al: 2.2 Fe: 91.0 Mn: 6.0 SiO2: 3.00

ID: 1C3-051 Name: SALEM POND State: VT Date: 18OCT84
Sample Type: REGULAR Latitude: 44-55'47"N Longitude: 72-06'17"W
Elevation: 294 Surface Temp: 12.1 Stratified: MIXED Site Depth: 7.1
Lake Area: 243 Watershed Area: 34092 WA/LA: 140.4 Hydro Type: DRAINAGE
Residence Time: 0.04 Secchi Depth: 3.9 Turbidity: 1.2 Color: 15
Closed pH: 7.83 Equil. pH: 8.21 ANC: 853.3 DOC: 3.70
Closed DIC: 9.93 Equil. DIC: 9.16 Meas. Cond: 117.8 Cal. Cond: 114.1
Ca: 823.8 Mg: 127.5 Na: 162.2 K: 27.5 NH4: 1.3
SO4: 128.0 HCO3: 780.0 Cl: 30.0 NO3: 3.2 F: 6.4
Sum Cations: 1142.3 Sum Anions: 952.1 Cations/Anions: 1.20 Tot. P: 18.0
Tot. Al: 125.5 Ext. Al: 8.9 Fe: 10.0 Mn: 35.0 SiO2: 4.32

ID: 1C3-055 Name: DARRAH POND State: NH Date: 31OCT84
Sample Type: REGULAR Latitude: 42-49'52"N Longitude: 71-26'40"W
Elevation: 58 Surface Temp: 13.3 Stratified: MIXED Site Depth: 7.3
Lake Area: 5 Watershed Area: 39 WA/LA: 7.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 7.3 Turbidity: 0.1 Color: 5
Closed pH: 4.45 Equil. pH: 4.51 ANC: -31.0 DOC: 0.53
Closed DIC: 0.52 Equil. DIC: 0.14 Meas. Cond: 26.3 Cal. Cond: 28.7
Ca: 25.0 Mg: 18.6 Na: 38.5 K: 10.8 NH4: 2.4
SO4: 91.4 HCO3: 0.5 Cl: 44.5 NO3: 9.4 F: 1.0
Sum Cations: 129.3 Sum Anions: 146.8 Cations/Anions: 0.88 Tot. P: 7.2
Tot. Al: 133.2 Ext. Al: 40.3 Fe: 14.0 Mn: 60.0 SiO2: 0.07

ID: 1C3-059 Name: (NO NAME) State: VT Date: 29OCT84
Sample Type: REGULAR Latitude: 44-32'06"N Longitude: 73-05'52"W
Elevation: 155 Surface Temp: 13.1 Stratified: MIXED Site Depth: 4.9
Lake Area: 20 Watershed Area: 287 WA/LA: 14.6 Hydro Type: RESERVOIR
Residence Time: 0.27 Secchi Depth: 1.4 Turbidity: 2.8 Color: 25
Closed pH: 7.62 Equil. pH: 8.29 ANC: 1094.9 DOC: 3.58
Closed DIC: 12.83 Equil. DIC: 12.23 Meas. Cond: 122.1 Cal. Cond: 125.1
Ca: 647.7 Mg: 440.1 Na: 68.0 K: 14.3 NH4: 3.4
SO4: 130.5 HCO3: 977.3 Cl: 52.2 NO3: 0.9 F: 1.9
Sum Cations: 1173.6 Sum Anions: 1168.7 Cations/Anions: 1.00 Tot. P: 13.4
Tot. Al: 50.7 Ext. Al: 4.7 Fe: 48.0 Mn: 155.0 SiO2: 0.88

(continued)

TABLE 3-1 (continued)

ID: 1C3-060 Name: STEARNS POND State: ME Date: 25OCT84
Sample Type: REGULAR Latitude: 44-07'20"N Longitude: 70-46'38"W
Elevation: 134 Surface Temp: 12.3 Stratified: MIXED Site Depth: 13.4
Lake Area: 100 Watershed Area: 2341 WA/LA: 23.4 Hydro Type: DRAINAGE
Residence Time: 0.50 Secchi Depth: 5.0 Turbidity: 0.3 Color: 25
Closed pH: 6.67 Equil. pH: 7.11 ANC: 87.2 DOC: 4.05
Closed DIC: 1.10 Equil. DIC: 0.91 Meas. Cond: 24.9 Cal. Cond: 25.5
Ca: 110.3 Mg: 31.4 Na: 79.4 K: 6.5 NH4: 2.9
SO4: 72.3 HCO3: 63.3 Cl: 49.5 NO3: 0.0 F: 2.5
Sum Cations: 230.7 Sum Anions: 187.6 Cations/Anions: 1.23 Tot. P: 3.8
Tot. Al: 75.2 Ext. Al: 13.0 Fe: 33.0 Mn: 17.0 SiO2: 3.46

ID: 1C3-061 Name: HOVEYS POND State: MA Date: 31OCT84
Sample Type: REGULAR Latitude: 42-43'05"N Longitude: 71-04'37"W
Elevation: 40 Surface Temp: 13.5 Stratified: WEAK Site Depth: 12.8
Lake Area: 15 Watershed Area: 91 WA/LA: 6.3 Hydro Type: DRAINAGE
Residence Time: 1.63 Secchi Depth: 2.3 Turbidity: 1.2 Color: 20
Closed pH: 7.49 Equil. pH: 7.81 ANC: 415.0 DOC: 5.13
Closed DIC: 4.61 Equil. DIC: 4.68 Meas. Cond: 120.6 Cal. Cond: 128.7
Ca: 481.0 Mg: 194.1 Na: 346.3 K: 41.1 NH4: 1.2
SO4: 311.1 HCO3: 367.4 Cl: 364.2 NO3: 0.8 F: 2.9
Sum Cations: 1063.8 Sum Anions: 1047.3 Cations/Anions: 1.02 Tot. P: 7.3
Tot. Al: 48.0 Ext. Al: 3.1 Fe: 0.0 Mn: 0.0 SiO2: 1.05

ID: 1C3-062 Name: (NO NAME) State: MA Date: 01NOV84
Sample Type: REGULAR Latitude: 42-36'50"N Longitude: 71-38'18"W
Elevation: 73 Surface Temp: 10.4 Stratified: MIXED Site Depth: 2.7
Lake Area: 15 Watershed Area: 18070 WA/LA: 1188.8 Hydro Type: DRAINAGE
Residence Time: 0.00 Secchi Depth: 3.1 Turbidity: 0.5 Color: 40
Closed pH: 6.49 Equil. pH: 7.51 ANC: 214.2 DOC: 3.97
Closed DIC: 3.88 Equil. DIC: 2.22 Meas. Cond: 117.9 Cal. Cond: 121.2
Ca: 222.8 Mg: 81.5 Na: 605.1 K: 61.0 NH4: 2.7
SO4: 133.7 HCO3: 168.5 Cl: 640.6 NO3: 19.0 F: 2.4
Sum Cations: 973.3 Sum Anions: 964.2 Cations/Anions: 1.01 Tot. P: 12.2
Tot. Al: 76.5 Ext. Al: 7.6 Fe: 272.0 Mn: 22.0 SiO2: 7.88

ID: 1C3-063 Name: MARTIN MEADOW POND State: NH Date: 25OCT84
Sample Type: REGULAR Latitude: 44-26'30"N Longitude: 71-36'30"W
Elevation: 326 Surface Temp: 11.5 Stratified: MIXED Site Depth: 7.9
Lake Area: 50 Watershed Area: 399 WA/LA: 8.0 Hydro Type: DRAINAGE
Residence Time: 0.64 Secchi Depth: 2.8 Turbidity: 1.0 Color: 35
Closed pH: 7.10 Equil. pH: 7.73 ANC: 340.2 DOC: 6.75
Closed DIC: 4.16 Equil. DIC: 3.73 Meas. Cond: 72.9 Cal. Cond: 78.4
Ca: 319.3 Mg: 85.5 Na: 252.2 K: 18.0 NH4: 1.3
SO4: 108.3 HCO3: 312.8 Cl: 236.9 NO3: 0.1 F: 1.8
Sum Cations: 676.4 Sum Anions: 660.3 Cations/Anions: 1.02 Tot. P: 9.6
Tot. Al: 40.2 Ext. Al: 5.5 Fe: 153.0 Mn: 49.0 SiO2: 2.82

ID: 1C3-064 Name: KETTLE POND State: VT Date: 25OCT84
Sample Type: REG/SPC/LTM/ Latitude: 44-17'40"N Longitude: 72-19'08"W
Elevation: 440 Surface Temp: 11.2 Stratified: MIXED Site Depth: 4.0
Lake Area: 44 Watershed Area: 355 WA/LA: 8.1 Hydro Type: DRAINAGE
Residence Time: 0.44 Secchi Depth: 1.6 Turbidity: 1.2 Color: 20
Closed pH: 6.87 Equil. pH: 7.07 ANC: 87.6 DOC: 5.39
Closed DIC: 0.97 Equil. DIC: 0.90 Meas. Cond: 24.5 Cal. Cond: 26.1
Ca: 142.7 Mg: 31.3 Na: 44.2 K: 8.2 NH4: 1.1
SO4: 113.2 HCO3: 72.2 Cl: 8.5 NO3: 0.3 F: 2.2
Sum Cations: 227.6 Sum Anions: 196.4 Cations/Anions: 1.16 Tot. P: 7.3
Tot. Al: 70.0 Ext. Al: 8.2 Fe: 1.0 Mn: 14.0 SiO2: 3.03

(continued)

TABLE 3-1 (continued)

ID: 1C3-065 Name: WALKER POND State: VT Date: 03NOV84
Sample Type: REGULAR Latitude: 43-44'33"N Longitude: 73-08'27"W
Elevation: 290 Surface Temp: 10.0 Stratified: MIXED Site Depth: 12.2
Lake Area: 5 Watershed Area: 370 WA/LA: 71.1 Hydro Type: DRAINAGE
Residence Time: 0.20 Secchi Depth: 2.9 Turbidity: 0.6 Color: 15
Closed pH: 7.57 Equil. pH: 8.13 ANC: 870.8 DOC: 3.70
Closed DIC: 9.93 Equil. DIC: 9.26 Meas. Cond: 100.9 Cal. Cond: 105.4
Ca: 758.5 Mg: 197.4 Na: 27.0 K: 7.1 NH4: 0.9
SO4: 152.7 HCO3: 776.8 Cl: 10.4 NO3: 0.0 F: 1.4
Sum Cations: 990.9 Sum Anions: 943.9 Cations/Anions: 1.05 Tot. P: 6.0
Tot. Al: 50.7 Ext. Al: 1.8 Fe: 9.0 Mn: 24.0 SiO2: 0.35

ID: 1C3-066 Name: LAKE PARAN State: VT Date: 04NOV84
Sample Type: REGULAR Latitude: 42-55'57"N Longitude: 73-14'00"W
Elevation: 197 Surface Temp: 7.9 Stratified: MIXED Site Depth: 2.4
Lake Area: 14 Watershed Area: 3649 WA/LA: 257.0 Hydro Type: DRAINAGE
Residence Time: 0.01 Secchi Depth: 2.4 Turbidity: 1.6 Color: 30
Closed pH: 8.09 Equil. pH: 8.76 ANC: 4046.6 DOC: 2.24
Closed DIC: 48.99 Equil. DIC: 46.91 Meas. Cond: 453.5 Cal. Cond: 519.1
Ca: 2526.9 Mg: 1711.0 Na: 536.8 K: 32.8 NH4: 1.9
SO4: 193.2 HCO3: 4051.3 Cl: 622.3 NO3: 11.6 F: 1.8
Sum Cations: 4809.4 Sum Anions: 4945.9 Cations/Anions: 0.97 Tot. P: 6.8
Tot. Al: 30.8 Ext. Al: 1.4 Fe: 31.0 Mn: 14.0 SiO2: 4.98

ID: 1C3-067 Name: WARREN POND State: ME Date: 30OCT84
Sample Type: REGULAR Latitude: 43-13'37"N Longitude: 70-43'40"W
Elevation: 54 Surface Temp: 13.1 Stratified: WEAK Site Depth: 9.4
Lake Area: 10 Watershed Area: 98 WA/LA: 9.8 Hydro Type: DRAINAGE
Residence Time: 1.01 Secchi Depth: 4.5 Turbidity: 0.5 Color: 10
Closed pH: 5.81 Equil. pH: 6.27 ANC: 18.5 DOC: 3.96
Closed DIC: 0.66 Equil. DIC: 0.28 Meas. Cond: 20.1 Cal. Cond: 22.2
Ca: 44.1 Mg: 32.8 Na: 90.1 K: 5.0 NH4: 1.4
SO4: 79.4 HCO3: 11.7 Cl: 67.6 NO3: 0.3 F: 4.1
Sum Cations: 175.0 Sum Anions: 163.2 Cations/Anions: 1.07 Tot. P: 7.5
Tot. Al: 79.1 Ext. Al: 21.2 Fe: 41.0 Mn: 13.0 SiO2: 2.32

ID: 1C3-068 Name: FRENCH POND State: NH Date: 25OCT84
Sample Type: REGULAR Latitude: 44-06'05"N Longitude: 71-58'08"W
Elevation: 234 Surface Temp: 11.4 Stratified: MIXED Site Depth: 6.4
Lake Area: 13 Watershed Area: 360 WA/LA: 28.1 Hydro Type: DRAINAGE
Residence Time: 0.20 Secchi Depth: 4.4 Turbidity: 0.5 Color: 25
Closed pH: 7.06 Equil. pH: 7.81 ANC: 371.3 DOC: 4.33
Closed DIC: 4.95 Equil. DIC: 4.26 Meas. Cond: 70.7 Cal. Cond: 74.4
Ca: 336.1 Mg: 102.5 Na: 151.9 K: 28.5 NH4: 1.3
SO4: 162.7 HCO3: 352.6 Cl: 132.9 NO3: 0.3 F: 4.3
Sum Cations: 620.3 Sum Anions: 653.5 Cations/Anions: 0.95 Tot. P: 9.6
Tot. Al: 10.0 Ext. Al: 5.5 Fe: 68.0 Mn: 2.0 SiO2: 7.37

ID: 1C3-069 Name: UNKNOWN POND State: ME Date: 18OCT84
Sample Type: REGULAR Latitude: 45-36'15"N Longitude: 70-38'04"W
Elevation: 491 Surface Temp: 8.9 Stratified: MIXED Site Depth: 2.1
Lake Area: 4 Watershed Area: 166 WA/LA: 37.7 Hydro Type: DRAINAGE
Residence Time: 0.05 Secchi Depth: 1.9 Turbidity: 0.5 Color: 20
Closed pH: 7.56 Equil. pH: 7.77 ANC: 388.6 DOC: 4.87
Closed DIC: 4.58 Equil. DIC: 4.20 Meas. Cond: 49.6 Cal. Cond: 51.6
Ca: 249.8 Mg: 192.9 Na: 46.2 K: 10.7 NH4: 0.7
SO4: 85.8 HCO3: 355.2 Cl: 6.9 NO3: 0.2 F: 1.5
Sum Cations: 500.4 Sum Anions: 450.8 Cations/Anions: 1.11 Tot. P: 14.7
Tot. Al: 41.2 Ext. Al: 16.6 Fe: 32.0 Mn: 24.0 SiO2: 3.05

(continued)

TABLE 3-1 (continued)

ID: 1C3-072 Name: LAKE ST. CATHERINE State: VT Date: 03NOV84
Sample Type: REGULAR Latitude: 43-27'30"N Longitude: 73-12'30"W
Elevation: 148 Surface Temp: 12.8 Stratified: MIXED Site Depth: 16.5
Lake Area: 350 Watershed Area: 2997 WA/LA: 8.6 Hydro Type: DRAINAGE
Residence Time: 2.02 Secchi Depth: 4.9 Turbidity: 0.7 Color: 15
Closed pH: 7.46 Equil. pH: 7.95 ANC: 567.2 DOC: 2.10
Closed DIC: 6.57 Equil. DIC: 6.04 Meas. Cond: 95.7 Cal. Cond: 103.2
Ca: 546.4 Mg: 166.2 Na: 177.4 K: 13.0 NH4: 1.2
SO4: 201.0 HCO3: 507.6 Cl: 171.8 NO3: 0.0 F: 1.2
Sum Cations: 904.2 Sum Anions: 882.9 Cations/Anions: 1.02 Tot. P: 7.0
Tot. Al: 39.0 Ext. Al: 1.5 Fe: 0.0 Mn: 29.0 SiO2: 1.23

ID: 1C3-073 Name: PONTOOSUC LAKE State: MA Date: 07NOV84
Sample Type: REGULAR Latitude: 42-30'00"N Longitude: 73-15'00"W
Elevation: 335 Surface Temp: 8.9 Stratified: MIXED Site Depth: 8.2
Lake Area: 214 Watershed Area: 5672 WA/LA: 26.5 Hydro Type: DRAINAGE
Residence Time: 0.22 Secchi Depth: 1.3 Turbidity: 2.5 Color: 15
Closed pH: 7.94 Equil. pH: 8.50 ANC: 1707.3 DOC: 1.82
Closed DIC: 19.18 Equil. DIC: 16.54 Meas. Cond: 206.5 Cal. Cond: 197.4
Ca: 1297.4 Mg: 51.4 Na: 270.5 K: 16.4 NH4: 3.6
SO4: 162.0 HCO3: 1493.8 Cl: 288.0 NO3: 1.3 F: 1.6
Sum Cations: 1639.3 Sum Anions: 1959.1 Cations/Anions: 0.84 Tot. P: 31.1
Tot. Al: 131.6 Ext. Al: 2.2 Fe: 55.0 Mn: 119.0 SiO2: 1.21

ID: 1C3-074 Name: BLACK BROOK POND State: ME Date: 19OCT84
Sample Type: REGULAR Latitude: 45-24'09"N Longitude: 69-53'52"W
Elevation: 272 Surface Temp: 10.1 Stratified: MIXED Site Depth: 1.2
Lake Area: 140 Watershed Area: 5322 WA/LA: 37.9 Hydro Type: DRAINAGE
Residence Time: 0.02 Secchi Depth: 0.5 Turbidity: 1.3 Color: 45
Closed pH: 7.64 Equil. pH: 7.28 ANC: 157.7 DOC: 11.42
Closed DIC: 1.14 Equil. DIC: 1.40 Meas. Cond: 29.5 Cal. Cond: 29.6
Ca: 175.2 Mg: 62.7 Na: 42.0 K: 7.7 NH4: 1.4
SO4: 84.6 HCO3: 118.5 Cl: 11.9 NO3: 0.0 F: 2.0
Sum Cations: 289.2 Sum Anions: 217.1 Cations/Anions: 1.33 Tot. P: 10.1
Tot. Al: 101.8 Ext. Al: 6.5 Fe: 14.0 Mn: 0.0 SiO2: 4.10

ID: 1D1-003 Name: QUEEN LAKE State: MA Date: 08NOV84
Sample Type: REGULAR Latitude: 42-32'00"N Longitude: 72-07'00"W
Elevation: 1128 Surface Temp: 8.9 Stratified: MIXED Site Depth: 4.9
Lake Area: 60 Watershed Area: 179 WA/LA: 3.0 Hydro Type: DRAINAGE
Residence Time: 1.00 Secchi Depth: 4.5 Turbidity: 0.5 Color: 5
Closed pH: 6.99 Equil. pH: 7.39 ANC: 79.9 DOC: 2.40
Closed DIC: 1.04 Equil. DIC: 0.92 Meas. Cond: 36.9 Cal. Cond: 37.8
Ca: 113.3 Mg: 42.0 Na: 127.0 K: 17.6 NH4: 0.0
SO4: 102.6 HCO3: 64.0 Cl: 127.5 NO3: 0.0 F: 5.3
Sum Cations: 300.1 Sum Anions: 299.5 Cations/Anions: 1.00 Tot. P: 8.0
Tot. Al: 37.0 Ext. Al: 1.0 Fe: 20.0 Mn: 0.0 SiO2: 0.16

ID: 1D1-004 Name: QUABBIN RESERVOIR State: MA Date: 03NOV84
Sample Type: REGULAR Latitude: 42-25'00"N Longitude: 72-17'30"W
Elevation: 524 Surface Temp: 13.7 Stratified: MIXED Site Depth: 7.6
Lake Area: 9059 Watershed Area: 46936 WA/LA: 5.2 Hydro Type: RESERVOIR
Residence Time: 1.12 Secchi Depth: 7.1 Turbidity: 0.2 Color: 5
Closed pH: 6.64 Equil. pH: 6.81 ANC: 50.3 DOC: 1.89
Closed DIC: 0.80 Equil. DIC: 0.58 Meas. Cond: 36.7 Cal. Cond: 37.1
Ca: 105.5 Mg: 41.8 Na: 125.1 K: 13.8 NH4: 1.3
SO4: 132.4 HCO3: 43.7 Cl: 111.0 NO3: 0.2 F: 2.2
Sum Cations: 287.7 Sum Anions: 289.4 Cations/Anions: 0.99 Tot. P: 3.3
Tot. Al: 12.0 Ext. Al: 3.1 Fe: 0.0 Mn: 0.0 SiO2: 1.09

(continued)

TABLE 3-1 (continued)

ID: 1D1-006 Name: WHITEHALL POND State: MA Date: 03NOV84
Sample Type: REGULAR Latitude: 42-22'15"N Longitude: 71-59'45"W
Elevation: 836 Surface Temp: 11.3 Stratified: MIXED Site Depth: 4.0
Lake Area: 10 Watershed Area: 1305 WA/LA: 126.7 Hydro Type: DRAINAGE
Residence Time: 0.02 Secchi Depth: 3.1 Turbidity: 0.4 Color: 10
Closed pH: 6.91 Equil. pH: 7.23 ANC: 152.5 DOC: 3.27
Closed DIC: 1.94 Equil. DIC: 1.72 Meas. Cond: 104.3 Cal. Cond: 110.1
Ca: 204.3 Mg: 66.5 Na: 546.4 K: 37.0 NH4: 1.1
SO4: 111.2 HCO3: 120.8 Cl: 652.5 NO3: 0.5 F: 2.5
Sum Cations: 855.4 Sum Anions: 887.6 Cations/Anions: 0.96 Tot. P: 6.7
Tot. Al: 27.1 Ext. Al: 1.2 Fe: 41.0 Mn: 2.0 SiO2: 0.29

ID: 1D1-007 Name: DEAN POND State: MA Date: 08NOV84
Sample Type: REGULAR Latitude: 42-20'45"N Longitude: 72-01'30"W
Elevation: 801 Surface Temp: 6.4 Stratified: MIXED Site Depth: 1.5
Lake Area: 25 Watershed Area: 531 WA/LA: 20.9 Hydro Type: DRAINAGE
Residence Time: 0.05 Secchi Depth: 1.5 Turbidity: 1.9 Color: 30
Closed pH: 6.92 Equil. pH: 7.31 ANC: 164.9 DOC: 4.80
Closed DIC: 2.01 Equil. DIC: 1.80 Meas. Cond: 56.2 Cal. Cond: 57.7
Ca: 163.2 Mg: 65.0 Na: 211.0 K: 37.3 NH4: 0.0
SO4: 93.7 HCO3: 127.1 Cl: 234.7 NO3: 0.1 F: 2.5
Sum Cations: 476.7 Sum Anions: 458.3 Cations/Anions: 1.04 Tot. P: 20.0
Tot. Al: 36.0 Ext. Al: 6.0 Fe: 70.0 Mn: 0.0 SiO2: 1.86

ID: 1D1-008 Name: KENDALL RESERVOIR State: MA Date: 12NOV84
Sample Type: REGULAR Latitude: 42-20'30"N Longitude: 71-53'30"W
Elevation: 813 Surface Temp: 10.4 Stratified: MIXED Site Depth: 6.1
Lake Area: 57 Watershed Area: 456 WA/LA: 8.0 Hydro Type: RESERVOIR
Residence Time: 0.52 Secchi Depth: 2.8 Turbidity: 0.8 Color: 15
Closed pH: 6.99 Equil. pH: 7.63 ANC: 116.5 DOC: 2.70
Closed DIC: 1.63 Equil. DIC: 1.46 Meas. Cond: 61.8 Cal. Cond: 63.4
Ca: 206.1 Mg: 68.3 Na: 207.5 K: 29.1 NH4: 0.0
SO4: 172.0 HCO3: 103.3 Cl: 215.0 NO3: 0.0 F: 3.4
Sum Cations: 511.1 Sum Anions: 493.7 Cations/Anions: 1.04 Tot. P: 4.0
Tot. Al: 17.0 Ext. Al: 2.0 Fe: 30.0 Mn: 10.0 SiO2: 1.56

ID: 1D1-009 Name: LARKUM POND State: MA Date: 07NOV84
Sample Type: REGULAR Latitude: 42-09'50"N Longitude: 73-03'30"W
Elevation: 1283 Surface Temp: 9.6 Stratified: WEAK Site Depth: 11.0
Lake Area: 7 Watershed Area: 91 WA/LA: 12.6 Hydro Type: DRAINAGE
Residence Time: 0.62 Secchi Depth: 2.2 Turbidity: 0.6 Color: 35
Closed pH: 7.03 Equil. pH: 7.68 ANC: 301.6 DOC: 4.47
Closed DIC: 3.78 Equil. DIC: 2.89 Meas. Cond: 65.6 Cal. Cond: 68.5
Ca: 265.0 Mg: 144.8 Na: 164.4 K: 19.2 NH4: 4.6
SO4: 157.2 HCO3: 249.0 Cl: 147.2 NO3: 0.1 F: 2.7
Sum Cations: 598.1 Sum Anions: 556.6 Cations/Anions: 1.07 Tot. P: 8.2
Tot. Al: 77.2 Ext. Al: 4.5 Fe: 46.0 Mn: 11.0 SiO2: 4.11

ID: 1D1-011 Name: (NO NAME) State: MA Date: 08NOV84
Sample Type: REGULAR Latitude: 42-03'00"N Longitude: 73-13'15"W
Elevation: 358 Surface Temp: 7.5 Stratified: MIXED Site Depth: 3.4
Lake Area: 27 Watershed Area: 445 WA/LA: 16.7 Hydro Type: RESERVOIR
Residence Time: 0.15 Secchi Depth: 1.8 Turbidity: 2.2 Color: 45
Closed pH: 7.34 Equil. pH: 8.20 ANC: 532.4 DOC: 5.30
Closed DIC: 6.63 Equil. DIC: 5.91 Meas. Cond: 65.5 Cal. Cond: 67.3
Ca: 345.8 Mg: 212.2 Na: 55.2 K: 20.7 NH4: 15.0
SO4: 74.3 HCO3: 492.5 Cl: 23.7 NO3: 2.5 F: 2.7
Sum Cations: 649.0 Sum Anions: 597.1 Cations/Anions: 1.09 Tot. P: 21.0
Tot. Al: 22.0 Ext. Al: 0.0 Fe: 250.0 Mn: 140.0 SiO2: 0.62

(continued)

TABLE 3-1 (continued)

ID: 1D1-012 Name: GOOSE POND State: MA Date: 08NOV84
Sample Type: REGULAR Latitude: 42-00'30"N Longitude: 72-46'37"W
Elevation: 226 Surface Temp: 9.8 Stratified: MIXED Site Depth: 4.9
Lake Area: 4 Watershed Area: 52 WA/LA: 12.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.5 Turbidity: 2.6 Color: 70
Closed pH: 6.47 Equil. pH: 7.76 ANC: 293.5 DOC: 7.70
Closed DIC: 6.52 Equil. DIC: 3.27 Meas. Cond: 53.8 Cal. Cond: 53.1
Ca: 243.5 Mg: 101.2 Na: 79.6 K: 35.5 NH4: 25.5
SO4: 105.3 HCO3: 288.5 Cl: 43.7 NO3: 0.1 F: 2.2
Sum Cations: 485.5 Sum Anions: 440.0 Cations/Anions: 1.10 Tot. P: 40.0
Tot. Al: 41.0 Ext. Al: 5.0 Fe: 260.0 Mn: 50.0 SiO2: 2.20

ID: 1D1-014 Name: HAMILTON RESERVOIR State: MA Date: 03NOV84
Sample Type: REGULAR Latitude: 42-02'19"N Longitude: 72-09'16"W
Elevation: 683 Surface Temp: 11.4 Stratified: MIXED Site Depth: 2.4
Lake Area: 163 Watershed Area: 2919 WA/LA: 17.9 Hydro Type: RESERVOIR
Residence Time: 0.10 Secchi Depth: 1.6 Turbidity: 2.3 Color: 20
Closed pH: 7.01 Equil. pH: 7.29 ANC: 140.8 DOC: 3.78
Closed DIC: 1.72 Equil. DIC: 1.54 Meas. Cond: 72.7 Cal. Cond: 76.5
Ca: 167.4 Mg: 121.7 Na: 290.1 K: 20.5 NH4: 1.3
SO4: 159.6 HCO3: 118.3 Cl: 338.0 NO3: 0.0 F: 1.8
Sum Cations: 601.2 Sum Anions: 617.9 Cations/Anions: 0.97 Tot. P: 12.7
Tot. Al: 114.4 Ext. Al: 1.6 Fe: 17.0 Mn: 4.0 SiO2: 2.12

ID: 1D1-015 Name: (NO NAME) State: CT Date: 13NOV84
Sample Type: REGULAR Latitude: 42-01'30"N Longitude: 72-08'15"W
Elevation: 213 Surface Temp: 8.8 Stratified: MIXED Site Depth: 0.9
Lake Area: 8 Watershed Area: 1000 WA/LA: 129.9 Hydro Type: DRAINAGE
Residence Time: 0.01 Secchi Depth: 1.0 Turbidity: 1.0 Color: 30
Closed pH: 6.68 Equil. pH: 7.37 ANC: 122.4 DOC: 2.60
Closed DIC: 2.01 Equil. DIC: 1.56 Meas. Cond: 101.5 Cal. Cond: 112.1
Ca: 258.0 Mg: 184.3 Na: 358.9 K: 29.9 NH4: 0.0
SO4: 253.6 HCO3: 113.2 Cl: 542.2 NO3: 0.0 F: 1.7
Sum Cations: 831.2 Sum Anions: 910.8 Cations/Anions: 0.91 Tot. P: 7.0
Tot. Al: 26.0 Ext. Al: 9.0 Fe: 310.0 Mn: 40.0 SiO2: 7.98

ID: 1D1-016 Name: MOREY POND State: CT Date: 13NOV84
Sample Type: REGULAR Latitude: 41-57'35"N Longitude: 72-11'35"W
Elevation: 958 Surface Temp: 9.0 Stratified: MIXED Site Depth: 3.7
Lake Area: 18 Watershed Area: 373 WA/LA: 20.7 Hydro Type: RESERVOIR
Residence Time: 0.13 Secchi Depth: 3.7 Turbidity: 1.2 Color: 20
Closed pH: 6.87 Equil. pH: 7.51 ANC: 153.4 DOC: 2.50
Closed DIC: 2.31 Equil. DIC: 1.91 Meas. Cond: 156.1 Cal. Cond: 168.4
Ca: 252.0 Mg: 180.1 Na: 813.0 K: 23.5 NH4: 7.2
SO4: 261.3 HCO3: 142.6 Cl: 959.1 NO3: 4.3 F: 1.7
Sum Cations: 1276.0 Sum Anions: 1369.1 Cations/Anions: 0.93 Tot. P: 15.0
Tot. Al: 17.0 Ext. Al: 1.0 Fe: 140.0 Mn: 90.0 SiO2: 3.19

ID: 1D1-017 Name: BISSONNETTE POND State: CT Date: 13NOV84
Sample Type: REGULAR Latitude: 41-55'25"N Longitude: 72-13'05"W
Elevation: 674 Surface Temp: 8.8 Stratified: MIXED Site Depth: 1.2
Lake Area: 20 Watershed Area: 963 WA/LA: 48.9 Hydro Type: RESERVOIR
Residence Time: 0.02 Secchi Depth: 1.4 Turbidity: 1.4 Color: 55
Closed pH: 6.96 Equil. pH: 7.45 ANC: 230.6 DOC: 5.30
Closed DIC: 2.83 Equil. DIC: 2.45 Meas. Cond: 106.9 Cal. Cond: 114.1
Ca: 299.4 Mg: 229.5 Na: 368.0 K: 36.3 NH4: 1.1
SO4: 191.5 HCO3: 191.9 Cl: 509.2 NO3: 1.6 F: 1.5
Sum Cations: 934.4 Sum Anions: 896.0 Cations/Anions: 1.04 Tot. P: 12.0
Tot. Al: 44.0 Ext. Al: 17.0 Fe: 220.0 Mn: 20.0 SiO2: 6.87

(continued)

TABLE 3-1 (continued)

ID: 1D1-018 Name: WILSON RESERVOIR State: RI Date: 08NOV84
Sample Type: REGULAR Latitude: 41-58'10"N Longitude: 71-43'45"W
Elevation: 439 Surface Temp: 7.9 Stratified: MIXED Site Depth: 2.1
Lake Area: 44 Watershed Area: 2530 WA/LA: 57.2 Hydro Type: RESERVOIR
Residence Time: 0.03 Secchi Depth: 1.8 Turbidity: 0.8 Color: 30
Closed pH: 6.18 Equil. pH: 6.61 ANC: 24.0 DOC: 4.35
Closed DIC: 0.71 Equil. DIC: 0.38 Meas. Cond: 51.8 Cal. Cond: 54.0
Ca: 104.0 Mg: 44.4 Na: 253.6 K: 26.5 NH4: 0.0
SO4: 141.3 HCO3: 21.2 Cl: 232.9 NO3: 0.0 F: 11.2
Sum Cations: 429.2 Sum Anions: 406.5 Cations/Anions: 1.06 Tot. P: 14.0
Tot. Al: 235.5 Ext. Al: 4.0 Fe: 95.0 Mn: 0.0 SiO2: 4.05

ID: 1D1-019 Name: WATERMAN POND State: RI Date: 04NOV84
Sample Type: REGULAR Latitude: 41-42'50"N Longitude: 71-43'45"W
Elevation: 462 Surface Temp: 9.5 Stratified: MIXED Site Depth: 0.9
Lake Area: 13 Watershed Area: 290 WA/LA: 22.3 Hydro Type: DRAINAGE
Residence Time: 0.04 Secchi Depth: 0.9 Turbidity: 0.6 Color: 35
Closed pH: 6.52 Equil. pH: 7.43 ANC: 185.7 DOC: 6.37
Closed DIC: 3.24 Equil. DIC: 1.90 Meas. Cond: 84.0 Cal. Cond: 88.2
Ca: 193.4 Mg: 76.1 Na: 372.4 K: 56.4 NH4: 1.9
SO4: 100.8 HCO3: 195.6 Cl: 423.2 NO3: 0.0 F: 10.3
Sum Cations: 700.4 Sum Anions: 730.1 Cations/Anions: 0.96 Tot. P: 27.6
Tot. Al: 42.0 Ext. Al: 6.6 Fe: 126.0 Mn: 5.0 SiO2: 1.16

ID: 1D1-020 Name: BAILEY POND State: CT Date: 04NOV84
Sample Type: REGULAR Latitude: 41-38'15"N Longitude: 71-47'30"W
Elevation: 328 Surface Temp: 10.2 Stratified: MIXED Site Depth: 1.5
Lake Area: 19 Watershed Area: 834 WA/LA: 45.1 Hydro Type: DRAINAGE
Residence Time: 0.03 Secchi Depth: 0.9 Turbidity: 1.9 Color: 80
Closed pH: 6.21 Equil. pH: 6.78 ANC: 63.3 DOC: 8.38
Closed DIC: 1.20 Equil. DIC: 0.49 Meas. Cond: 38.4 Cal. Cond: 39.6
Ca: 101.9 Mg: 64.8 Na: 136.2 K: 25.1 NH4: 1.1
SO4: 127.5 HCO3: 44.1 Cl: 114.4 NO3: 0.0 F: 3.9
Sum Cations: 329.8 Sum Anions: 290.0 Cations/Anions: 1.14 Tot. P: 33.7
Tot. Al: 133.1 Ext. Al: 13.5 Fe: 309.0 Mn: 15.0 SiO2: 3.99

ID: 1D1-021 Name: TIPPECANSETT POND State: RI Date: 04NOV84
Sample Type: REGULAR Latitude: 41-35'50"N Longitude: 71-47'00"W
Elevation: 396 Surface Temp: 10.2 Stratified: MIXED Site Depth: 1.5
Lake Area: 23 Watershed Area: 189 WA/LA: 8.1 Hydro Type: DRAINAGE
Residence Time: 0.15 Secchi Depth: 1.1 Turbidity: 1.6 Color: 70
Closed pH: 5.32 Equil. pH: 5.44 ANC: 10.9 DOC: 7.76
Closed DIC: 0.58 Equil. DIC: 0.18 Meas. Cond: 24.7 Cal. Cond: 25.3
Ca: 36.9 Mg: 31.8 Na: 106.0 K: 10.3 NH4: 2.7
SO4: 79.5 HCO3: 3.7 Cl: 84.5 NO3: 1.3 F: 4.8
Sum Cations: 192.8 Sum Anions: 173.8 Cations/Anions: 1.11 Tot. P: 6.9
Tot. Al: 90.7 Ext. Al: 15.4 Fe: 156.0 Mn: 12.0 SiO2: 2.60

ID: 1D1-022 Name: SECRET LAKE State: RI Date: 04NOV84
Sample Type: REGULAR Latitude: 41-33'15"N Longitude: 71-28'45"W
Elevation: 50 Surface Temp: 10.1 Stratified: MIXED Site Depth: 2.1
Lake Area: 19 Watershed Area: 355 WA/LA: 19.0 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 0.7 Turbidity: 0.6 Color: 100
Closed pH: 6.35 Equil. pH: 7.57 ANC: 285.3 DOC: 8.93
Closed DIC: 5.80 Equil. DIC: 3.03 Meas. Cond: 131.7 Cal. Cond: 143.6
Ca: 467.6 Mg: 225.4 Na: 364.5 K: 51.2 NH4: 24.8
SO4: 441.6 HCO3: 272.0 Cl: 398.2 NO3: 24.1 F: 7.1
Sum Cations: 1133.7 Sum Anions: 1143.1 Cations/Anions: 0.99 Tot. P: 12.3
Tot. Al: 122.4 Ext. Al: 13.8 Fe: 217.0 Mn: 317.0 SiO2: 11.77

(continued)

TABLE 3-1 (continued)

ID: 1D1-024 Name: THE RESERVOIR State: RI Date: 04NOV84
Sample Type: REGULAR Latitude: 41-32'25"N Longitude: 71-31'30"W
Elevation: 136 Surface Temp: 9.8 Stratified: MIXED Site Depth: 1.2
Lake Area: 9 Watershed Area: 593 WA/LA: 68.9 Hydro Type: RESERVOIR
Residence Time: 0.02 Secchi Depth: 1.0 Turbidity: 0.7 Color: 80
Closed pH: 6.46 Equil. pH: 7.43 ANC: 189.6 DOC: 6.78
Closed DIC: 3.43 Equil. DIC: 1.93 Meas. Cond: 114.1 Cal. Cond: 120.1
Ca: 235.3 Mg: 142.3 Na: 491.5 K: 47.7 NH4: 11.8
SO4: 270.9 HCO3: 195.0 Cl: 492.5 NO3: 18.1 F: 4.7
Sum Cations: 928.9 Sum Anions: 981.3 Cations/Anions: 0.95 Tot. P: 15.5
Tot. Al: 128.3 Ext. Al: 22.0 Fe: 257.0 Mn: 44.0 SiO2: 7.39

ID: 1D1-027 Name: SCHOOL HOUSE POND State: RI Date: 04NOV84
Sample Type: REGULAR Latitude: 41-24'00"N Longitude: 71-40'00"W
Elevation: 55 Surface Temp: 12.7 Stratified: MIXED Site Depth: 4.2
Lake Area: 39 Watershed Area: 477 WA/LA: 12.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.2 Turbidity: 0.4 Color: 18
Closed pH: 6.46 Equil. pH: 7.00 ANC: 71.8 DOC: 3.36
Closed DIC: 1.25 Equil. DIC: 0.81 Meas. Cond: 39.3 Cal. Cond: 41.3
Ca: 81.7 Mg: 51.7 Na: 188.1 K: 11.8 NH4: 1.5
SO4: 101.0 HCO3: 57.8 Cl: 159.3 NO3: 0.6 F: 6.3
Sum Cations: 335.1 Sum Anions: 325.1 Cations/Anions: 1.03 Tot. P: 6.4
Tot. Al: 27.9 Ext. Al: 1.9 Fe: 72.0 Mn: 16.0 SiO2: 2.68

ID: 1D1-029 Name: (NO NAME) State: MA Date: 06NOV84
Sample Type: REGULAR Latitude: 41-54'15"N Longitude: 70-51'30"W
Elevation: 108 Surface Temp: 10.3 Stratified: MIXED Site Depth: 0.9
Lake Area: 8 Watershed Area: 62 WA/LA: 7.6 Hydro Type: DRAINAGE
Residence Time: 0.10 Secchi Depth: 0.9 Turbidity: 0.4 Color: 60
Closed pH: 5.69 Equil. pH: 6.14 ANC: 27.3 DOC: 7.50
Closed DIC: 0.89 Equil. DIC: 0.23 Meas. Cond: 38.8 Cal. Cond: 40.8
Ca: 53.2 Mg: 57.4 Na: 199.8 K: 23.2 NH4: 0.8
SO4: 99.8 HCO3: 16.5 Cl: 174.6 NO3: 0.2 F: 3.1
Sum Cations: 336.2 Sum Anions: 294.3 Cations/Anions: 1.14 Tot. P: 59.0
Tot. Al: 68.8 Ext. Al: 26.7 Fe: 168.0 Mn: 49.0 SiO2: 2.26

ID: 1D1-030 Name: FRESH MEADOW POND State: MA Date: 12NOV84
Sample Type: REGULAR Latitude: 41-55'12"N Longitude: 70-44'30"W
Elevation: 109 Surface Temp: 12.9 Stratified: MIXED Site Depth: 1.0
Lake Area: 24 Watershed Area: 228 WA/LA: 9.4 Hydro Type: DRAINAGE
Residence Time: 0.09 Secchi Depth: 1.7 Turbidity: 0.9 Color: 25
Closed pH: 7.14 Equil. pH: 7.48 ANC: 116.3 DOC: 1.70
Closed DIC: 1.50 Equil. DIC: 1.41 Meas. Cond: 72.4 Cal. Cond: 77.8
Ca: 95.8 Mg: 110.2 Na: 353.7 K: 24.0 NH4: 0.0
SO4: 140.7 HCO3: 104.2 Cl: 382.0 NO3: 22.3 F: 1.7
Sum Cations: 583.8 Sum Anions: 651.0 Cations/Anions: 0.90 Tot. P: 19.0
Tot. Al: 17.0 Ext. Al: 0.0 Fe: 150.0 Mn: 0.0 SiO2: 5.53

ID: 1D1-031 Name: KINGS POND State: MA Date: 12NOV84
Sample Type: REGULAR Latitude: 41-54'40"N Longitude: 70-42'15"W
Elevation: 113 Surface Temp: 12.4 Stratified: MIXED Site Depth: 1.7
Lake Area: 9 Watershed Area: 57 WA/LA: 6.3 Hydro Type: DRAINAGE
Residence Time: 0.22 Secchi Depth: 1.7 Turbidity: 0.3 Color: 15
Closed pH: 5.43 Equil. pH: 5.85 ANC: 5.5 DOC: 2.90
Closed DIC: 0.79 Equil. DIC: 0.16 Meas. Cond: 57.4 Cal. Cond: 67.9
Ca: 44.4 Mg: 55.1 Na: 326.7 K: 15.3 NH4: 1.1
SO4: 156.1 HCO3: 6.3 Cl: 401.7 NO3: 0.0 F: 0.7
Sum Cations: 446.3 Sum Anions: 564.9 Cations/Anions: 0.79 Tot. P: 0.0
Tot. Al: 30.0 Ext. Al: 17.0 Fe: 40.0 Mn: 10.0 SiO2: 0.01

(continued)

TABLE 3-1 (continued)

ID: 1D1-033 Name: ISLAND POND State: MA Date: 12NOV84
Sample Type: REGULAR Latitude: 41-54'00"N Longitude: 70-38'30"W
Elevation: 88 Surface Temp: 12.1 Stratified: MIXED Site Depth: 3.9
Lake Area: 5 Watershed Area: 88 WA/LA: 17.6 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 2.7 Turbidity: 0.6 Color: 20
Closed pH: 5.83 Equil. pH: 6.32 ANC: 13.2 DOC: 2.50
Closed DIC: 0.55 Equil. DIC: 0.24 Meas. Cond: 46.8 Cal. Cond: 48.4
Ca: 37.4 Mg: 61.7 Na: 239.3 K: 21.2 NH4: 0.6
SO4: 103.5 HCO3: 10.9 Cl: 259.8 NO3: 1.5 F: 2.0
Sum Cations: 361.6 Sum Anions: 377.6 Cations/Anions: 0.96 Tot. P: 20.0
Tot. Al: 39.0 Ext. Al: 16.0 Fe: 130.0 Mn: 0.0 SiO2: 1.05

ID: 1D1-034 Name: ROCKY POND State: MA Date: 12NOV84
Sample Type: REGULAR Latitude: 41-53'10"N Longitude: 70-41'45"W
Elevation: 107 Surface Temp: 12.3 Stratified: MIXED Site Depth: 5.7
Lake Area: 8 Watershed Area: 54 WA/LA: 6.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 5.2 Turbidity: 0.3 Color: 5
Closed pH: 6.02 Equil. pH: 6.44 ANC: 11.7 DOC: 1.70
Closed DIC: 0.55 Equil. DIC: 0.32 Meas. Cond: 43.5 Cal. Cond: 45.3
Ca: 44.9 Mg: 67.5 Na: 211.0 K: 13.3 NH4: 0.6
SO4: 123.0 HCO3: 11.4 Cl: 217.5 NO3: 0.2 F: 1.0
Sum Cations: 338.4 Sum Anions: 353.2 Cations/Anions: 0.96 Tot. P: 2.0
Tot. Al: 10.0 Ext. Al: 2.0 Fe: 10.0 Mn: 0.0 SiO2: 0.90

ID: 1D1-035 Name: HALFWAY POND State: MA Date: 12NOV84
Sample Type: REGULAR Latitude: 41-51'15"N Longitude: 70-37'15"W
Elevation: 63 Surface Temp: 11.6 Stratified: MIXED Site Depth: 3.6
Lake Area: 87 Watershed Area: 275 WA/LA: 3.2 Hydro Type: DRAINAGE
Residence Time: 0.81 Secchi Depth: 3.4 Turbidity: 0.5 Color: 5
Closed pH: 6.84 Equil. pH: 6.99 ANC: 79.0 DOC: 0.90
Closed DIC: 1.25 Equil. DIC: 0.97 Meas. Cond: 44.9 Cal. Cond: 48.9
Ca: 61.9 Mg: 74.9 Na: 224.9 K: 12.5 NH4: 0.6
SO4: 99.1 HCO3: 75.6 Cl: 231.0 NO3: 0.0 F: 1.2
Sum Cations: 374.9 Sum Anions: 406.9 Cations/Anions: 0.92 Tot. P: 10.0
Tot. Al: 6.0 Ext. Al: 0.0 Fe: 30.0 Mn: 0.0 SiO2: 4.75

ID: 1D1-036 Name: CHARGE POND State: MA Date: 07NOV84
Sample Type: REGULAR Latitude: 41-49'00"N Longitude: 70-40'30"W
Elevation: 66 Surface Temp: 11.4 Stratified: MIXED Site Depth: 4.8
Lake Area: 7 Watershed Area: 88 WA/LA: 12.9 Hydro Type: DRAINAGE
Residence Time: 0.32 Secchi Depth: 4.8 Turbidity: 0.3 Color: 5
Closed pH: 6.16 Equil. pH: 6.42 ANC: 23.6 DOC: 1.38
Closed DIC: 0.45 Equil. DIC: 0.30 Meas. Cond: 36.8 Cal. Cond: 38.4
Ca: 32.0 Mg: 69.6 Na: 171.7 K: 13.7 NH4: 0.7
SO4: 116.6 HCO3: 17.8 Cl: 168.5 NO3: 0.0 F: 0.3
Sum Cations: 288.2 Sum Anions: 303.2 Cations/Anions: 0.95 Tot. P: 21.2
Tot. Al: 26.4 Ext. Al: 4.0 Fe: 0.0 Mn: 2.0 SiO2: 1.15

ID: 1D1-037 Name: EZEKIEL POND State: MA Date: 07NOV84
Sample Type: REGULAR Latitude: 41-48'15"N Longitude: 70-36'45"W
Elevation: 47 Surface Temp: 11.5 Stratified: MIXED Site Depth: 3.7
Lake Area: 14 Watershed Area: 49 WA/LA: 3.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.7 Turbidity: 0.6 Color: 10
Closed pH: 5.71 Equil. pH: 5.90 ANC: 10.4 DOC: 1.49
Closed DIC: 0.43 Equil. DIC: 0.19 Meas. Cond: 54.6 Cal. Cond: 55.9
Ca: 47.2 Mg: 64.2 Na: 286.9 K: 18.8 NH4: 0.8
SO4: 130.6 HCO3: 7.7 Cl: 293.2 NO3: 0.2 F: 0.8
Sum Cations: 419.7 Sum Anions: 432.5 Cations/Anions: 0.97 Tot. P: 11.6
Tot. Al: 40.9 Ext. Al: 6.8 Fe: 28.0 Mn: 8.0 SiO2: 0.61

(continued)

TABLE 3-1 (continued)

ID: 1D1-038 Name: LITTLE HERRING POND State: MA Date: 07NOV84
Sample Type: REGULAR Latitude: 41-49'30"N Longitude: 70-34'30"W
Elevation: 36 Surface Temp: 9.3 Stratified: MIXED Site Depth: 0.9
Lake Area: 33 Watershed Area: 106 WA/LA: 3.3 Hydro Type: DRAINAGE
Residence Time: 0.20 Secchi Depth: 0.9 Turbidity: 0.2 Color: 10
Closed pH: 6.75 Equil. pH: 7.21 ANC: 125.9 DOC: 1.06
Closed DIC: 1.95 Equil. DIC: 1.45 Meas. Cond: 51.2 Cal. Cond: 53.8
Ca: 56.3 Mg: 77.4 Na: 268.0 K: 17.3 NH4: 0.9
SO4: 99.1 HCO3: 121.0 Cl: 238.4 NO3: 0.0 F: 1.4
Sum Cations: 419.9 Sum Anions: 460.0 Cations/Anions: 0.91 Tot. P: 20.3
Tot. Al: 20.9 Ext. Al: 2.5 Fe: 9.0 Mn: 6.0 SiO2: 7.22

ID: 1D1-039 Name: FLAX POND State: MA Date: 06NOV84
Sample Type: REGULAR Latitude: 41-43'00"N Longitude: 70-11'20"W
Elevation: 30 Surface Temp: 13.3 Stratified: MIXED Site Depth: 5.2
Lake Area: 6 Watershed Area: 34 WA/LA: 5.6 Hydro Type: DRAINAGE
Residence Time: 0.74 Secchi Depth: 3.6 Turbidity: 0.3 Color: 10
Closed pH: 4.54 Equil. pH: 4.56 ANC: -24.5 DOC: 0.17
Closed DIC: 0.29 Equil. DIC: 0.16 Meas. Cond: 79.5 Cal. Cond: 84.6
Ca: 57.7 Mg: 91.3 Na: 357.1 K: 17.6 NH4: 4.5
SO4: 194.2 HCO3: 0.4 Cl: 404.1 NO3: 7.6 F: 0.8
Sum Cations: 556.4 Sum Anions: 607.2 Cations/Anions: 0.92 Tot. P: 7.8
Tot. Al: 190.3 Ext. Al: 186.7 Fe: 40.0 Mn: 34.0 SiO2: 0.12

ID: 1D1-043 Name: SPECTACLE POND State: MA Date: 07NOV84
Sample Type: REGULAR Latitude: 41-42'15"N Longitude: 70-27'30"W
Elevation: 63 Surface Temp: 13.0 Stratified: MIXED Site Depth: 12.8
Lake Area: 39 Watershed Area: 505 WA/LA: 13.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.0 Turbidity: 0.4 Color: 10
Closed pH: 6.99 Equil. pH: 7.30 ANC: 133.1 DOC: 1.86
Closed DIC: 1.76 Equil. DIC: 1.54 Meas. Cond: 62.0 Cal. Cond: 65.0
Ca: 147.3 Mg: 75.8 Na: 276.1 K: 10.4 NH4: 0.8
SO4: 127.8 HCO3: 120.5 Cl: 287.1 NO3: 0.0 F: 1.2
Sum Cations: 510.5 Sum Anions: 536.9 Cations/Anions: 0.95 Tot. P: 10.2
Tot. Al: 61.7 Ext. Al: 1.9 Fe: 0.0 Mn: 0.0 SiO2: 0.46

ID: 1D1-046 Name: ROBBINS POND State: MA Date: 06NOV84
Sample Type: REGULAR Latitude: 41-42'20"N Longitude: 70-06'40"W
Elevation: 29 Surface Temp: 12.2 Stratified: MIXED Site Depth: 3.0
Lake Area: 12 Watershed Area: 49 WA/LA: 4.3 Hydro Type: DRAINAGE
Residence Time: 0.54 Secchi Depth: 3.0 Turbidity: 0.3 Color: 10
Closed pH: 5.84 Equil. pH: 6.26 ANC: 19.1 DOC: 2.87
Closed DIC: 0.61 Equil. DIC: 0.28 Meas. Cond: 64.3 Cal. Cond: 66.6
Ca: 38.2 Mg: 102.0 Na: 351.5 K: 19.1 NH4: 1.9
SO4: 114.5 HCO3: 14.3 Cl: 383.5 NO3: 3.8 F: 1.2
Sum Cations: 513.8 Sum Anions: 517.3 Cations/Anions: 0.99 Tot. P: 9.5
Tot. Al: 23.9 Ext. Al: 5.8 Fe: 29.0 Mn: 11.0 SiO2: 0.13

ID: 1D1-049 Name: LANE POND State: CT Date: 08NOV84
Sample Type: REGULAR Latitude: 41-24'05"N Longitude: 72-44'05"W
Elevation: 555 Surface Temp: 5.7 Stratified: MIXED Site Depth: 0.8
Lake Area: 7 Watershed Area: 145 WA/LA: 19.9 Hydro Type: DRAINAGE
Residence Time: 0.04 Secchi Depth: 0.8 Turbidity: 1.4 Color: 20
Closed pH: 7.22 Equil. pH: 7.64 ANC: 151.8 DOC: 4.50
Closed DIC: 1.79 Equil. DIC: 1.71 Meas. Cond: 47.6 Cal. Cond: 47.7
Ca: 168.2 Mg: 128.3 Na: 96.6 K: 9.2 NH4: 1.1
SO4: 178.2 HCO3: 130.7 Cl: 67.4 NO3: 0.0 F: 1.2
Sum Cations: 403.5 Sum Anions: 377.7 Cations/Anions: 1.07 Tot. P: 26.0
Tot. Al: 49.0 Ext. Al: 1.0 Fe: 60.0 Mn: 0.0 SiO2: 1.11

(continued)

TABLE 3-1 (continued)

ID: 1D1-050 Name: FOSTERS POND State: CT Date: 08NOV84
Sample Type: REGULAR Latitude: 41-21'30"N Longitude: 72-35'05"W
Elevation: 113 Surface Temp: 9.1 Stratified: MIXED Site Depth: 2.5
Lake Area: 13 Watershed Area: 2419 WA/LA: 181.9 Hydro Type: RESERVOIR
Residence Time: 0.01 Secchi Depth: 1.3 Turbidity: 1.3 Color: 85
Closed pH: 6.59 Equil. pH: 7.53 ANC: 140.3 DOC: 8.20
Closed DIC: 2.31 Equil. DIC: 1.45 Meas. Cond: 62.7 Cal. Cond: 64.0
Ca: 193.6 Mg: 93.8 Na: 202.7 K: 38.4 NH4: 1.1
SO4: 164.1 HCO3: 119.7 Cl: 205.1 NO3: 2.5 F: 1.9
Sum Cations: 529.8 Sum Anions: 493.3 Cations/Anions: 1.07 Tot. P: 15.0
Tot. Al: 102.0 Ext. Al: 13.0 Fe: 330.0 Mn: 30.0 SiO2: 10.20

ID: 1D1-052 Name: STREETER POND State: MA Date: 12NOV84
Sample Type: REGULAR Latitude: 42-20'11"N Longitude: 71-54'33"W
Elevation: 1039 Surface Temp: 10.4 Stratified: MIXED Site Depth: 1.2
Lake Area: 7 Watershed Area: 174 WA/LA: 24.2 Hydro Type: DRAINAGE
Residence Time: 0.04 Secchi Depth: 1.5 Turbidity: 0.4 Color: 15
Closed pH: 6.72 Equil. pH: 7.17 ANC: 112.4 DOC: 3.85
Closed DIC: 1.61 Equil. DIC: 1.31 Meas. Cond: 47.3 Cal. Cond: 47.2
Ca: 127.2 Mg: 46.1 Na: 188.4 K: 27.6 NH4: 0.8
SO4: 98.4 HCO3: 93.6 Cl: 175.7 NO3: 0.4 F: 1.8
Sum Cations: 390.3 Sum Anions: 370.0 Cations/Anions: 1.05 Tot. P: 10.5
Tot. Al: 25.5 Ext. Al: 5.5 Fe: 45.0 Mn: 0.0 SiO2: 0.51

ID: 1D1-054 Name: UPPER MILLPOND State: MA Date: 06NOV84
Sample Type: REGULAR Latitude: 41-43'51"N Longitude: 70-07'00"W
Elevation: 26 Surface Temp: 13.2 Stratified: MIXED Site Depth: 8.5
Lake Area: 101 Watershed Area: 526 WA/LA: 5.2 Hydro Type: RESERVOIR
Residence Time: 1.28 Secchi Depth: 1.3 Turbidity: 2.4 Color: 25
Closed pH: 6.73 Equil. pH: 6.96 ANC: 69.4 DOC: 2.42
Closed DIC: 1.04 Equil. DIC: 0.82 Meas. Cond: 74.2 Cal. Cond: 80.5
Ca: 86.7 Mg: 116.8 Na: 402.8 K: 17.3 NH4: 6.1
SO4: 141.9 HCO3: 48.0 Cl: 438.7 NO3: 1.8 F: 1.8
Sum Cations: 630.0 Sum Anions: 632.2 Cations/Anions: 1.00 Tot. P: 38.0
Tot. Al: 8.4 Ext. Al: 1.3 Fe: 45.0 Mn: 2.0 SiO2: 1.39

ID: 1D1-055 Name: BORDEN BROOK RESERVOIR State: MA Date: 08NOV84
Sample Type: REGULAR Latitude: 42-07'47"N Longitude: 72-56'45"W
Elevation: 326 Surface Temp: 10.1 Stratified: MIXED Site Depth: 11.0
Lake Area: 83 Watershed Area: 2064 WA/LA: 25.0 Hydro Type: RESERVOIR
Residence Time: 0.32 Secchi Depth: 2.1 Turbidity: 2.6 Color: 40
Closed pH: 6.36 Equil. pH: 7.21 ANC: 47.2 DOC: 3.40
Closed DIC: 1.16 Equil. DIC: 0.69 Meas. Cond: 28.0 Cal. Cond: 31.6
Ca: 103.8 Mg: 50.2 Na: 55.2 K: 10.0 NH4: 4.4
SO4: 165.3 HCO3: 44.2 Cl: 43.4 NO3: 1.7 F: 3.7
Sum Cations: 224.0 Sum Anions: 258.4 Cations/Anions: 0.87 Tot. P: 10.0
Tot. Al: 106.0 Ext. Al: 9.0 Fe: 410.0 Mn: 130.0 SiO2: 3.66

ID: 1D1-056 Name: LITTLE WEST POND State: MA Date: 12NOV84
Sample Type: REGULAR Latitude: 41-55'17"N Longitude: 70-42'24"W
Elevation: 36 Surface Temp: 12.1 Stratified: MIXED Site Depth: 5.1
Lake Area: 10 Watershed Area: 49 WA/LA: 4.9 Hydro Type: DRAINAGE
Residence Time: 0.81 Secchi Depth: 4.9 Turbidity: 0.3 Color: 10
Closed pH: 5.73 Equil. pH: 5.89 ANC: 4.1 DOC: 2.30
Closed DIC: 0.25 Equil. DIC: 0.22 Meas. Cond: 47.7 Cal. Cond: 49.8
Ca: 47.9 Mg: 67.5 Na: 228.4 K: 17.4 NH4: 0.0
SO4: 114.9 HCO3: 5.0 Cl: 265.2 NO3: 2.1 F: 1.2
Sum Cations: 363.4 Sum Anions: 388.4 Cations/Anions: 0.94 Tot. P: 0.0
Tot. Al: 16.0 Ext. Al: 7.0 Fe: 10.0 Mn: 0.0 SiO2: 0.00

(continued)

TABLE 3-1 (continued)

ID: 1D1-058 Name: GRIGGS POND State: CT Date: 13NOV84
Sample Type: REGULAR Latitude: 42-00'07"N Longitude: 72-05'14"W
Elevation: 727 Surface Temp: 7.9 Stratified: MIXED Site Depth: 0.9
Lake Area: 15 Watershed Area: 500 WA/LA: 34.3 Hydro Type: RESERVOIR
Residence Time: 0.02 Secchi Depth: 0.9 Turbidity: 0.5 Color: 70
Closed pH: 6.46 Equil. pH: 7.45 ANC: 208.8 DOC: 9.60
Closed DIC: 3.68 Equil. DIC: 2.07 Meas. Cond: 39.8 Cal. Cond: 40.3
Ca: 186.1 Mg: 91.3 Na: 89.2 K: 14.3 NH4: 0.0
SO4: 69.3 HCO3: 169.5 Cl: 73.3 NO3: 0.5 F: 1.1
Sum Cations: 381.2 Sum Anions: 313.8 Cations/Anions: 1.21 Tot. P: 18.0
Tot. Al: 33.0 Ext. Al: 23.0 Fe: 150.0 Mn: 20.0 SiO2: 3.34

ID: 1D1-059 Name: LARKIN POND State: RI Date: 04NOV84
Sample Type: REGULAR Latitude: 41-28'12"N Longitude: 71-33'30"W
Elevation: 95 Surface Temp: 13.1 Stratified: MIXED Site Depth: 8.8
Lake Area: 17 Watershed Area: 34 WA/LA: 2.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.5 Turbidity: 0.6 Color: 15
Closed pH: 7.00 Equil. pH: 7.57 ANC: 252.8 DOC: 2.63
Closed DIC: 3.27 Equil. DIC: 2.78 Meas. Cond: 77.7 Cal. Cond: 82.0
Ca: 187.3 Mg: 109.4 Na: 346.3 K: 26.2 NH4: 3.2
SO4: 106.5 HCO3: 228.5 Cl: 331.8 NO3: 0.4 F: 26.0
Sum Cations: 672.5 Sum Anions: 693.4 Cations/Anions: 0.97 Tot. P: 7.5
Tot. Al: 17.9 Ext. Al: 1.4 Fe: 103.0 Mn: 24.0 SiO2: 2.12

ID: 1D1-060 Name: WHITE POND State: MA Date: 06NOV84
Sample Type: REGULAR Latitude: 41-42'07"N Longitude: 70-08'02"W
Elevation: 27 Surface Temp: 13.2 Stratified: MIXED Site Depth: 5.5
Lake Area: 4 Watershed Area: 26 WA/LA: 6.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.1 Turbidity: 0.5 Color: 5
Closed pH: 6.47 Equil. pH: 6.78 ANC: 38.6 DOC: 1.77
Closed DIC: 0.66 Equil. DIC: 0.51 Meas. Cond: 62.1 Cal. Cond: 67.7
Ca: 68.3 Mg: 99.5 Na: 335.8 K: 14.7 NH4: 1.2
SO4: 116.3 HCO3: 33.4 Cl: 385.2 NO3: 0.3 F: 0.6
Sum Cations: 519.9 Sum Anions: 535.8 Cations/Anions: 0.97 Tot. P: 7.8
Tot. Al: 35.0 Ext. Al: 0.6 Fe: 7.0 Mn: 8.0 SiO2: 0.37

ID: 1D1-061 Name: ROUND POND State: MA Date: 07NOV84
Sample Type: REGULAR Latitude: 41-51'08"N Longitude: 70-36'17"W
Elevation: 64 Surface Temp: 12.4 Stratified: MIXED Site Depth: 7.3
Lake Area: 8 Watershed Area: 39 WA/LA: 4.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.9 Turbidity: 0.7 Color: 10
Closed pH: 5.78 Equil. pH: 6.06 ANC: 12.2 DOC: 1.27
Closed DIC: 0.51 Equil. DIC: 0.21 Meas. Cond: 47.1 Cal. Cond: 48.6
Ca: 40.9 Mg: 60.0 Na: 243.3 K: 13.9 NH4: 0.8
SO4: 127.5 HCO3: 8.7 Cl: 244.9 NO3: 0.0 F: 0.7
Sum Cations: 360.1 Sum Anions: 381.9 Cations/Anions: 0.94 Tot. P: 7.2
Tot. Al: 34.9 Ext. Al: 3.4 Fe: 31.0 Mn: 12.0 SiO2: 0.18

ID: 1D1-062 Name: SANTUIT POND State: MA Date: 07NOV84
Sample Type: REGULAR Latitude: 41-39'14"N Longitude: 70-27'30"W
Elevation: 43 Surface Temp: 11.0 Stratified: MIXED Site Depth: 1.5
Lake Area: 66 Watershed Area: 254 WA/LA: 3.8 Hydro Type: RESERVOIR
Residence Time: 0.29 Secchi Depth: 1.5 Turbidity: 0.4 Color: 20
Closed pH: 7.04 Equil. pH: 7.32 ANC: 150.6 DOC: 2.00
Closed DIC: 1.78 Equil. DIC: 1.73 Meas. Cond: 71.6 Cal. Cond: 74.6
Ca: 82.9 Mg: 113.5 Na: 371.5 K: 22.8 NH4: 0.8
SO4: 118.0 HCO3: 140.4 Cl: 360.3 NO3: 0.0 F: 1.5
Sum Cations: 591.6 Sum Anions: 620.4 Cations/Anions: 0.95 Tot. P: 17.0
Tot. Al: 12.9 Ext. Al: 2.3 Fe: 58.0 Mn: 4.0 SiO2: 0.75

(continued)

TABLE 3-1 (continued)

ID: 1D1-064 Name: SNOW POND State: MA Date: 08NOV84
Sample Type: REGULAR Latitude: 42-26'54"N Longitude: 71-50'50"W
Elevation: 655 Surface Temp: 6.7 Stratified: MIXED Site Depth: 1.6
Lake Area: 7 Watershed Area: 150 WA/LA: 23.1 Hydro Type: DRAINAGE
Residence Time: 0.05 Secchi Depth: 1.6 Turbidity: 0.3 Color: 20
Closed pH: 6.08 Equil. pH: 6.82 ANC: 13.3 DOC: 2.90
Closed DIC: 0.83 Equil. DIC: 0.41 Meas. Cond: 67.9 Cal. Cond: 69.6
Ca: 106.3 Mg: 35.4 Na: 373.7 K: 14.6 NH4: 0.0
SO4: 109.3 HCO3: 22.6 Cl: 410.7 NO3: 0.3 F: 3.4
Sum Cations: 530.8 Sum Anions: 546.3 Cations/Anions: 0.97 Tot. P: 7.0
Tot. Al: 35.0 Ext. Al: 16.0 Fe: 30.0 Mn: 0.0 SiO2: 0.60

ID: 1D1-065 Name: ASHVILLE POND State: RI Date: 04NOV84
Sample Type: REGULAR Latitude: 41-30'03"N Longitude: 71-45'23"W
Elevation: 158 Surface Temp: 12.5 Stratified: MIXED Site Depth: 3.0
Lake Area: 10 Watershed Area: 67 WA/LA: 6.4 Hydro Type: DRAINAGE
Residence Time: 0.37 Secchi Depth: 3.0 Turbidity: 0.2 Color: 10
Closed pH: 5.05 Equil. pH: 5.08 ANC: -5.3 DOC: 2.03
Closed DIC: 0.40 Equil. DIC: 0.18 Meas. Cond: 29.5 Cal. Cond: 29.5
Ca: 39.0 Mg: 29.9 Na: 112.0 K: 4.7 NH4: 0.8
SO4: 113.0 HCO3: 1.8 Cl: 92.2 NO3: 0.1 F: 2.7
Sum Cations: 195.6 Sum Anions: 209.8 Cations/Anions: 0.93 Tot. P: 3.5
Tot. Al: 76.4 Ext. Al: 29.3 Fe: 28.0 Mn: 55.0 SiO2: 0.57

ID: 1D1-066 Name: LAKE MISHNOCK State: RI Date: 04NOV84
Sample Type: REGULAR Latitude: 41-39'14"N Longitude: 71-35'29"W
Elevation: 251 Surface Temp: 11.2 Stratified: MIXED Site Depth: 4.0
Lake Area: 19 Watershed Area: 52 WA/LA: 2.7 Hydro Type: DRAINAGE
Residence Time: 1.02 Secchi Depth: 4.0 Turbidity: 0.5 Color: 15
Closed pH: 6.70 Equil. pH: 7.54 ANC: 244.8 DOC: 1.52
Closed DIC: 3.87 Equil. DIC: 2.70 Meas. Cond: 182.1 Cal. Cond: 197.8
Ca: 360.6 Mg: 119.3 Na: 1010.9 K: 38.1 NH4: 5.5
SO4: 161.6 HCO3: 248.9 Cl: 1188.1 NO3: 17.4 F: 3.7
Sum Cations: 1534.5 Sum Anions: 1620.1 Cations/Anions: 0.95 Tot. P: 5.5
Tot. Al: 22.5 Ext. Al: 2.4 Fe: 81.0 Mn: 45.0 SiO2: 6.91

ID: 1D1-067 Name: ROUND POND State: RI Date: 08NOV84
Sample Type: REGULAR Latitude: 41-58'17"N Longitude: 71-46'20"W
Elevation: 653 Surface Temp: 8.6 Stratified: MIXED Site Depth: 6.7
Lake Area: 6 Watershed Area: 49 WA/LA: 7.9 Hydro Type: DRAINAGE
Residence Time: 0.70 Secchi Depth: 1.4 Turbidity: 0.8 Color: 40
Closed pH: 5.24 Equil. pH: 5.59 ANC: -11.4 DOC: 4.50
Closed DIC: 1.15 Equil. DIC: 0.17 Meas. Cond: 43.4 Cal. Cond: 44.3
Ca: 62.4 Mg: 33.7 Na: 207.5 K: 16.6 NH4: 0.0
SO4: 131.6 HCO3: 6.4 Cl: 180.5 NO3: 0.2 F: 16.3
Sum Cations: 325.0 Sum Anions: 335.0 Cations/Anions: 0.97 Tot. P: 14.0
Tot. Al: 241.0 Ext. Al: 79.0 Fe: 200.0 Mn: 40.0 SiO2: 3.60

ID: 1D1-068 Name: LITTLE SANDY POND State: MA Date: 07NOV84
Sample Type: REGULAR Latitude: 41-47'47"N Longitude: 70-36'13"W
Elevation: 46 Surface Temp: 11.1 Stratified: MIXED Site Depth: 4.0
Lake Area: 12 Watershed Area: 26 WA/LA: 2.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.0 Turbidity: 0.2 Color: 10
Closed pH: 4.82 Equil. pH: 4.81 ANC: -8.4 DOC: 1.12
Closed DIC: 0.34 Equil. DIC: 0.15 Meas. Cond: 52.8 Cal. Cond: 53.8
Ca: 33.0 Mg: 55.2 Na: 237.6 K: 17.3 NH4: 8.7
SO4: 116.1 HCO3: 0.7 Cl: 263.3 NO3: 4.6 F: 0.7
Sum Cations: 367.0 Sum Anions: 385.5 Cations/Anions: 0.95 Tot. P: 13.9
Tot. Al: 75.3 Ext. Al: 44.5 Fe: 30.0 Mn: 36.0 SiO2: 0.28

(continued)

TABLE 3-1 (continued)

ID: 1D2-003 Name: BOONS POND State: MA Date: 04NOV84
Sample Type: REGULAR Latitude: 42-24'12"N Longitude: 71-30'08"W
Elevation: 57 Surface Temp: 12.1 Stratified: MIXED Site Depth: 6.0
Lake Area: 69 Watershed Area: 306 WA/LA: 4.5 Hydro Type: DRAINAGE
Residence Time: 1.02 Secchi Depth: 1.8 Turbidity: 1.2 Color: 20
Closed pH: 6.68 Equil. pH: 7.23 ANC: 223.4 DOC: 2.54
Closed DIC: 3.56 Equil. DIC: 2.69 Meas. Cond: 97.9 Cal. Cond: 103.5
Ca: 195.2 Mg: 71.2 Na: 536.4 K: 28.4 NH4: 10.3
SO4: 107.3 HCO3: 213.2 Cl: 525.4 NO3: 1.3 F: 2.3
Sum Cations: 841.6 Sum Anions: 849.7 Cations/Anions: 0.99 Tot. P: 15.6
Tot. Al: 18.7 Ext. Al: 1.4 Fe: 25.0 Mn: 13.0 SiO2: 2.09

ID: 1D2-005 Name: GREENWOOD POND State: MA Date: 08NOV84
Sample Type: REGULAR Latitude: 42-33'15"N Longitude: 71-57'15"W
Elevation: 1095 Surface Temp: 5.6 Stratified: MIXED Site Depth: 1.4
Lake Area: 11 Watershed Area: 80 WA/LA: 7.0 Hydro Type: DRAINAGE
Residence Time: 0.13 Secchi Depth: 1.4 Turbidity: 0.6 Color: 35
Closed pH: 6.44 Equil. pH: 7.24 ANC: 75.5 DOC: 6.70
Closed DIC: 1.34 Equil. DIC: 0.76 Meas. Cond: 155.3 Cal. Cond: 164.7
Ca: 150.2 Mg: 54.3 Na: 1053.1 K: 23.0 NH4: 0.0
SO4: 115.6 HCO3: 54.8 Cl: 1132.6 NO3: 0.1 F: 2.8
Sum Cations: 1281.1 Sum Anions: 1305.8 Cations/Anions: 0.98 Tot. P: 13.0
Tot. Al: 70.0 Ext. Al: 27.0 Fe: 120.0 Mn: 20.0 SiO2: 1.68

ID: 1D2-006 Name: AMES POND State: MA Date: 03NOV84
Sample Type: REGULAR Latitude: 42-29'52"N Longitude: 72-25'09"W
Elevation: 271 Surface Temp: 8.6 Stratified: MIXED Site Depth: 1.5
Lake Area: 6 Watershed Area: 145 WA/LA: 22.7 Hydro Type: DRAINAGE
Residence Time: 0.06 Secchi Depth: 1.0 Turbidity: 0.5 Color: 70
Closed pH: 5.73 Equil. pH: 6.26 ANC: 32.3 DOC: 8.87
Closed DIC: 1.02 Equil. DIC: 0.26 Meas. Cond: 19.4 Cal. Cond: 17.8
Ca: 40.5 Mg: 18.3 Na: 84.4 K: 16.2 NH4: 1.3
SO4: 58.8 HCO3: 12.4 Cl: 38.4 NO3: 0.0 F: 2.6
Sum Cations: 162.5 Sum Anions: 112.2 Cations/Anions: 1.45 Tot. P: 4.1
Tot. Al: 83.7 Ext. Al: 14.4 Fe: 88.0 Mn: 20.0 SiO2: 4.84

ID: 1D2-009 Name: SIBLEY PONDS (NORTHERN) State: MA Date: 03NOV84
Sample Type: REGULAR Latitude: 42-09'00"N Longitude: 72-00'37"W
Elevation: 675 Surface Temp: 11.0 Stratified: MIXED Site Depth: 2.7
Lake Area: 8 Watershed Area: 565 WA/LA: 72.4 Hydro Type: DRAINAGE
Residence Time: 0.03 Secchi Depth: 1.2 Turbidity: 6.0 Color: 70
Closed pH: 6.84 Equil. pH: 7.73 ANC: 343.7 DOC: 6.81
Closed DIC: 4.92 Equil. DIC: 3.59 Meas. Cond: 179.4 Cal. Cond: 195.0
Ca: 377.7 Mg: 133.3 Na: 966.6 K: 53.2 NH4: 7.5
SO4: 145.1 HCO3: 274.7 Cl: 1159.8 NO3: 0.8 F: 3.6
Sum Cations: 1538.5 Sum Anions: 1584.1 Cations/Anions: 0.97 Tot. P: 89.1
Tot. Al: 136.5 Ext. Al: 1.9 Fe: 134.0 Mn: 192.0 SiO2: 1.08

ID: 1D2-010 Name: GORE POND State: MA Date: 08NOV84
Sample Type: REGULAR Latitude: 42-05'00"N Longitude: 71-57'00"W
Elevation: 694 Surface Temp: 9.2 Stratified: MIXED Site Depth: 6.1
Lake Area: 69 Watershed Area: 539 WA/LA: 7.8 Hydro Type: DRAINAGE
Residence Time: 0.54 Secchi Depth: 1.9 Turbidity: 0.6 Color: 45
Closed pH: 6.63 Equil. pH: 7.35 ANC: 125.8 DOC: 6.40
Closed DIC: 1.69 Equil. DIC: 1.18 Meas. Cond: 45.6 Cal. Cond: 45.7
Ca: 161.7 Mg: 87.2 Na: 104.8 K: 45.0 NH4: 0.0
SO4: 128.0 HCO3: 89.6 Cl: 109.7 NO3: 0.9 F: 2.1
Sum Cations: 398.9 Sum Anions: 330.4 Cations/Anions: 1.21 Tot. P: 11.0
Tot. Al: 64.0 Ext. Al: 22.0 Fe: 70.0 Mn: 0.0 SiO2: 0.87

(continued)

TABLE 3-1 (continued)

ID: 1D2-012 Name: GOOSE POND State: MA Date: 07NOV84
Sample Type: REGULAR Latitude: 42-17'00"N Longitude: 73-12'00"W
Elevation: 1483 Surface Temp: 8.6 Stratified: MIXED Site Depth: 1.8
Lake Area: 98 Watershed Area: 1044 WA/LA: 10.6 Hydro Type: DRAINAGE
Residence Time: 0.12 Secchi Depth: 1.8 Turbidity: 0.6 Color: 10
Closed pH: 7.26 Equil. pH: 7.68 ANC: 313.2 DOC: 2.46
Closed DIC: 3.76 Equil. DIC: 3.09 Meas. Cond: 49.7 Cal. Cond: 52.8
Ca: 251.4 Mg: 152.2 Na: 48.2 K: 14.6 NH4: 0.9
SO4: 140.0 HCO3: 276.0 Cl: 33.1 NO3: 0.1 F: 2.8
Sum Cations: 467.3 Sum Anions: 452.6 Cations/Anions: 1.03 Tot. P: 4.9
Tot. Al: 35.4 Ext. Al: 3.0 Fe: 33.0 Mn: 34.0 SiO2: 0.85

ID: 1D2-013 Name: BENEDICT POND State: MA Date: 07NOV84
Sample Type: REGULAR Latitude: 42-12'15"N Longitude: 73-17'15"W
Elevation: 1582 Surface Temp: 6.8 Stratified: MIXED Site Depth: 1.8
Lake Area: 14 Watershed Area: 194 WA/LA: 13.8 Hydro Type: DRAINAGE
Residence Time: 0.09 Secchi Depth: 2.0 Turbidity: 0.6 Color: 25
Closed pH: 6.93 Equil. pH: 7.49 ANC: 174.6 DOC: 4.21
Closed DIC: 2.31 Equil. DIC: 1.76 Meas. Cond: 31.5 Cal. Cond: 32.9
Ca: 132.0 Mg: 91.1 Na: 39.6 K: 19.4 NH4: 3.2
SO4: 93.5 HCO3: 164.8 Cl: 19.2 NO3: 0.9 F: 3.6
Sum Cations: 285.3 Sum Anions: 282.3 Cations/Anions: 1.01 Tot. P: 10.7
Tot. Al: 39.3 Ext. Al: 3.6 Fe: 83.0 Mn: 11.0 SiO2: 0.71

ID: 1D2-015 Name: MASSAPOAG LAKE State: MA Date: 04NOV84
Sample Type: REGULAR Latitude: 42-06'15"N Longitude: 71-10'30"W
Elevation: 251 Surface Temp: 12.4 Stratified: MIXED Site Depth: 11.3
Lake Area: 148 Watershed Area: 909 WA/LA: 6.1 Hydro Type: DRAINAGE
Residence Time: 1.47 Secchi Depth: 2.8 Turbidity: 1.0 Color: 25
Closed pH: 7.17 Equil. pH: 7.43 ANC: 191.9 DOC: 4.22
Closed DIC: 2.19 Equil. DIC: 2.12 Meas. Cond: 81.0 Cal. Cond: 86.9
Ca: 218.4 Mg: 112.7 Na: 338.4 K: 31.2 NH4: 1.2
SO4: 191.2 HCO3: 171.6 Cl: 323.5 NO3: 0.2 F: 16.1
Sum Cations: 702.1 Sum Anions: 702.9 Cations/Anions: 1.00 Tot. P: 12.9
Tot. Al: 18.3 Ext. Al: 1.6 Fe: 10.0 Mn: 10.0 SiO2: 2.20

ID: 1D2-017 Name: MAQUAN POND State: MA Date: 13NOV84
Sample Type: REGULAR Latitude: 42-03'45"N Longitude: 70-51-10"W
Elevation: 74 Surface Temp: 10.9 Stratified: MIXED Site Depth: 2.4
Lake Area: 18 Watershed Area: 78 WA/LA: 4.3 Hydro Type: DRAINAGE
Residence Time: 0.42 Secchi Depth: 2.8 Turbidity: 0.4 Color: 5
Closed pH: 6.51 Equil. pH: 6.74 ANC: 25.5 DOC: 3.00
Closed DIC: 0.57 Equil. DIC: 0.47 Meas. Cond: 96.4 Cal. Cond: 104.9
Ca: 116.3 Mg: 111.1 Na: 504.2 K: 17.6 NH4: 0.0
SO4: 173.2 HCO3: 22.6 Cl: 659.5 NO3: 0.0 F: 1.8
Sum Cations: 749.8 Sum Anions: 857.3 Cations/Anions: 0.87 Tot. P: 10.0
Tot. Al: 20.0 Ext. Al: 6.0 Fe: 10.0 Mn: 0.0 SiO2: 0.44

ID: 1D2-023 Name: FORGE POND State: MA Date: 12NOV84
Sample Type: REGULAR Latitude: 41-55'05"N Longitude: 70-36'40"W
Elevation: 8 Surface Temp: 12.5 Stratified: MIXED Site Depth: 1.0
Lake Area: 6 Watershed Area: 1831 WA/LA: 321.2 Hydro Type: RESERVOIR
Residence Time: 0.00 Secchi Depth: 1.0 Turbidity: 0.6 Color: 20
Closed pH: 6.56 Equil. pH: 7.06 ANC: 74.2 DOC: 1.70
Closed DIC: 1.28 Equil. DIC: 0.89 Meas. Cond: 66.6 Cal. Cond: 69.6
Ca: 71.4 Mg: 101.2 Na: 348.0 K: 16.4 NH4: 1.1
SO4: 94.1 HCO3: 63.5 Cl: 398.3 NO3: 5.9 F: 1.0
Sum Cations: 538.3 Sum Anions: 562.8 Cations/Anions: 0.96 Tot. P: 13.0
Tot. Al: 17.0 Ext. Al: 5.0 Fe: 180.0 Mn: 10.0 SiO2: 6.44

(continued)

TABLE 3-1 (continued)

ID: 1D2-024 Name: THE RESERVOIR State: MA Date: 06NOV84
Sample Type: REGULAR Latitude: 41-51'45"N Longitude: 70-56'30"W
Elevation: 78 Surface Temp: 11.0 Stratified: MIXED Site Depth: 0.9
Lake Area: 9 Watershed Area: 36 WA/LA: 3.9 Hydro Type: RESERVOIR
Residence Time: 0.17 Secchi Depth: 0.9 Turbidity: 1.5 Color: 20
Closed pH: 7.21 Equil. pH: 7.72 ANC: 337.0 DOC: 3.50
Closed DIC: 4.15 Equil. DIC: 3.81 Meas. Cond: 132.4 Cal. Cond: 143.1
Ca: 296.6 Mg: 181.0 Na: 599.0 K: 49.3 NH4: 5.0
SO4: 235.6 HCO3: 314.0 Cl: 637.8 NO3: 2.5 F: 2.5
Sum Cations: 1131.0 Sum Anions: 1192.8 Cations/Anions: 0.95 Tot. P: 23.4
Tot. Al: 33.4 Ext. Al: 1.3 Fe: 100.0 Mn: 16.0 SiO2: 0.74

ID: 1D2-025 Name: LITTLE QUITTACAS POND State: MA Date: 06NOV84
Sample Type: REGULAR Latitude: 41-47'30"N Longitude: 70-55'00"W
Elevation: 17 Surface Temp: 11.9 Stratified: MIXED Site Depth: 3.0
Lake Area: 119 Watershed Area: 404 WA/LA: 3.4 Hydro Type: DRAINAGE
Residence Time: 0.64 Secchi Depth: 3.0 Turbidity: 1.3 Color: 25
Closed pH: 6.69 Equil. pH: 7.08 ANC: 79.0 DOC: 4.48
Closed DIC: 1.14 Equil. DIC: 0.89 Meas. Cond: 68.6 Cal. Cond: 71.3
Ca: 132.6 Mg: 85.0 Na: 336.3 K: 16.3 NH4: 1.2
SO4: 132.2 HCO3: 66.4 Cl: 353.4 NO3: 0.7 F: 2.3
Sum Cations: 571.6 Sum Anions: 555.0 Cations/Anions: 1.03 Tot. P: 15.0
Tot. Al: 46.0 Ext. Al: 4.4 Fe: 81.0 Mn: 14.0 SiO2: 3.14

ID: 1D2-027 Name: SANDY POND State: MA Date: 07NOV84
Sample Type: REGULAR Latitude: 41-46'20"N Longitude: 70-39'15"W
Elevation: 17 Surface Temp: 11.4 Stratified: MIXED Site Depth: 3.0
Lake Area: 6 Watershed Area: 88 WA/LA: 14.2 Hydro Type: DRAINAGE
Residence Time: 0.18 Secchi Depth: 1.5 Turbidity: 0.9 Color: 65
Closed pH: 5.04 Equil. pH: 5.08 ANC: 3.7 DOC: 4.30
Closed DIC: 0.82 Equil. DIC: 0.12 Meas. Cond: 47.4 Cal. Cond: 48.8
Ca: 32.0 Mg: 75.1 Na: 217.7 K: 17.2 NH4: 2.4
SO4: 121.6 HCO3: 2.6 Cl: 237.0 NO3: 0.8 F: 0.7
Sum Cations: 351.8 Sum Anions: 362.7 Cations/Anions: 0.97 Tot. P: 10.5
Tot. Al: 124.3 Ext. Al: 32.5 Fe: 226.0 Mn: 33.0 SiO2: 2.15

ID: 1D2-029 Name: FLAX POND State: MA Date: 07NOV84
Sample Type: REGULAR Latitude: 41-41'20"N Longitude: 70-35'45"W
Elevation: 36 Surface Temp: 11.1 Stratified: MIXED Site Depth: 1.8
Lake Area: 8 Watershed Area: 34 WA/LA: 4.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.0 Turbidity: 2.5 Color: 30
Closed pH: 7.40 Equil. pH: 6.97 ANC: 87.7 DOC: 7.05
Closed DIC: 0.81 Equil. DIC: 0.84 Meas. Cond: 185.0 Cal. Cond: 196.8
Ca: 119.5 Mg: 108.6 Na: 1223.2 K: 38.3 NH4: 0.9
SO4: 170.7 HCO3: 73.9 Cl: 1344.9 NO3: 0.6 F: 1.5
Sum Cations: 1490.8 Sum Anions: 1591.6 Cations/Anions: 0.94 Tot. P: 20.5
Tot. Al: 51.2 Ext. Al: 3.6 Fe: 0.0 Mn: 5.0 SiO2: 0.22

ID: 1D2-030 Name: SHALLOW POND State: MA Date: 07NOV84
Sample Type: REGULAR Latitude: 41-40'30"N Longitude: 70-19'30"W
Elevation: 34 Surface Temp: 11.0 Stratified: MIXED Site Depth: 1.5
Lake Area: 31 Watershed Area: 114 WA/LA: 3.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.5 Turbidity: 0.4 Color: 20
Closed pH: 6.34 Equil. pH: 6.93 ANC: 64.9 DOC: 3.40
Closed DIC: 1.11 Equil. DIC: 0.70 Meas. Cond: 87.7 Cal. Cond: 92.4
Ca: 55.6 Mg: 125.0 Na: 469.4 K: 23.8 NH4: 29.7
SO4: 149.2 HCO3: 56.1 Cl: 516.5 NO3: 14.2 F: 0.9
Sum Cations: 703.7 Sum Anions: 736.9 Cations/Anions: 0.95 Tot. P: 8.3
Tot. Al: 41.7 Ext. Al: 4.4 Fe: 49.0 Mn: 14.0 SiO2: 0.52

(continued)

TABLE 3-1 (continued)

ID: 1D2-031 Name: PLASHES POND State: MA Date: 07NOV84
Sample Type: REGULAR Latitude: 41-40'15"N Longitude: 70-13'15"W
Elevation: 15 Surface Temp: 10.3 Stratified: MIXED Site Depth: 0.9
Lake Area: 19 Watershed Area: 269 WA/LA: 14.1 Hydro Type: DRAINAGE
Residence Time: 0.06 Secchi Depth: 0.9 Turbidity: 0.4 Color: 70
Closed pH: 6.49 Equil. pH: 7.00 ANC: 90.2 DOC: 7.02
Closed DIC: 1.32 Equil. DIC: 0.84 Meas. Cond: 121.0 Cal. Cond: 128.6
Ca: 71.3 Mg: 140.3 Na: 751.2 K: 42.2 NH4: 3.5
SO4: 145.8 HCO3: 69.0 Cl: 785.1 NO3: 16.4 F: 1.1
Sum Cations: 1008.6 Sum Anions: 1017.5 Cations/Anions: 0.99 Tot. P: 17.3
Tot. Al: 47.7 Ext. Al: 8.0 Fe: 66.5 Mn: 4.5 SiO2: 1.26

ID: 1D2-034 Name: WINGS POND State: MA Date: 07NOV84
Sample Type: REGULAR Latitude: 41-37'36"N Longitude: 70-37'35"W
Elevation: 9 Surface Temp: 11.8 Stratified: MIXED Site Depth: 6.0
Lake Area: 11 Watershed Area: 117 WA/LA: 10.8 Hydro Type: DRAINAGE
Residence Time: 0.47 Secchi Depth: 2.8 Turbidity: 1.1 Color: 30
Closed pH: 6.68 Equil. pH: 7.40 ANC: 188.8 DOC: 2.75
Closed DIC: 3.05 Equil. DIC: 2.16 Meas. Cond: 122.3 Cal. Cond: 128.0
Ca: 168.5 Mg: 157.1 Na: 652.1 K: 31.0 NH4: 3.8
SO4: 119.8 HCO3: 177.7 Cl: 744.4 NO3: 0.8 F: 1.5
Sum Cations: 1012.6 Sum Anions: 1044.3 Cations/Anions: 0.97 Tot. P: 55.5
Tot. Al: 36.7 Ext. Al: 2.7 Fe: 445.0 Mn: 14.0 SiO2: 6.12

ID: 1D2-036 Name: MICAH POND State: MA Date: 07NOV84
Sample Type: REGULAR Latitude: 41-38'20"N Longitude: 70-22'45"W
Elevation: 12 Surface Temp: 13.1 Stratified: MIXED Site Depth: 12.1
Lake Area: 6 Watershed Area: 26 WA/LA: 4.3 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 6.4 Turbidity: 0.4 Color: 5
Closed pH: 5.27 Equil. pH: 5.45 ANC: 5.7 DOC: 1.50
Closed DIC: 0.72 Equil. DIC: 0.16 Meas. Cond: 58.7 Cal. Cond: 62.0
Ca: 48.3 Mg: 80.8 Na: 294.9 K: 14.7 NH4: 2.2
SO4: 123.9 HCO3: 3.1 Cl: 359.5 NO3: 0.1 F: 0.8
Sum Cations: 444.5 Sum Anions: 487.3 Cations/Anions: 0.91 Tot. P: 22.1
Tot. Al: 33.9 Ext. Al: 8.3 Fe: 62.0 Mn: 23.0 SiO2: 0.18

ID: 1D2-040 Name: WESTEND POND State: MA Date: 06NOV84
Sample Type: REGULAR Latitude: 41-27'45"N Longitude: 70-47'45"W
Elevation: 6 Surface Temp: 13.1 Stratified: MIXED Site Depth: 3.0
Lake Area: 26 Watershed Area: 106 WA/LA: 4.1 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 3.0 Turbidity: 0.8 Color: 10
Closed pH: 5.93 Equil. pH: 6.24 ANC: 14.7 DOC: 1.51
Closed DIC: 0.46 Equil. DIC: 0.26 Meas. Cond: 130.2 Cal. Cond: 140.6
Ca: 84.2 Mg: 186.7 Na: 760.4 K: 27.8 NH4: 1.9
SO4: 226.7 HCO3: 8.7 Cl: 864.1 NO3: 4.9 F: 1.4
Sum Cations: 1062.5 Sum Anions: 1105.8 Cations/Anions: 0.96 Tot. P: 8.4
Tot. Al: 10.9 Ext. Al: 1.3 Fe: 46.0 Mn: 41.0 SiO2: 0.32

ID: 1D2-043 Name: GIBBS POND State: MA Date: 06NOV84
Sample Type: REGULAR Latitude: 41-16'25"N Longitude: 70-01'00"W
Elevation: 28 Surface Temp: 12.6 Stratified: MIXED Site Depth: 4.6
Lake Area: 14 Watershed Area: 119 WA/LA: 8.8 Hydro Type: DRAINAGE
Residence Time: 0.44 Secchi Depth: 0.7 Turbidity: 2.5 Color: 125
Closed pH: 5.70 Equil. pH: 5.94 ANC: 34.6 DOC: 11.67
Closed DIC: 0.55 Equil. DIC: 0.24 Meas. Cond: 99.0 Cal. Cond: 101.6
Ca: 98.0 Mg: 170.3 Na: 478.5 K: 42.5 NH4: 1.1
SO4: 162.4 HCO3: 8.6 Cl: 586.4 NO3: 0.4 F: 8.4
Sum Cations: 793.0 Sum Anions: 766.2 Cations/Anions: 1.04 Tot. P: 376.4
Tot. Al: 308.0 Ext. Al: 15.8 Fe: 420.0 Mn: 33.0 SiO2: 2.56

(continued)

TABLE 3-1 (continued)

ID: 1D2-044 Name: ANDOVER LAKE State: CT Date: 13NOV84
Sample Type: REGULAR Latitude: 41-43'00"N Longitude: 72-21'30"W
Elevation: 414 Surface Temp: 10.7 Stratified: MIXED Site Depth: 4.3
Lake Area: 63 Watershed Area: 1039 WA/LA: 16.4 Hydro Type: RESERVOIR
Residence Time: 0.19 Secchi Depth: 1.3 Turbidity: 1.2 Color: 25
Closed pH: 7.18 Equil. pH: 7.46 ANC: 207.7 DOC: 4.10
Closed DIC: 2.48 Equil. DIC: 2.38 Meas. Cond: 59.3 Cal. Cond: 61.1
Ca: 214.6 Mg: 93.0 Na: 173.1 K: 38.1 NH4: 0.0
SO4: 143.4 HCO3: 176.0 Cl: 162.2 NO3: 0.9 F: 1.7
Sum Cations: 518.9 Sum Anions: 484.4 Cations/Anions: 1.07 Tot. P: 24.0
Tot. Al: 41.0 Ext. Al: 6.0 Fe: 140.0 Mn: 0.0 SiO2: 2.61

ID: 1D2-045 Name: TRANSYLVANIA POND State: CT Date: 08NOV84
Sample Type: REGULAR Latitude: 41-30'40"N Longitude: 73-14'20"W
Elevation: 294 Surface Temp: 8.1 Stratified: MIXED Site Depth: 0.9
Lake Area: 13 Watershed Area: 443 WA/LA: 34.9 Hydro Type: RESERVOIR
Residence Time: 0.02 Secchi Depth: 2.5 Turbidity: 2.0 Color: 40
Closed pH: 7.32 Equil. pH: 8.36 ANC: 783.8 DOC: 8.20
Closed DIC: 9.84 Equil. DIC: 8.79 Meas. Cond: 149.8 Cal. Cond: 152.5
Ca: 707.6 Mg: 190.0 Na: 421.1 K: 53.4 NH4: 0.0
SO4: 107.8 HCO3: 691.2 Cl: 464.3 NO3: 3.7 F: 2.7
Sum Cations: 1372.2 Sum Anions: 1271.1 Cations/Anions: 1.08 Tot. P: 31.0
Tot. Al: 23.0 Ext. Al: 0.0 Fe: 220.0 Mn: 20.0 SiO2: 2.43

ID: 1D2-049 Name: SPRING GROVE POND State: RI Date: 04NOV84
Sample Type: REGULAR Latitude: 41-54'35"N Longitude: 71-39'00"W
Elevation: 433 Surface Temp: 11.3 Stratified: MIXED Site Depth: 3.0
Lake Area: 9 Watershed Area: 212 WA/LA: 23.6 Hydro Type: RESERVOIR
Residence Time: 0.11 Secchi Depth: 2.4 Turbidity: 0.5 Color: 25
Closed pH: 6.41 Equil. pH: 6.79 ANC: 112.3 DOC: 4.14
Closed DIC: 2.22 Equil. DIC: 1.35 Meas. Cond: 65.4 Cal. Cond: 68.0
Ca: 145.2 Mg: 49.8 Na: 314.1 K: 30.3 NH4: 2.5
SO4: 124.3 HCO3: 92.7 Cl: 316.3 NO3: 0.7 F: 4.1
Sum Cations: 542.2 Sum Anions: 538.1 Cations/Anions: 1.01 Tot. P: 8.2
Tot. Al: 52.8 Ext. Al: 4.0 Fe: 71.0 Mn: 14.0 SiO2: 2.50

ID: 1D2-050 Name: TIOGUE LAKE State: RI Date: 04NOV84
Sample Type: REGULAR Latitude: 41-40'45"N Longitude: 71-33'00"W
Elevation: 229 Surface Temp: 10.7 Stratified: MIXED Site Depth: 2.0
Lake Area: 96 Watershed Area: 477 WA/LA: 5.0 Hydro Type: RESERVOIR
Residence Time: 0.31 Secchi Depth: 2.0 Turbidity: 1.3 Color: 20
Closed pH: 7.28 Equil. pH: 7.78 ANC: 421.7 DOC: 2.61
Closed DIC: 5.08 Equil. DIC: 4.55 Meas. Cond: 156.1 Cal. Cond: 164.9
Ca: 300.1 Mg: 147.2 Na: 824.3 K: 58.8 NH4: 7.1
SO4: 229.6 HCO3: 389.8 Cl: 728.3 NO3: 19.2 F: 6.6
Sum Cations: 1337.6 Sum Anions: 1374.7 Cations/Anions: 0.97 Tot. P: 8.3
Tot. Al: 262.3 Ext. Al: 1.1 Fe: 172.0 Mn: 64.0 SiO2: 1.58

ID: 1D2-053 Name: SHALLOW POND State: MA Date: 07NOV84
Sample Type: REGULAR Latitude: 41-36'33"N Longitude: 70-35'10"W
Elevation: 27 Surface Temp: 9.9 Stratified: MIXED Site Depth: 1.0
Lake Area: 4 Watershed Area: 31 WA/LA: 7.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.0 Turbidity: 0.4 Color: 30
Closed pH: 6.03 Equil. pH: 6.81 ANC: 53.5 DOC: 5.97
Closed DIC: 1.52 Equil. DIC: 0.56 Meas. Cond: 66.8 Cal. Cond: 66.5
Ca: 53.6 Mg: 72.6 Na: 369.8 K: 20.5 NH4: 1.2
SO4: 91.0 HCO3: 42.6 Cl: 392.7 NO3: 0.0 F: 0.8
Sum Cations: 518.1 Sum Anions: 527.2 Cations/Anions: 0.98 Tot. P: 11.4
Tot. Al: 9.2 Ext. Al: 4.0 Fe: 152.0 Mn: 12.0 SiO2: 0.30

(continued)

TABLE 3-1 (continued)

ID: 1D2-055 Name: BIG STATION POND State: MA Date: 06NOV84
Sample Type: REGULAR Latitude: 41-32'56"N Longitude: 70-00'23"W
Elevation: 2 Surface Temp: 11.8 Stratified: MIXED Site Depth: 4.3
Lake Area: 11 Watershed Area: 31 WA/LA: 2.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.3 Turbidity: 1.8 Color: 30
Closed pH: 7.72 Equil. pH: 8.34 ANC: 1234.3 DOC: 9.16
Closed DIC: 13.81 Equil. DIC: 12.96 Meas. Cond: 387.8 Cal. Cond: 401.0
Ca: 543.9 Mg: 575.0 Na: 2155.0 K: 137.8 NH4: 41.1
SO4: 186.6 HCO3: 1052.8 Cl: 2016.1 NO3: 2.2 F: 17.1
Sum Cations: 3452.8 Sum Anions: 3280.7 Cations/Anions: 1.05 Tot. P: 144.0
Tot. Al: 51.9 Ext. Al: 4.1 Fe: 132.0 Mn: 9.0 SiO2: 1.33

ID: 1D2-059 Name: LONG POND State: MA Date: 06NOV84
Sample Type: REGULAR Latitude: 41-56'40"N Longitude: 70-00'20"W
Elevation: 2 Surface Temp: 13.2 Stratified: MIXED Site Depth: 9.1
Lake Area: 14 Watershed Area: 122 WA/LA: 8.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 7.9 Turbidity: 0.3 Color: 5
Closed pH: 4.69 Equil. pH: 4.68 ANC: -18.0 DOC: 0.58
Closed DIC: 0.30 Equil. DIC: 0.17 Meas. Cond: 97.1 Cal. Cond: 103.2
Ca: 54.5 Mg: 116.4 Na: 514.6 K: 21.4 NH4: 1.9
SO4: 152.4 HCO3: 0.5 Cl: 610.0 NO3: 1.1 F: 0.6
Sum Cations: 729.9 Sum Anions: 764.6 Cations/Anions: 0.95 Tot. P: 5.7
Tot. Al: 51.0 Ext. Al: 44.8 Fe: 31.0 Mn: 55.5 SiO2: 0.04

ID: 1D2-060 Name: MOREY HOLE State: MA Date: 07NOV84
Sample Type: REGULAR Latitude: 41-52'03"N Longitude: 70-33'29"W
Elevation: 47 Surface Temp: 11.6 Stratified: MIXED Site Depth: 3.6
Lake Area: 9 Watershed Area: 65 WA/LA: 7.2 Hydro Type: DRAINAGE
Residence Time: 0.41 Secchi Depth: 3.6 Turbidity: 0.2 Color: 10
Closed pH: 6.46 Equil. pH: 6.84 ANC: 51.3 DOC: 1.70
Closed DIC: 0.99 Equil. DIC: 0.63 Meas. Cond: 51.5 Cal. Cond: 52.5
Ca: 41.4 Mg: 71.2 Na: 277.1 K: 14.1 NH4: 0.7
SO4: 114.9 HCO3: 40.0 Cl: 263.3 NO3: 0.0 F: 1.4
Sum Cations: 404.8 Sum Anions: 419.6 Cations/Anions: 0.96 Tot. P: 5.1
Tot. Al: 20.3 Ext. Al: 4.1 Fe: 27.0 Mn: 12.0 SiO2: 1.16

ID: 1D2-064 Name: WATCHA POND State: MA Date: 06NOV84
Sample Type: REGULAR Latitude: 41-21'17"N Longitude: 70-36'47"W
Elevation: 4 Surface Temp: 12.2 Stratified: MIXED Site Depth: 1.8
Lake Area: 24 Watershed Area: 559 WA/LA: 23.1 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 1.8 Turbidity: 0.5 Color: 10
Closed pH: 7.00 Equil. pH: 7.15 ANC: 112.2 DOC: 2.40
Closed DIC: 1.47 Equil. DIC: 1.29 Meas. Cond: 104.6 Cal. Cond: 111.8
Ca: 159.1 Mg: 144.0 Na: 552.9 K: 22.9 NH4: 0.7
SO4: 161.3 HCO3: 100.1 Cl: 626.1 NO3: 0.1 F: 0.9
Sum Cations: 879.7 Sum Anions: 888.5 Cations/Anions: 0.99 Tot. P: 10.8
Tot. Al: 28.9 Ext. Al: 2.7 Fe: 43.0 Mn: 4.0 SiO2: 1.13

ID: 1D2-065 Name: PATTAQUATTIC POND State: MA Date: 03NOV84
Sample Type: REGULAR Latitude: 42-12'45"N Longitude: 72-18'39"W
Elevation: 363 Surface Temp: 12.9 Stratified: MIXED Site Depth: 5.4
Lake Area: 7 Watershed Area: 26 WA/LA: 3.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.8 Turbidity: 2.2 Color: 20
Closed pH: 6.96 Equil. pH: 7.77 ANC: 424.9 DOC: 2.44
Closed DIC: 5.74 Equil. DIC: 4.71 Meas. Cond: 123.7 Cal. Cond: 132.2
Ca: 472.3 Mg: 185.5 Na: 359.1 K: 47.6 NH4: 9.9
SO4: 219.0 HCO3: 354.2 Cl: 490.2 NO3: 16.9 F: 1.6
Sum Cations: 1074.4 Sum Anions: 1082.5 Cations/Anions: 0.99 Tot. P: 19.6
Tot. Al: 38.4 Ext. Al: 0.9 Fe: 28.0 Mn: 70.0 SiO2: 6.44

(continued)

TABLE 3-1 (continued)

ID: 1D2-069 Name: KING POND State: RI Date: 04NOV84
Sample Type: REGULAR Latitude: 41-46'22"N Longitude: 71-39'38"W
Elevation: 449 Surface Temp: 10.1 Stratified: MIXED Site Depth: 0.9
Lake Area: 7 Watershed Area: 78 WA/LA: 11.0 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 0.9 Turbidity: 0.3 Color: 10
Closed pH: 6.15 Equil. pH: 6.55 ANC: 32.4 DOC: 3.85
Closed DIC: 0.67 Equil. DIC: 0.39 Meas. Cond: 29.7 Cal. Cond: 30.7
Ca: 67.6 Mg: 28.5 Na: 119.1 K: 18.9 NH4: 0.9
SO4: 116.3 HCO3: 28.2 Cl: 81.4 NO3: 0.0 F: 14.6
Sum Cations: 235.6 Sum Anions: 240.5 Cations/Anions: 0.98 Tot. P: 4.5
Tot. Al: 55.2 Ext. Al: 11.7 Fe: 5.0 Mn: 8.0 SiO2: 0.18

ID: 1D2-074 Name: STETSON POND State: MA Date: 13NOV84
Sample Type: REGULAR Latitude: 42-01'40"N Longitude: 70-49'39"W
Elevation: 61 Surface Temp: 11.3 Stratified: MIXED Site Depth: 6.4
Lake Area: 36 Watershed Area: 127 WA/LA: 3.6 Hydro Type: DRAINAGE
Residence Time: 1.32 Secchi Depth: 2.3 Turbidity: 0.8 Color: 25
Closed pH: 6.46 Equil. pH: 7.19 ANC: 80.9 DOC: 3.20
Closed DIC: 1.53 Equil. DIC: 0.96 Meas. Cond: 93.8 Cal. Cond: 99.6
Ca: 133.7 Mg: 116.0 Na: 455.4 K: 42.7 NH4: 4.4
SO4: 154.1 HCO3: 70.1 Cl: 563.1 NO3: 7.5 F: 3.5
Sum Cations: 752.6 Sum Anions: 798.3 Cations/Anions: 0.94 Tot. P: 29.0
Tot. Al: 33.0 Ext. Al: 7.0 Fe: 190.0 Mn: 40.0 SiO2: 0.59

ID: 1D2-076 Name: HAMBLIN POND State: MA Date: 07NOV84
Sample Type: REGULAR Latitude: 41-40'04"N Longitude: 70-24'35"W
Elevation: 42 Surface Temp: 13.0 Stratified: MIXED Site Depth: 15.8
Lake Area: 46 Watershed Area: 88 WA/LA: 1.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 5.4 Turbidity: 0.5 Color: 15
Closed pH: 6.77 Equil. pH: 7.18 ANC: 113.6 DOC: 2.17
Closed DIC: 1.79 Equil. DIC: 1.45 Meas. Cond: 64.6 Cal. Cond: 68.5
Ca: 102.0 Mg: 107.8 Na: 294.5 K: 19.0 NH4: 7.0
SO4: 137.9 HCO3: 109.0 Cl: 313.8 NO3: 1.2 F: 1.4
Sum Cations: 530.5 Sum Anions: 563.3 Cations/Anions: 0.94 Tot. P: 47.0
Tot. Al: 12.9 Ext. Al: 2.8 Fe: 15.0 Mn: 11.0 SiO2: 0.04

ID: 1D2-077 Name: STONY BROOK POND State: MA Date: 04NOV84
Sample Type: REGULAR Latitude: 42-06'34"N Longitude: 71-19'17"W
Elevation: 174 Surface Temp: 7.5 Stratified: MIXED Site Depth: 1.8
Lake Area: 15 Watershed Area: 761 WA/LA: 49.7 Hydro Type: RESERVOIR
Residence Time: 0.03 Secchi Depth: 1.3 Turbidity: 1.0 Color: 100
Closed pH: 6.72 Equil. pH: 7.78 ANC: 423.5 DOC: 9.06
Closed DIC: 6.32 Equil. DIC: 4.36 Meas. Cond: 150.2 Cal. Cond: 161.9
Ca: 436.1 Mg: 261.6 Na: 584.2 K: 48.5 NH4: 10.1
SO4: 240.6 HCO3: 376.8 Cl: 681.9 NO3: 2.1 F: 4.1
Sum Cations: 1340.7 Sum Anions: 1305.8 Cations/Anions: 1.03 Tot. P: 101.0
Tot. Al: 93.3 Ext. Al: 2.7 Fe: 153.0 Mn: 28.0 SiO2: 9.84

ID: 1D2-078 Name: CAHOON POND State: MA Date: 06NOV84
Sample Type: REGULAR Latitude: 41-43'32"N Longitude: 70-02'07"W
Elevation: 31 Surface Temp: 12.2 Stratified: MIXED Site Depth: 1.2
Lake Area: 12 Watershed Area: 52 WA/LA: 4.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.2 Turbidity: 0.1 Color: 5
Closed pH: 4.50 Equil. pH: 4.50 ANC: -27.8 DOC: 1.62
Closed DIC: 0.34 Equil. DIC: 0.17 Meas. Cond: 126.9 Cal. Cond: 132.2
Ca: 45.2 Mg: 73.2 Na: 779.1 K: 14.7 NH4: 3.0
SO4: 128.2 HCO3: 0.4 Cl: 847.1 NO3: 3.4 F: 0.8
Sum Cations: 943.9 Sum Anions: 979.9 Cations/Anions: 0.96 Tot. P: 7.6
Tot. Al: 88.3 Ext. Al: 93.7 Fe: 33.0 Mn: 41.0 SiO2: 0.00

(continued)

TABLE 3-1 (continued)

ID: 1D2-080 Name: PICKEREL LAKE State: CT Date: 13NOV84
Sample Type: REGULAR Latitude: 41-31'48"N Longitude: 72-25'13"W
Elevation: 130 Surface Temp: 10.4 Stratified: MIXED Site Depth: 1.5
Lake Area: 33 Watershed Area: 324 WA/LA: 9.8 Hydro Type: RESERVOIR
Residence Time: 0.13 Secchi Depth: 1.4 Turbidity: 0.4 Color: 25
Closed pH: 6.95 Equil. pH: 7.18 ANC: 84.4 DOC: 3.50
Closed DIC: 1.03 Equil. DIC: 1.14 Meas. Cond: 35.5 Cal. Cond: 37.2
Ca: 102.8 Mg: 62.5 Na: 121.4 K: 23.5 NH4: 0.0
SO4: 107.2 HCO3: 69.2 Cl: 106.1 NO3: 0.2 F: 2.2
Sum Cations: 310.4 Sum Anions: 284.9 Cations/Anions: 1.09 Tot. P: 6.0
Tot. Al: 21.0 Ext. Al: 3.0 Fe: 120.0 Mn: 0.0 SiO2: 0.67

ID: 1D2-081 Name: WHITE POND State: MA Date: 04NOV84
Sample Type: REGULAR Latitude: 42-23'28"N Longitude: 71-28'52"W
Elevation: 188 Surface Temp: 12.9 Stratified: MIXED Site Depth: 10.7
Lake Area: 21 Watershed Area: 75 WA/LA: 3.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.1 Turbidity: 0.6 Color: 15
Closed pH: 6.79 Equil. pH: 7.33 ANC: 139.1 DOC: 1.58
Closed DIC: 2.01 Equil. DIC: 1.60 Meas. Cond: 85.8 Cal. Cond: 89.8
Ca: 179.0 Mg: 71.5 Na: 420.4 K: 23.9 NH4: 1.0
SO4: 140.1 HCO3: 136.2 Cl: 459.5 NO3: 0.1 F: 1.6
Sum Cations: 696.0 Sum Anions: 737.6 Cations/Anions: 0.94 Tot. P: 5.8
Tot. Al: 14.2 Ext. Al: 1.5 Fe: 0.0 Mn: 15.0 SiO2: 1.10

ID: 1D2-084 Name: GOOSE POND State: MA Date: 06NOV84
Sample Type: REGULAR Latitude: 41-41'38"N Longitude: 70-00'28"W
Elevation: 15 Surface Temp: 13.5 Stratified: MIXED Site Depth: 7.0
Lake Area: 14 Watershed Area: 52 WA/LA: 3.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.6 Turbidity: 1.0 Color: 10
Closed pH: 6.57 Equil. pH: 7.38 ANC: 142.6 DOC: 4.10
Closed DIC: 2.63 Equil. DIC: 1.69 Meas. Cond: 91.2 Cal. Cond: 96.8
Ca: 156.3 Mg: 117.6 Na: 455.0 K: 20.2 NH4: 21.2
SO4: 115.1 HCO3: 140.9 Cl: 521.4 NO3: 1.0 F: 1.1
Sum Cations: 770.5 Sum Anions: 779.6 Cations/Anions: 0.99 Tot. P: 16.8
Tot. Al: 11.8 Ext. Al: 1.3 Fe: 27.0 Mn: 26.0 SiO2: 0.39

ID: 1D2-085 Name: FLAT RIVER RES. (EAST ARM) State: RI Date: 04NOV84
Sample Type: REGULAR Latitude: 41-41'01"N Longitude: 71-36'00"W
Elevation: 248 Surface Temp: 11.6 Stratified: MIXED Site Depth: 2.1
Lake Area: 5 Watershed Area: 47 WA/LA: 9.0 Hydro Type: RESERVOIR
Residence Time: 0.19 Secchi Depth: 2.1 Turbidity: 0.6 Color: 25
Closed pH: 6.60 Equil. pH: 7.11 ANC: 98.3 DOC: 3.36
Closed DIC: 1.57 Equil. DIC: 1.13 Meas. Cond: 67.9 Cal. Cond: 71.2
Ca: 135.3 Mg: 54.8 Na: 333.6 K: 26.0 NH4: 1.8
SO4: 136.2 HCO3: 88.2 Cl: 337.8 NO3: 4.8 F: 8.2
Sum Cations: 551.7 Sum Anions: 575.2 Cations/Anions: 0.96 Tot. P: 7.2
Tot. Al: 75.8 Ext. Al: 3.7 Fe: 158.0 Mn: 17.0 SiO2: 3.46

ID: 1D2-087 Name: CUSKY POND State: MA Date: 03NOV84
Sample Type: REGULAR Latitude: 42-19'25"N Longitude: 72-05'32"W
Elevation: 979 Surface Temp: 7.5 Stratified: MIXED Site Depth: 0.9
Lake Area: 13 Watershed Area: 155 WA/LA: 12.3 Hydro Type: DRAINAGE
Residence Time: 0.05 Secchi Depth: 0.9 Turbidity: 1.0 Color: 45
Closed pH: 6.65 Equil. pH: 7.60 ANC: 257.5 DOC: 8.15
Closed DIC: 4.13 Equil. DIC: 2.71 Meas. Cond: 62.3 Cal. Cond: 64.1
Ca: 184.9 Mg: 115.2 Na: 203.7 K: 51.2 NH4: 1.1
SO4: 67.7 HCO3: 208.9 Cl: 237.1 NO3: 0.1 F: 2.1
Sum Cations: 556.2 Sum Anions: 516.0 Cations/Anions: 1.08 Tot. P: 13.1
Tot. Al: 45.6 Ext. Al: 2.4 Fe: 260.0 Mn: 14.0 SiO2: 1.36

(continued)

TABLE 3-1 (continued)

ID: 1D2-091 Name: (NO NAME) State: MA Date: 13NOV84
Sample Type: REGULAR Latitude: 42-00'04"N Longitude: 70-53'35"W
Elevation: 47 Surface Temp: 11.0 Stratified: MIXED Site Depth: 1.2
Lake Area: 67 Watershed Area: 344 WA/LA: 5.1 Hydro Type: DRAINAGE
Residence Time: 0.18 Secchi Depth: 0.7 Turbidity: 1.2 Color: 93
Closed pH: 6.46 Equil. pH: 7.03 ANC: 90.4 DOC: 9.40
Closed DIC: 1.21 Equil. DIC: 0.81 Meas. Cond: 99.4 Cal. Cond: 107.3
Ca: 157.9 Mg: 145.2 Na: 471.8 K: 45.5 NH4: 0.0
SO4: 178.6 HCO3: 57.5 Cl: 602.8 NO3: 1.3 F: 3.8
Sum Cations: 820.7 Sum Anions: 844.1 Cations/Anions: 0.97 Tot. P: 32.5
Tot. Al: 71.0 Ext. Al: 44.5 Fe: 445.0 Mn: 20.0 SiO2: 4.86

ID: 1D2-093 Name: ASHLAND RESERVOIR State: MA Date: 08NOV84
Sample Type: REGULAR Latitude: 42-14'22"N Longitude: 71-27'52"W
Elevation: 219 Surface Temp: 10.9 Stratified: MIXED Site Depth: 12.8
Lake Area: 62 Watershed Area: 1683 WA/LA: 27.3 Hydro Type: RESERVOIR
Residence Time: 0.42 Secchi Depth: 2.6 Turbidity: 0.4 Color: 40
Closed pH: 6.87 Equil. pH: 7.67 ANC: 206.2 DOC: 4.90
Closed DIC: 3.00 Equil. DIC: 2.23 Meas. Cond: 102.7 Cal. Cond: 114.2
Ca: 314.4 Mg: 136.6 Na: 405.9 K: 35.5 NH4: 0.6
SO4: 303.6 HCO3: 166.9 Cl: 426.0 NO3: 11.7 F: 4.1
Sum Cations: 893.0 Sum Anions: 912.4 Cations/Anions: 0.98 Tot. P: 7.0
Tot. Al: 48.0 Ext. Al: 7.0 Fe: 60.0 Mn: 0.0 SiO2: 4.64

ID: 1D2-094 Name: SNOWS POND State: MA Date: 06NOV84
Sample Type: REGULAR Latitude: 41-45'30"N Longitude: 70-51'10"W
Elevation: 57 Surface Temp: 12.8 Stratified: MIXED Site Depth: 7.6
Lake Area: 22 Watershed Area: 93 WA/LA: 4.2 Hydro Type: DRAINAGE
Residence Time: 1.37 Secchi Depth: 7.6 Turbidity: 0.2 Color: 5
Closed pH: 5.10 Equil. pH: 5.16 ANC: -0.7 DOC: 0.93
Closed DIC: 0.38 Equil. DIC: 0.88 Meas. Cond: 34.5 Cal. Cond: 34.3
Ca: 37.6 Mg: 43.4 Na: 132.4 K: 16.7 NH4: 0.6
SO4: 90.8 HCO3: 1.8 Cl: 159.3 NO3: 0.2 F: 1.0
Sum Cations: 237.3 Sum Anions: 253.1 Cations/Anions: 0.94 Tot. P: 6.6
Tot. Al: 39.9 Ext. Al: 27.4 Fe: 0.0 Mn: 49.0 SiO2: 0.53

ID: 1D3-001 Name: STEVENS POND State: MA Date: 31OCT84
Sample Type: REGULAR Latitude: 42-41'00"N Longitude: 70-59'55"W
Elevation: 109 Surface Temp: 13.2 Stratified: MIXED Site Depth: 3.0
Lake Area: 4 Watershed Area: 23 WA/LA: 5.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.7 Turbidity: 1.2 Color: 30
Closed pH: 6.98 Equil. pH: 7.65 ANC: 291.2 DOC: 5.62
Closed DIC: 3.89 Equil. DIC: 3.21 Meas. Cond: 148.1 Cal. Cond: 148.7
Ca: 377.2 Mg: 154.6 Na: 673.4 K: 17.4 NH4: 1.3
SO4: 176.1 HCO3: 257.1 Cl: 750.6 NO3: 0.4 F: 1.9
Sum Cations: 1224.1 Sum Anions: 1186.4 Cations/Anions: 1.03 Tot. P: 15.3
Tot. Al: 28.8 Ext. Al: 3.1 Fe: 76.0 Mn: 16.0 SiO2: 2.06

ID: 1D3-002 Name: DYKES POND State: MA Date: 31OCT84
Sample Type: REGULAR Latitude: 42-36'15"N Longitude: 70-43'46"W
Elevation: 97 Surface Temp: 13.6 Stratified: MIXED Site Depth: 9.1
Lake Area: 23 Watershed Area: 142 WA/LA: 6.3 Hydro Type: DRAINAGE
Residence Time: 1.16 Secchi Depth: 2.6 Turbidity: 1.4 Color: 40
Closed pH: 5.29 Equil. pH: 5.50 ANC: 7.9 DOC: 3.10
Closed DIC: 0.73 Equil. DIC: 0.13 Meas. Cond: 86.5 Cal. Cond: 90.8
Ca: 88.0 Mg: 71.3 Na: 499.4 K: 20.2 NH4: 0.9
SO4: 155.2 HCO3: 6.1 Cl: 531.2 NO3: 0.3 F: 8.7
Sum Cations: 683.9 Sum Anions: 701.5 Cations/Anions: 0.97 Tot. P: 16.8
Tot. Al: 195.1 Ext. Al: 50.5 Fe: 245.0 Mn: 289.5 SiO2: 1.49

(continued)

TABLE 3-1 (continued)

ID: 1D3-003 Name: SANDY POND State: MA Date: 31OCT84
Sample Type: REGULAR Latitude: 42-33'45"N Longitude: 71-33'15"W
Elevation: 226 Surface Temp: 13.7 Stratified: MIXED Site Depth: 6.1
Lake Area: 28 Watershed Area: 549 WA/LA: 19.5 Hydro Type: DRAINAGE
Residence Time: 0.27 Secchi Depth: 1.9 Turbidity: 2.2 Color: 25
Closed pH: 6.90 Equil. pH: 7.42 ANC: 163.1 DOC: 3.98
Closed DIC: 2.21 Equil. DIC: 1.81 Meas. Cond: 66.7 Cal. Cond: 68.9
Ca: 179.2 Mg: 52.2 Na: 324.5 K: 20.9 NH4: 0.9
SO4: 108.4 HCO3: 134.9 Cl: 296.3 NO3: 0.7 F: 3.5
Sum Cations: 578.0 Sum Anions: 543.9 Cations/Anions: 1.06 Tot. P: 14.2
Tot. Al: 136.5 Ext. Al: 2.2 Fe: 199.0 Mn: 132.0 SiO2: 0.67

ID: 1D3-004 Name: CROCKER POND State: MA Date: 08NOV84
Sample Type: REGULAR Latitude: 42-31'40"N Longitude: 71-51'15"W
Elevation: 245 Surface Temp: 5.9 Stratified: MIXED Site Depth: 1.6
Lake Area: 5 Watershed Area: 174 WA/LA: 38.7 Hydro Type: DRAINAGE
Residence Time: 0.04 Secchi Depth: 1.6 Turbidity: 1.2 Color: 15
Closed pH: 6.84 Equil. pH: 7.49 ANC: 128.4 DOC: 1.90
Closed DIC: 1.93 Equil. DIC: 1.50 Meas. Cond: 46.7 Cal. Cond: 49.4
Ca: 108.8 Mg: 38.7 Na: 230.5 K: 17.1 NH4: 0.0
SO4: 81.6 HCO3: 112.5 Cl: 212.7 NO3: 0.0 F: 4.6
Sum Cations: 395.3 Sum Anions: 411.5 Cations/Anions: 0.96 Tot. P: 15.0
Tot. Al: 42.0 Ext. Al: 2.0 Fe: 40.0 Mn: 10.0 SiO2: 2.46

ID: 1D3-006 Name: STUART POND State: MA Date: 08NOV84
Sample Type: REGULAR Latitude: 42-29'00"N Longitude: 71-49'45"W
Elevation: 615 Surface Temp: 6.0 Stratified: MIXED Site Depth: 1.2
Lake Area: 15 Watershed Area: 1044 WA/LA: 69.6 Hydro Type: DRAINAGE
Residence Time: 0.02 Secchi Depth: 1.2 Turbidity: 0.5 Color: 25
Closed pH: 6.12 Equil. pH: 6.71 ANC: 17.4 DOC: 3.20
Closed DIC: 0.94 Equil. DIC: 0.43 Meas. Cond: 33.7 Cal. Cond: 34.1
Ca: 68.4 Mg: 33.7 Na: 150.1 K: 12.5 NH4: 0.0
SO4: 104.7 HCO3: 27.6 Cl: 128.1 NO3: 0.6 F: 3.6
Sum Cations: 265.3 Sum Anions: 264.6 Cations/Anions: 1.00 Tot. P: 7.0
Tot. Al: 76.0 Ext. Al: 38.0 Fe: 50.0 Mn: 0.0 SiO2: 3.71

ID: 1D3-008 Name: GREAT PONDS (SOUTHERN) State: MA Date: 08NOV84
Sample Type: REGULAR Latitude: 42-23'30"N Longitude: 72-36'22"W
Elevation: 110 Surface Temp: 7.8 Stratified: MIXED Site Depth: 2.4
Lake Area: 4 Watershed Area: 546 WA/LA: 127.0 Hydro Type: DRAINAGE
Residence Time: 0.02 Secchi Depth: * Turbidity: 7.7 Color: 60
Closed pH: 7.01 Equil. pH: 8.24 ANC: 690.9 DOC: 5.40
Closed DIC: 9.33 Equil. DIC: 7.61 Meas. Cond: 250.4 Cal. Cond: 270.2
Ca: 674.4 Mg: 312.2 Na: 980.9 K: 149.8 NH4: 20.5
SO4: 363.3 HCO3: 638.1 Cl: 1215.1 NO3: 20.2 F: 3.5
Sum Cations: 2137.9 Sum Anions: 2241.4 Cations/Anions: 0.95 Tot. P: 81.0
Tot. Al: 228.0 Ext. Al: 2.0 Fe: 415.0 Mn: 140.0 SiO2: 2.25

ID: 1D3-015 Name: (NO NAME) State: MA Date: 04NOV84
Sample Type: REGULAR Latitude: 42-12'20"N Longitude: 70-58'35"W
Elevation: 67 Surface Temp: 9.4 Stratified: MIXED Site Depth: 1.2
Lake Area: 8 Watershed Area: 285 WA/LA: 35.2 Hydro Type: DRAINAGE
Residence Time: 0.03 Secchi Depth: 1.2 Turbidity: 2.9 Color: 80
Closed pH: 6.60 Equil. pH: 7.60 ANC: 284.1 DOC: 9.67
Closed DIC: 4.31 Equil. DIC: 3.02 Meas. Cond: 237.9 Cal. Cond: 251.5
Ca: 425.6 Mg: 238.6 Na: 1183.2 K: 63.5 NH4: 39.3
SO4: 366.6 HCO3: 270.7 Cl: 1373.5 NO3: 1.9 F: 5.6
Sum Cations: 1950.3 Sum Anions: 2018.5 Cations/Anions: 0.97 Tot. P: 27.5
Tot. Al: 120.5 Ext. Al: 4.5 Fe: 549.0 Mn: 200.0 SiO2: 3.21

(continued)

TABLE 3-1 (continued)

ID: 1D3-016 Name: ASHLEY POND State: MA Date: 08NOV84
Sample Type: REGULAR Latitude: 42-10'00"N Longitude: 72-40'00"W
Elevation: 317 Surface Temp: 11.2 Stratified: MIXED Site Depth: 10.1
Lake Area: 53 Watershed Area: 616 WA/LA: 11.6 Hydro Type: DRAINAGE
Residence Time: 0.73 Secchi Depth: 2.9 Turbidity: 1.0 Color: 20
Closed pH: 6.99 Equil. pH: 7.95 ANC: 296.2 DOC: 2.00
Closed DIC: 4.14 Equil. DIC: 3.28 Meas. Cond: 55.6 Cal. Cond: 58.0
Ca: 269.5 Mg: 131.6 Na: 82.2 K: 8.9 NH4: 3.3
SO4: 138.9 HCO3: 292.6 Cl: 73.9 NO3: 0.6 F: 2.3
Sum Cations: 495.6 Sum Anions: 508.8 Cations/Anions: 0.97 Tot. P: 13.0
Tot. Al: 6.0 Ext. Al: 0.0 Fe: 70.0 Mn: 110.0 SiO2: 4.90

ID: 1D3-017 Name: DARK BROOK RESERVOIR State: MA Date: 08NOV84
Sample Type: REGULAR Latitude: 42-11'30"N Longitude: 71-51'45"W
Elevation: 609 Surface Temp: 8.6 Stratified: MIXED Site Depth: 1.8
Lake Area: 102 Watershed Area: 606 WA/LA: 5.9 Hydro Type: RESERVOIR
Residence Time: 0.20 Secchi Depth: 1.8 Turbidity: 0.5 Color: 15
Closed pH: 7.33 Equil. pH: 7.97 ANC: 560.9 DOC: 3.20
Closed DIC: 6.47 Equil. DIC: 6.20 Meas. Cond: 262.4 Cal. Cond: 282.6
Ca: 650.7 Mg: 144.8 Na: 1436.4 K: 59.1 NH4: 0.0
SO4: 174.9 HCO3: 499.2 Cl: 1616.4 NO3: 1.6 F: 2.8
Sum Cations: 2291.0 Sum Anions: 2296.1 Cations/Anions: 1.00 Tot. P: 14.0
Tot. Al: 12.0 Ext. Al: 1.0 Fe: 40.0 Mn: 0.0 SiO2: 0.27

ID: 1D3-019 Name: WEST LAKE State: MA Date: 07NOV84
Sample Type: REGULAR Latitude: 42-08'00"N Longitude: 73-09'45"W
Elevation: 1571 Surface Temp: 7.8 Stratified: MIXED Site Depth: 3.7
Lake Area: 23 Watershed Area: 381 WA/LA: 16.7 Hydro Type: DRAINAGE
Residence Time: 0.16 Secchi Depth: 0.9 Turbidity: 2.9 Color: 35
Closed pH: 7.35 Equil. pH: 7.84 ANC: 436.1 DOC: 5.75
Closed DIC: 5.00 Equil. DIC: 4.17 Meas. Cond: 60.1 Cal. Cond: 62.7
Ca: 291.3 Mg: 205.6 Na: 60.4 K: 17.2 NH4: 5.3
SO4: 118.8 HCO3: 385.3 Cl: 39.9 NO3: 0.5 F: 0.2
Sum Cations: 579.9 Sum Anions: 545.7 Cations/Anions: 1.06 Tot. P: 16.9
Tot. Al: 105.7 Ext. Al: 2.1 Fe: 88.0 Mn: 17.0 SiO2: 1.05

ID: 1D3-020 Name: LITTLE ALUM POND State: MA Date: 03NOV84
Sample Type: REGULAR Latitude: 42-07'45"N Longitude: 72-09'15"W
Elevation: 775 Surface Temp: 12.4 Stratified: MIXED Site Depth: 10.6
Lake Area: 29 Watershed Area: 150 WA/LA: 5.1 Hydro Type: DRAINAGE
Residence Time: 1.36 Secchi Depth: 5.3 Turbidity: 0.6 Color: 10
Closed pH: 6.83 Equil. pH: 7.25 ANC: 106.8 DOC: 1.98
Closed DIC: 1.50 Equil. DIC: 1.22 Meas. Cond: 39.8 Cal. Cond: 41.7
Ca: 103.6 Mg: 81.7 Na: 127.2 K: 17.1 NH4: 1.4
SO4: 124.0 HCO3: 92.3 Cl: 122.7 NO3: 0.1 F: 1.5
Sum Cations: 331.2 Sum Anions: 340.6 Cations/Anions: 0.97 Tot. P: 8.1
Tot. Al: 13.6 Ext. Al: 1.1 Fe: 30.0 Mn: 20.0 SiO2: 0.96

ID: 1D3-023 Name: LAKE GEORGE State: MA Date: 03NOV84
Sample Type: REGULAR Latitude: 42-03'30"N Longitude: 72-13'20"W
Elevation: 917 Surface Temp: 11.3 Stratified: MIXED Site Depth: 4.5
Lake Area: 36 Watershed Area: 308 WA/LA: 8.5 Hydro Type: DRAINAGE
Residence Time: 0.36 Secchi Depth: 2.3 Turbidity: 1.1 Color: 20
Closed pH: 6.87 Equil. pH: 7.23 ANC: 122.9 DOC: 4.01
Closed DIC: 1.55 Equil. DIC: 1.33 Meas. Cond: 57.9 Cal. Cond: 60.7
Ca: 105.9 Mg: 104.5 Na: 252.1 K: 20.3 NH4: 1.6
SO4: 117.0 HCO3: 101.1 Cl: 269.0 NO3: 1.2 F: 1.7
Sum Cations: 484.5 Sum Anions: 490.1 Cations/Anions: 0.99 Tot. P: 8.6
Tot. Al: 52.3 Ext. Al: 1.5 Fe: 21.0 Mn: 4.0 SiO2: 1.12

(continued)

TABLE 3-1 (continued)

ID: 1D3-024 Name: CROCKER POND State: MA Date: 04NOV84
Sample Type: REGULAR Latitude: 42-04'00"N Longitude: 71-17'45"W
Elevation: 204 Surface Temp: 9.1 Stratified: MIXED Site Depth: 0.9
Lake Area: 6 Watershed Area: 83 WA/LA: 13.0 Hydro Type: RESERVOIR
Residence Time: 0.06 Secchi Depth: 0.7 Turbidity: 3.1 Color: 150
Closed pH: 6.54 Equil. pH: 7.28 ANC: 459.3 DOC: 13.82
Closed DIC: 7.83 Equil. DIC: 4.25 Meas. Cond: 199.3 Cal. Cond: 213.9
Ca: 490.0 Mg: 255.0 Na: 914.4 K: 87.3 NH4: 15.3
SO4: 182.6 HCO3: 408.0 Cl: 1111.7 NO3: 0.5 F: 3.0
Sum Cations: 1762.2 Sum Anions: 1705.9 Cations/Anions: 1.03 Tot. P: 100.5
Tot. Al: 110.8 Ext. Al: 2.2 Fe: 612.0 Mn: 66.0 SiO2: 11.42

ID: 1D3-025 Name: LONG POND State: CT Date: 08NOV84
Sample Type: REGULAR Latitude: 42-01'15"N Longitude: 71-49'00"W
Elevation: 478 Surface Temp: 9.1 Stratified: MIXED Site Depth: 4.0
Lake Area: 8 Watershed Area: 57 WA/LA: 7.4 Hydro Type: DRAINAGE
Residence Time: 0.37 Secchi Depth: 2.1 Turbidity: 0.6 Color: 40
Closed pH: 6.65 Equil. pH: 7.63 ANC: 149.3 DOC: 3.90
Closed DIC: 2.49 Equil. DIC: 1.71 Meas. Cond: 34.6 Cal. Cond: 35.5
Ca: 160.2 Mg: 47.7 Na: 88.7 K: 12.5 NH4: 0.0
SO4: 91.4 HCO3: 142.2 Cl: 52.8 NO3: 0.0 F: 7.0
Sum Cations: 309.4 Sum Anions: 293.4 Cations/Anions: 1.05 Tot. P: 11.0
Tot. Al: 17.0 Ext. Al: 2.8 Fe: 310.0 Mn: 0.0 SiO2: 4.03

ID: 1D3-026 Name: ARNOLD MILLS RES State: RI Date: 04NOV84
Sample Type: REGULAR Latitude: 41-59'00"N Longitude: 71-23'45"W
Elevation: 162 Surface Temp: 11.8 Stratified: MIXED Site Depth: 4.6
Lake Area: 103 Watershed Area: 3269 WA/LA: 31.8 Hydro Type: RESERVOIR
Residence Time: 0.13 Secchi Depth: 2.1 Turbidity: 3.3 Color: 35
Closed pH: 6.79 Equil. pH: 7.36 ANC: 167.9 DOC: 3.52
Closed DIC: 2.35 Equil. DIC: 1.85 Meas. Cond: 82.7 Cal. Cond: 87.2
Ca: 240.3 Mg: 89.0 Na: 322.3 K: 24.8 NH4: 5.4
SO4: 190.4 HCO3: 152.2 Cl: 359.3 NO3: 3.0 F: 3.1
Sum Cations: 681.9 Sum Anions: 708.3 Cations/Anions: 0.96 Tot. P: 12.1
Tot. Al: 39.6 Ext. Al: 1.4 Fe: 225.0 Mn: 127.0 SiO2: 2.72

ID: 1D3-028 Name: GUSHEE POND State: MA Date: 04NOV84
Sample Type: REGULAR Latitude: 41-56'30"N Longitude: 71-01'45"W
Elevation: 63 Surface Temp: 10.1 Stratified: MIXED Site Depth: 1.2
Lake Area: 13 Watershed Area: 83 WA/LA: 6.2 Hydro Type: DRAINAGE
Residence Time: 0.15 Secchi Depth: 0.9 Turbidity: 3.9 Color: 65
Closed pH: 6.59 Equil. pH: 7.49 ANC: 232.3 DOC: 8.51
Closed DIC: 3.59 Equil. DIC: 2.48 Meas. Cond: 261.6 Cal. Cond: 263.4
Ca: 420.2 Mg: 228.7 Na: 1433.3 K: 43.4 NH4: 7.2
SO4: 173.8 HCO3: 216.4 Cl: 1664.0 NO3: 0.5 F: 3.3
Sum Cations: 2132.9 Sum Anions: 2058.2 Cations/Anions: 1.04 Tot. P: 12.6
Tot. Al: 104.9 Ext. Al: 3.2 Fe: 333.0 Mn: 428.0 SiO2: 3.51

ID: 1D3-029 Name: KILLINGLY POND State: CT Date: 04NOV84
Sample Type: REGULAR Latitude: 41-51'45"N Longitude: 71-47'45"W
Elevation: 587 Surface Temp: 12.1 Stratified: MIXED Site Depth: 4.5
Lake Area: 49 Watershed Area: 363 WA/LA: 7.4 Hydro Type: DRAINAGE
Residence Time: 0.50 Secchi Depth: 4.5 Turbidity: 0.1 Color: 5
Closed pH: 4.92 Equil. pH: 4.97 ANC: -2.6 DOC: 0.67
Closed DIC: 0.26 Equil. DIC: 0.18 Meas. Cond: 33.6 Cal. Cond: 33.7
Ca: 33.9 Mg: 23.0 Na: 125.5 K: 5.9 NH4: 1.6
SO4: 127.7 HCO3: 0.9 Cl: 111.5 NO3: 2.3 F: 6.6
Sum Cations: 202.2 Sum Anions: 249.0 Cations/Anions: 0.81 Tot. P: 2.4
Tot. Al: 172.9 Ext. Al: 79.0 Fe: 28.0 Mn: 112.0 SiO2: 1.01

(continued)

TABLE 3-1 (continued)

ID: 1D3-031 Name: WARREN UPPER RESERVOIR State: MA Date: 04NOV84
Sample Type: REGULAR Latitude: 41-49'45"N Longitude: 71-13'15"W
Elevation: 97 Surface Temp: 11.8 Stratified: MIXED Site Depth: 3.0
Lake Area: 54 Watershed Area: 150 WA/LA: 2.8 Hydro Type: RESERVOIR
Residence Time: 0.74 Secchi Depth: 0.3 Turbidity: 0.8 Color: 200
Closed pH: 4.87 Equil. pH: 4.94 ANC: 11.3 DOC: 12.79
Closed DIC: 0.68 Equil. DIC: 0.23 Meas. Cond: 51.3 Cal. Cond: 53.3
Ca: 88.1 Mg: 49.2 Na: 236.4 K: 10.6 NH4: 4.2
SO4: 95.2 HCO3: 1.9 Cl: 253.7 NO3: 3.3 F: 2.8
Sum Cations: 403.0 Sum Anions: 356.8 Cations/Anions: 1.13 Tot. P: 21.9
Tot. Al: 219.6 Ext. Al: 56.0 Fe: 1082.0 Mn: 37.0 SiO2: 4.78

ID: 1D3-033 Name: (NO NAME) State: CT Date: 08NOV84
Sample Type: REGULAR Latitude: 41-39'30"N Longitude: 73-11'30"W
Elevation: 299 Surface Temp: 7.3 Stratified: MIXED Site Depth: 3.4
Lake Area: 29 Watershed Area: 350 WA/LA: 12.1 Hydro Type: RESERVOIR
Residence Time: 0.20 Secchi Depth: 1.5 Turbidity: 3.1 Color: 30
Closed pH: 7.58 Equil. pH: 8.01 ANC: 371.1 DOC: 5.50
Closed DIC: 4.06 Equil. DIC: 4.01 Meas. Cond: 90.9 Cal. Cond: 94.1
Ca: 313.4 Mg: 224.6 Na: 214.5 K: 37.3 NH4: 1.1
SO4: 202.8 HCO3: 330.8 Cl: 246.6 NO3: 0.0 F: 2.9
Sum Cations: 790.9 Sum Anions: 783.9 Cations/Anions: 1.01 Tot. P: 33.0
Tot. Al: 46.0 Ext. Al: 1.0 Fe: 150.0 Mn: 120.0 SiO2: 0.80

ID: 1D3-036 Name: LAKE WINNEMAUG State: CT Date: 08NOV84
Sample Type: REGULAR Latitude: 41-35'00"N Longitude: 73-07'45"W
Elevation: 661 Surface Temp: 9.5 Stratified: MIXED Site Depth: 4.6
Lake Area: 46 Watershed Area: 251 WA/LA: 5.5 Hydro Type: RESERVOIR
Residence Time: 0.57 Secchi Depth: 1.4 Turbidity: 4.6 Color: 25
Closed pH: 7.45 Equil. pH: 7.69 ANC: 578.4 DOC: 4.80
Closed DIC: 7.07 Equil. DIC: 6.47 Meas. Cond: 118.1 Cal. Cond: 128.6
Ca: 370.8 Mg: 250.9 Na: 341.9 K: 69.8 NH4: 20.5
SO4: 158.9 HCO3: 533.4 Cl: 421.5 NO3: 7.5 F: 3.9
Sum Cations: 1053.9 Sum Anions: 1126.6 Cations/Anions: 0.94 Tot. P: 27.0
Tot. Al: 80.0 Ext. Al: 1.0 Fe: 40.0 Mn: 60.0 SiO2: 0.36

ID: 1D3-042 Name: CEDAR POND State: CT Date: 08NOV84
Sample Type: REGULAR Latitude: 41-19'15"N Longitude: 72-46'45"W
Elevation: 11 Surface Temp: 11.0 Stratified: MIXED Site Depth: 5.1
Lake Area: 9 Watershed Area: 114 WA/LA: 12.9 Hydro Type: DRAINAGE
Residence Time: 0.34 Secchi Depth: 1.6 Turbidity: 4.2 Color: 40
Closed pH: 7.82 Equil. pH: 8.83 ANC: 2109.0 DOC: 8.80
Closed DIC: 26.27 Equil. DIC: 23.16 Meas. Cond: 267.2 Cal. Cond: 291.7
Ca: 621.3 Mg: 378.4 Na: 1731.9 K: 25.3 NH4: 13.9
SO4: 453.9 HCO3: 2009.6 Cl: 235.3 NO3: 6.1 F: 2.7
Sum Cations: 2770.8 Sum Anions: 2719.2 Cations/Anions: 1.02 Tot. P: 61.0
Tot. Al: 84.0 Ext. Al: 0.0 Fe: 150.0 Mn: 290.0 SiO2: 10.00

ID: 1D3-043 Name: SILVIAS POND State: CT Date: 13NOV84
Sample Type: REGULAR Latitude: 41-21'47"N Longitude: 71-54'30"W
Elevation: 74 Surface Temp: 11.1 Stratified: MIXED Site Depth: 2.1
Lake Area: 6 Watershed Area: 62 WA/LA: 9.7 Hydro Type: RESERVOIR
Residence Time: 0.18 Secchi Depth: 0.7 Turbidity: 6.3 Color: 85
Closed pH: 6.87 Equil. pH: 7.87 ANC: 419.1 DOC: 7.60
Closed DIC: 4.92 Equil. DIC: 3.94 Meas. Cond: 118.5 Cal. Cond: 129.5
Ca: 383.7 Mg: 239.4 Na: 350.6 K: 53.7 NH4: 1.1
SO4: 229.6 HCO3: 321.0 Cl: 516.5 NO3: 0.7 F: 3.7
Sum Cations: 1028.6 Sum Anions: 1071.9 Cations/Anions: 0.96 Tot. P: 24.0
Tot. Al: 52.0 Ext. Al: 6.0 Fe: 1070.0 Mn: 80.0 SiO2: 8.83

(continued)

TABLE 3-1 (continued)

ID: 1D3-044 Name: MIDDLE FARMS POND State: NY Date: 13NOV84
Sample Type: REGULAR Latitude: 41-16'30"N Longitude: 71-58'40"W
Elevation: 2 Surface Temp: 11.0 Stratified: MIXED Site Depth: 5.5
Lake Area: 12 Watershed Area: 41 WA/LA: 3.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.5 Turbidity: 0.5 Color: 55
Closed pH: 6.22 Equil. pH: 6.62 ANC: 41.8 DOC: 4.90
Closed DIC: 0.91 Equil. DIC: 0.58 Meas. Cond: 87.6 Cal. Cond: 93.6
Ca: 81.8 Mg: 150.5 Na: 428.5 K: 28.6 NH4: 8.3
SO4: 152.0 HCO3: 32.6 Cl: 542.8 NO3: 16.8 F: 2.1
Sum Cations: 698.3 Sum Anions: 746.3 Cations/Anions: 0.94 Tot. P: 90.0
Tot. Al: 49.0 Ext. Al: 26.0 Fe: 580.0 Mn: 20.0 SiO2: 5.65

ID: 1D3-046 Name: FORT POND State: NY Date: 13NOV84
Sample Type: REGULAR Latitude: 41-02'30"N Longitude: 71-57'15"W
Elevation: 3 Surface Temp: 11.0 Stratified: MIXED Site Depth: 3.4
Lake Area: 70 Watershed Area: 259 WA/LA: 3.7 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 0.8 Turbidity: 2.2 Color: 30
Closed pH: 7.65 Equil. pH: 7.96 ANC: 382.8 DOC: 6.60
Closed DIC: 3.87 Equil. DIC: 3.98 Meas. Cond: 285.1 Cal. Cond: 347.7
Ca: 242.0 Mg: 413.8 Na: 1774.2 K: 60.1 NH4: 37.7
SO4: 401.8 HCO3: 298.9 Cl: 2220.1 NO3: 3.0 F: 3.8
Sum Cations: 2527.8 Sum Anions: 2928.2 Cations/Anions: 0.86 Tot. P: 34.0
Tot. Al: 68.0 Ext. Al: 10.0 Fe: 40.0 Mn: 0.0 SiO2: 0.08

ID: 1D3-047 Name: HOOK POND State: NY Date: 13NOV84
Sample Type: REGULAR Latitude: 40-57'00"N Longitude: 72-11'20"W
Elevation: 4 Surface Temp: 9.7 Stratified: MIXED Site Depth: 0.5
Lake Area: 32 Watershed Area: 881 WA/LA: 27.7 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 0.5 Turbidity: 3.1 Color: 20
Closed pH: 7.49 Equil. pH: 8.19 ANC: 811.4 DOC: 2.80
Closed DIC: 9.53 Equil. DIC: 9.20 Meas. Cond: 237.3 Cal. Cond: 267.2
Ca: 724.5 Mg: 389.1 Na: 786.5 K: 136.8 NH4: 35.5
SO4: 477.8 HCO3: 737.8 Cl: 994.4 NO3: 58.9 F: 1.5
Sum Cations: 2072.4 Sum Anions: 2272.8 Cations/Anions: 0.91 Tot. P: 38.0
Tot. Al: 70.0 Ext. Al: 10.0 Fe: 40.0 Mn: 0.0 SiO2: 2.08

ID: 1D3-048 Name: (NO NAME) State: NY Date: 06NOV84
Sample Type: REGULAR Latitude: 40-51'21"N Longitude: 73-27'45"W
Elevation: 20 Surface Temp: 12.6 Stratified: MIXED Site Depth: 2.1
Lake Area: 8 Watershed Area: 1039 WA/LA: 134.9 Hydro Type: RESERVOIR
Residence Time: 0.01 Secchi Depth: 1.5 Turbidity: 2.4 Color: 30
Closed pH: 6.83 Equil. pH: 7.56 ANC: 257.6 DOC: 1.85
Closed DIC: 4.03 Equil. DIC: 2.91 Meas. Cond: 92.1 Cal. Cond: 99.9
Ca: 232.5 Mg: 166.2 Na: 385.4 K: 26.5 NH4: 6.1
SO4: 132.5 HCO3: 252.4 Cl: 390.6 NO3: 52.6 F: 3.0
Sum Cations: 816.8 Sum Anions: 831.3 Cations/Anions: 0.98 Tot. P: 31.1
Tot. Al: 131.5 Ext. Al: 20.5 Fe: 179.0 Mn: 19.0 SiO2: 8.73

ID: 1D3-056 Name: LEANDER POND State: CT Date: 13NOV84
Sample Type: REGULAR Latitude: 41-50'15"N Longitude: 72-11'18"W
Elevation: 488 Surface Temp: 9.6 Stratified: MIXED Site Depth: 0.9
Lake Area: 15 Watershed Area: 306 WA/LA: 20.3 Hydro Type: DRAINAGE
Residence Time: 0.03 Secchi Depth: 0.5 Turbidity: 3.7 Color: 55
Closed pH: 6.83 Equil. pH: 7.64 ANC: 268.8 DOC: 7.10
Closed DIC: 3.72 Equil. DIC: 2.96 Meas. Cond: 70.0 Cal. Cond: 72.4
Ca: 186.6 Mg: 182.6 Na: 162.7 K: 88.0 NH4: 1.1
SO4: 142.0 HCO3: 224.4 Cl: 197.8 NO3: 4.6 F: 1.4
Sum Cations: 621.2 Sum Anions: 570.2 Cations/Anions: 1.09 Tot. P: 120.0
Tot. Al: 81.0 Ext. Al: 8.0 Fe: 80.0 Mn: 0.0 SiO2: 2.15

(continued)

TABLE 3-1 (continued)

ID: 1D3-063 Name: CHEBACCO LAKE State: MA Date: 31OCT84
Sample Type: REGULAR Latitude: 42-36'47"N Longitude: 70-48'30"W
Elevation: 44 Surface Temp: 13.5 Stratified: MIXED Site Depth: 6.7
Lake Area: 80 Watershed Area: 1380 WA/LA: 17.3 Hydro Type: DRAINAGE
Residence Time: 0.34 Secchi Depth: 3.1 Turbidity: 0.9 Color: 55
Closed pH: 6.77 Equil. pH: 7.43 ANC: 190.2 DOC: 7.35
Closed DIC: 2.40 Equil. DIC: 1.94 Meas. Cond: 96.2 Cal. Cond: 99.3
Ca: 207.5 Mg: 134.1 Na: 472.8 K: 24.7 NH4: 1.3
SO4: 153.7 HCO3: 162.6 Cl: 449.9 NO3: 1.3 F: 3.6
Sum Cations: 840.6 Sum Anions: 771.4 Cations/Anions: 1.09 Tot. P: 13.4
Tot. Al: 50.5 Ext. Al: 7.7 Fe: 207.0 Mn: 27.0 SiO2: 2.18

ID: 1D3-065 Name: COY POND State: MA Date: 31OCT84
Sample Type: REGULAR Latitude: 42-35'32"N Longitude: 70-49'22"W
Elevation: 15 Surface Temp: 12.9 Stratified: MIXED Site Depth: 0.9
Lake Area: 10 Watershed Area: 238 WA/LA: 25.0 Hydro Type: DRAINAGE
Residence Time: 0.03 Secchi Depth: 0.9 Turbidity: 3.3 Color: 55
Closed pH: 6.90 Equil. pH: 7.88 ANC: 505.5 DOC: 6.44
Closed DIC: 7.24 Equil. DIC: 5.68 Meas. Cond: 191.8 Cal. Cond: 197.6
Ca: 406.2 Mg: 243.5 Na: 948.7 K: 41.1 NH4: 4.3
SO4: 131.9 HCO3: 459.3 Cl: 1027.1 NO3: 0.7 F: 4.4
Sum Cations: 1643.9 Sum Anions: 1624.0 Cations/Anions: 1.01 Tot. P: 10.5
Tot. Al: 75.0 Ext. Al: 4.4 Fe: 379.0 Mn: 273.0 SiO2: 7.91

ID: 1D3-068 Name: WESTBORO RESERVOIR State: MA Date: 08NOV84
Sample Type: REGULAR Latitude: 42-14'27"N Longitude: 71-36'22"W
Elevation: 438 Surface Temp: 7.6 Stratified: MIXED Site Depth: 1.5
Lake Area: 22 Watershed Area: 321 WA/LA: 14.9 Hydro Type: RESERVOIR
Residence Time: 0.09 Secchi Depth: 1.5 Turbidity: 1.1 Color: 20
Closed pH: 7.04 Equil. pH: 7.63 ANC: 161.6 DOC: 2.70
Closed DIC: 2.01 Equil. DIC: 1.83 Meas. Cond: 219.1 Cal. Cond: 236.4
Ca: 294.9 Mg: 141.5 Na: 1352.4 K: 29.7 NH4: 0.0
SO4: 111.4 HCO3: 137.3 Cl: 1650.3 NO3: 1.2 F: 7.4
Sum Cations: 1818.6 Sum Anions: 1907.7 Cations/Anions: 0.95 Tot. P: 8.0
Tot. Al: 64.0 Ext. Al: 4.0 Fe: 160.0 Mn: 20.0 SiO2: 3.00

ID: 1D3-069 Name: WATABA LAKE State: CT Date: 06NOV84
Sample Type: REGULAR Latitude: 41-20'30"N Longitude: 73-29'45"W
Elevation: 171 Surface Temp: 11.3 Stratified: MIXED Site Depth: 1.5
Lake Area: 17 Watershed Area: 500 WA/LA: 29.4 Hydro Type: RESERVOIR
Residence Time: 0.04 Secchi Depth: 0.8 Turbidity: 3.5 Color: 35
Closed pH: 7.77 Equil. pH: 8.48 ANC: 1844.0 DOC: 6.02
Closed DIC: 21.99 Equil. DIC: 19.22 Meas. Cond: 256.7 Cal. Cond: 278.5
Ca: 1463.6 Mg: 527.3 Na: 583.3 K: 47.8 NH4: 1.5
SO4: 188.3 HCO3: 1612.7 Cl: 563.8 NO3: 1.1 F: 2.2
Sum Cations: 2623.5 Sum Anions: 2376.7 Cations/Anions: 1.10 Tot. P: 49.5
Tot. Al: 35.3 Ext. Al: 8.7 Fe: 110.0 Mn: 12.0 SiO2: 13.02

ID: 1D3-076 Name: QUINEBAUG POND State: CT Date: 13NOV84
Sample Type: REGULAR Latitude: 41-46'29"N Longitude: 71-53'19"W
Elevation: 197 Surface Temp: 11.3 Stratified: MIXED Site Depth: 2.8
Lake Area: 29 Watershed Area: 319 WA/LA: 11.1 Hydro Type: DRAINAGE
Residence Time: 0.21 Secchi Depth: 3.0 Turbidity: 0.4 Color: 15
Closed pH: 6.92 Equil. pH: 7.37 ANC: 149.3 DOC: 2.80
Closed DIC: 2.05 Equil. DIC: 1.73 Meas. Cond: 79.9 Cal. Cond: 87.8
Ca: 205.1 Mg: 90.5 Na: 342.8 K: 21.2 NH4: 0.6
SO4: 180.7 HCO3: 126.1 Cl: 414.7 NO3: 0.0 F: 4.1
Sum Cations: 660.3 Sum Anions: 725.8 Cations/Anions: 0.91 Tot. P: 6.0
Tot. Al: 9.0 Ext. Al: 2.0 Fe: 0.0 Mn: 0.0 SiO2: 0.22

(continued)

TABLE 3-1 (continued)

ID: 1D3-083 Name: LAKE FLOREN State: CT Date: 08NOV84
Sample Type: REGULAR Latitude: 41-45'25"N Longitude: 73-14'33"W
Elevation: 1115 Surface Temp: 7.1 Stratified: MIXED Site Depth: 2.3
Lake Area: 7 Watershed Area: 28 WA/LA: 4.2 Hydro Type: RESERVOIR
Residence Time: 0.37 Secchi Depth: 2.5 Turbidity: 0.9 Color: 25
Closed pH: 7.11 Equil. pH: 7.69 ANC: 355.2 DOC: 5.30
Closed DIC: 1.90 Equil. DIC: 4.58 Meas. Cond: 64.0 Cal. Cond: 65.1
Ca: 252.0 Mg: 195.8 Na: 109.6 K: 24.3 NH4: 11.1
SO4: 95.6 HCO3: 375.8 Cl: 92.8 NO3: 0.8 F: 2.1
Sum Cations: 592.8 Sum Anions: 567.8 Cations/Anions: 1.04 Tot. P: 24.0
Tot. Al: 35.0 Ext. Al: 1.0 Fe: 130.0 Mn: 0.0 SiO2: 0.04

ID: 1D3-084 Name: HARTLAND POND State: CT Date: 08NOV84
Sample Type: REGULAR Latitude: 42-01'06"N Longitude: 73-00'36"W
Elevation: 1155 Surface Temp: 9.4 Stratified: MIXED Site Depth: 7.0
Lake Area: 19 Watershed Area: 70 WA/LA: 3.6 Hydro Type: DRAINAGE
Residence Time: 1.26 Secchi Depth: 5.9 Turbidity: 0.4 Color: 10
Closed pH: 6.88 Equil. pH: 7.74 ANC: 78.9 DOC: 2.50
Closed DIC: 1.24 Equil. DIC: 0.99 Meas. Cond: 32.2 Cal. Cond: 32.0
Ca: 118.3 Mg: 65.8 Na: 69.2 K: 13.0 NH4: 0.0
SO4: 111.6 HCO3: 75.2 Cl: 58.4 NO3: 1.3 F: 2.4
Sum Cations: 266.4 Sum Anions: 249.0 Cations/Anions: 1.07 Tot. P: 5.0
Tot. Al: 13.0 Ext. Al: 0.0 Fe: 0.0 Mn: 0.0 SiO2: 0.18

ID: 1D3-088 Name: SWANS POND State: MA Date: 08NOV84
Sample Type: REGULAR Latitude: 42-07'25"N Longitude: 71-42'10"W
Elevation: 326 Surface Temp: 6.9 Stratified: MIXED Site Depth: 0.9
Lake Area: 13 Watershed Area: 782 WA/LA: 59.7 Hydro Type: DRAINAGE
Residence Time: 0.01 Secchi Depth: 0.9 Turbidity: 0.3 Color: 15
Closed pH: 6.80 Equil. pH: 7.72 ANC: 212.9 DOC: 3.20
Closed DIC: 3.31 Equil. DIC: 2.52 Meas. Cond: 156.3 Cal. Cond: 164.0
Ca: 327.3 Mg: 116.8 Na: 756.5 K: 63.2 NH4: 0.0
SO4: 178.0 HCO3: 207.5 Cl: 936.6 NO3: 0.0 F: 14.5
Sum Cations: 1263.9 Sum Anions: 1336.8 Cations/Anions: 0.95 Tot. P: 7.0
Tot. Al: 46.0 Ext. Al: 8.0 Fe: 50.0 Mn: 20.0 SiO2: 2.79

ID: 1D3-091 Name: GREAT POND State: CT Date: 06NOV84
Sample Type: REGULAR Latitude: 41-19'01"N Longitude: 73-28'07"W
Elevation: 507 Surface Temp: 13.2 Stratified: MIXED Site Depth: 9.4
Lake Area: 9 Watershed Area: 67 WA/LA: 7.2 Hydro Type: RESERVOIR
Residence Time: 1.04 Secchi Depth: 3.8 Turbidity: 0.6 Color: 15
Closed pH: 7.27 Equil. pH: 8.00 ANC: 555.6 DOC: 4.47
Closed DIC: 7.00 Equil. DIC: 5.98 Meas. Cond: 107.7 Cal. Cond: 125.9
Ca: 506.5 Mg: 261.6 Na: 245.1 K: 29.5 NH4: 5.8
SO4: 232.1 HCO3: 491.2 Cl: 344.4 NO3: 1.0 F: 2.3
Sum Cations: 1048.5 Sum Anions: 1072.5 Cations/Anions: 0.98 Tot. P: 13.9
Tot. Al: 9.2 Ext. Al: 8.8 Fe: 18.0 Mn: 21.0 SiO2: 1.17

ID: 1D3-092 Name: INDIAN LAKE State: CT Date: 06NOV84
Sample Type: REGULAR Latitude: 41-15'03"N Longitude: 73-00'40"W
Elevation: 33 Surface Temp: 12.3 Stratified: MIXED Site Depth: 1.8
Lake Area: 10 Watershed Area: 150 WA/LA: 15.6 Hydro Type: DRAINAGE
Residence Time: 0.10 Secchi Depth: 0.6 Turbidity: 7.2 Color: 50
Closed pH: 7.18 Equil. pH: 8.23 ANC: 958.1 DOC: 5.00
Closed DIC: 13.35 Equil. DIC: 10.33 Meas. Cond: 250.8 Cal. Cond: 274.3
Ca: 947.6 Mg: 348.8 Na: 938.3 K: 78.2 NH4: 29.3
SO4: 407.1 HCO3: 855.[illegible] Cl: 944.6 NO3: 20.2 F: 5.3
Sum Cations: 2342.2 Sum Anions: 2234.1 Cations/Anions: 1.05 Tot. P: 36.8
Tot. Al: 56.1 Ext. Al: 9.0 Fe: 358.0 Mn: 564.0 SiO2: 6.10

(continued)

TABLE 3-1 (continued)

ID: 1E1-004 Name: BLACK POND State: ME Date: 17OCT84
Sample Type: REGULAR Latitude: 45-44'45"N Longitude: 69-16'45"W
Elevation: 341 Surface Temp: 11.5 Stratified: MIXED Site Depth: 3.1
Lake Area: 50 Watershed Area: 1083 WA/LA: 21.7 Hydro Type: DRAINAGE
Residence Time: 0.10 Secchi Depth: 3.0 Turbidity: 0.4 Color: 15
Closed pH: 7.27 Equil. pH: 7.52 ANC: 220.3 DOC: 6.52
Closed DIC: 2.42 Equil. DIC: 2.30 Meas. Cond: 36.4 Cal. Cond: 38.1
Ca: 229.8 Mg: 76.6 Na: 40.5 K: 6.7 NH4: 1.8
SO4: 102.2 HCO3: 195.2 Cl: 9.6 NO3: 0.1 F: 1.2
Sum Cations: 355.5 Sum Anions: 308.6 Cations/Anions: 1.15 Tot. P: 1.5
Tot. Al: 54.0 Ext. Al: 13.9 Fe: 30.0 Mn: 8.0 SiO2: 2.72

ID: 1E1-006 Name: FOURTH ROACH POND State: ME Date: 19OCT84
Sample Type: REGULAR Latitude: 45-38'30"N Longitude: 69-15'00"W
Elevation: 399 Surface Temp: 9.9 Stratified: MIXED Site Depth: 11.3
Lake Area: 101 Watershed Area: 811 WA/LA: 8.0 Hydro Type: DRAINAGE
Residence Time: 0.96 Secchi Depth: 4.1 Turbidity: 0.5 Color: 10
Closed pH: 6.96 Equil. pH: 7.09 ANC: 90.9 DOC: 2.88
Closed DIC: 1.21 Equil. DIC: 1.08 Meas. Cond: 22.1 Cal. Cond: 20.1
Ca: 84.7 Mg: 37.2 Na: 48.5 K: 12.2 NH4: 0.9
SO4: 61.8 HCO3: 78.3 Cl: 12.0 NO3: 0.0 F: 4.7
Sum Cations: 183.7 Sum Anions: 156.9 Cations/Anions: 1.17 Tot. P: 8.7
Tot. Al: 23.9 Ext. Al: 0.0 Fe: 6.0 Mn: 2.0 SiO2: 2.85

ID: 1E1-009 Name: PEEP LAKE State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 44-54'30"N Longitude: 67-53'30"W
Elevation: 78 Surface Temp: 11.6 Stratified: MIXED Site Depth: 5.5
Lake Area: 13 Watershed Area: 47 WA/LA: 3.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 5.5 Turbidity: 0.7 Color: 5
Closed pH: 6.19 Equil. pH: 6.29 ANC: 16.4 DOC: 2.41
Closed DIC: 0.25 Equil. DIC: 0.22 Meas. Cond: 14.0 Cal. Cond: 14.3
Ca: 21.6 Mg: 16.8 Na: 65.2 K: 8.2 NH4: 1.0
SO4: 45.9 HCO3: 16.2 Cl: 45.4 NO3: 0.0 F: 1.7
Sum Cations: 113.5 Sum Anions: 109.3 Cations/Anions: 1.04 Tot. P: 16.0
Tot. Al: 40.2 Ext. Al: 4.0 Fe: 34.0 Mn: 8.0 SiO2: 0.04

ID: 1E1-010 Name: SIX PONDS State: ME Date: 16OCT84
Sample Type: REGULAR Latitude: 46-00'30"N Longitude: 68-55'30"W
Elevation: 411 Surface Temp: 9.4 Stratified: MIXED Site Depth: 4.9
Lake Area: 10 Watershed Area: 215 WA/LA: 20.9 Hydro Type: DRAINAGE
Residence Time: 0.20 Secchi Depth: 4.2 Turbidity: 0.6 Color: 20
Closed pH: 7.24 Equil. pH: 7.72 ANC: 334.4 DOC: 2.25
Closed DIC: 4.12 Equil. DIC: 3.78 Meas. Cond: 39.8 Cal. Cond: 40.8
Ca: 251.3 Mg: 49.2 Na: 79.7 K: 13.8 NH4: 1.9
SO4: 33.6 HCO3: 306.4 Cl: 10.0 NO3: 0.0 F: 17.1
Sum Cations: 395.9 Sum Anions: 367.9 Cations/Anions: 1.08 Tot. P: 1.0
Tot. Al: 20.7 Ext. Al: 12.6 Fe: 78.5 Mn: 2.5 SiO2: 4.37

ID: 1E1-011 Name: FOURTH DAVIS POND State: ME Date: 19OCT84
Sample Type: REGULAR Latitude: 45-15'30"N Longitude: 69-23'40"W
Elevation: 149 Surface Temp: 9.7 Stratified: MIXED Site Depth: 3.0
Lake Area: 9 Watershed Area: 461 WA/LA: 49.0 Hydro Type: DRAINAGE
Residence Time: 0.05 Secchi Depth: 1.2 Turbidity: 0.9 Color: 85
Closed pH: 5.85 Equil. pH: 6.17 ANC: 36.5 DOC: 10.94
Closed DIC: 0.63 Equil. DIC: 0.24 Meas. Cond: 19.7 Cal. Cond: 17.1
Ca: 95.3 Mg: 34.0 Na: 37.5 K: 3.1 NH4: 1.9
SO4: 67.2 HCO3: 13.4 Cl: 11.1 NO3: 0.5 F: 1.4
Sum Cations: 173.2 Sum Anions: 93.6 Cations/Anions: 1.85 Tot. P: 9.2
Tot. Al: 175.8 Ext. Al: 29.4 Fe: 65.0 Mn: 7.0 SiO2: 0.31

(continued)

TABLE 3-1 (continued)

ID: 1E1-012 Name: HOPKINS POND State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 44-47'30"N Longitude: 68-27'15"W
Elevation: 110 Surface Temp: 12.4 Stratified: MIXED Site Depth: 19.8
Lake Area: 175 Watershed Area: 834 WA/LA: 4.8 Hydro Type: DRAINAGE
Residence Time: 3.28 Secchi Depth: 5.0 Turbidity: 0.2 Color: 5
Closed pH: 6.76 Equil. pH: 6.95 ANC: 60.5 DOC: 2.83
Closed DIC: 0.84 Equil. DIC: 0.71 Meas. Cond: 21.7 Cal. Cond: 22.4
Ca: 83.6 Mg: 31.8 Na: 62.1 K: 7.8 NH4: 0.7
SO4: 71.1 HCO3: 58.4 Cl: 41.2 NO3: 0.0 F: 9.0
Sum Cations: 186.1 Sum Anions: 179.7 Cations/Anions: 1.04 Tot. P: 6.6
Tot. Al: 31.7 Ext. Al: 1.0 Fe: 4.0 Mn: 9.0 SiO2: 2.00

ID: 1E1-014 Name: TORREY POND State: ME Date: 22OCT84
Sample Type: REGULAR Latitude: 44-14'35"N Longitude: 68-39'00"W
Elevation: 23 Surface Temp: 12.5 Stratified: MIXED Site Depth: 1.8
Lake Area: 9 Watershed Area: 347 WA/LA: 39.9 Hydro Type: DRAINAGE
Residence Time: 0.03 Secchi Depth: 0.8 Turbidity: 2.0 Color: 165
Closed pH: 6.57 Equil. pH: 7.20 ANC: 153.2 DOC: 17.07
Closed DIC: 1.64 Equil. DIC: 1.00 Meas. Cond: 61.9 Cal. Cond: 56.2
Ca: 120.4 Mg: 189.2 Na: 266.1 K: 9.1 NH4: 1.2
SO4: 78.6 HCO3: 98.1 Cl: 183.9 NO3: 0.3 F: 2.1
Sum Cations: 586.2 Sum Anions: 363.0 Cations/Anions: 1.62 Tot. P: 5.4
Tot. Al: 203.3 Ext. Al: 23.3 Fe: 118.0 Mn: 0.0 SiO2: 2.73

ID: 1E1-015 Name: RAYMOND POND State: ME Date: 30OCT84
Sample Type: REGULAR Latitude: 43-58'00"N Longitude: 70-25'45"W
Elevation: 94 Surface Temp: 12.1 Stratified: MIXED Site Depth: 11.6
Lake Area: 139 Watershed Area: 1308 WA/LA: 9.4 Hydro Type: RESERVOIR
Residence Time: 1.03 Secchi Depth: 6.8 Turbidity: 0.3 Color: 10
Closed pH: 7.08 Equil. pH: 7.45 ANC: 199.7 DOC: 2.62
Closed DIC: 2.48 Equil. DIC: 2.32 Meas. Cond: 37.4 Cal. Cond: 39.3
Ca: 181.3 Mg: 51.1 Na: 98.9 K: 9.8 NH4: 0.9
SO4: 75.0 HCO3: 183.0 Cl: 74.9 NO3: 0.2 F: 2.7
Sum Cations: 342.0 Sum Anions: 336.0 Cations/Anions: 1.02 Tot. P: 4.0
Tot. Al: 21.4 Ext. Al: 0.1 Fe: 29.0 Mn: 7.0 SiO2: 4.12

ID: 1E1-017 Name: WEED POND State: ME Date: 16OCT84
Sample Type: REGULAR Latitude: 46-02'00"N Longitude: 68-52'30"W
Elevation: 349 Surface Temp: 10.4 Stratified: MIXED Site Depth: 2.3
Lake Area: 9 Watershed Area: 355 WA/LA: 39.9 Hydro Type: DRAINAGE
Residence Time: 0.05 Secchi Depth: 2.2 Turbidity: 1.1 Color: 30
Closed pH: 6.82 Equil. pH: 7.25 ANC: 120.1 DOC: 3.69
Closed DIC: 1.66 Equil. DIC: 1.32 Meas. Cond: 20.3 Cal. Cond: 19.1
Ca: 95.4 Mg: 17.4 Na: 64.5 K: 8.8 NH4: 1.9
SO4: 29.1 HCO3: 106.8 Cl: 12.4 NO3: 0.7 F: 6.9
Sum Cations: 188.2 Sum Anions: 156.0 Cations/Anions: 1.21 Tot. P: 1.7
Tot. Al: 85.2 Ext. Al: 18.2 Fe: 70.0 Mn: 11.0 SiO2: 7.02

ID: 1E1-018 Name: LILY PAD POND State: ME Date: 16OCT84
Sample Type: REGULAR Latitude: 45-52'35"N Longitude: 69-02'30"W
Elevation: 312 Surface Temp: 10.1 Stratified: MIXED Site Depth: 4.3
Lake Area: 8 Watershed Area: 588 WA/LA: 78.4 Hydro Type: DRAINAGE
Residence Time: 0.04 Secchi Depth: 1.4 Turbidity: 1.3 Color: 45
Closed pH: 6.84 Equil. pH: 7.30 ANC: 129.1 DOC: 6.01
Closed DIC: 1.71 Equil. DIC: 1.27 Meas. Cond: 28.4 Cal. Cond: 30.0
Ca: 151.6 Mg: 43.8 Na: 66.2 K: 19.1 NH4: 0.9
SO4: 83.8 HCO3: 115.5 Cl: 16.5 NO3: 0.1 F: 13.3
Sum Cations: 281.8 Sum Anions: 229.3 Cations/Anions: 1.23 Tot. P: 5.1
Tot. Al: 93.1 Ext. Al: 23.7 Fe: 95.0 Mn: 10.0 SiO2: 4.39

(continued)

TABLE 3-1 (continued)

ID: 1E1-020 Name: SECOND DEBSCONEAG LAKE State: ME Date: 17OCT84
Sample Type: REGULAR Latitude: 45-46'45"N Longitude: 69-02'30"W
Elevation: 162 Surface Temp: 11.1 Stratified: MIXED Site Depth: 7.3
Lake Area: 70 Watershed Area: 5407 WA/LA: 77.6 Hydro Type: DRAINAGE
Residence Time: 0.07 Secchi Depth: 6.2 Turbidity: 0.4 Color: 15
Closed pH: 7.12 Equil. pH: 7.15 ANC: 123.1 DOC: 2.27
Closed DIC: 1.38 Equil. DIC: 1.44 Meas. Cond: 26.8 Cal. Cond: 27.6
Ca: 138.0 Mg: 32.7 Na: 52.4 K: 13.5 NH4: 0.8
SO4: 83.0 HCO3: 113.2 Cl: 14.1 NO3: 0.3 F: 20.9
Sum Cations: 237.4 Sum Anions: 231.5 Cations/Anions: 1.03 Tot. P: 0.0
Tot. Al: 31.1 Ext. Al: 8.8 Fe: 0.0 Mn: 7.0 SiO2: 4.70

ID: 1E1-022 Name: SECOND CHAIN LAKE State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 45-00'00"N Longitude: 67-44'00"W
Elevation: 69 Surface Temp: 11.8 Stratified: MIXED Site Depth: 6.3
Lake Area: 269 Watershed Area: 3451 WA/LA: 12.8 Hydro Type: DRAINAGE
Residence Time: 0.33 Secchi Depth: 3.5 Turbidity: 0.5 Color: 35
Closed pH: 7.04 Equil. pH: 7.07 ANC: 128.4 DOC: 5.66
Closed DIC: 1.47 Equil. DIC: 1.33 Meas. Cond: 25.9 Cal. Cond: 26.6
Ca: 130.1 Mg: 51.9 Na: 60.5 K: 8.6 NH4: 0.9
SO4: 53.4 HCO3: 113.2 Cl: 38.8 NO3: 0.1 F: 1.4
Sum Cations: 252.2 Sum Anions: 207.0 Cations/Anions: 1.22 Tot. P: 10.3
Tot. Al: 72.3 Ext. Al: 0.7 Fe: 16.0 Mn: 9.0 SiO2: 1.29

ID: 1E1-023 Name: GARDNER POND State: ME Date: 16OCT84
Sample Type: REGULAR Latitude: 46-04'28"N Longitude: 68-39'54"W
Elevation: 226 Surface Temp: 12.7 Stratified: MIXED Site Depth: 0.9
Lake Area: 9 Watershed Area: 246 WA/LA: 27.6 Hydro Type: DRAINAGE
Residence Time: 0.03 Secchi Depth: 0.9 Turbidity: 1.2 Color: 105
Closed pH: 6.65 Equil. pH: 7.11 ANC: 111.2 DOC: 13.68
Closed DIC: 1.21 Equil. DIC: 0.81 Meas. Cond: 21.8 Cal. Cond: 20.4
Ca: 105.4 Mg: 68.9 Na: 50.9 K: 7.2 NH4: 1.5
SO4: 36.8 HCO3: 70.0 Cl: 13.6 NO3: 0.0 F: 1.4
Sum Cations: 234.2 Sum Anions: 121.7 Cations/Anions: 1.92 Tot. P: 8.1
Tot. Al: 138.4 Ext. Al: 25.2 Fe: 200.0 Mn: 11.0 SiO2: 3.84

ID: 1E1-024 Name: FROST POND State: ME Date: 17OCT84
Sample Type: REGULAR Latitude: 45-54'30"N Longitude: 69-11'15"W
Elevation: 333 Surface Temp: 10.4 Stratified: MIXED Site Depth: 6.7
Lake Area: 78 Watershed Area: 606 WA/LA: 7.8 Hydro Type: DRAINAGE
Residence Time: 0.58 Secchi Depth: 3.2 Turbidity: 0.4 Color: 20
Closed pH: 7.28 Equil. pH: 7.35 ANC: 163.0 DOC: 4.40
Closed DIC: 1.80 Equil. DIC: 1.82 Meas. Cond: 31.3 Cal. Cond: 31.4
Ca: 164.9 Mg: 74.0 Na: 38.6 K: 7.5 NH4: 1.3
SO4: 91.9 HCO3: 152.3 Cl: 10.9 NO3: 0.0 F: 1.3
Sum Cations: 286.3 Sum Anions: 256.6 Cations/Anions: 1.12 Tot. P: 0.0
Tot. Al: 31.2 Ext. Al: 7.7 Fe: 54.0 Mn: 9.0 SiO2: 1.17

ID: 1E1-025 Name: BEAN PONDS (MIDDLE) State: ME Date: 17OCT84
Sample Type: REGULAR Latitude: 45-48'45"N Longitude: 69-11'30"W
Elevation: 319 Surface Temp: 11.0 Stratified: MIXED Site Depth: 6.4
Lake Area: 15 Watershed Area: 425 WA/LA: 28.0 Hydro Type: DRAINAGE
Residence Time: 0.16 Secchi Depth: 3.4 Turbidity: 0.3 Color: 35
Closed pH: 6.74 Equil. pH: 7.17 ANC: 110.0 DOC: 6.31
Closed DIC: 1.34 Equil. DIC: 1.12 Meas. Cond: 26.4 Cal. Cond: 25.1
Ca: 138.1 Mg: 53.7 Na: 32.8 K: 6.1 NH4: 1.0
SO4: 87.8 HCO3: 87.8 Cl: 10.9 NO3: 0.1 F: 0.9
Sum Cations: 231.9 Sum Anions: 187.5 Cations/Anions: 1.24 Tot. P: 9.3
Tot. Al: 135.1 Ext. Al: 16.0 Fe: 26.0 Mn: 20.0 SiO2: 2.42

(continued)

TABLE 3-1 (continued)

ID: 1E1-027 Name: (NO NAME) State: ME Date: 17OCT84
Sample Type: REGULAR Latitude: 45-47'25"N Longitude: 69-14'30"W
Elevation: 317 Surface Temp: 11.1 Stratified: MIXED Site Depth: 4.8
Lake Area: 10 Watershed Area: 60 WA/LA: 5.9 Hydro Type: DRAINAGE
Residence Time: 0.54 Secchi Depth: 2.5 Turbidity: 0.8 Color: 50
Closed pH: 6.83 Equil. pH: 7.21 ANC: 121.4 DOC: 7.38
Closed DIC: 1.34 Equil. DIC: 1.24 Meas. Cond: 24.8 Cal. Cond: 24.4
Ca: 139.9 Mg: 55.9 Na: 32.7 K: 7.7 NH4: 1.5
SO4: 68.6 HCO3: 99.5 Cl: 9.3 NO3: 1.0 F: 1.6
Sum Cations: 237.8 Sum Anions: 180.1 Cations/Anions: 1.32 Tot. P: 11.0
Tot. Al: 129.8 Ext. Al: 12.8 Fe: 60.0 Mn: 13.0 SiO2: 2.42

ID: 1E1-028 Name: MILLINOCKET LAKE State: ME Date: 17OCT84
Sample Type: REGULAR Latitude: 45-45'00"N Longitude: 68-47'00"W
Elevation: 147 Surface Temp: 11.0 Stratified: MIXED Site Depth: 16.8
Lake Area: 3309 Watershed Area: 28876 WA/LA: 8.7 Hydro Type: DRAINAGE
Residence Time: 1.32 Secchi Depth: 4.4 Turbidity: 0.4 Color: 30
Closed pH: 7.10 Equil. pH: .24 ANC: 128.6 DOC: 3.34
Closed DIC: 1.50 Equil. DIC: 1.45 Meas. Cond: 24.3 Cal. Cond: 24.6
Ca: 124.0 Mg: 30.8 Na: 54.9 K: 14.0 NH4: 0.8
SO4: 57.6 HCO3: 112.9 Cl: 13.8 NO3: 1.8 F: 15.5
Sum Cations: 224.5 Sum Anions: 201.8 Cations/Anions: 1.11 Tot. P: 3.7
Tot. Al: 30.5 Ext. Al: 9.7 Fe: 23.0 Mn: 7.0 SiO2: 5.64

ID: 1E1-029 Name: SALMON STREAM LAKE State: ME Date: 17OCT84
Sample Type: REGULAR Latitude: 45-43'30"N Longitude: 68-29'09"W
Elevation: 122 Surface Temp: 10.9 Stratified: MIXED Site Depth: 2.2
Lake Area: 260 Watershed Area: 11292 WA/LA: 43.4 Hydro Type: DRAINAGE
Residence Time: 0.05 Secchi Depth: 2.2 Turbidity: 0.7 Color: 40
Closed pH: 7.49 Equil. pH: 7.82 ANC: 439.0 DOC: 8.79
Closed DIC: 4.86 Equil. DIC: 4.61 Meas. Cond: 60.2 Cal. Cond: 59.1
Ca: 372.3 Mg: 104.9 Na: 75.7 K: 6.0 NH4: 1.2
SO4: 72.5 HCO3: 382.0 Cl: 53.7 NO3: 0.0 F: 1.4
Sum Cations: 560.1 Sum Anions: 510.5 Cations/Anions: 1.10 Tot. P: 1.5
Tot. Al: 77.7 Ext. Al: 14.5 Fe: 28.0 Mn: 9.0 SiO2: 2.80

ID: 1E1-030 Name: LOWER JO-MARY LAKE State: ME Date: 17OCT84
Sample Type: REGULAR Latitude: 45-41'00"N Longitude: 69-00'00"W
Elevation: 150 Surface Temp: 11.3 Stratified: MIXED Site Depth: 14.6
Lake Area: 75 Watershed Area: 21834 WA/LA: 291.1 Hydro Type: DRAINAGE
Residence Time: 0.04 Secchi Depth: 5.1 Turbidity: 0.3 Color: 20
Closed pH: 6.94 Equil. pH: 7.01 ANC: 81.2 DOC: 3.54
Closed DIC: 0.88 Equil. DIC: 0.92 Meas. Cond: 20.3 Cal. Cond: 18.9
Ca: 91.5 Mg: 28.4 Na: 40.2 K: 9.5 NH4: 0.9
SO4: 58.9 HCO3: 71.4 Cl: 12.9 NO3: 0.0 F: 4.5
Sum Cations: 170.6 Sum Anions: 147.7 Cations/Anions: 1.16 Tot. P: 1.5
Tot. Al: 23.9 Ext. Al: 8.7 Fe: 14.0 Mn: 7.0 SiO2: 2.96

ID: 1E1-031 Name: DOLBY POND (NORTHERN) State: ME Date: 17OCT84
Sample Type: REGULAR Latitude: 45-41'00"N Longitude: 68-37'30"W
Elevation: 102 Surface Temp: 11.1 Stratified: MIXED Site Depth: 4.3
Lake Area: 788 Watershed Area: 6348 WA/LA: 8.1 Hydro Type: RESERVOIR
Residence Time: 0.43 Secchi Depth: 2.1 Turbidity: 1.1 Color: 50
Closed pH: 6.81 Equil. pH: 7.34 ANC: 145.4 DOC: 7.98
Closed DIC: 1.81 Equil. DIC: 1.46 Meas. Cond: 31.3 Cal. Cond: 32.3
Ca: 173.4 Mg: 68.5 Na: 51.5 K: 10.4 NH4: 1.1
SO4: 103.0 HCO3: 114.7 Cl: 18.0 NO3: 0.0 F: 3.2
Sum Cations: 305.0 Sum Anions: 238.9 Cations/Anions: 1.28 Tot. P: 2.9
Tot. Al: 62.0 Ext. Al: 11.4 Fe: 91.0 Mn: 14.0 SiO2: 2.84

(continued)

TABLE 3-1 (continued)

ID: 1E1-034 Name: TROUT POND State: ME Date: 19OCT84
Sample Type: REGULAR Latitude: 45-28'35"N Longitude: 69-23'30"W
Elevation: 375 Surface Temp: 8.8 Stratified: MIXED Site Depth: 6.1
Lake Area: 7 Watershed Area: 738 WA/LA: 101.1 Hydro Type: DRAINAGE
Residence Time: 0.04 Secchi Depth: 2.2 Turbidity: 0.9 Color: 40
Closed pH: 7.03 Equil. pH: 7.46 ANC: 185.9 DOC: 6.15
Closed DIC: 2.29 Equil. DIC: 1.98 Meas. Cond: 29.0 Cal. Cond: 30.6
Ca: 160.6 Mg: 78.2 Na: 51.5 K: 8.2 NH4: 1.9
SO4: 63.7 HCO3: 162.3 Cl: 13.7 NO3: 1.3 F: 1.1
Sum Cations: 300.5 Sum Anions: 242.3 Cations/Anions: 1.24 Tot. P: 10.8
Tot. Al: 128.4 Ext. Al: 1.8 Fe: 204.0 Mn: 11.0 SiO2: 4.16

ID: 1E1-036 Name: CROOKED BROOK LAKE State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 45-33'00"N Longitude: 67-43'15"W
Elevation: 139 Surface Temp: 10.9 Stratified: MIXED Site Depth: 0.9
Lake Area: 21 Watershed Area: 171 WA/LA: 8.0 Hydro Type: DRAINAGE
Residence Time: 0.11 Secchi Depth: 0.9 Turbidity: 1.0 Color: 95
Closed pH: 5.73 Equil. pH: 5.80 ANC: 30.0 DOC: 14.73
Closed DIC: 0.37 Equil. DIC: 0.16 Meas. Cond: 16.2 Cal. Cond: 13.2
Ca: 64.6 Mg: 37.2 Na: 36.1 K: 0.2 NH4: 7.5
SO4: 40.9 HCO3: 7.8 Cl: 8.3 NO3: 0.0 F: 1.1
Sum Cations: 147.5 Sum Anions: 58.1 Cations/Anions: 2.54 Tot. P: 10.2
Tot. Al: 203.7 Ext. Al: 32.6 Fe: 172.0 Mn: 29.0 SiO2: 10.68

ID: 1E1-038 Name: EBEEMEE LAKE State: ME Date: 19OCT84
Sample Type: REGULAR Latitude: 45-25'30"N Longitude: 69-00'30"W
Elevation: 130 Surface Temp: 10.6 Stratified: MIXED Site Depth: 16.2
Lake Area: 335 Watershed Area: 27243 WA/LA: 81.4 Hydro Type: DRAINAGE
Residence Time: 0.18 Secchi Depth: 4.3 Turbidity: 0.5 Color: 25
Closed pH: 7.02 Equil. pH: 7.18 ANC: 156.9 DOC: 3.08
Closed DIC: 1.92 Equil. DIC: 1.75 Meas. Cond: 25.3 Cal. Cond: 24.9
Ca: 109.7 Mg: 52.8 Na: 60.8 K: 10.5 NH4: 1.0
SO4: 45.0 HCO3: 138.3 Cl: 22.1 NO3: 1.6 F: 2.2
Sum Cations: 234.8 Sum Anions: 209.5 Cations/Anions: 1.12 Tot. P: 13.1
Tot. Al: 42.2 Ext. Al: 5.8 Fe: 104.0 Mn: 7.0 SiO2: 4.81

ID: 1E1-040 Name: LT.GREENWOOD POND (WEST) State: ME Date: 17OCT84
Sample Type: REGULAR Latitude: 45-22'00"N Longitude: 69-24'30"W
Elevation: 208 Surface Temp: 11.4 Stratified: MIXED Site Depth: 10.7
Lake Area: 31 Watershed Area: 262 WA/LA: 8.4 Hydro Type: DRAINAGE
Residence Time: 1.04 Secchi Depth: 7.8 Turbidity: 0.3 Color: 5
Closed pH: 6.64 Equil. pH: 6.73 ANC: 39.9 DOC: 1.61
Closed DIC: 0.59 Equil. DIC: 0.57 Meas. Cond: 18.0 Cal. Cond: 19.4
Ca: 65.8 Mg: 42.5 Na: 34.5 K: 6.6 NH4: 0.2
SO4: 93.7 HCO3: 43.4 Cl: 18.0 NO3: 0.2 F: 1.1
Sum Cations: 149.8 Sum Anions: 156.4 Cations/Anions: 0.96 Tot. P: 1.9
Tot. Al: 16.7 Ext. Al: 7.7 Fe: 4.0 Mn: 10.0 SiO2: 1.83

ID: 1E1-044 Name: SOUTH POND State: ME Date: 17OCT84
Sample Type: REGULAR Latitude: 45-20'30"N Longitude: 69-27'25"W
Elevation: 210 Surface Temp: 11.2 Stratified: MIXED Site Depth: 5.8
Lake Area: 6 Watershed Area: 39 WA/LA: 6.5 Hydro Type: DRAINAGE
Residence Time: 0.71 Secchi Depth: 3.5 Turbidity: 0.6 Color: 35
Closed pH: 6.99 Equil. pH: 7.11 ANC: 128.2 DOC: 5.84
Closed DIC: 1.43 Equil. DIC: 1.31 Meas. Cond: 23.2 Cal. Cond: 23.5
Ca: 129.6 Mg: 57.2 Na: 32.2 K: 3.2 NH4: 1.1
SO4: 66.1 HCO3: 104.7 Cl: 10.3 NO3: 0.2 F: 0.9
Sum Cations: 223.4 Sum Anions: 182.3 Cations/Anions: 1.23 Tot. P: 2.3
Tot. Al: 59.3 Ext. Al: 12.0 Fe: 15.0 Mn: 10.0 SiO2: 0.93

(continued)

TABLE 3-1 (continued)

ID: 1E1-045 Name: BIG GRAPEVINE POND State: ME Date: 19OCT84
Sample Type: REGULAR Latitude: 45-18'45"N Longitude: 69-15'30"W
Elevation: 216 Surface Temp: 10.6 Stratified: MIXED Site Depth: 0.9
Lake Area: 5 Watershed Area: 75 WA/LA: 16.7 Hydro Type: DRAINAGE
Residence Time: 0.05 Secchi Depth: 0.9 Turbidity: 1.3 Color: 30
Closed pH: 6.29 Equil. pH: 6.77 ANC: 54.5 DOC: 6.94
Closed DIC: 0.89 Equil. DIC: 0.53 Meas. Cond: 15.2 Cal. Cond: 14.7
Ca: 58.9 Mg: 33.5 Na: 38.2 K: 3.0 NH4: 1.5
SO4: 51.6 HCO3: 41.4 Cl: 11.3 NO3: 1.2 F: 1.2
Sum Cations: 135.5 Sum Anions: 106.7 Cations/Anions: 1.27 Tot. P: 15.2
Tot. Al: 63.4 Ext. Al: 6.5 Fe: 68.0 Mn: 21.0 SiO2: 0.37

ID: 1E1-046 Name: LITTLE ROUND POND State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 45-18'48"N Longitude: 68-26'55"W
Elevation: 114 Surface Temp: 11.7 Stratified: MIXED Site Depth: 3.6
Lake Area: 33 Watershed Area: 192 WA/LA: 5.8 Hydro Type: DRAINAGE
Residence Time: 0.59 Secchi Depth: 4.0 Turbidity: 0.7 Color: 20
Closed pH: 6.53 Equil. pH: 6.70 ANC: 51.4 DOC: 4.16
Closed DIC: 0.71 Equil. DIC: 0.54 Meas. Cond: 18.6 Cal. Cond: 19.7
Ca: 78.6 Mg: 27.6 Na: 53.5 K: 8.9 NH4: 1.4
SO4: 78.6 HCO3: 43.0 Cl: 22.1 NO3: 0.0 F: 2.8
Sum Cations: 170.4 Sum Anions: 146.6 Cations/Anions: 1.16 Tot. P: 7.4
Tot. Al: 41.5 Ext. Al: 1.0 Fe: 6.0 Mn: 0.0 SiO2: 1.88

ID: 1E1-047 Name: KEG LAKE State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 45-19'30"N Longitude: 68-03'15"W
Elevation; 91 Surface Temp: 11.7 Stratified: MIXED Site Depth: 10.0
Lake Area: 146 Watershed Area: 842 WA/LA: 5.8 Hydro Type: DRAINAGE
Residence Time: 1.34 Secchi Depth: 3.9 Turbidity: 0.5 Color: 15
Closed pH: 6.91 Equil. pH: 7.08 ANC: 98.1 DOC: 4.18
Closed DIC: 1.29 Equil. DIC: 1.05 Meas. Cond: 23.9 Cal. Cond: 25.1
Ca: 114.7 Mg: 40.2 Na: 59.9 K: 10.5 NH4: 1.0
SO4: 72.4 HCO3: 90.9 Cl: 30.1 NO3: 0.0 F: 2.4
Sum Cations: 226.4 Sum Anions: 196.0 Cations/Anions: 1.16 Tot. P: 7.5
Tot. Al: 61.7 Ext. Al: 0.0 Fe: 8.0 Mn: 12.0 SiO2: 2.43

ID: 1E1-050 Name: LOWER OXBROOK LAKE State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 45-17'00"N Longitude: 67-50'30"W
Elevation: 116 Surface Temp: 11.6 Stratified: MIXED Site Depth: 6.7
Lake Area: 141 Watershed Area: 1699 WA/LA: 12.1 Hydro Type: DRAINAGE
Residence Time: 0.47 Secchi Depth: 5.8 Turbidity: 0.5 Color: 20
Closed pH: 6.64 Equil. pH: 6.84 ANC: 51.9 DOC: 4.03
Closed DIC: 0.60 Equil. DIC: 0.54 Meas. Cond: 20.3 Cal. Cond: 20.0
Ca: 79.7 Mg: 31.8 Na: 52.5 K: 9.5 NH4: 0.8
SO4: 72.6 HCO3: 44.0 Cl: 28.6 NO3: 0.0 F: 3.4
Sum Cations: 174.5 Sum Anions: 148.7 Cations/Anions: 1.17 Tot. P: 5.8
Tot. Al: 48.5 Ext. Al: 0.5 Fe: 0.0 Mn: 5.0 SiO2: 2.04

ID: 1E1-051 Name: WHETSTONE POND State: ME Date: 19OCT84
Sample Type: REGULAR Latitude: 45-13'00"N Longitude: 69-33'30"W
Elevation: 215 Surface Temp: 11.0 Stratified: STRONG Site Depth: 38.1
Lake Area: 101 Watershed Area: 570 WA/LA: 5.7 Hydro Type: DRAINAGE
Residence Time: 5.27 Secchi Depth: 4.5 Turbidity: 0.2 Color: 10
Closed pH: 6.87 Equil. pH: 7.03 ANC: 82.5 DOC: 3.35
Closed DIC: 1.05 Equil. DIC: 0.92 Meas. Cond: 19.6 Cal. Cond: 20.0
Ca: 92.9 Mg: 35.7 Na: 38.8 K: 7.8 NH4: 1.0
SO4: 65.0 HCO3: 75.9 Cl: 16.7 NO3: 1.0 F: 1.2
Sum Cations: 176.3 Sum Anions: 159.8 Cations/Anions: 1.10 Tot. P: 3.1
Tot. Al: 61.5 Ext. Al: 2.9 Fe: 0.0 Mn: 0.0 SiO2: 1.48

(continued)

TABLE 3-1 (continued)

ID: 1E1-052 Name: SPRING LAKE State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 45-13'00"N Longitude: 68-13'00"W
Elevation: 102 Surface Temp: 12.4 Stratified: MIXED Site Depth: 13.4
Lake Area: 176 Watershed Area: 578 WA/LA: 3.3 Hydro Type: DRAINAGE
Residence Time: 2.98 Secchi Depth: 4.9 Turbidity: 0.4 Color: 20
Closed pH: 6.63 Equil. pH: 6.91 ANC: 64.4 DOC: 3.72
Closed DIC: 0.91 Equil. DIC: 0.70 Meas. Cond: 20.8 Cal. Cond: 20.6
Ca: 73.7 Mg: 33.2 Na: 58.2 K: 14.1 NH4: 1.1
SO4: 72.5 HCO3: 49.9 Cl: 27.7 NO3: 0.6 F: 3.0
Sum Cations: 180.4 Sum Anions: 153.7 Cations/Anions: 1.17 Tot. P: 6.0
Tot. Al: 27.8 Ext. Al: 1.2 Fe: 9.0 Mn: 4.0 SiO2: 1.38

ID: 1E1-053 Name: PALMER POND State: ME Date: 19OCT84
Sample Type: REGULAR Latitude: 45-10'00"N Longitude: 69-43'50"W
Elevation: 382 Surface Temp: 10.7 Stratified: WEAK Site Depth: 11.8
Lake Area: 15 Watershed Area: 249 WA/LA: 17.2 Hydro Type: DRAINAGE
Residence Time: 0.59 Secchi Depth: 2.0 Turbidity: 1.0 Color: 55
Closed pH: 6.72 Equil. pH: 7.10 ANC: 103.9 DOC: 8.97
Closed DIC: 1.26 Equil. DIC: 0.96 Meas. Cond: 24.8 Cal. Cond: 22.6
Ca: 153.1 Mg: 33.9 Na: 32.0 K: 9.3 NH4: 1.2
SO4: 61.5 HCO3: 71.9 Cl: 11.1 NO3: 2.5 F: 0.9
Sum Cations: 229.8 Sum Anions: 147.9 Cations/Anions: 1.55 Tot. P: 8.4
Tot. Al: 507.3 Ext. Al: 18.4 Fe: 26.0 Mn: 7.0 SiO2: 1.92

ID: 1E1-054 Name: DUCK LAKE State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 45-09'00"N Longitude: 68-06'00"W
Elevation: 158 Surface Temp: 12.1 Stratified: MIXED Site Depth: 25.9
Lake Area: 475 Watershed Area: 1588 WA/LA: 3.3 Hydro Type: DRAINAGE
Residence Time: 5.73 Secchi Depth: 7.8 Turbidity: 0.3 Color: 5
Closed pH: 6.63 Equil. pH: 6.76 ANC: 41.3 DOC: 2.42
Closed DIC: 0.30 Equil. DIC: 0.44 Meas. Cond: 20.3 Cal. Cond: 21.8
Ca: 77.6 Mg: 26.5 Na: 58.9 K: 11.0 NH4: 0.8
SO4: 92.5 HCO3: 38.2 Cl: 33.1 NO3: 0.1 F: 3.7
Sum Cations: 175.0 Sum Anions: 167.7 Cations/Anions: 1.04 Tot. P: 3.5
Tot. Al: 32.4 Ext. Al: 3.5 Fe: 18.0 Mn: 7.0 SiO2: 2.18

ID: 1E1-055 Name: OTTER POND State: ME Date: 19OCT84
Sample Type: REGULAR Latitude: 45-05'52"N Longitude: 69-41'35"W
Elevation: 283 Surface Temp: 10.4 Stratified: MIXED Site Depth: 2.0
Lake Area: 7 Watershed Area: 16 WA/LA: 2.3 Hydro Type: DRAINAGE
Residence Time: 0.57 Secchi Depth: 2.0 Turbidity: 0.3 Color: 5
Closed pH: 6.73 Equil. pH: 7.18 ANC: 87.8 DOC: 4.44
Closed DIC: 1.28 Equil. DIC: 1.01 Meas. Cond: 83.4 Cal. Cond: 79.3
Ca: 145.2 Mg: 73.5 Na: 463.7 K: 9.8 NH4: 1.6
SO4: 90.1 HCO3: 79.0 Cl: 418.4 NO3: 0.0 F: 0.8
Sum Cations: 693.9 Sum Anions: 588.3 Cations/Anions: 1.18 Tot. P: 8.3
Tot. Al: 21.1 Ext. Al: 0.0 Fe: 0.0 Mn: 0.0 SiO2: 0.18

ID: 1E1-056 Name: GETCHEL LAKES (NORTHERN) State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 45-08'00"N Longitude: 67-52'40"W
Elevation: 92 Surface Temp: 11.3 Stratified: MIXED Site Depth: 2.1
Lake Area: 23 Watershed Area: 85 WA/LA: 3.8 Hydro Type: DRAINAGE
Residence Time: 0.38 Secchi Depth: 2.1 Turbidity: 0.6 Color: 35
Closed pH: 6.99 Equil. pH: 7.53 ANC: 198.8 DOC: 4.00
Closed DIC: 2.61 Equil. DIC: 2.11 Meas. Cond: 30.4 Cal. Cond: 33.4
Ca: 169.4 Mg: 44.0 Na: 77.3 K: 9.6 NH4: 1.1
SO4: 51.8 HCO3: 208.3 Cl: 34.7 NO3: 0.0 F: 3.3
Sum Cations: 301.3 Sum Anions: 298.4 Cations/Anions: 1.01 Tot. P: 11.0
Tot. Al: 19.5 Ext. Al: 0.0 Fe: 238.0 Mn: 36.0 SiO2: 3.38

(continued)

TABLE 3-1 (continued)

ID: 1E1-057 Name: OLAMON POND State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 45-01'40"N Longitude: 68-23'40"W
Elevation: 88 Surface Temp: 10.9 Stratified: MIXED Site Depth: 6.0
Lake Area: 5 Watershed Area: 212 WA/LA: 42.4 Hydro Type: DRAINAGE
Residence Time: 0.13 Secchi Depth: 0.7 Turbidity: 1.2 Color: 125
Closed pH: 6.42 Equil. pH: 7.32 ANC: 192.4 DOC: 15.59
Closed DIC: 3.02 Equil. DIC: 1.63 Meas. Cond: 34.0 Cal. Cond: 32.7
Ca: 211.6 Mg: 82.2 Na: 59.0 K: 9.7 NH4: 2.1
SO4: 45.2 HCO3: 134.8 Cl: 28.5 NO3: 0.3 F: 1.6
Sum Cations: 364.9 Sum Anions: 210.4 Cations/Anions: 1.73 Tot. P: 21.1
Tot. Al: 137.3 Ext. Al: 13.4 Fe: 273.0 Mn: 52.0 SiO2: 3.50

ID: 1E1-058 Name: LOWER SABAGO LAKE State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 45-00'00"N Longitude: 68-01'30"W
Elevation: 104 Surface Temp: 11.8 Stratified: MIXED Site Depth: 7.8
Lake Area: 310 Watershed Area: 6148 WA/LA: 19.9 Hydro Type: DRAINAGE
Residence Time: 0.34 Secchi Depth: 2.9 Turbidity: 0.5 Color: 50
Closed pH: 6.80 Equil. pH: 7.14 ANC: 96.1 DOC: 6.05
Closed DIC: 1.12 Equil. DIC: 0.97 Meas. Cond: 23.1 Cal. Cond: 23.4
Ca: 88.5 Mg: 32.5 Na: 80.6 K: 16.9 NH4: 0.9
SO4: 48.8 HCO3: 82.7 Cl: 41.6 NO3: 0.3 F: 4.6
Sum Cations: 219.5 Sum Anions: 178.0 Cations/Anions: 1.23 Tot. P: 13.5
Tot. Al: 57.5 Ext. Al: 8.1 Fe: 37.0 Mn: 11.0 SiO2: 4.47

ID: 1E1-059 Name: POSSUM LAKE State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 45-01'00"N Longitude: 67-41'45"W
Elevation: 81 Surface Temp: 11.7 Stratified: MIXED Site Depth: 6.0
Lake Area: 9 Watershed Area: 26 WA/LA: 2.8 Hydro Type: DRAINAGE
Residence Time: 1.12 Secchi Depth: 4.8 Turbidity: 0.4 Color: 10
Closed pH: 6.39 Equil. pH: 6.69 ANC: 48.8 DOC: 3.89
Closed DIC: 0.56 Equil. DIC: 0.42 Meas. Cond: 20.6 Cal. Cond: 19.4
Ca: 55.1 Mg: 31.9 Na: 66.7 K: 8.0 NH4: 1.0
SO4: 67.4 HCO3: 35.1 Cl: 42.8 NO3: 0.0 F: 1.4
Sum Cations: 163.0 Sum Anions: 146.6 Cations/Anions: 1.11 Tot. P: 7.3
Tot. Al: 30.8 Ext. Al: 0.2 Fe: 8.0 Mn: 15.0 SiO2: 0.27

ID: 1E1-060 Name: BRACEY POND State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 44-57'45"N Longitude: 68-07'20"W
Elevation: 117 Surface Temp: 11.7 Stratified: MIXED Site Depth: 8.7
Lake Area: 8 Watershed Area: 75 WA/LA: 9.6 Hydro Type: DRAINAGE
Residence Time: 0.74 Secchi Depth: 4.6 Turbidity: 0.5 Color: 20
Closed pH: 6.72 Equil. pH: 7.29 ANC: 106.9 DOC: 4.03
Closed DIC: 1.42 Equil. DIC: 1.21 Meas. Cond: 23.1 Cal. Cond: 23.5
Ca: 114.8 Mg: 33.6 Na: 54.6 K: 9.3 NH4: 1.2
SO4: 35.1 HCO3: 96.9 Cl: 54.3 NO3: 0.2 F: 1.3
Sum Cations: 213.6 Sum Anions: 188.0 Cations/Anions: 1.14 Tot. P: 8.2
Tot. Al: 46.2 Ext. Al: 0.0 Fe: 65.0 Mn: 20.0 SiO2: 1.34

ID: 1E1-061 Name: LITTLE SEAVEY LAKE State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 44-56'15"N Longitude: 67-38'00"W
Elevation: 64 Surface Temp: 11.3 Stratified: MIXED Site Depth: 4.2
Lake Area: 42 Watershed Area: 645 WA/LA: 15.3 Hydro Type: DRAINAGE
Residence Time: 0.19 Secchi Depth: 3.4 Turbidity: 0.5 Color: 25
Closed pH: 6.75 Equil. pH: 7.00 ANC: 80.6 DOC: 5.05
Closed DIC: 0.99 Equil. DIC: 0.81 Meas. Cond: 40.4 Cal. Cond: 39.8
Ca: 87.4 Mg: 37.9 Na: 213.6 K: 5.8 NH4: 1.1
SO4: 59.7 HCO3: 57.2 Cl: 182.5 NO3: 0.2 F: 1.7
Sum Cations: 346.0 Sum Anions: 301.3 Cations/Anions: 1.15 Tot. P: 13.8
Tot. Al: 53.8 Ext. Al: 5.6 Fe: 77.0 Mn: 7.0 SiO2: 1.98

(continued)

TABLE 3-1 (continued)

ID: 1E1-062 Name: LONG POND State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 44-55'00"N Longitude: 68-16'11"W
Elevation: 119 Surface Temp: 12.3 Stratified: MIXED Site Depth: 8.5
Lake Area: 106 Watershed Area: 777 WA/LA: 7.4 Hydro Type: DRAINAGE
Residence Time: 0.95 Secchi Depth: 5.4 Turbidity: 0.3 Color: 20
Closed pH: 6.99 Equil. pH: 7.16 ANC: 91.6 DOC: 3.02
Closed DIC: 1.06 Equil. DIC: 0.99 Meas. Cond: 24.3 Cal. Cond: 25.2
Ca: 96.4 Mg: 36.7 Na: 75.1 K: 10.4 NH4: 0.8
SO4: 64.3 HCO3: 85.7 Cl: 44.6 NO3: 0.0 F: 9.6
Sum Cations: 219.5 Sum Anions: 204.3 Cations/Anions: 1.07 Tot. P: 11.7
Tot. Al: 30.6 Ext. Al: 0.0 Fe: 14.0 Mn: 4.0 SiO2: 1.75

ID: 1E1-063 Name: SEAVEY LAKE State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 44-54'20"N Longitude: 67-37'30"W
Elevation: 51 Surface Temp: 11.1 Stratified: MIXED Site Depth: 5.2
Lake Area: 36 Watershed Area: 1614 WA/LA: 44.3 Hydro Type: DRAINAGE
Residence Time: 0.08 Secchi Depth: 2.3 Turbidity: 0.8 Color: 65
Closed pH: 6.59 Equil. pH: 7.01 ANC: 89.9 DOC: 8.36
Closed DIC: 1.12 Equil. DIC: 0.77 Meas. Cond: 32.1 Cal. Cond: 32.1
Ca: 93.8 Mg: 37.8 Na: 155.6 K: 7.6 NH4: 1.2
SO4: 42.4 HCO3: 72.2 Cl: 121.8 NO3: 0.4 F: 1.7
Sum Cations: 296.3 Sum Anions: 238.4 Cations/Anions: 1.24 Tot. P: 10.4
Tot. Al: 150.0 Ext. Al: 18.1 Fe: 114.0 Mn: 4.0 SiO2: 3.35

ID: 1E1-066 Name: FULTON LAKE State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 44-51'00"N Longitude: 67-33'30"W
Elevation: 52 Surface Temp: 11.2 Stratified: MIXED Site Depth: 2.7
Lake Area: 45 Watershed Area: 153 WA/LA: 3.4 Hydro Type: DRAINAGE
Residence Time: 0.43 Secchi Depth: 3.5 Turbidity: 0.7 Color: 10
Closed pH: 6.58 Equil. pH: 6.84 ANC: 46.4 DOC: 2.47
Closed DIC: 0.67 Equil. DIC: 0.53 Meas. Cond: 21.9 Cal. Cond: 22.5
Ca: 59.5 Mg: 34.6 Na: 76.3 K: 9.1 NH4: 1.2
SO4: 61.3 HCO3: 48.4 Cl: 70.1 NO3: 0.0 F: 0.8
Sum Cations: 181.0 Sum Anions: 180.6 Cations/Anions: 1.00 Tot. P: 6.2
Tot. Al: 29.4 Ext. Al: 0.0 Fe: 11.0 Mn: 6.0 SiO2: 1.91

ID: 1E1-067 Name: SPECTACLE POND State: ME Date: 22OCT84
Sample Type: REGULAR Latitude: 44-45'00"N Longitude: 68-13'00"W
Elevation: 78 Surface Temp: 11.9 Stratified: MIXED Site Depth: 4.9
Lake Area: 702 Watershed Area: 13048 WA/LA: 18.6 Hydro Type: DRAINAGE
Residence Time: 0.18 Secchi Depth: 4.1 Turbidity: 0.6 Color: 35
Closed pH: 6.70 Equil. pH: 6.96 ANC: 68.8 DOC: 5.12
Closed DIC: 0.86 Equil. DIC: 0.66 Meas. Cond: 23.6 Cal. Cond: 24.0
Ca: 89.8 Mg: 35.8 Na: 85.5 K: 10.8 NH4: 0.4
SO4: 53.3 HCO3: 60.1 Cl: 55.6 NO3: 0.0 F: 6.7
Sum Cations: 222.4 Sum Anions: 175.9 Cations/Anions: 1.26 Tot. P: 6.3
Tot. Al: 123.4 Ext. Al: 13.7 Fe: 25.0 Mn: 0.0 SiO2: 2.45

ID: 1E1-068 Name: GEORGE POND State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 44-44'15"N Longitude: 68-38'00"W
Elevation: 46 Surface Temp: 10.5 Stratified: MIXED Site Depth: 4.8
Lake Area: 5 Watershed Area: 451 WA/LA: 98.0 Hydro Type: DRAINAGE
Residence Time: 0.04 Secchi Depth: 1.5 Turbidity: 1.2 Color: 65
Closed pH: 6.89 Equil. pH: 7.79 ANC: 487.0 DOC: 9.15
Closed DIC: 5.86 Equil. DIC: 4.55 Meas. Cond: 66.9 Cal. Cond: 68.2
Ca: 374.3 Mg: 78.8 Na: 157.0 K: 14.0 NH4: 1.6
SO4: 82.9 HCO3: 390.4 Cl: 110.3 NO3: 0.6 F: 3.6
Sum Cations: 625.8 Sum Anions: 588.4 Cations/Anions: 1.06 Tot. P: 15.8
Tot. Al: 67.1 Ext. Al: 2.2 Fe: 86.0 Mn: 16.0 SiO2: 2.73

(continued)

TABLE 3-1 (continued)

ID: 1E1-069 Name: GRASSY POND(SPRINGY POND) State: ME Date: 22OCT84
Sample Type: REGULAR Latitude: 44-45'30"N Longitude: 68-29'30"W
Elevation: 84 Surface Temp: 11.6 Stratified: MIXED Site Depth: 2.1
Lake Area: 48 Watershed Area: 1106 WA/LA: 23.2 Hydro Type: DRAINAGE
Residence Time: 0.08 Secchi Depth: 2.1 Turbidity: 0.7 Color: 20
Closed pH: 6.90 Equil. pH: 7.21 ANC: 108.5 DOC: 4.76
Closed DIC: 1.18 Equil. DIC: 1.10 Meas. Cond: 25.8 Cal. Cond: 27.3
Ca: 96.4 Mg: 43.4 Na: 93.1 K: 8.7 NH4: 0.5
SO4: 55.6 HCO3: 99.5 Cl: 58.4 NO3: 1.2 F: 9.0
Sum Cations: 242.2 Sum Anions: 223.8 Cations/Anions: 1.08 Tot. P: 3.5
Tot. Al: 56.1 Ext. Al: 5.5 Fe: 13.0 Mn: 3.5 SiO2: 0.24

ID: 1E1-070 Name: THURSTON POND State: ME Date: 23OCT84
Sample Type: REGULAR Latitude: 44-40'00"N Longitude: 68-43'30"W
Elevation: 69 Surface Temp: 12.3 Stratified: MIXED Site Depth: 8.8
Lake Area: 52 Watershed Area: 622 WA/LA: 12.0 Hydro Type: DRAINAGE
Residence Time: 0.64 Secchi Depth: 4.8 Turbidity: 0.6 Color: 15
Closed pH: 6.72 Equil. pH: 6.93 ANC: 63.8 DOC: 2.87
Closed DIC: 0.75 Equil. DIC: 0.61 Meas. Cond: 21.7 Cal. Cond: 22.7
Ca: 72.1 Mg: 35.5 Na: 76.0 K: 7.0 NH4: 0.5
SO4: 71.9 HCO3: 57.3 Cl: 48.0 NO3: 0.1 F: 1.6
Sum Cations: 191.2 Sum Anions: 179.0 Cations/Anions: 1.07 Tot. P: 4.9
Tot. Al: 22.1 Ext. Al: 3.8 Fe: 67.0 Mn: 9.0 SiO2: 1.75

ID: 1E1-071 Name: LITTLE HATCASE POND State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 44-42'10"N Longitude: 68-31'30"W
Elevation: 81 Surface Temp: 12.7 Stratified: MIXED Site Depth: 1.2
Lake Area: 10 Watershed Area: 2313 WA/LA: 238.4 Hydro Type: DRAINAGE
Residence Time: 0.00 Secchi Depth: 1.2 Turbidity: 0.4 Color: 5
Closed pH: 6.61 Equil. pH: 7.00 ANC: 62.0 DOC: 2.90
Closed DIC: 0.94 Equil. DIC: 0.67 Meas. Cond: 23.8 Cal. Cond: 25.3
Ca: 92.0 Mg: 35.0 Na: 74.7 K: 8.2 NH4: 1.3
SO4: 83.3 HCO3: 55.7 Cl: 50.5 NO3: 0.0 F: 9.0
Sum Cations: 211.4 Sum Anions: 198.5 Cations/Anions: 1.06 Tot. P: 4.3
Tot. Al: 38.7 Ext. Al: 3.7 Fe: 31.0 Mn: 5.0 SiO2: 1.88

ID: 1E1-072 Name: SCHOODIC LAKE State: ME Date: 22OCT84
Sample Type: REGULAR Latitude: 44-41'45"N Longitude: 67-53'30"W
Elevation: 68 Surface Temp: 12.2 Stratified: MIXED Site Depth: 11.0
Lake Area: 147 Watershed Area: 414 WA/LA: 2.8 Hydro Type: DRAINAGE
Residence Time: 2.04 Secchi Depth: 5.0 Turbidity: 0.6 Color: 5
Closed pH: 7.04 Equil. pH: 7.17 ANC: 95.8 DOC: 1.46
Closed DIC: 1.19 Equil. DIC: 1.10 Meas. Cond: 23.3 Cal. Cond: 24.9
Ca: 75.7 Mg: 28.9 Na: 96.3 K: 10.9 NH4: 0.1
SO4: 38.2 HCO3: 103.8 Cl: 66.5 NO3: 1.6 F: 5.5
Sum Cations: 212.0 Sum Anions: 215.8 Cations/Anions: 0.98 Tot. P: 7.5
Tot. Al: 31.7 Ext. Al: 4.1 Fe: 0.0 Mn: 11.0 SiO2: 0.53

ID: 1E1-073 Name: GEORGES POND State: ME Date: 23OCT84
Sample Type: REGULAR Latitude: 44-37'00"N Longitude: 68-14'30"W
Elevation: 50 Surface Temp: 12.4 Stratified: MIXED Site Depth: 11.0
Lake Area: 143 Watershed Area: 365 WA/LA: 2.5 Hydro Type: DRAINAGE
Residence Time: 2.26 Secchi Depth: 7.3 Turbidity: 1.0 Color: 10
Closed pH: 6.78 Equil. pH: 6.98 ANC: 64.8 DOC: 2.67
Closed DIC: 0.75 Equil. DIC: 0.63 Meas. Cond: 24.5 Cal. Cond: 26.5
Ca: 54.4 Mg: 42.4 Na: 108.4 K: 11.8 NH4: 0.8
SO4: 61.2 HCO3: 64.3 Cl: 83.9 NO3: 0.1 F: 6.9
Sum Cations: 218.0 Sum Anions: 216.4 Cations/Anions: 1.01 Tot. P: 8.2
Tot. Al: 37.3 Ext. Al: 3.5 Fe: 27.0 Mn: 3.0 SiO2: 1.42

(continued)

TABLE 3-1 (continued)

ID: 1E1-074 Name: CRAIG POND State: ME Date: 22OCT84
Sample Type: REGULAR Latitude: 44-35'00"N Longitude: 68-40'00"W
Elevation: 66 Surface Temp: 13.5 Stratified: MIXED Site Depth: 14.6
Lake Area: 92 Watershed Area: 321 WA/LA: 3.5 Hydro Type: DRAINAGE
Residence Time: 3.05 Secchi Depth: 9.3 Turbidity: 0.4 Color: 5
Closed pH: 6.97 Equil. pH: 7.04 ANC: 75.0 DOC: 1.60
Closed DIC: 0.92 Equil. DIC: 0.85 Meas. Cond: 25.3 Cal. Cond: 27.3
Ca: 89.8 Mg: 36.4 Na: 84.4 K: 8.7 NH4: 0.0
SO4: 80.3 HCO3: 79.7 Cl: 59.7 NO3: 1.9 F: 7.7
Sum Cations: 219.3 Sum Anions: 229.4 Cations/Anions: 0.96 Tot. P: 1.2
Tot. Al: 54.9 Ext. Al: 2.9 Fe: 0.0 Mn: 0.0 SiO2: 1.42

ID: 1E1-076 Name: WIGHT POND State: ME Date: 22OCT84
Sample Type: REGULAR Latitude: 44-28'15"N Longitude: 68-40'30"W
Elevation: 7 Surface Temp: 12.4 Stratified: MIXED Site Depth: 6.4
Lake Area: 78 Watershed Area: 2696 WA/LA: 34.7 Hydro Type: DRAINAGE
Residence Time: 0.16 Secchi Depth: 2.8 Turbidity: 0.6 Color: 30
Closed pH: 6.80 Equil. pH: 7.23 ANC: 117.6 DOC: 6.82
Closed DIC: 1.43 Equil. DIC: 1.08 Meas. Cond: 35.8 Cal. Cond: 36.8
Ca: 117.4 Mg: 55.7 Na: 149.7 K: 9.9 NH4: 0.9
SO4: 61.6 HCO3: 101.7 Cl: 116.5 NO3: 0.1 F: 2.3
Sum Cations: 333.8 Sum Anions: 282.2 Cations/Anions: 1.18 Tot. P: 8.3
Tot. Al: 45.8 Ext. Al: 7.6 Fe: 100.0 Mn: 0.0 SiO2: 2.98

ID: 1E1-077 Name: PARKER POND State: ME Date: 22OCT84
Sample Type: REGULAR Latitude: 44-22'20"N Longitude: 68-42'30"W
Elevation: 6 Surface Temp: 12.1 Stratified: MIXED Site Depth: 4.8
Lake Area: 27 Watershed Area: 1008 WA/LA: 37.3 Hydro Type: DRAINAGE
Residence Time: 0.11 Secchi Depth: 1.3 Turbidity: 0.8 Color: 90
Closed pH: 6.54 Equil. pH: 7.02 ANC: 93.3 DOC: 10.55
Closed DIC: 1.11 Equil. DIC: 0.71 Meas. Cond: 30.5 Cal. Cond: 30.4
Ca: 72.1 Mg: 59.4 Na: 155.6 K: 11.0 NH4: 0.6
SO4: 52.7 HCO3: 68.0 Cl: 87.9 NO3: 0.3 F: 3.7
Sum Cations: 298.9 Sum Anions: 212.6 Cations/Anions: 1.41 Tot. P: 16.8
Tot. Al: 125.7 Ext. Al: 28.9 Fe: 115.0 Mn: 0.0 SiO2: 2.41

ID: 1E1-078 Name: MEADOW POND State: ME Date: 23OCT84
Sample Type: REGULAR Latitude: 44-21'25"N Longitude: 68-54'00"W
Elevation: 20 Surface Temp: 12.8 Stratified: MIXED Site Depth: 4.9
Lake Area: 7 Watershed Area: 75 WA/LA: 10.6 Hydro Type: DRAINAGE
Residence Time: 0.39 Secchi Depth: 0.9 Turbidity: 1.8 Color: 65
Closed pH: 6.82 Equil. pH: 7.56 ANC: 235.5 DOC: 8.30
Closed DIC: 2.94 Equil. DIC: 2.33 Meas. Cond: 50.0 Cal. Cond: 51.9
Ca: 160.8 Mg: 128.3 Na: 181.2 K: 11.2 NH4: 0.8
SO4: 63.6 HCO3: 201.8 Cl: 148.9 NO3: 0.1 F: 1.5
Sum Cations: 482.4 Sum Anions: 416.0 Cations/Anions: 1.16 Tot. P: 14.8
Tot. Al: 138.3 Ext. Al: 9.2 Fe: 343.0 Mn: 18.0 SiO2: 1.11

ID: 1E1-079 Name: UPPER HADLOCK POND State: ME Date: 22OCT84
Sample Type: REGULAR Latitude: 44-19'20"N Longitude: 68-17'15"W
Elevation: 69 Surface Temp: 12.2 Stratified: MIXED Site Depth: 11.5
Lake Area: 15 Watershed Area: 334 WA/LA: 22.6 Hydro Type: DRAINAGE
Residence Time: 0.35 Secchi Depth: 6.8 Turbidity: 0.3 Color: 15
Closed pH: 6.67 Equil. pH: 6.93 ANC: 54.6 DOC: 3.07
Closed DIC: 0.73 Equil. DIC: 0.58 Meas. Cond: 40.7 Cal. Cond: 43.0
Ca: 92.8 Mg: 40.7 Na: 211.3 K: 7.2 NH4: 0.4
SO4: 95.5 HCO3: 56.2 Cl: 179.4 NO3: 0.4 F: 3.9
Sum Cations: 352.8 Sum Anions: 335.3 Cations/Anions: 1.05 Tot. P: 2.2
Tot. Al: 25.0 Ext. Al: 3.5 Fe: 4.0 Mn: 0.0 SiO2: 1.35

(continued)

TABLE 3-1 (continued)

ID: 1E1-082 Name: STEVENS POND State: ME Date: 23OCT84
Sample Type: REGULAR Latitude: 44-22'00"N Longitude: 69-18'00"W
Elevation: 93 Surface Temp: 13.1 Stratified: WEAK Site Depth: 11.5
Lake Area: 138 Watershed Area: 1285 WA/LA: 9.3 Hydro Type: RESERVOIR
Residence Time: 1.06 Secchi Depth: 3.7 Turbidity: 0.5 Color: 10
Closed pH: 6.74 Equil. pH: 7.16 ANC: 96.8 DOC: 2.66
Closed DIC: 1.35 Equil. DIC: 1.02 Meas. Cond: 29.3 Cal. Cond: 30.8
Ca: 97.1 Mg: 46.9 Na: 94.4 K: 12.3 NH4: 0.4
SO4: 78.2 HCO3: 93.0 Cl: 83.3 NO3: 0.3 F: 1.2
Sum Cations: 251.3 Sum Anions: 256.1 Cations/Anions: 0.98 Tot. P: 3.7
Tot. Al: 9.8 Ext. Al: 3.5 Fe: 36.0 Mn: 9.0 SiO2: 0.58

ID: 1E1-083 Name: DYER LONG POND State: ME Date: 23OCT84
Sample Type: REGULAR Latitude: 44-11'00"N Longitude: 69-31'30"W
Elevation: 39 Surface Temp: 13.3 Stratified: MIXED Site Depth: 5.2
Lake Area: 169 Watershed Area: 5135 WA/LA: 30.4 Hydro Type: DRAINAGE
Residence Time: 0.15 Secchi Depth: 2.5 Turbidity: 0.6 Color: 35
Closed pH: 6.85 Equil. pH: 7.20 ANC: 124.3 DOC: 5.11
Closed DIC: 1.41 Equil. DIC: 1.16 Meas. Cond: 36.2 Cal. Cond: 38.2
Ca: 100.8 Mg: 57.2 Na: 152.3 K: 15.5 NH4: 0.7
SO4: 64.9 HCO3: 112.2 Cl: 130.8 NO3: 0.4 F: 1.8
Sum Cations: 326.6 Sum Anions: 310.1 Cations/Anions: 1.05 Tot. P: 7.2
Tot. Al: 31.6 Ext. Al: 5.8 Fe: 103.0 Mn: 6.0 SiO2: 1.35

ID: 1E1-084 Name: CRESENT (RATTLESNAKE) L. State: ME Date: 29OCT84
Sample Type: REGULAR Latitude: 43-58'30"N Longitude: 70-27'30"W
Elevation: 85 Surface Temp: 12.5 Stratified: MIXED Site Depth: 13.4
Lake Area: 283 Watershed Area: 3859 WA/LA: 13.6 Hydro Type: DRAINAGE
Residence Time: 0.84 Secchi Depth: 5.4 Turbidity: 0.4 Color: 15
Closed pH: 7.17 Equil. pH: 7.43 ANC: 193.9 DOC: 2.66
Closed DIC: 2.38 Equil. DIC: 2.26 Meas. Cond: 42.6 Cal. Cond: 44.5
Ca: 179.6 Mg: 54.5 Na: 138.5 K: 12.6 NH4: 0.8
SO4: 78.6 HCO3: 171.8 Cl: 115.9 NO3: 0.0 F: 3.1
Sum Cations: 386.0 Sum Anions: 369.6 Cations/Anions: 1.04 Tot. P: 5.7
Tot. Al: 16.9 Ext. Al: 1.4 Fe: 7.0 Mn: 0.0 SiO2: 2.40

ID: 1E1-086 Name: SEWELL POND State: ME Date: 23OCT84
Sample Type: REGULAR Latitude: 43-52'15"N Longitude: 69-46'52"W
Elevation: 3 Surface Temp: 13.9 Stratified: MIXED Site Depth: 2.7
Lake Area: 19 Watershed Area: 93 WA/LA: 5.0 Hydro Type: DRAINAGE
Residence Time: 0.44 Secchi Depth: 0.9 Turbidity: 1.6 Color: 53
Closed pH: 6.52 Equil. pH: 6.97 ANC: 80.7 DOC: 6.77
Closed DIC: 1.10 Equil. DIC: 0.67 Meas. Cond: 98.0 Cal. Cond: 101.5
Ca: 66.8 Mg: 141.1 Na: 575.7 K: 22.2 NH4: 0.9
SO4: 100.7 HCO3: 70.5 Cl: 630.4 NO3: 0.2 F: 2.0
Sum Cations: 807.1 Sum Anions: 803.9 Cations/Anions: 1.00 Tot. P: 26.9
Tot. Al: 112.9 Ext. Al: 12.6 Fe: 144.5 Mn: 5.5 SiO2: 0.09

ID: 1E1-087 Name: (NO NAME) State: ME Date: 29OCT84
Sample Type: REGULAR Latitude: 43-45'00"N Longitude: 70-40'40"W
Elevation: 82 Surface Temp: 12.5 Stratified: MIXED Site Depth: 1.2
Lake Area: 12 Watershed Area: 1243 WA/LA: 107.2 Hydro Type: DRAINAGE
Residence Time: 0.01 Secchi Depth: 1.1 Turbidity: 1.6 Color: 25
Closed pH: 6.67 Equil. pH: 7.26 ANC: 141.1 DOC: 2.81
Closed DIC: 2.09 Equil. DIC: 1.60 Meas. Cond: 40.1 Cal. Cond: 41.4
Ca: 97.3 Mg: 48.4 Na: 177.7 K: 19.8 NH4: 1.6
SO4: 76.2 HCO3: 128.2 Cl: 137.3 NO3: 1.3 F: 2.9
Sum Cations: 344.8 Sum Anions: 345.9 Cations/Anions: 1.00 Tot. P: 6.7
Tot. Al: 102.2 Ext. Al: 8.9 Fe: 30.0 Mn: 13.0 SiO2: 4.42

(continued)

TABLE 3-1 (continued)

ID: 1E1-088 Name: KENNEBUNK POND State: ME Date: 30OCT84
Sample Type: REGULAR Latitude: 43-30'15"N Longitude: 70-39'00"W
Elevation: 83 Surface Temp: 13.4 Stratified: MIXED Site Depth: 10.7
Lake Area: 80 Watershed Area: 249 WA/LA: 3.1 Hydro Type: DRAINAGE
Residence Time: 2.44 Secchi Depth: 5.6 Turbidity: 0.2 Color: 8
Closed pH: 6.86 Equil. pH: 7.18 ANC: 93.3 DOC: 2.40
Closed DIC: 1.34 Equil. DIC: 1.14 Meas. Cond: 29.3 Cal. Cond: 31.6
Ca: 97.2 Mg: 39.5 Na: 114.3 K: 10.0 NH4: 1.6
SO4: 70.7 HCO3: 82.6 Cl: 100.2 NO3: 0.2 F: 1.7
Sum Cations: 262.7 Sum Anions: 255.5 Cations/Anions: 1.03 Tot. P: 7.5
Tot. Al: 10.1 Ext. Al: 0.1 Fe: 17.5 Mn: 9.5 SiO2: 0.55

ID: 1E1-089 Name: JOSH POND State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 44-46'45"N Longitude: 67-18'30"W
Elevation: 21 Surface Temp: 10.8 Stratified: MIXED Site Depth: 2.4
Lake Area: 25 Watershed Area: 764 WA/LA: 30.4 Hydro Type: DRAINAGE
Residence Time: 0.05 Secchi Depth: 0.5 Turbidity: 1.3 Color: 105
Closed pH: 5.73 Equil. pH: 5.90 ANC: 40.7 DOC: 14.95
Closed DIC: 0.58 Equil. DIC: 0.17 Meas. Cond: 31.6 Cal. Cond: 28.3
Ca: 69.1 Mg: 53.9 Na: 139.8 K: 5.9 NH4: 1.5
SO4: 55.0 HCO3: 9.8 Cl: 107.5 NO3: 0.0 F: 1.3
Sum Cations: 272.0 Sum Anions: 173.6 Cations/Anions: 1.57 Tot. P: 12.7
Tot. Al: 359.6 Ext. Al: 55.9 Fe: 335.0 Mn: 17.0 SiO2: 4.44

ID: 1E1-090 Name: ORANGE LAKE State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 44-46'10"N Longitude: 67-15'00"W
Elevation: 23 Surface Temp: 11.4 Stratified: MIXED Site Depth: 6.7
Lake Area: 99 Watershed Area: 4845 WA/LA: 49.1 Hydro Type: DRAINAGE
Residence Time: 0.10 Secchi Depth: 3.1 Turbidity: 0.7 Color: 35
Closed pH: 6.56 Equil. pH: 6.96 ANC: 72.1 DOC: 5.86
Closed DIC: 0.97 Equil. DIC: 0.70 Meas. Cond: 31.0 Cal. Cond: 31.0
Ca: 84.7 Mg: 51.3 Na: 126.5 K: 9.2 NH4: 0.9
SO4: 62.4 HCO3: 55.8 Cl: 111.7 NO3: 0.0 F: 1.2
Sum Cations: 273.0 Sum Anions: 231.1 Cations/Anions: 1.18 Tot. P: 17.2
Tot. Al: 67.0 Ext. Al: 3.7 Fe: 100.0 Mn: 13.0 SiO2: 0.72

ID: 1E1-091 Name: JIMMIES POND State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 44-58'04"N Longitude: 68-09'38"W
Elevation: 119 Surface Temp: 10.9 Stratified: MIXED Site Depth: 4.3
Lake Area: 8 Watershed Area: 80 WA/LA: 9.8 Hydro Type: DRAINAGE
Residence Time: 0.37 Secchi Depth: 2.7 Turbidity: 0.5 Color: 15
Closed pH: 6.99 Equil. pH: 7.54 ANC: 202.5 DOC: 3.17
Closed DIC: 2.77 Equil. DIC: 2.22 Meas. Cond: 35.6 Cal. Cond: 37.7
Ca: 160.7 Mg: 48.8 Na: 108.2 K: 19.4 NH4: 0.9
SO4: 55.5 HCO3: 188.4 Cl: 67.4 NO3: 0.0 F: 11.7
Sum Cations: 338.1 Sum Anions: 323.3 Cations/Anions: 1.05 Tot. P: 9.5
Tot. Al: 39.1 Ext. Al: 0.0 Fe: 93.0 Mn: 19.0 SiO2: 6.01

ID: 1E1-092 Name: GREAT POND State: ME Date: 22OCT84
Sample Type: REGULAR Latitude: 44-36'03"N Longitude: 68-17'00"W
Elevation: 16 Surface Temp: 12.0 Stratified: MIXED Site Depth: 6.0
Lake Area: 102 Watershed Area: 2580 WA/LA: 25.4 Hydro Type: DRAINAGE
Residence Time: 0.17 Secchi Depth: 2.1 Turbidity: 0.7 Color: 65
Closed pH: 6.72 Equil. pH: 7.05 ANC: 94.2 DOC: 8.54
Closed DIC: 0.99 Equil. DIC: 0.71 Meas. Cond: 24.2 Cal. Cond: 25.6
Ca: 77.3 Mg: 50.0 Na: 111.8 K: 7.5 NH4: 0.5
SO4: 50.0 HCO3: 73.8 Cl: 59.2 NO3: 0.3 F: 4.2
Sum Cations: 247.3 Sum Anions: 187.5 Cations/Anions: 1.32 Tot. P: 9.1
Tot. Al: 189.8 Ext. Al: 22.2 Fe: 124.0 Mn: 7.0 SiO2: 3.38

(continued)

TABLE 3-1 (continued)

ID: 1E1-093 Name: BELL POND State: ME Date: 17OCT84
Sample Type: REGULAR Latitude: 45-20'35"N Longitude: 69-31'17"W
Elevation: 390 Surface Temp: 11.1 Stratified: MIXED Site Depth: 8.2
Lake Area: 8 Watershed Area: 57 WA/LA: 7.6 Hydro Type: DRAINAGE
Residence Time: 0.73 Secchi Depth: 8.2 Turbidity: 0.1 Color: 5
Closed pH: 5.36 Equil. pH: 5.35 ANC: 3.4 DOC: 0.90
Closed DIC: 0.33 Equil. DIC: 0.19 Meas. Cond: 13.5 Cal. Cond: 15.2
Ca: 42.9 Mg: 20.3 Na: 21.3 K: 2.8 NH4: 1.9
SO4: 87.8 HCO3: 2.3 Cl: 13.0 NO3: 1.5 F: 0.9
Sum Cations: 94.6 Sum Anions: 105.5 Cations/Anions: 0.90 Tot. P: 0.0
Tot. Al: 67.5 Ext. Al: 31.4 Fe: 30.0 Mn: 53.0 SiO2: 0.11

ID: 1E1-096 Name: MIDDLE CHAIN LAKE State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 45-13'11"N Longitude: 68-04'45"W
Elevation: 100 Surface Temp: 11.2 Stratified: MIXED Site Depth: 5.5
Lake Area: 88 Watershed Area: 3730 WA/LA: 42.5 Hydro Type: DRAINAGE
Residence Time: 0.12 Secchi Depth: 3.0 Turbidity: 0.6 Color: 40
Closed pH: 6.64 Equil. pH: 6.97 ANC: 75.4 DOC: 7.31
Closed DIC: 0.82 Equil. DIC: 0.64 Meas. Cond: 22.2 Cal. Cond: 22.2
Ca: 96.9 Mg: 34.8 Na: 64.1 K: 17.8 NH4: 1.0
SO4: 65.6 HCO3: 51.5 Cl: 27.7 NO3: 0.0 F: 5.2
Sum Cations: 214.8 Sum Anions: 150.0 Cations/Anions: 1.43 Tot. P: 6.8
Tot. Al: 102.6 Ext. Al: 12.1 Fe: 27.0 Mn: 7.0 SiO2: 3.00

ID: 1E1-097 Name: UPPER OXHEAD POND State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 45-04'55"N Longitude: 68-15'16"W
Elevation; 137 Surface Temp: 11.6 Stratified: MIXED Site Depth: 2.4
Lake Area: 29 Watershed Area: 75 WA/LA: 2.6 Hydro Type: DRAINAGE
Residence Time: 0.66 Secchi Depth: 2.0 Turbidity: 1.5 Color: 10
Closed pH: 7.31 Equil. pH: 7.21 ANC: 108.1 DOC: 5.89
Closed DIC: 1.20 Equil. DIC: 1.27 Meas. Cond: 19.5 Cal. Cond: 20.6
Ca: 93.6 Mg: 27.9 Na: 54.7 K: 9.0 NH4: 1.5
SO4: 36.5 HCO3: 105.7 Cl: 29.3 NO3: 0.0 F: 2.8
Sum Cations: 186.8 Sum Anions: 174.3 Cations/Anions: 1.07 Tot. P: 12.6
Tot. Al: 15.7 Ext. Al: 0.0 Fe: 4.0 Mn: 9.0 SiO2: 0.58

ID: 1E1-100 Name: ROCKY LAKE State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 44-51'46"N Longitude: 67-27'30"W
Elevation: 19 Surface Temp: 11.4 Stratified: MIXED Site Depth: 7.9
Lake Area: 662 Watershed Area: 6348 WA/LA: 9.6 Hydro Type: DRAINAGE
Residence Time: 0.53 Secchi Depth: 2.5 Turbidity: 0.5 Color: 45
Closed pH: 6.69 Equil. pH: 6.92 ANC: 75.3 DOC: 7.71
Closed DIC: 0.77 Equil. DIC: 0.61 Meas. Cond: 26.9 Cal. Cond: 26.4
Ca: 86.4 Mg: 43.2 Na: 103.4 K: 10.4 NH4: 1.4
SO4: 51.6 HCO3: 57.4 Cl: 79.4 NO3: 0.0 F: 1.3
Sum Cations: 245.0 Sum Anions: 189.8 Cations/Anions: 1.29 Tot. P: 8.5
Tot. Al: 113.0 Ext. Al: 14.6 Fe: 75.0 Mn: 6.0 SiO2: 1.88

ID: 1E1-101 Name: LONG POND State: ME Date: 23OCT84
Sample Type: REGULAR Latitude: 44-02'15"N Longitude: 68-36'40"W
Elevation: 5 Surface Temp: 12.9 Stratified: MIXED Site Depth: 6.1
Lake Area: 26 Watershed Area: 181 WA/LA: 6.9 Hydro Type: DRAINAGE
Residence Time: 0.55 Secchi Depth: 6.1 Turbidity: 0.4 Color: 5
Closed pH: 6.53 Equil. pH: 6.76 ANC: 45.9 DOC: 2.42
Closed DIC: 0.61 Equil. DIC: 0.45 Meas. Cond: 88.9 Cal. Cond: 93.4
Ca: 82.7 Mg: 126.7 Na: 497.6 K: 15.2 NH4: 0.4
SO4: 143.2 HCO3: 39.5 Cl: 552.2 NO3: 0.1 F: 3.7
Sum Cations: 723.0 Sum Anions: 738.7 Cations/Anions: 0.98 Tot. P: 2.1
Tot. Al: 14.9 Ext. Al: 3.1 Fe: 0.0 Mn: 5.0 SiO2: 1.77

(continued)

TABLE 3-1 (continued)

ID: 1E1-102 Name: PEAKED MOUNTAIN POND State: ME Date: 16OCT84
Sample Type: REGULAR Latitude: 46-00'43"N Longitude: 68-38'10"W
Elevation: 233 Surface Temp: 11.3 Stratified: MIXED Site Depth: 7.3
Lake Area: 23 Watershed Area: 365 WA/LA: 15.9 Hydro Type: DRAINAGE
Residence Time: 0.39 Secchi Depth: 3.4 Turbidity: 0.8 Color: 40
Closed pH: 7.03 Equil. pH: 7.27 ANC: 123.4 DOC: 6.26
Closed DIC: 1.26 Equil. DIC: 1.27 Meas. Cond: 24.0 Cal. Cond: 22.6
Ca: 126.8 Mg: 50.7 Na: 34.9 K: 7.1 NH4: 1.1
SO4: 58.9 HCO3: 103.7 Cl: 7.5 NO3: 0.0 F: 0.9
Sum Cations: 220.8 Sum Anions: 171.1 Cations/Anions: 1.29 Tot. P: 4.9
Tot. Al: 51.1 Ext. Al: 15.9 Fe: 49.0 Mn: 0.0 SiO2: 0.99

ID: 1E1-103 Name: CROOKED POND State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 45-21'10"N Longitude: 68-26'35"W
Elevation: 67 Surface Temp: 11.7 Stratified: MIXED Site Depth: 7.6
Lake Area: 92 Watershed Area: 528 WA/LA: 5.8 Hydro Type: DRAINAGE
Residence Time: 1.24 Secchi Depth: 3.3 Turbidity: 0.4 Color: 25
Closed pH: 6.72 Equil. pH: 7.03 ANC: 78.2 DOC: 5.02
Closed DIC: 1.08 Equil. DIC: 0.82 Meas. Cond: 21.0 Cal. Cond: 21.4
Ca: 93.9 Mg: 33.9 Na: 54.0 K: 11.0 NH4: 0.9
SO4: 67.4 HCO3: 70.6 Cl: 23.1 NO3: 0.0 F: 2.1
Sum Cations: 193.8 Sum Anions: 163.2 Cations/Anions: 1.19 Tot. P: 8.9
Tot. Al: 29.8 Ext. Al: 0.2 Fe: 22.0 Mn: 10.0 SiO2: 1.13

ID: 1E1-105 Name: CLIFFORD POND State: ME Date: 17OCT84
Sample Type: REGULAR Latitude: 45-50'06"N Longitude: 69-05'37"W
Elevation: 369 Surface Temp: 10.3 Stratified: MIXED Site Depth: 4.5
Lake Area: 9 Watershed Area: 122 WA/LA: 14.2 Hydro Type: DRAINAGE
Residence Time: 0.22 Secchi Depth: 4.5 Turbidity: 0.3 Color: 20
Closed pH: 6.54 Equil. pH: 7.00 ANC: 69.8 DOC: 3.91
Closed DIC: 1.12 Equil. DIC: 0.77 Meas. Cond: 20.4 Cal. Cond: 20.5
Ca: 103.7 Mg: 29.0 Na: 34.9 K: 8.3 NH4: 1.2
SO4: 76.6 HCO3: 71.1 Cl: 9.5 NO3: 0.2 F: 5.1
Sum Cations: 177.2 Sum Anions: 162.5 Cations/Anions: 1.09 Tot. P: 1.4
Tot. Al: 92.9 Ext. Al: 14.8 Fe: 50.0 Mn: 20.0 SiO2: 2.44

ID: 1E1-106 Name: GREENWOOD POND State: ME Date: 17OCT84
Sample Type: REGULAR Latitude: 45-32'07"N Longitude: 69-13'58"W
Elevation: 676 Surface Temp: 9.4 Stratified: MIXED Site Depth: 7.3
Lake Area: 9 Watershed Area: 339 WA/LA: 39.9 Hydro Type: DRAINAGE
Residence Time: 0.13 Secchi Depth: 5.5 Turbidity: 0.5 Color: 15
Closed pH: 6.38 Equil. pH: 6.60 ANC: 28.8 DOC: 1.53
Closed DIC: 0.57 Equil. DIC: 0.42 Meas. Cond: 11.0 Cal. Cond: 10.8
Ca: 26.8 Mg: 24.2 Na: 31.6 K: 3.6 NH4: 1.1
SO4: 33.8 HCO3: 29.0 Cl: 13.0 NO3: 11.1 F: 0.5
Sum Cations: 87.8 Sum Anions: 87.4 Cations/Anions: 1.00 Tot. P: 0.4
Tot. Al: 92.9 Ext. Al: 13.3 Fe: 38.0 Mn: 7.0 SiO2: 2.30

ID: 1E1-108 Name: DOUGHNUT POND State: ME Date: 17OCT84
Sample Type: REGULAR Latitude: 45-48'34"N Longitude: 69-07'24"W
Elevation: 381 Surface Temp: 10.5 Stratified: MIXED Site Depth: 6.7
Lake Area: 5 Watershed Area: 64 WA/LA: 12.5 Hydro Type: DRAINAGE
Residence Time: 0.37 Secchi Depth: 5.0 Turbidity: 0.3 Color: 15
Closed pH: 6.72 Equil. pH: 7.26 ANC: 137.3 DOC: 3.08
Closed DIC: 1.94 Equil. DIC: 1.46 Meas. Cond: 22.2 Cal. Cond: 22.5
Ca: 128.2 Mg: 31.8 Na: 38.0 K: 8.7 NH4: 0.6
SO4: 50.2 HCO3: 122.9 Cl: 8.0 NO3: 0.0 F: 8.7
Sum Cations: 207.5 Sum Anions: 189.9 Cations/Anions: 1.09 Tot. P: 2.3
Tot. Al: 20.4 Ext. Al: 12.7 Fe: 57.0 Mn: 10.0 SiO2: 2.19

(continued)

TABLE 3-1 (continued)

ID: 1E1-109 Name: SHIRLEY POND State: ME Date: 19OCT84
Sample Type: REGULAR Latitude: 45-22'06"N Longitude: 69-37'17"W
Elevation: 315 Surface Temp: 9.3 Stratified: MIXED Site Depth: 2.7
Lake Area: 25 Watershed Area: 4887 WA/LA: 192.4 Hydro Type: DRAINAGE
Residence Time: 0.01 Secchi Depth: 2.0 Turbidity: 0.8 Color: 35
Closed pH: 7.27 Equil. pH: 7.65 ANC: 270.5 DOC: 6.87
Closed DIC: 3.07 Equil. DIC: 2.89 Meas. Cond: 42.4 Cal. Cond: 42.3
Ca: 214.3 Mg: 111.1 Na: 77.3 K: 9.3 NH4: 1.2
SO4: 66.9 HCO3: 247.3 Cl: 32.7 NO3: 0.3 F: 1.1
Sum Cations: 413.2 Sum Anions: 348.8 Cations/Anions: 1.18 Tot. P: 10.9
Tot. Al: 242.0 Ext. Al: 0.2 Fe: 17.0 Mn: 0.0 SiO2: 2.07

ID: 1E1-111 Name: LONG POND State: ME Date: 23OCT84
Sample Type: REGULAR Latitude: 44-32'02"N Longitude: 68-10'13"W
Elevation: 74 Surface Temp: 12.9 Stratified: WEAK Site Depth: 16.6
Lake Area: 24 Watershed Area: 80 WA/LA: 3.4 Hydro Type: DRAINAGE
Residence Time: 2.74 Secchi Depth: 6.3 Turbidity: 0.5 Color: 10
Closed pH: 5.83 Equil. pH: 5.99 ANC: 11.0 DOC: 2.27
Closed DIC: 0.34 Equil. DIC: 0.11 Meas. Cond: 21.2 Cal. Cond: 23.4
Ca: 33.3 Mg: 27.7 Na: 104.1 K: 6.5 NH4: 0.6
SO4: 63.8 HCO3: 7.1 Cl: 104.3 NO3: 0.8 F: 1.8
Sum Cations: 174.2 Sum Anions: 177.8 Cations/Anions: 0.98 Tot. P: 1.5
Tot. Al: 53.3 Ext. Al: 11.8 Fe: 5.0 Mn: 38.0 SiO2: 0.29

ID: 1E1-113 Name: UP. COLD STREAM PONDS (E) State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 45-18'13"N Longitude: 68-27'02"W
Elevation: 107 Surface Temp: 12.2 Stratified: MIXED Site Depth: 7.3
Lake Area: 79 Watershed Area: 531 WA/LA: 6.8 Hydro Type: DRAINAGE
Residence Time: 1.07 Secchi Depth: 5.2 Turbidity: 0.4 Color: 10
Closed pH: 6.86 Equil. pH: 7.07 ANC: 87.4 DOC: 3.40
Closed DIC: 1.20 Equil. DIC: 1.07 Meas. Cond: 26.0 Cal. Cond: 26.7
Ca: 111.2 Mg: 35.7 Na: 75.2 K: 9.7 NH4: 0.9
SO4: 81.2 HCO3: 83.7 Cl: 42.5 NO3: 0.0 F: 2.4
Sum Cations: 232.9 Sum Anions: 209.8 Cations/Anions: 1.11 Tot. P: 5.4
Tot. Al: 37.1 Ext. Al: 0.0 Fe: 9.0 Mn: 10.0 SiO2: 2.59

ID: 1E1-116 Name: HEDGEHOG POND State: ME Date: 19OCT84
Sample Type: REGULAR Latitude: 45-28'45"N Longitude: 69-24'45"W
Elevation: 418 Surface Temp: 9.1 Stratified: MIXED Site Depth: 1.2
Lake Area: 15 Watershed Area: 262 WA/LA: 17.8 Hydro Type: DRAINAGE
Residence Time: 0.05 Secchi Depth: 1.2 Turbidity: 1.7 Color: 50
Closed pH: 6.99 Equil. pH: 7.31 ANC: 168.8 DOC: 8.62
Closed DIC: 1.79 Equil. DIC: 1.67 Meas. Cond: 31.8 Cal. Cond: 30.9
Ca: 164.7 Mg: 82.1 Na: 52.5 K: 7.6 NH4: 1.7
SO4: 75.8 HCO3: 135.1 Cl: 15.9 NO3: 0.4 F: 1.0
Sum Cations: 308.6 Sum Anions: 228.4 Cations/Anions: 1.35 Tot. P: 10.1
Tot. Al: 126.0 Ext. Al: 8.0 Fe: 31.0 Mn: 0.0 SiO2: 5.20

ID: 1E1-117 Name: LILY POND State: ME Date: 29OCT84
Sample Type: REGULAR Latitude: 43-58'57"N Longitude: 70-19'02"W
Elevation: 88 Surface Temp: 11.2 Stratified: MIXED Site Depth: 6.7
Lake Area: 10 Watershed Area: 246 WA/LA: 25.4 Hydro Type: DRAINAGE
Residence Time: 0.23 Secchi Depth: 1.6 Turbidity: 0.8 Color: 45
Closed pH: 6.41 Equil. pH: 7.33 ANC: 133.0 DOC: 5.66
Closed DIC: 2.55 Equil. DIC: 1.29 Meas. Cond: 80.7 Cal. Cond: 84.6
Ca: 140.2 Mg: 50.3 Na: 490.2 K: 12.1 NH4: 1.4
SO4: 61.3 HCO3: 115.3 Cl: 495.0 NO3: 0.3 F: 1.1
Sum Cations: 694.6 Sum Anions: 673.0 Cations/Anions: 1.03 Tot. P: 8.3
Tot. Al: 104.1 Ext. Al: 10.5 Fe: 222.0 Mn: 28.0 SiO2: 3.80

(continued)

TABLE 3-1 (continued)

ID: 1E1-118 Name: HOBART BOG State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 44-51'02"N Longitude: 67-15'22"W
Elevation: 36 Surface Temp: 10.9 Stratified: MIXED Site Depth: 2.1
Lake Area: 5 Watershed Area: 135 WA/LA: 25.0 Hydro Type: DRAINAGE
Residence Time: 0.06 Secchi Depth: 0.8 Turbidity: 0.6 Color: 65
Closed pH: 6.85 Equil. pH: 7.28 ANC: 140.8 DOC: 10.45
Closed DIC: 1.43 Equil. DIC: 1.22 Meas. Cond: 35.0 Cal. Cond: 36.2
Ca: 162.0 Mg: 56.3 Na: 123.9 K: 5.9 NH4: 1.3
SO4: 62.1 HCO3: 103.9 Cl: 93.9 NO3: 0.2 F: 0.9
Sum Cations: 349.6 Sum Anions: 261.1 Cations/Anions: 1.34 Tot. P: 11.5
Tot. Al: 81.0 Ext. Al: 7.7 Fe: 105.0 Mn: 13.0 SiO2: 1.35

ID: 1E1-119 Name: (NO NAME) State: ME Date: 29OCT84
Sample Type: REGULAR Latitude: 43-48'54"N Longitude: 70-40'10"W
Elevation: 88 Surface Temp: 11.6 Stratified: MIXED Site Depth: 1.2
Lake Area: 8 Watershed Area: 2634 WA/LA: 351.2 Hydro Type: DRAINAGE
Residence Time: 0.00 Secchi Depth: 1.2 Turbidity: 0.7 Color: 40
Closed pH: 6.49 Equil. pH: 7.41 ANC: 178.6 DOC: 3.80
Closed DIC: 3.30 Equil. DIC: 2.01 Meas. Cond: 42.3 Cal. Cond: 43.2
Ca: 107.6 Mg: 53.2 Na: 185.5 K: 18.1 NH4: 1.1
SO4: 59.3 HCO3: 158.4 Cl: 146.7 NO3: 0.6 F: 3.0
Sum Cations: 365.7 Sum Anions: 368.0 Cations/Anions: 0.99 Tot. P: 8.8
Tot. Al: 121.7 Ext. Al: 15.4 Fe: 54.0 Mn: 9.0 SiO2: 8.72

ID: 1E1-120 Name: (NO NAME) State: ME Date: 19OCT84
Sample Type: REGULAR Latitude: 45-27'26"N Longitude: 68-50'46"W
Elevation: 131 Surface Temp: 9.0 Stratified: MIXED Site Depth: 2.1
Lake Area: 5 Watershed Area: 13489 WA/LA: 2932.4 Hydro Type: DRAINAGE
Residence Time: 0.00 Secchi Depth: 2.1 Turbidity: 0.3 Color: 25
Closed pH: 6.32 Equil. pH: 6.94 ANC: 60.1 DOC: 4.72
Closed DIC: 1.21 Equil. DIC: 0.64 Meas. Cond: 20.4 Cal. Cond: 20.3
Ca: 83.5 Mg: 34.0 Na: 57.5 K: 7.5 NH4: 1.5
SO4: 62.4 HCO3: 45.2 Cl: 36.2 NO3: 0.4 F: 1.7
Sum Cations: 184.3 Sum Anions: 145.9 Cations/Anions: 1.26 Tot. P: 8.5
Tot. Al: 69.1 Ext. Al: 7.2 Fe: 0.0 Mn: 0.0 SiO2: 1.69

ID: 1E1-122 Name: LITTLE POND State: ME Date: 23OCT84
Sample Type: REGULAR Latitude: 44-23'34"N Longitude: 69-19'14"W
Elevation: 155 Surface Temp: 12.8 Stratified: MIXED Site Depth: 4.1
Lake Area: 24 Watershed Area: 1650 WA/LA: 67.9 Hydro Type: DRAINAGE
Residence Time: 0.05 Secchi Depth: 4.1 Turbidity: 0.5 Color: 5
Closed pH: 6.80 Equil. pH: 7.12 ANC: 93.0 DOC: 0.22
Closed DIC: 1.21 Equil. DIC: 0.98 Meas. Cond: 30.1 Cal. Cond: 32.4
Ca: 97.1 Mg: 46.1 Na: 110.5 K: 12.8 NH4: 0.2
SO4: 81.5 HCO3: 96.7 Cl: 88.8 NO3: 0.3 F: 1.0
Sum Cations: 266.7 Sum Anions: 268.4 Cations/Anions: 0.99 Tot. P: 2.9
Tot. Al: 13.6 Ext. Al: 2.8 Fe: 2.0 Mn: 9.0 SiO2: 0.59

ID: 1E1-123 Name: FIRST POND State: ME Date: 22OCT84
Sample Type: REGULAR Latitude: 44-22'10"N Longitude: 68-36'00"W
Elevation: 12 Surface Temp: 12.7 Stratified: MIXED Site Depth: 7.6
Lake Area: 118 Watershed Area: 2650 WA/LA: 22.5 Hydro Type: DRAINAGE
Residence Time: 0.24 Secchi Depth: 2.1 Turbidity: 1.0 Color: 65
Closed pH: 6.64 Equil. pH: 7.04 ANC: 80.6 DOC: 5.20
Closed DIC: 1.00 Equil. DIC: 0.75 Meas. Cond: 56.9 Cal. Cond: 60.7
Ca: 184.5 Mg: 99.4 Na: 176.8 K: 17.4 NH4: 0.3
SO4: 264.3 HCO3: 73.1 Cl: 126.8 NO3: 0.1 F: 3.5
Sum Cations: 478.5 Sum Anions: 467.8 Cations/Anions: 1.02 Tot. P: 3.1
Tot. Al: 104.7 Ext. Al: 13.0 Fe: 216.0 Mn: 25.0 SiO2: 1.67

(continued)

TABLE 3-1 (continued)

ID: 1E1-124 Name: LOWER HADLOCK POND State: ME Date: 22OCT84
Sample Type: REGULAR Latitude: 44-18'36"N Longitude: 68-17'26"W
Elevation: 57 Surface Temp: 13.1 Stratified: MIXED Site Depth: 11.5
Lake Area: 14 Watershed Area: 456 WA/LA: 32.8 Hydro Type: DRAINAGE
Residence Time: 0.25 Secchi Depth: 5.3 Turbidity: 0.4 Color: 10
Closed pH: 6.52 Equil. pH: 6.78 ANC: 38.7 DOC: 2.50
Closed DIC: 0.61 Equil. DIC: 0.44 Meas. Cond: 46.6 Cal. Cond: 44.2
Ca: 87.8 Mg: 44.7 Na: 242.6 K: 7.5 NH4: 0.3
SO4: 94.4 HCO3: 37.6 Cl: 187.3 NO3: 0.2 F: 3.5
Sum Cations: 383.2 Sum Anions: 323.0 Cations/Anions: 1.19 Tot. P: 2.7
Tot. Al: 17.8 Ext. Al: 2.2 Fe: 1.0 Mn: 0.0 SiO2: 1.83

ID: 1E1-126 Name: FITTS POND State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 44-45'47"N Longitude: 68-33'21"W
Elevation: 98 Surface Temp: 12.5 Stratified: MIXED Site Depth: 11.1
Lake Area: 40 Watershed Area: 324 WA/LA: 8.2 Hydro Type: DRAINAGE
Residence Time: 1.15 Secchi Depth: 7.2 Turbidity: 0.2 Color: 5
Closed pH: 6.52 Equil. pH: 6.75 ANC: 36.8 DOC: 1.77
Closed DIC: 0.62 Equil. DIC: 0.46 Meas. Cond: 22.2 Cal. Cond: 24.2
Ca: 79.6 Mg: 27.9 Na: 69.0 K: 8.6 NH4: 0.7
SO4: 92.6 HCO3: 36.9 Cl: 46.4 NO3: 0.5 F: 21.2
Sum Cations: 186.0 Sum Anions: 197.7 Cations/Anions: 0.94 Tot. P: 7.4
Tot. Al: 49.7 Ext. Al: 12.4 Fe: 3.0 Mn: 7.0 SiO2: 3.08

ID: 1E1-128 Name: HALFMILE POND State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 44-50'59"N Longitude: 68-25'47"W
Elevation: 119 Surface Temp: 11.0 Stratified: MIXED Site Depth: 5.5
Lake Area: 12 Watershed Area: 176 WA/LA: 15.2 Hydro Type: DRAINAGE
Residence Time: 0.32 Secchi Depth: 2.3 Turbidity: 0.6 Color: 30
Closed pH: 6.69 Equil. pH: 6.98 ANC: 70.7 DOC: 5.93
Closed DIC: 1.04 Equil. DIC: 0.70 Meas. Cond: 23.4 Cal. Cond: 24.2
Ca: 85.1 Mg: 40.6 Na: 87.8 K: 6.6 NH4: 1.2
SO4: 70.7 HCO3: 55.2 Cl: 38.9 NO3: 0.3 F: 15.8
Sum Cations: 221.4 Sum Anions: 181.1 Cations/Anions: 1.22 Tot. P: 3.3
Tot. Al: 111.1 Ext. Al: 14.8 Fe: 20.0 Mn: 3.0 SiO2: 3.43

ID: 1E1-129 Name: SMITH POND State: ME Date: 19OCT84
Sample Type: REGULAR Latitude: 45-03'44"N Longitude: 69-42'43"W
Elevation: 282 Surface Temp: 11.1 Stratified: MIXED Site Depth: 6.8
Lake Area: 65 Watershed Area: 1652 WA/LA: 25.5 Hydro Type: DRAINAGE
Residence Time: 0.23 Secchi Depth: 3.3 Turbidity: 0.3 Color: 25
Closed pH: 7.18 Equil. pH: 7.48 ANC: 179.9 DOC: 5.09
Closed DIC: 2.07 Equil. DIC: 1.94 Meas. Cond: 29.4 Cal. Cond: 29.5
Ca: 147.0 Mg: 91.0 Na: 41.5 K: 7.3 NH4: 0.8
SO4: 63.4 HCO3: 158.3 Cl: 14.3 NO3: 0.0 F: 0.9
Sum Cations: 287.6 Sum Anions: 237.3 Cations/Anions: 1.21 Tot. P: 8.0
Tot. Al: 45.6 Ext. Al: 0.2 Fe: 40.0 Mn: 1.0 SiO2: 2.78

ID: 1E2-002 Name: (NO NAME) State: ME Date: 17OCT84
Sample Type: REGULAR Latitude: 45-59'40"N Longitude: 69-47'00"W
Elevation: 387 Surface Temp: 10.2 Stratified: MIXED Site Depth: 4.3
Lake Area: 6 Watershed Area: 220 WA/LA: 36.7 Hydro Type: DRAINAGE
Residence Time: 0.10 Secchi Depth: 3.6 Turbidity: 0.3 Color: 40
Closed pH: 7.25 Equil. pH: 7.55 ANC: 265.4 DOC: 8.49
Closed DIC: 2.99 Equil. DIC: 2.71 Meas. Cond: 39.1 Cal. Cond: 40.1
Ca: 277.2 Mg: 86.9 Na: 29.4 K: 8.5 NH4: 1.4
SO4: 76.3 HCO3: 226.7 Cl: 7.0 NO3: 0.1 F: 1.1
Sum Cations: 403.5 Sum Anions: 311.5 Cations/Anions: 1.30 Tot. P: 0.8
Tot. Al: 59.2 Ext. Al: 13.8 Fe: 39.0 Mn: 0.0 SiO2: 1.80

(continued)

TABLE 3-1 (continued)

ID: 1E2-003 Name: (NO NAME) State: ME Date: 17OCT84
Sample Type: REGULAR Latitude: 45-57'15"N Longitude: 70-04'05"W
Elevation: 501 Surface Temp: 9.3 Stratified: MIXED Site Depth: 0.9
Lake Area: 5 Watershed Area: 67 WA/LA: 14.6 Hydro Type: DRAINAGE
Residence Time: 0.05 Secchi Depth: 0.9 Turbidity: 0.5 Color: 40
Closed pH: 7.35 Equil. pH: 7.77 ANC: 393.2 DOC: 6.04
Closed DIC: 4.42 Equil. DIC: 4.29 Meas. Cond: 50.3 Cal. Cond: 51.7
Ca: 354.8 Mg: 113.5 Na: 29.0 K: 3.8 NH4: 1.7
SO4: 80.4 HCO3: 350.9 Cl: 6.9 NO3: 0.5 F: 0.9
Sum Cations: 502.8 Sum Anions: 440.4 Cations/Anions: 1.14 Tot. P: 1.0
Tot. Al: 64.3 Ext. Al: 12.9 Fe: 59.0 Mn: 7.0 SiO2: 1.59

ID: 1E2-004 Name: LOST POND State: ME Date: 16OCT84
Sample Type: REGULAR Latitude: 46-13'00"N Longitude: 69-20'50"W
Elevation: 296 Surface Temp: 12.8 Stratified: MIXED Site Depth: 0.6
Lake Area: 20 Watershed Area: 438 WA/LA: 22.2 Hydro Type: DRAINAGE
Residence Time: 0.02 Secchi Depth: 0.6 Turbidity: 1.2 Color: 175
Closed pH: 6.05 Equil. pH: 6.30 ANC: 87.8 DOC: 26.38
Closed DIC: 0.62 Equil. DIC: 0.28 Meas. Cond: 25.2 Cal. Cond: 22.3
Ca: 146.5 Mg: 84.7 Na: 43.2 K: 13.8 NH4: 2.1
SO4: 38.3 HCO3: 22.9 Cl: 16.3 NO3: 0.2 F: 1.2
Sum Cations: 291.1 Sum Anions: 79.1 Cations/Anions: 3.68 Tot. P: 11.1
Tot. Al: 796.8 Ext. Al: 204.5 Fe: 492.0 Mn: 18.0 SiO2: 1.47

ID: 1E2-007 Name: FAIRBANKS POND State: ME Date: 24OCT84
Sample Type: REGULAR Latitude: 44-23'21"N Longitude: 69-49'52"W
Elevation: 81 Surface Temp: 12.2 Stratified: WEAK Site Depth: 10.0
Lake Area: 6 Watershed Area: 28 WA/LA: 4.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.3 Turbidity: 0.9 Color: 30
Closed pH: 6.58 Equil. pH: 7.07 ANC: 82.8 DOC: 4.51
Closed DIC: 1.16 Equil. DIC: 0.80 Meas. Cond: 24.2 Cal. Cond: 23.9
Ca: 83.5 Mg: 35.2 Na: 64.8 K: 18.7 NH4: 0.7
SO4: 42.5 HCO3: 69.9 Cl: 75.9 NO3: 0.1 F: 0.6
Sum Cations: 203.1 Sum Anions: 189.1 Cations/Anions: 1.07 Tot. P: 4.8
Tot. Al: 18.0 Ext. Al: 4.2 Fe: 39.0 Mn: 1.0 SiO2: 0.33

ID: 1E2-010 Name: FOREST POND State: ME Date: 23OCT84
Sample Type: REGULAR Latitude: 43-59'50"N Longitude: 69-21'15"W
Elevation: 20 Surface Temp: 11.3 Stratified: MIXED Site Depth: 2.4
Lake Area: 4 Watershed Area: 23 WA/LA: 5.5 Hydro Type: DRAINAGE
Residence Time: 0.34 Secchi Depth: 1.1 Turbidity: 0.5 Color: 200
Closed pH: 5.95 Equil. pH: 6.67 ANC: 64.9 DOC: 11.05
Closed DIC: 1.52 Equil. DIC: 0.36 Meas. Cond: 34.4 Cal. Cond: 34.4
Ca: 65.4 Mg: 46.7 Na: 171.8 K: 14.1 NH4: 6.5
SO4: 57.9 HCO3: 34.4 Cl: 148.0 NO3: 1.3 F: 1.6
Sum Cations: 305.4 Sum Anions: 243.1 Cations/Anions: 1.26 Tot. P: 12.6
Tot. Al: 474.5 Ext. Al: 53.7 Fe: 1058.0 Mn: 22.0 SiO2: 3.51

ID: 1E2-011 Name: ELM POND State: ME Date: 17OCT84
Sample Type: REGULAR Latitude: 46-01'30"N Longitude: 69-48'30"W
Elevation: 382 Surface Temp: 11.3 Stratified: MIXED Site Depth: 1.8
Lake Area: 100 Watershed Area: 2321 WA/LA: 23.1 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 2.0 Turbidity: 0.5 Color: 20
Closed pH: 7.45 Equil. pH: 7.77 ANC: 341.1 DOC: 6.42
Closed DIC: 3.80 Equil. DIC: 3.86 Meas. Cond: 48.2 Cal. Cond: 48.7
Ca: 320.7 Mg: 96.8 Na: 44.3 K: 6.6 NH4: 2.3
SO4: 87.5 HCO3: 308.4 Cl: 8.9 NO3: 1.0 F: 1.4
Sum Cations: 470.7 Sum Anions: 408.2 Cations/Anions: 1.15 Tot. P: 1.4
Tot. Al: 61.8 Ext. Al: 16.0 Fe: 69.0 Mn: 3.0 SiO2: 1.82

(continued)

TABLE 3-1 (continued)

ID: 1E2-012 Name: SECOND MUSQUACOOK LAKE State: ME Date: 16OCT84
Sample Type: REGULAR Latitude: 46-38'00"N Longitude: 69-10'30"W
Elevation: 326 Surface Temp: 10.3 Stratified: MIXED Site Depth: 13.7
Lake Area: 328 Watershed Area: 17078 WA/LA: 52.0 Hydro Type: DRAINAGE
Residence Time: 0.24 Secchi Depth: 3.3 Turbidity: 0.7 Color: 40
Closed pH: 7.10 Equil. pH: 7.41 ANC: 199.0 DOC: 6.49
Closed DIC: 2.10 Equil. DIC: 1.91 Meas. Cond: 31.9 Cal. Cond: 33.4
Ca: 191.2 Mg: 89.6 Na: 40.3 K: 10.6 NH4: 1.5
SO4: 82.3 HCO3: 152.0 Cl: 8.9 NO3: 3.3 F: 1.3
Sum Cations: 333.3 Sum Anions: 247.9 Cations/Anions: 1.34 Tot. P: 57.9
Tot. Al: 64.5 Ext. Al: 10.7 Fe: 92.0 Mn: 37.0 SiO2: 2.69

ID: 1E2-014 Name: CLARKSON POND State: ME Date: 16OCT84
Sample Type: REGULAR Latitude: 46-25'20"N Longitude: 69-28'00"W
Elevation: 374 Surface Temp: 11.8 Stratified: MIXED Site Depth: 1.0
Lake Area: 14 Watershed Area: 388 WA/LA: 27.7 Hydro Type: DRAINAGE
Residence Time: 0.03 Secchi Depth: 1.0 Turbidity: 0.7 Color: 95
Closed pH: 7.27 Equil. pH: 7.78 ANC: 399.9 DOC: 16.15
Closed DIC: 4.28 Equil. DIC: 3.85 Meas. Cond: 50.4 Cal. Cond: 53.7
Ca: 310.6 Mg: 221.3 Na: 40.1 K: 8.7 NH4: 2.0
SO4: 60.0 HCO3: 328.3 Cl: 13.3 NO3: 1.8 F: 1.4
Sum Cations: 582.7 Sum Anions: 405.8 Cations/Anions: 1.44 Tot. P: 13.6
Tot. Al: 164.0 Ext. Al: 28.5 Fe: 158.0 Mn: 10.0 SiO2: 2.19

ID: 1E2-015 Name: (NO NAME) State: ME Date: 16OCT84
Sample Type: REGULAR Latitude: 46-16'45"N Longitude: 69-36'25"W
Elevation: 308 Surface Temp: 13.1 Stratified: MIXED Site Depth: 1.0
Lake Area: 14 Watershed Area: 873 WA/LA: 63.7 Hydro Type: DRAINAGE
Residence Time: 0.01 Secchi Depth: 1.0 Turbidity: 0.5 Color: 45
Closed pH: 7.34 Equil. pH: 7.77 ANC: 380.6 DOC: 8.47
Closed DIC: 2.45 Equil. DIC: 3.97 Meas. Cond: 51.4 Cal. Cond: 52.5
Ca: 368.8 Mg: 75.3 Na: 38.1 K: 10.1 NH4: 8.2
SO4: 89.1 HCO3: 335.1 Cl: 14.2 NO3: 0.2 F: 1.2
Sum Cations: 500.6 Sum Anions: 440.8 Cations/Anions: 1.14 Tot. P: 1.1
Tot. Al: 72.4 Ext. Al: 22.4 Fe: 88.0 Mn: 3.0 SiO2: 3.70

ID: 1E2-016 Name: ROUND POND State: ME Date: 16OCT84
Sample Type: REGULAR Latitude: 46-14'30"N Longitude: 69-33'45"W
Elevation: 304 Surface Temp: 11.7 Stratified: MIXED Site Depth: 2.7
Lake Area: 150 Watershed Area: 11295 WA/LA: 75.4 Hydro Type: DRAINAGE
Residence Time: 0.03 Secchi Depth: 1.8 Turbidity: 1.1 Color: 35
Closed pH: 7.35 Equil. pH: 7.67 ANC: 270.1 DOC: 7.07
Closed DIC: 2.96 Equil. DIC: 2.79 Meas. Cond: 39.5 Cal. Cond: 40.0
Ca: 265.7 Mg: 82.4 Na: 35.8 K: 9.1 NH4: 1.4
SO4: 77.5 HCO3: 234.2 Cl: 6.3 NO3: 0.0 F: 1.2
Sum Cations: 394.5 Sum Anions: 319.6 Cations/Anions: 1.23 Tot. P: 3.6
Tot. Al: 38.9 Ext. Al: 13.1 Fe: 98.0 Mn: 10.0 SiO2: 1.58

ID: 1E2-017 Name: BIG HURD POND State: ME Date: 17OCT84
Sample Type: REGULAR Latitude: 46-10'00"N Longitude: 69-40'00"W
Elevation: 313 Surface Temp: 10.2 Stratified: MIXED Site Depth: 3.9
Lake Area: 117 Watershed Area: 2616 WA/LA: 22.3 Hydro Type: DRAINAGE
Residence Time: 0.15 Secchi Depth: 3.4 Turbidity: 0.7 Color: 45
Closed pH: 7.21 Equil. pH: 7.51 ANC: 219.9 DOC: 8.38
Closed DIC: 2.30 Equil. DIC: 2.26 Meas. Cond: 35.5 Cal. Cond: 37.0
Ca: 252.5 Mg: 74.6 Na: 30.6 K: 7.7 NH4: 1.3
SO4: 84.1 HCO3: 189.5 Cl: 7.6 NO3: 0.2 F: 1.6
Sum Cations: 366.8 Sum Anions: 283.3 Cations/Anions: 1.29 Tot. P: 1.2
Tot. Al: 155.8 Ext. Al: 10.8 Fe: 77.0 Mn: 11.0 SiO2: 2.71

(continued)

TABLE 3-1 (continued)

ID: 1E2-018 Name: WEBSTER LAKE State: ME Date: 16OCT84
Sample Type: REGULAR Latitude: 46-09'30"N Longitude: 69-05'00"W
Elevation: 272 Surface Temp: 10.5 Stratified: MIXED Site Depth: 13.4
Lake Area: 208 Watershed Area: 72452 WA/LA: 347.7 Hydro Type: DRAINAGE
Residence Time: 0.04 Secchi Depth: 2.6 Turbidity: 0.7 Color: 35
Closed pH: 7.10 Equil. pH: 7.28 ANC: 167.9 DOC: 6.04
Closed DIC: 1.99 Equil. DIC: 1.72 Meas. Cond: 32.4 Cal. Cond: 31.8
Ca: 187.3 Mg: 81.5 Na: 32.6 K: 10.4 NH4: 1.5
SO4: 84.5 HCO3: 132.4 Cl: 10.9 NO3: 2.9 F: 1.1
Sum Cations: 313.4 Sum Anions: 232.0 Cations/Anions: 1.35 Tot. P: 0.0
Tot. Al: 58.1 Ext. Al: 8.7 Fe: 31.0 Mn: 11.0 SiO2: 1.97

ID: 1E2-019 Name: GREEN POND State: ME Date: 15OCT84
Sample Type: REGULAR Latitude: 46-09'00"N Longitude: 68-24'15"W
Elevation: 283 Surface Temp: 11.2 Stratified: MIXED Site Depth: 1.9
Lake Area: 7 Watershed Area: 65 WA/LA: 9.8 Hydro Type: DRAINAGE
Residence Time: 0.16 Secchi Depth: 1.9 Turbidity: 0.9 Color: 25
Closed pH: 7.28 Equil. pH: 7.41 ANC: 162.6 DOC: 4.14
Closed DIC: 1.67 Equil. DIC: 1.81 Meas. Cond: 29.0 Cal. Cond: 29.8
Ca: 172.8 Mg: 46.2 Na: 42.5 K: 5.8 NH4: 1.4
SO4: 81.2 HCO3: 155.1 Cl: 12.1 NO3: 0.1 F: 1.1
Sum Cations: 268.9 Sum Anions: 249.8 Cations/Anions: 1.08 Tot. P: 0.7
Tot. Al: 36.5 Ext. Al: 10.4 Fe: 44.0 Mn: 4.0 SiO2: 3.59

ID: 1E2-021 Name: (NO NAME) State: ME Date: 16OCT84
Sample Type: REGULAR Latitude: 46-07'45"N Longitude: 68-35'10"W
Elevation: 232 Surface Temp: 10.5 Stratified: MIXED Site Depth: 0.9
Lake Area: 6 Watershed Area: 6990 WA/LA: 1184.8 Hydro Type: DRAINAGE
Residence Time: 0.00 Secchi Depth: 0.9 Turbidity: 1.2 Color: 20
Closed pH: 7.10 Equil. pH: 7.67 ANC: 270.9 DOC: 3.51
Closed DIC: 3.47 Equil. DIC: 3.01 Meas. Cond: 39.2 Cal. Cond: 41.6
Ca: 235.9 Mg: 86.0 Na: 55.4 K: 10.0 NH4: 1.5
SO4: 81.4 HCO3: 254.0 Cl: 18.9 NO3: 0.0 F: 1.3
Sum Cations: 388.9 Sum Anions: 356.2 Cations/Anions: 1.09 Tot. P: 2.3
Tot. Al: 37.6 Ext. Al: 11.7 Fe: 59.0 Mn: 3.0 SiO2: 3.11

ID: 1E2-023 Name: ROBINSON POND State: ME Date: 17OCT84
Sample Type: REGULAR Latitude: 46-01'45"N Longitude: 69-57'30"W
Elevation: 518 Surface Temp: 9.9 Stratified: MIXED Site Depth: 0.9
Lake Area: 14 Watershed Area: 290 WA/LA: 21.0 Hydro Type: DRAINAGE
Residence Time: 0.04 Secchi Depth: 0.9 Turbidity: 0.7 Color: 30
Closed pH: 7.40 Equil. pH: 7.78 ANC: 417.4 DOC: 8.11
Closed DIC: 4.65 Equil. DIC: 4.41 Meas. Cond: 55.1 Cal. Cond: 58.1
Ca: 329.0 Mg: 201.1 Na: 32.2 K: 5.2 NH4: 7.1
SO4: 92.3 HCO3: 367.6 Cl: 15.8 NO3: 2.8 F: 1.1
Sum Cations: 574.7 Sum Anions: 480.9 Cations/Anions: 1.20 Tot. P: 1.2
Tot. Al: 75.6 Ext. Al: 14.5 Fe: 26.0 Mn: 5.0 SiO2: 0.56

ID: 1E2-025 Name: (NO NAME) State: ME Date: 17OCT84
Sample Type: REGULAR Latitude: 45-53'30"N Longitude: 69-46'25"W
Elevation: 332 Surface Temp: 11.4 Stratified: MIXED Site Depth: 0.9
Lake Area: 7 Watershed Area: 3219 WA/LA: 459.9 Hydro Type: DRAINAGE
Residence Time: 0.00 Secchi Depth: 0.7 Turbidity: 0.8 Color: 45
Closed pH: 6.80 Equil. pH: 7.65 ANC: 322.0 DOC: 8.38
Closed DIC: 4.62 Equil. DIC: 3.32 Meas. Cond: 42.8 Cal. Cond: 43.6
Ca: 277.6 Mg: 103.2 Na: 45.9 K: 9.4 NH4: 3.1
SO4: 53.5 HCO3: 284.3 Cl: 17.2 NO3: 0.7 F: 1.4
Sum Cations: 439.2 Sum Anions: 357.5 Cations/Anions: 1.23 Tot. P: 4.2
Tot. Al: 62.7 Ext. Al: 12.2 Fe: 270.0 Mn: 96.0 SiO2: 2.40

(continued)

TABLE 3-1 (continued)

ID: 1E2-027 Name: TOMHEGAN POND State: ME Date: 17OCT84
Sample Type: REGULAR Latitude: 45-48'00"N Longitude: 69-53'30"W
Elevation: 369 Surface Temp: 10.6 Stratified: MIXED Site Depth: 2.1
Lake Area: 123 Watershed Area: 3173 WA/LA: 25.8 Hydro Type: DRAINAGE
Residence Time: 0.07 Secchi Depth: 2.1 Turbidity: 1.7 Color: 40
Closed pH: 6.93 Equil. pH: 7.33 ANC: 171.6 DOC: 10.21
Closed DIC: 1.91 Equil. DIC: 1.63 Meas. Cond: 38.7 Cal. Cond: 36.8
Ca: 204.8 Mg: 61.6 Na: 37.4 K: 10.5 NH4: 29.9
SO4: 113.6 HCO3: 139.7 Cl: 13.3 NO3: 0.9 F: 1.4
Sum Cations: 344.4 Sum Anions: 269.0 Cations/Anions: 1.28 Tot. P: 3.1
Tot. Al: 138.6 Ext. Al: 16.1 Fe: 71.0 Mn: 10.0 SiO2: 1.51

ID: 1E2-029 Name: PLEASANT LAKE State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 45-04'00"N Longitude: 67-29'00"W
Elevation: 71 Surface Temp: 11.8 Stratified: MIXED Site Depth: 10.5
Lake Area: 140 Watershed Area: 803 WA/LA: 5.8 Hydro Type: DRAINAGE
Residence Time: 1.12 Secchi Depth: 5.9 Turbidity: 0.3 Color: 5
Closed pH: 6.97 Equil. pH: 7.03 ANC: 84.5 DOC: 2.58
Closed DIC: 1.05 Equil. DIC: 0.98 Meas. Cond: 29.5 Cal. Cond: 30.1
Ca: 99.2 Mg: 44.3 Na: 104.2 K: 5.7 NH4: 0.9
SO4: 73.3 HCO3: 73.0 Cl: 90.5 NO3: 0.2 F: 1.1
Sum Cations: 254.3 Sum Anions: 238.3 Cations/Anions: 1.07 Tot. P: 5.4
Tot. Al: 67.8 Ext. Al: 0.0 Fe: 11.0 Mn: 4.0 SiO2: 0.68

ID: 1E2-030 Name: ROUND LAKE State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 45-01'00"N Longitude: 67-16'00"W
Elevation: 23 Surface Temp: 11.3 Stratified: MIXED Site Depth: 3.6
Lake Area: 223 Watershed Area: 2637 WA/LA: 11.8 Hydro Type: DRAINAGE
Residence Time: 0.21 Secchi Depth: 3.6 Turbidity: 0.5 Color: 20
Closed pH: 7.17 Equil. pH: 7.45 ANC: 178.9 DOC: 4.89
Closed DIC: 2.01 Equil. DIC: 1.98 Meas. Cond: 36.5 Cal. Cond: 37.9
Ca: 164.5 Mg: 59.6 Na: 106.3 K: 12.2 NH4: 1.1
SO4: 59.9 HCO3: 171.4 Cl: 78.5 NO3: 0.5 F: 2.7
Sum Cations: 343.7 Sum Anions: 313.2 Cations/Anions: 1.10 Tot. P: 9.2
Tot. Al: 27.2 Ext. Al: 1.2 Fe: 22.0 Mn: 6.0 SiO2: 2.08

ID: 1E2-037 Name: MOOSE POND State: ME Date: 24OCT84
Sample Type: REGULAR Latitude: 44-28'30"N Longitude: 69-58'00"W
Elevation: 120 Surface Temp: 12.8 Stratified: MIXED Site Depth: 4.5
Lake Area: 27 Watershed Area: 298 WA/LA: 10.9 Hydro Type: DRAINAGE
Residence Time: 0.35 Secchi Depth: 3.9 Turbidity: 0.8 Color: 15
Closed pH: 7.34 Equil. pH: 7.70 ANC: 370.8 DOC: 4.39
Closed DIC: 3.97 Equil. DIC: 4.12 Meas. Cond: 51.5 Cal. Cond: 53.4
Ca: 298.7 Mg: 90.2 Na: 87.7 K: 21.4 NH4: 1.1
SO4: 57.4 HCO3: 330.3 Cl: 69.8 NO3: 0.2 F: 2.3
Sum Cations: 499.0 Sum Anions: 461.1 Cations/Anions: 1.08 Tot. P: 13.8
Tot. Al: 23.7 Ext. Al: 3.5 Fe: 73.0 Mn: 7.0 SiO2: 1.21

ID: 1E2-038 Name: NELSON POND State: ME Date: 24OCT84
Sample Type: REGULAR Latitude: 44-24'55"N Longitude: 70-15'45"W
Elevation: 238 Surface Temp: 12.1 Stratified: MIXED Site Depth: 4.9
Lake Area: 7 Watershed Area: 31 WA/LA: 4.4 Hydro Type: DRAINAGE
Residence Time: 0.84 Secchi Depth: 4.4 Turbidity: 0.6 Color: 5
Closed pH: 5.84 Equil. pH: 6.06 ANC: 15.6 DOC: 3.19
Closed DIC: 0.46 Equil. DIC: 0.21 Meas. Cond: 20.8 Cal. Cond: 22.0
Ca: 81.5 Mg: 25.0 Na: 45.1 K: 6.4 NH4: 0.8
SO4: 121.1 HCO3: 10.3 Cl: 27.4 NO3: 1.0 F: 2.4
Sum Cations: 160.6 Sum Anions: 162.2 Cations/Anions: 0.99 Tot. P: 6.0
Tot. Al: 56.2 Ext. Al: 23.8 Fe: 0.0 Mn: 27.0 SiO2: 0.10

(continued)

TABLE 3-1 (continued)

ID: 1E2-039 Name: NORTHEAST POND State: ME Date: 24OCT84
Sample Type: REGULAR Latitude: 44-20'30"N Longitude: 70-21'15"W
Elevation: 130 Surface Temp: 10.4 Stratified: MIXED Site Depth: 0.9
Lake Area: 5 Watershed Area: 228 WA/LA: 50.7 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 0.6 Turbidity: 2.1 Color: 90
Closed pH: 6.12 Equil. pH: 7.37 ANC: 188.8 DOC: 13.38
Closed DIC: 4.87 Equil. DIC: 1.56 Meas. Cond: 33.6 Cal. Cond: 35.4
Ca: 175.3 Mg: 59.1 Na: 93.7 K: 9.1 NH4: 2.0
SO4: 49.3 HCO3: 187.1 Cl: 50.6 NO3: 0.4 F: 1.6
Sum Cations: 339.4 Sum Anions: 289.0 Cations/Anions: 1.17 Tot. P: 11.9
Tot. Al: 102.9 Ext. Al: 14.5 Fe: 154.0 Mn: 29.0 SiO2: 8.99

ID: 1E2-043 Name: THOMPSON LAKE State: ME Date: 25OCT84
Sample Type: REGULAR Latitude: 44-06'00"N Longitude: 70-30'00"W
Elevation: 99 Surface Temp: 13.4 Stratified: MIXED Site Depth: 31.7
Lake Area: 1768 Watershed Area: 14912 WA/LA: 8.4 Hydro Type: DRAINAGE
Residence Time: 3.11 Secchi Depth: 4.9 Turbidity: 0.4 Color: 5
Closed pH: 7.12 Equil. pH: 7.22 ANC: 113.7 DOC: 2.85
Closed DIC: 1.20 Equil. DIC: 1.24 Meas. Cond: 29.3 Cal. Cond: 31.8
Ca: 134.1 Mg: 42.8 Na: 84.7 K: 9.3 NH4: 0.9
SO4: 90.2 HCO3: 93.4 Cl: 66.0 NO3: 0.0 F: 1.8
Sum Cations: 271.8 Sum Anions: 251.5 Cations/Anions: 1.08 Tot. P: 4.2
Tot. Al: 21.8 Ext. Al: 6.8 Fe: 41.0 Mn: 9.0 SiO2: 1.65

ID: 1E2-044 Name: TRIPP POND State: ME Date: 25OCT84
Sample Type: REGULAR Latitude: 44-03'00"N Longitude: 70-26'00"W
Elevation: 93 Surface Temp: 13.3 Stratified: MIXED Site Depth: 9.1
Lake Area: 296 Watershed Area: 1981 WA/LA: 6.7 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 3.2 Turbidity: 0.6 Color: 15
Closed pH: 6.91 Equil. pH: 7.26 ANC: 113.7 DOC: 3.99
Closed DIC: 1.29 Equil. DIC: 1.20 Meas. Cond: 34.3 Cal. Cond: 36.3
Ca: 129.8 Mg: 44.6 Na: 128.0 K: 11.5 NH4: 1.1
SO4: 74.7 HCO3: 91.6 Cl: 114.0 NO3: 0.1 F: 1.9
Sum Cations: 315.1 Sum Anions: 282.4 Cations/Anions: 1.12 Tot. P: 5.9
Tot. Al: 19.3 Ext. Al: 5.9 Fe: 11.0 Mn: 3.0 SiO2: 1.22

ID: 1E2-045 Name: SEBAGO LAKE State: ME Date: 29OCT84
Sample Type: REGULAR Latitude: 43-50'00"N Longitude: 70-30'00"W
Elevation: 81 Surface Temp: 12.5 Stratified: STRONG Site Depth: 88.4
Lake Area: 11808 Watershed Area: 111459 WA/LA: 9.4 Hydro Type: DRAINAGE
Residence Time: 7.82 Secchi Depth: 6.4 Turbidity: 0.9 Color: 10
Closed pH: 6.99 Equil. pH: 7.15 ANC: 99.7 DOC: 2.76
Closed DIC: 1.19 Equil. DIC: 1.03 Meas. Cond: 33.8 Cal. Cond: 35.7
Ca: 118.4 Mg: 43.3 Na: 123.8 K: 11.8 NH4: 1.2
SO4: 89.7 HCO3: 79.8 Cl: 104.7 NO3: 4.2 F: 2.5
Sum Cations: 298.5 Sum Anions: 281.0 Cations/Anions: 1.06 Tot. P: 0.0
Tot. Al: 85.3 Ext. Al: 5.6 Fe: 6.0 Mn: 1.0 SiO2: 1.69

ID: 1E2-046 Name: RICH MILL POND State: ME Date: 29OCT84
Sample Type: REGULAR Latitude: 43-47'30"N Longitude: 70-34'30"W
Elevation: 88 Surface Temp: 11.1 Stratified: MIXED Site Depth: 2.2
Lake Area: 32 Watershed Area: 1010 WA/LA: 31.6 Hydro Type: DRAINAGE
Residence Time: 0.06 Secchi Depth: 1.6 Turbidity: 0.5 Color: 45
Closed pH: 6.23 Equil. pH: 7.25 ANC: 128.2 DOC: 5.70
Closed DIC: 3.11 Equil. DIC: 1.40 Meas. Cond: 36.0 Cal. Cond: 36.9
Ca: 100.2 Mg: 55.9 Na: 146.1 K: 13.9 NH4: 3.3
SO4: 44.2 HCO3: 113.9 Cl: 136.9 NO3: 0.8 F: 2.1
Sum Cations: 319.7 Sum Anions: 297.9 Cations/Anions: 1.07 Tot. P: 8.9
Tot. Al: 26.9 Ext. Al: 5.6 Fe: 80.0 Mn: 4.0 SiO2: 2.46

(continued)

TABLE 3-1 (continued)

ID: 1E2-047 Name: ROUND POND State: ME Date: 23OCT84
Sample Type: REGULAR Latitude: 44-12'15"N Longitude: 69-17'30"W
Elevation: 10 Surface Temp: 13.6 Stratified: MIXED Site Depth: 10.4
Lake Area: 93 Watershed Area: 32041 WA/LA: 344.9 Hydro Type: DRAINAGE
Residence Time: 0.03 Secchi Depth: 1.9 Turbidity: 1.0 Color: 25
Closed pH: 7.19 Equil. pH: 7.44 ANC: 197.7 DOC: 5.04
Closed DIC: 2.08 Equil. DIC: 2.01 Meas. Cond: 38.7 Cal. Cond: 41.5
Ca: 168.1 Mg: 67.6 Na: 113.8 K: 17.5 NH4: 0.7
SO4: 77.9 HCO3: 179.5 Cl: 86.2 NO3: 0.0 F: 1.6
Sum Cations: 367.7 Sum Anions: 345.5 Cations/Anions: 1.06 Tot. P: 12.7
Tot. Al: 62.9 Ext. Al: 4.5 Fe: 173.0 Mn: 29.0 SiO2: 2.03

ID: 1E2-048 Name: LITTLE MEDOMAK LAKE State: ME Date: 23OCT84
Sample Type: REGULAR Latitude: 44-11'25"N Longitude: 69-20'30"W
Elevation: 69 Surface Temp: 13.4 Stratified: MIXED Site Depth: 7.6
Lake Area: 31 Watershed Area: 220 WA/LA: 7.2 Hydro Type: DRAINAGE
Residence Time: 0.89 Secchi Depth: 5.3 Turbidity: 0.6 Color: 25
Closed pH: 7.03 Equil. pH: 7.26 ANC: 124.0 DOC: 3.15
Closed DIC: 1.34 Equil. DIC: 1.25 Meas. Cond: 28.4 Cal. Cond: 30.3
Ca: 100.9 Mg: 48.5 Na: 92.2 K: 12.8 NH4: 0.5
SO4: 69.8 HCO3: 119.4 Cl: 66.7 NO3: 0.0 F: 1.5
Sum Cations: 255.0 Sum Anions: 257.6 Cations/Anions: 0.99 Tot. P: 3.5
Tot. Al: 21.9 Ext. Al: 3.5 Fe: 135.0 Mn: 4.0 SiO2: 0.69

ID: 1E2-049 Name: GROSS POND State: ME Date: 23OCT84
Sample Type: REGULAR Latitude: 44-03'30"N Longitude: 69-23'35"W
Elevation: 29 Surface Temp: 13.5 Stratified: STRONG Site Depth: 16.8
Lake Area: 5 Watershed Area: 13 WA/LA: 2.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 7.7 Turbidity: 0.7 Color: 5
Closed pH: 5.25 Equil. pH: 5.19 ANC: 0.4 DOC: 2.53
Closed DIC: 0.29 Equil. DIC: 0.05 Meas. Cond: 26.7 Cal. Cond: 27.5
Ca: 38.4 Mg: 34.1 Na: 112.6 K: 5.3 NH4: 0.4
SO4: 82.4 HCO3: 3.6 Cl: 110.8 NO3: 0.2 F: 1.5
Sum Cations: 196.6 Sum Anions: 198.4 Cations/Anions: 0.99 Tot. P: 3.1
Tot. Al: 59.4 Ext. Al: 33.9 Fe: 71.0 Mn: 40.0 SiO2: 0.45

ID: 1E2-051 Name: JOYS POND State: ME Date: 24OCT84
Sample Type: REGULAR Latitude: 44-13'20"N Longitude: 69-40-02"W
Elevation: 55 Surface Temp: 12.4 Stratified: MIXED Site Depth: 4.5
Lake Area: 9 Watershed Area: 119 WA/LA: 13.5 Hydro Type: DRAINAGE
Residence Time: 0.29 Secchi Depth: 2.5 Turbidity: 0.8 Color: 30
Closed pH: 6.81 Equil. pH: 7.36 ANC: 159.6 DOC: 4.70
Closed DIC: 1.89 Equil. DIC: 1.58 Meas. Cond: 52.0 Cal. Cond: 55.1
Ca: 221.7 Mg: 58.2 Na: 157.9 K: 18.0 NH4: 0.8
SO4: 170.3 HCO3: 135.8 Cl: 127.0 NO3: 0.2 F: 2.5
Sum Cations: 456.6 Sum Anions: 435.9 Cations/Anions: 1.05 Tot. P: 6.5
Tot. Al: 48.3 Ext. Al: 5.2 Fe: 237.0 Mn: 17.0 SiO2: 5.99

ID: 1E2-052 Name: SUMMIT POND State: ME Date: 17OCT84
Sample Type: REGULAR Latitude: 46-01'40"N Longitude: 69-52'50"W
Elevation: 479 Surface Temp: 9.2 Stratified: MIXED Site Depth: 1.0
Lake Area: 19 Watershed Area: 215 WA/LA: 11.6 Hydro Type: DRAINAGE
Residence Time: 0.07 Secchi Depth: 1.0 Turbidity: 0.4 Color: 10
Closed pH: 7.68 Equil. pH: 7.89 ANC: 485.6 DOC: 4.40
Closed DIC: 5.43 Equil. DIC: 5.38 Meas. Cond: 59.7 Cal. Cond: 61.8
Ca: 373.3 Mg: 154.2 Na: 50.1 K: 3.8 NH4: 2.2
SO4: 101.1 HCO3: 439.0 Cl: 7.8 NO3: 0.9 F: 1.5
Sum Cations: 583.5 Sum Anions: 552.4 Cations/Anions: 1.06 Tot. P: 2.0
Tot. Al: 100.5 Ext. Al: 13.5 Fe: 0.0 Mn: 2.0 SiO2: 0.98

(continued)

TABLE 3-1 (continued)

ID: 1E2-053 Name: HUTCHINSON POND State: ME Date: 24OCT84
Sample Type: REGULAR Latitude: 44-15'52"N Longitude: 69-52'21"W
Elevation: 52 Surface Temp: 13.0 Stratified: MIXED Site Depth: 6.7
Lake Area: 42 Watershed Area: 1476 WA/LA: 34.8 Hydro Type: DRAINAGE
Residence Time: 0.23 Secchi Depth: 3.1 Turbidity: 0.5 Color: 25
Closed pH: 6.89 Equil. pH: 7.41 ANC: 159.6 DOC: 5.36
Closed DIC: 1.78 Equil. DIC: 1.56 Meas. Cond: 33.1 Cal. Cond: 34.0
Ca: 180.1 Mg: 41.4 Na: 72.4 K: 12.9 NH4: 0.9
SO4: 87.8 HCO3: 130.4 Cl: 45.4 NO3: 0.2 F: 1.9
Sum Cations: 307.8 Sum Anions: 265.8 Cations/Anions: 1.16 Tot. P: 5.7
Tot. Al: 34.7 Ext. Al: 4.2 Fe: 45.0 Mn: 7.0 SiO2: 1.42

ID: 1E2-054 Name: BRETTUNS POND State: ME Date: 24OCT84
Sample Type: REGULAR Latitude: 44-23'30"N Longitude: 70-15'00"W
Elevation: 122 Surface Temp: 12.5 Stratified: MIXED Site Depth: 12.2
Lake Area: 68 Watershed Area: 1041 WA/LA: 15.3 Hydro Type: DRAINAGE
Residence Time: 0.69 Secchi Depth: 2.3 Turbidity: 1.0 Color: 20
Closed pH: 7.32 Equil. pH: 7.46 ANC: 232.1 DOC: 3.05
Closed DIC: 2.46 Equil. DIC: 2.64 Meas. Cond: 47.8 Cal. Cond: 51.6
Ca: 235.5 Mg: 57.5 Na: 124.8 K: 23.0 NH4: 0.6
SO4: 112.7 HCO3: 211.2 Cl: 104.4 NO3: 0.1 F: 1.9
Sum Cations: 441.4 Sum Anions: 430.6 Cations/Anions: 1.03 Tot. P: 5.2
Tot. Al: 13.1 Ext. Al: 3.5 Fe: 81.0 Mn: 9.0 SiO2: 1.96

ID: 1E2-055 Name: DUNDEE POND State: ME Date: 29OCT84
Sample Type: REGULAR Latitude: 43-47'18"N Longitude: 70-27'17"W
Elevation: 57 Surface Temp: 12.6 Stratified: MIXED Site Depth: 11.9
Lake Area: 75 Watershed Area: 113536 WA/LA: 1515.8 Hydro Type: RESERVOIR
Residence Time: 0.01 Secchi Depth: 4.0 Turbidity: 0.3 Color: 10
Closed pH: 6.80 Equil. pH: 7.17 ANC: 107.8 DOC: 2.74
Closed DIC: 1.41 Equil. DIC: 1.21 Meas. Cond: 35.8 Cal. Cond: 37.1
Ca: 122.8 Mg: 44.9 Na: 125.9 K: 12.5 NH4: 1.4
SO4: 92.0 HCO3: 90.0 Cl: 109.1 NO3: 3.5 F: 2.5
Sum Cations: 307.7 Sum Anions: 297.1 Cations/Anions: 1.04 Tot. P: 3.0
Tot. Al: 76.7 Ext. Al: 5.0 Fe: 0.0 Mn: 0.0 SiO2: 1.62

ID: 1E2-056 Name: PEABODY POND State: ME Date: 25OCT84
Sample Type: REGULAR Latitude: 43-56'32"N Longitude: 70-41'13"W
Elevation: 147 Surface Temp: 13.2 Stratified: MIXED Site Depth: 12.2
Lake Area: 287 Watershed Area: 1518 WA/LA: 5.3 Hydro Type: DRAINAGE
Residence Time: 1.80 Secchi Depth: 6.9 Turbidity: 0.3 Color: 20
Closed pH: 6.65 Equil. pH: 6.97 ANC: 67.4 DOC: 2.83
Closed DIC: 0.92 Equil. DIC: 0.76 Meas. Cond: 21.2 Cal. Cond: 22.3
Ca: 83.8 Mg: 30.8 Na: 65.0 K: 7.1 NH4: 2.6
SO4: 70.9 HCO3: 54.8 Cl: 44.4 NO3: 0.0 F: 3.1
Sum Cations: 189.5 Sum Anions: 173.3 Cations/Anions: 1.09 Tot. P: 4.6
Tot. Al: 24.4 Ext. Al: 6.8 Fe: 15.0 Mn: 3.0 SiO2: 1.44

ID: 1E2-057 Name: CASSIDY DEADWATER State: ME Date: 17OCT84
Sample Type: REGULAR Latitude: 45-58'38"N Longitude: 69-37'34"W
Elevation: 314 Surface Temp: 11.5 Stratified: MIXED Site Depth: 0.9
Lake Area: 93 Watershed Area: 14227 WA/LA: 152.3 Hydro Type: DRAINAGE
Residence Time: 0.01 Secchi Depth: 0.9 Turbidity: 0.6 Color: 45
Closed pH: 7.66 Equil. pH: 7.63 ANC: 329.3 DOC: 7.90
Closed DIC: 2.96 Equil. DIC: 3.09 Meas. Cond: 44.4 Cal. Cond: 46.3
Ca: 308.2 Mg: 91.3 Na: 42.2 K: 9.6 NH4: 1.3
SO4: 82.5 HCO3: 253.9 Cl: 27.8 NO3: 0.3 F: 1.1
Sum Cations: 452.6 Sum Anions: 366.6 Cations/Anions: 1.23 Tot. P: 1.6
Tot. Al: 153.4 Ext. Al: 17.9 Fe: 95.0 Mn: 11.0 SiO2: 2.25

(continued)

TABLE 3-1 (continued)

ID: 1E2-058 Name: CRESCENT POND State: ME Date: 16OCT84
Sample Type: REGULAR Latitude: 46-25'34"N Longitude: 69-36'35"W
Elevation: 371 Surface Temp: 11.0 Stratified: MIXED Site Depth: 12.2
Lake Area: 127 Watershed Area: 1935 WA/LA: 15.3 Hydro Type: DRAINAGE
Residence Time: 0.68 Secchi Depth: 3.0 Turbidity: 0.4 Color: 30
Closed pH: 6.94 Equil. pH: 7.45 ANC: 173.5 DOC: 5.99
Closed DIC: 2.14 Equil. DIC: 1.82 Meas. Cond: 31.7 Cal. Cond: 31.7
Ca: 181.3 Mg: 83.5 Na: 36.2 K: 8.6 NH4: 1.6
SO4: 81.5 HCO3: 147.9 Cl: 7.7 NO3: 2.4 F: 1.2
Sum Cations: 311.4 Sum Anions: 240.9 Cations/Anions: 1.29 Tot. P: 44.8
Tot. Al: 61.2 Ext. Al: 13.7 Fe: 38.0 Mn: 18.0 SiO2: 2.75

ID: 1E2-059 Name: WESTERN LAKE State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 45-04'20"N Longitude: 67-10'22"W
Elevation: 85 Surface Temp: 10.8 Stratified: MIXED Site Depth: 2.7
Lake Area: 27 Watershed Area: 357 WA/LA: 13.1 Hydro Type: DRAINAGE
Residence Time: 0.14 Secchi Depth: 2.5 Turbidity: 0.9 Color: 18
Closed pH: 6.73 Equil. pH: 6.91 ANC: 73.6 DOC: 5.86
Closed DIC: 0.96 Equil. DIC: 0.78 Meas. Cond: 29.4 Cal. Cond: 28.7
Ca: 95.1 Mg: 41.5 Na: 101.3 K: 6.1 NH4: 1.2
SO4: 78.7 HCO3: 62.5 Cl: 77.4 NO3: 0.8 F: 2.4
Sum Cations: 245.4 Sum Anions: 221.8 Cations/Anions: 1.11 Tot. P: 10.5
Tot. Al: 20.1 Ext. Al: 1.0 Fe: 6.0 Mn: 10.5 SiO2: 0.16

ID: 1E2-060 Name: WILEY POND State: ME Date: 16OCT84
Sample Type: REGULAR Latitude: 46-00'04"N Longitude: 68-32'26"W
Elevation: 235 Surface Temp: 10.6 Stratified: MIXED Site Depth: 5.5
Lake Area: 11 Watershed Area: 521 WA/LA: 45.7 Hydro Type: DRAINAGE
Residence Time: 0.11 Secchi Depth: 3.3 Turbidity: 0.4 Color: 70
Closed pH: 6.87 Equil. pH: 7.27 ANC: 150.8 DOC: 10.17
Closed DIC: 1.72 Equil. DIC: 1.40 Meas. Cond: 26.8 Cal. Cond: 27.2
Ca: 192.4 Mg: 55.0 Na: 35.1 K: 5.6 NH4: 2.2
SO4: 58.2 HCO3: 112.6 Cl: 9.7 NO3: 0.0 F: 1.1
Sum Cations: 290.4 Sum Anions: 181.7 Cations/Anions: 1.60 Tot. P: 1.3
Tot. Al: 98.2 Ext. Al: 24.7 Fe: 55.0 Mn: 0.0 SiO2: 0.42

ID: 1E2-061 Name: LILY BOG State: ME Date: 19OCT84
Sample Type: REGULAR Latitude: 45-03'25"N Longitude: 69-31'58"W
Elevation: 174 Surface Temp: 9.6 Stratified: MIXED Site Depth: 3.0
Lake Area: 7 Watershed Area: 1930 WA/LA: 268.1 Hydro Type: DRAINAGE
Residence Time: 0.01 Secchi Depth: 3.6 Turbidity: 0.5 Color: 45
Closed pH: 6.97 Equil. pH: 7.51 ANC: 293.6 DOC: 7.90
Closed DIC: 3.69 Equil. DIC: 3.16 Meas. Cond: 40.4 Cal. Cond: 41.8
Ca: 238.6 Mg: 91.6 Na: 74.9 K: 8.9 NH4: 2.1
SO4: 51.1 HCO3: 269.1 Cl: 25.6 NO3: 0.1 F: 1.3
Sum Cations: 416.2 Sum Anions: 347.6 Cations/Anions: 1.20 Tot. P: 9.0
Tot. Al: 341.2 Ext. Al: 2.4 Fe: 42.0 Mn: 12.0 SiO2: 0.77

ID: 1E2-062 Name: POLAND POND State: ME Date: 16OCT84
Sample Type: REGULAR Latitude: 46-15'35"N Longitude: 69-35'30"W
Elevation: 307 Surface Temp: 10.7 Stratified: MIXED Site Depth: 3.7
Lake Area: 173 Watershed Area: 7019 WA/LA: 40.6 Hydro Type: DRAINAGE
Residence Time: 0.08 Secchi Depth: 2.3 Turbidity: 1.0 Color: 50
Closed pH: 7.44 Equil. pH: 7.80 ANC: 354.6 DOC: 6.94
Closed DIC: 3.84 Equil. DIC: 3.70 Meas. Cond: 47.4 Cal. Cond: 49.8
Ca: 346.3 Mg: 99.1 Na: 40.9 K: 9.4 NH4: 1.8
SO4: 83.8 HCO3: 300.0 Cl: 10.0 NO3: 1.4 F: 1.2
Sum Cations: 497.5 Sum Anions: 397.2 Cations/Anions: 1.25 Tot. P: 12.9
Tot. Al: 124.8 Ext. Al: 9.7 Fe: 127.0 Mn: 33.0 SiO2: 2.88

(continued)

TABLE 3-1 (continued)

ID: 1E2-063 Name: KALERS POND State: ME Date: 23OCT84
Sample Type: REGULAR Latitude: 44-06'29"N Longitude: 69-25'22"W
Elevation: 38 Surface Temp: 13.4 Stratified: MIXED Site Depth: 2.4
Lake Area: 36 Watershed Area: 171 WA/LA: 4.8 Hydro Type: DRAINAGE
Residence Time: 0.40 Secchi Depth: 2.4 Turbidity: 0.5 Color: 10
Closed pH: 6.33 Equil. pH: 6.64 ANC: 38.1 DOC: 3.72
Closed DIC: 0.55 Equil. DIC: 0.33 Meas. Cond: 22.5 Cal. Cond: 23.9
Ca: 50.5 Mg: 35.8 Na: 94.5 K: 7.2 NH4: 0.7
SO4: 71.4 HCO3: 31.3 Cl: 82.8 NO3: 0.1 F: 2.0
Sum Cations: 189.1 Sum Anions: 187.7 Cations/Anions: 1.01 Tot. P: 3.2
Tot. Al: 30.5 Ext. Al: 5.1 Fe: 29.0 Mn: 12.0 SiO2: 0.43

ID: 1E2-065 Name: TARKILL POND State: ME Date: 29OCT84
Sample Type: REGULAR Latitude: 43-50'36"N Longitude: 70-25'58"W
Elevation: 88 Surface Temp: 11.0 Stratified: MIXED Site Depth: 1.2
Lake Area: 11 Watershed Area: 80 WA/LA: 7.6 Hydro Type: DRAINAGE
Residence Time: 0.13 Secchi Depth: 1.2 Turbidity: 0.5 Color: 45
Closed pH: 6.81 Equil. pH: 7.67 ANC: 328.6 DOC: 6.88
Closed DIC: 4.69 Equil. DIC: 3.63 Meas. Cond: 118.0 Cal. Cond: 122.3
Ca: 223.8 Mg: 95.3 Na: 658.6 K: 37.3 NH4: 2.2
SO4: 119.7 HCO3: 272.5 Cl: 604.2 NO3: 0.6 F: 2.2
Sum Cations: 1017.3 Sum Anions: 999.4 Cations/Anions: 1.02 Tot. P: 8.0
Tot. Al: 44.3 Ext. Al: 7.9 Fe: 64.0 Mn: 12.0 SiO2: 8.24

ID: 1E2-067 Name: JOE POND State: ME Date: 24OCT84
Sample Type: REGULAR Latitude: 44-24'26"N Longitude: 69-49'25"W
Elevation: 83 Surface Temp: 12.0 Stratified: MIXED Site Depth: 4.8
Lake Area: 11 Watershed Area: 41 WA/LA: 3.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.9 Turbidity: 0.8 Color: 100
Closed pH: 4.32 Equil. pH: 4.34 ANC: -45.6 DOC: 10.80
Closed DIC: 0.53 Equil. DIC: 0.15 Meas. Cond: 30.9 Cal. Cond: 27.5
Ca: 19.3 Mg: 21.0 Na: 37.5 K: 2.7 NH4: 0.6
SO4: 60.2 HCO3: 0.5 Cl: 29.6 NO3: 0.1 F: 0.8
Sum Cations: 126.8 Sum Anions: 91.2 Cations/Anions: 1.39 Tot. P: 10.0
Tot. Al: 99.6 Ext. Al: 21.1 Fe: 219.0 Mn: 18.0 SiO2: 0.35

ID: 1E2-069 Name: (NO NAME) State: ME Date: 16OCT84
Sample Type: REGULAR Latitude: 46-07'27"N Longitude: 68-46'45"W
Elevation: 248 Surface Temp: 11.2 Stratified: MIXED Site Depth: 7.3
Lake Area: 6 Watershed Area: 104 WA/LA: 18.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.1 Turbidity: 1.0 Color: 55
Closed pH: 7.23 Equil. pH: 7.55 ANC: 247.7 DOC: 5.82
Closed DIC: 2.87 Equil. DIC: 2.62 Meas. Cond: 32.6 Cal. Cond: 32.4
Ca: 172.9 Mg: 109.3 Na: 41.6 K: 6.2 NH4: 1.1
SO4: 39.4 HCO3: 217.8 Cl: 9.5 NO3: 0.0 F: 1.1
Sum Cations: 331.2 Sum Anions: 268.2 Cations/Anions: 1.23 Tot. P: 5.9
Tot. Al: 45.0 Ext. Al: 14.5 Fe: 202.0 Mn: 17.0 SiO2: 2.63

ID: 1E2-070 Name: TARBOX POND State: ME Date: 16OCT84
Sample Type: REGULAR Latitude: 46-11'42"N Longitude: 69-31'50"W
Elevation: 302 Surface Temp: 12.2 Stratified: MIXED Site Depth: 1.0
Lake Area: 22 Watershed Area: 223 WA/LA: 10.1 Hydro Type: DRAINAGE
Residence Time: 0.08 Secchi Depth: 0.9 Turbidity: 0.6 Color: 125
Closed pH: 6.76 Equil. pH: 7.17 ANC: 138.4 DOC: 16.49
Closed DIC: 1.32 Equil. DIC: 0.98 Meas. Cond: 28.6 Cal. Cond: 27.1
Ca: 163.1 Mg: 97.0 Na: 43.1 K: 9.2 NH4: 1.4
SO4: 48.8 HCO3: 95.6 Cl: 13.2 NO3: 0.2 F: 1.4
Sum Cations: 313.9 Sum Anions: 159.3 Cations/Anions: 1.97 Tot. P: 5.1
Tot. Al: 160.4 Ext. Al: 19.9 Fe: 86.0 Mn: 0.0 SiO2: 0.99

(continued)

TABLE 3-1 (continued)

ID: 1E2-071 Name: ROSS POND State: ME Date: 23OCT84
Sample Type: REGULAR Latitude: 43-55'20"N Longitude: 69-29'40"W
Elevation: 37 Surface Temp: 13.3 Stratified: MIXED Site Depth: 6.4
Lake Area: 7 Watershed Area: 47 WA/LA: 7.1 Hydro Type: DRAINAGE
Residence Time: 0.74 Secchi Depth: 5.1 Turbidity: 0.4 Color: 10
Closed pH: 6.22 Equil. pH: 6.61 ANC: 40.1 DOC: 4.51
Closed DIC: 0.66 Equil. DIC: 0.31 Meas. Cond: 28.7 Cal. Cond: 30.8
Ca: 66.2 Mg: 42.7 Na: 124.4 K: 6.9 NH4: 0.6
SO4: 83.4 HCO3: 37.5 Cl: 121.8 NO3: 0.1 F: 1.4
Sum Cations: 241.2 Sum Anions: 244.2 Cations/Anions: 0.99 Tot. P: 4.8
Tot. Al: 37.7 Ext. Al: 8.5 Fe: 39.0 Mn: 3.0 SiO2: 0.06

ID: 1E2-073 Name: (NO NAME) State: ME Date: 17OCT84
Sample Type: REGULAR Latitude: 45-53'08"N Longitude: 69-26'58"W
Elevation: 357 Surface Temp: 10.6 Stratified: MIXED Site Depth: 1.1
Lake Area: 4 Watershed Area: 158 WA/LA: 42.7 Hydro Type: DRAINAGE
Residence Time: 0.02 Secchi Depth: 1.1 Turbidity: 0.6 Color: 80
Closed pH: 6.80 Equil. pH: 7.29 ANC: 171.9 DOC: 11.72
Closed DIC: 1.99 Equil. DIC: 1.53 Meas. Cond: 29.6 Cal. Cond: 29.2
Ca: 177.4 Mg: 87.7 Na: 38.2 K: 2.7 NH4: 1.4
SO4: 66.2 HCO3: 134.9 Cl: 4.2 NO3: 0.3 F: 1.5
Sum Cations: 307.6 Sum Anions: 207.2 Cations/Anions: 1.48 Tot. P: 5.2
Tot. Al: 83.6 Ext. Al: 12.8 Fe: 83.0 Mn: 9.5 SiO2: 0.84

ID: 1E3-002 Name: OTTER POND State: ME Date: 15OCT84
Sample Type: REGULAR Latitude: 46-22'28"N Longitude: 68-21'30"W
Elevation: 246 Surface Temp: 11.4 Stratified: MIXED Site Depth: 1.9
Lake Area: 22 Watershed Area: 98 WA/LA: 4.4 Hydro Type: DRAINAGE
Residence Time: 0.32 Secchi Depth: 1.9 Turbidity: 0.6 Color: 20
Closed pH: 7.55 Equil. pH: 7.93 ANC: 500.7 DOC: 7.84
Closed DIC: 5.56 Equil. DIC: 5.54 Meas. Cond: 61.0 Cal. Cond: 60.6
Ca: 458.1 Mg: 98.6 Na: 30.5 K: 3.8 NH4: 7.2
SO4: 59.8 HCO3: 444.6 Cl: 13.8 NO3: 0.5 F: 0.9
Sum Cations: 598.2 Sum Anions: 521.3 Cations/Anions: 1.15 Tot. P: 1.3
Tot. Al: 15.1 Ext. Al: 11.0 Fe: 11.5 Mn: 4.0 SiO2: 0.50

ID: 1E3-006 Name: GLAZIER LAKE State: ME Date: 15OCT84
Sample Type: REGULAR Latitude: 47-13'40"N Longitude: 69-00'00"W
Elevation: 170 Surface Temp: 11.7 Stratified: STRONG Site Depth: 36.9
Lake Area: 282 Watershed Area: 133706 WA/LA: 474.8 Hydro Type: DRAINAGE
Residence Time: 0.09 Secchi Depth: 4.0 Turbidity: 0.4 Color: 50
Closed pH: 7.54 Equil. pH: 8.05 ANC: 632.1 DOC: 6.12
Closed DIC: 7.02 Equil. DIC: 6.98 Meas. Cond: 76.9 Cal. Cond: 83.5
Ca: 657.2 Mg: 86.7 Na: 62.7 K: 8.5 NH4: 1.9
SO4: 93.6 HCO3: 560.9 Cl: 36.2 NO3: 6.5 F: 1.4
Sum Cations: 817.0 Sum Anions: 701.4 Cations/Anions: 1.16 Tot. P: 0.0
Tot. Al: 41.3 Ext. Al: 16.2 Fe: 93.0 Mn: 2.5 SiO2: 3.36

ID: 1E3-007 Name: WHEELOCK LAKE State: ME Date: 15OCT84
Sample Type: REGULAR Latitude: 47-12'00"N Longitude: 68-43'00"W
Elevation: 244 Surface Temp: 9.6 Stratified: MIXED Site Depth: 5.2
Lake Area: 52 Watershed Area: 629 WA/LA: 12.1 Hydro Type: DRAINAGE
Residence Time: 0.45 Secchi Depth: 5.1 Turbidity: 0.5 Color: 20
Closed pH: 7.58 Equil. pH: 7.74 ANC: 398.6 DOC: 3.23
Closed DIC: 4.09 Equil. DIC: 4.56 Meas. Cond: 48.5 Cal. Cond: 50.2
Ca: 356.8 Mg: 67.8 Na: 50.7 K: 4.7 NH4: 2.0
SO4: 65.3 HCO3: 365.3 Cl: 9.2 NO3: 0.2 F: 1.4
Sum Cations: 482.0 Sum Anions: 442.4 Cations/Anions: 1.09 Tot. P: 2.7
Tot. Al: 45.2 Ext. Al: 9.3 Fe: 36.0 Mn: 0.0 SiO2: 2.88

(continued)

TABLE 3-1 (continued)

ID: 1E3-011 Name: ST. FROID LAKE State: ME Date: 16OCT84
Sample Type: REGULAR Latitude: 46-57'00"N Longitude: 68-37'00"W
Elevation: 177 Surface Temp: 10.9 Stratified: MIXED Site Depth: 35.0
Lake Area: 934 Watershed Area: 104635 WA/LA: 112.0 Hydro Type: DRAINAGE
Residence Time: 0.28 Secchi Depth: 2.9 Turbidity: 0.4 Color: 45
Closed pH: 7.38 Equil. pH: 7.80 ANC: 441.4 DOC: 6.64
Closed DIC: 3.51 Equil. DIC: 4.74 Meas. Cond: 55.6 Cal. Cond: 58.8
Ca: 426.4 Mg: 98.5 Na: 48.4 K: 6.9 NH4: 1.4
SO4: 82.0 HCO3: 387.6 Cl: 13.6 NO3: 3.0 F: 1.3
Sum Cations: 581.7 Sum Anions: 488.8 Cations/Anions: 1.19 Tot. P: 1.4
Tot. Al: 57.3 Ext. Al: 16.9 Fe: 40.0 Mn: 5.0 SiO2: 4.08

ID: 1E3-012 Name: DENNY POND State: ME Date: 16OCT84
Sample Type: REGULAR Latitude: 46-56'45"N Longitude: 68-52'15"W
Elevation: 377 Surface Temp: 9.8 Stratified: MIXED Site Depth: 9.1
Lake Area: 12 Watershed Area: 85 WA/LA: 7.1 Hydro Type: DRAINAGE
Residence Time: 1.01 Secchi Depth: 5.3 Turbidity: 0.4 Color: 10
Closed pH: 7.56 Equil. pH: 7.82 ANC: 410.8 DOC: 2.55
Closed DIC: 4.78 Equil. DIC: 4.58 Meas. Cond: 55.5 Cal. Cond: 57.7
Ca: 406.2 Mg: 57.0 Na: 51.2 K: 15.0 NH4: 0.8
SO4: 112.0 HCO3: 374.3 Cl: 10.5 NO3: 0.0 F: 5.2
Sum Cations: 530.2 Sum Anions: 503.4 Cations/Anions: 1.05 Tot. P: 2.4
Tot. Al: 102.1 Ext. Al: 14.5 Fe: 12.0 Mn: 0.0 SiO2: 1.37

ID: 1E3-013 Name: FISH RIVER LAKE State: ME Date: 16OCT84
Sample Type: REGULAR Latitude: 46-50'00"N Longitude: 68-46'45"W
Elevation: 218 Surface Temp: 10.2 Stratified: MIXED Site Depth: 13.4
Lake Area: 1026 Watershed Area: 32771 WA/LA: 31.9 Hydro Type: DRAINAGE
Residence Time: 0.37 Secchi Depth: 3.0 Turbidity: 0.8 Color: 40
Closed pH: 7.52 Equil. pH: 7.71 ANC: 353.7 DOC: 6.52
Closed DIC: 3.83 Equil. DIC: 3.74 Meas. Cond: 47.0 Cal. Cond: 48.7
Ca: 319.2 Mg: 104.3 Na: 45.1 K: 7.8 NH4: 0.6
SO4: 81.3 HCO3: 309.9 Cl: 10.7 NO3: 0.0 F: 1.4
Sum Cations: 477.1 Sum Anions: 404.4 Cations/Anions: 1.18 Tot. P: 3.1
Tot. Al: 31.5 Ext. Al: 12.2 Fe: 44.0 Mn: 3.0 SiO2: 3.60

ID: 1E3-014 Name: DEPOT LAKE State: ME Date: 16OCT84
Sample Type: REGULAR Latitude: 46-46'30"N Longitude: 69-49'45"W
Elevation: 328 Surface Temp: 10.7 Stratified: MIXED Site Depth: 1.0
Lake Area: 332 Watershed Area: 6470 WA/LA: 19.5 Hydro Type: DRAINAGE
Residence Time: 0.04 Secchi Depth: 1.0 Turbidity: 1.0 Color: 45
Closed pH: 7.38 Equil. pH: 7.82 ANC: 443.7 DOC: 10.37
Closed DIC: 4.73 Equil. DIC: 4.46 Meas. Cond: 56.2 Cal. Cond: 58.3
Ca: 445.6 Mg: 99.8 Na: 41.2 K: 7.4 NH4: 2.4
SO4: 71.7 HCO3: 381.0 Cl: 10.7 NO3: 0.4 F: 1.5
Sum Cations: 596.5 Sum Anions: 466.9 Cations/Anions: 1.28 Tot. P: 52.5
Tot. Al: 98.6 Ext. Al: 19.4 Fe: 55.0 Mn: 26.0 SiO2: 2.07

ID: 1E3-015 Name: ROUND POND State: ME Date: 16OCT84
Sample Type: REGULAR Latitude: 46-46'00"N Longitude: 69-16'00"W
Elevation: 238 Surface Temp: 9.8 Stratified: MIXED Site Depth: 4.0
Lake Area: 290 Watershed Area: 188622 WA/LA: 651.1 Hydro Type: DRAINAGE
Residence Time: 0.01 Secchi Depth: 2.9 Turbidity: 0.7 Color: 45
Closed pH: 7.29 Equil. pH: 7.68 ANC: 323.2 DOC: 7.17
Closed DIC: 3.51 Equil. DIC: 3.30 Meas. Cond: 46.5 Cal. Cond: 47.9
Ca: 313.4 Mg: 102.2 Na: 44.3 K: 10.5 NH4: 1.5
SO4: 92.0 HCO3: 267.4 Cl: 14.8 NO3: 3.3 F: 1.2
Sum Cations: 471.9 Sum Anions: 379.3 Cations/Anions: 1.24 Tot. P: 4.4
Tot. Al: 65.4 Ext. Al: 9.2 Fe: 105.0 Mn: 25.0 SiO2: 2.59

(continued)

TABLE 3-1 (continued)

ID: 1E3-018 Name: MOUNTAIN POND State: ME Date: 15OCT84
Sample Type: REGULAR Latitude: 46-33'30"N Longitude: 69-00'40"W
Elevation: 369 Surface Temp: 10.4 Stratified: MIXED Site Depth: 1.8
Lake Area: 29 Watershed Area: 442 WA/LA: 15.1 Hydro Type: DRAINAGE
Residence Time: 0.10 Secchi Depth: 1.1 Turbidity: 1.2 Color: 40
Closed pH: 7.42 Equil. pH: 7.64 ANC: 278.7 DOC: 7.08
Closed DIC: 2.90 Equil. DIC: 3.06 Meas. Cond: 39.7 Cal. Cond: 40.6
Ca: 279.2 Mg: 72.9 Na: 36.7 K: 5.2 NH4: 3.2
SO4: 74.5 HCO3: 244.1 Cl: 9.3 NO3: 0.9 F: 1.0
Sum Cations: 397.2 Sum Anions: 330.3 Cations/Anions: 1.20 Tot. P: 3.8
Tot. Al: 69.2 Ext. Al: 19.9 Fe: 68.0 Mn: 0.0 SiO2: 2.85

ID: 1E3-022 Name: NUMBER NINE LAKE State: ME Date: 15OCT84
Sample Type: REGULAR Latitude: 46-25'00"N Longitude: 68-03'00"W
Elevation: 330 Surface Temp: 9.9 Stratified: MIXED Site Depth: 2.1
Lake Area: 40 Watershed Area: 438 WA/LA: 10.9 Hydro Type: DRAINAGE
Residence Time: 0.16 Secchi Depth: 2.1 Turbidity: 0.5 Color: 30
Closed pH: 7.47 Equil. pH: 7.61 ANC: 228.1 DOC: 4.01
Closed DIC: 2.43 Equil. DIC: 2.52 Meas. Cond: 34.1 Cal. Cond: 35.2
Ca: 235.4 Mg: 57.2 Na: 36.7 K: 4.0 NH4: 2.3
SO4: 68.7 HCO3: 213.1 Cl: 9.4 NO3: 0.2 F: 1.2
Sum Cations: 335.6 Sum Anions: 293.1 Cations/Anions: 1.15 Tot. P: 0.5
Tot. Al: 51.7 Ext. Al: 22.6 Fe: 65.0 Mn: 1.0 SiO2: 2.57

ID: 1E3-024 Name: LITTLE INDIAN POND State: ME Date: 16OCT84
Sample Type: REGULAR Latitude: 46-15'41"N Longitude: 69-14'21"W
Elevation: 297 Surface Temp: 11.0 Stratified: MIXED Site Depth: 1.5
Lake Area: 49 Watershed Area: 477 WA/LA: 9.8 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 1.4 Turbidity: 1.7 Color: 50
Closed pH: 6.98 Equil. pH: 7.27 ANC: 128.3 DOC: 8.71
Closed DIC: 1.32 Equil. DIC: 1.13 Meas. Cond: 27.6 Cal. Cond: 27.6
Ca: 146.1 Mg: 88.6 Na: 33.8 K: 8.8 NH4: 1.6
SO4: 86.5 HCO3: 96.3 Cl: 6.3 NO3: 0.2 F: 1.2
Sum Cations: 278.9 Sum Anions: 190.7 Cations/Anions: 1.46 Tot. P: 16.3
Tot. Al: 80.3 Ext. Al: 14.8 Fe: 6.0 Mn: 23.0 SiO2: 1.18

ID: 1E3-025 Name: SPRING POND State: ME Date: 16OCT84
Sample Type: REGULAR Latitude: 46-18'15"N Longitude: 69-02'45"W
Elevation: 304 Surface Temp: 9.8 Stratified: MIXED Site Depth: 7.3
Lake Area: 6 Watershed Area: 65 WA/LA: 11.4 Hydro Type: DRAINAGE
Residence Time: 0.54 Secchi Depth: 2.7 Turbidity: 0.6 Color: 20
Closed pH: 7.43 Equil. pH: 7.59 ANC: 241.3 DOC: 5.48
Closed DIC: 2.61 Equil. DIC: 2.56 Meas. Cond: 37.2 Cal. Cond: 38.6
Ca: 263.4 Mg: 68.0 Na: 31.5 K: 6.5 NH4: 1.6
SO4: 86.3 HCO3: 214.1 Cl: 8.3 NO3: 0.2 F: 0.9
Sum Cations: 371.1 Sum Anions: 310.4 Cations/Anions: 1.20 Tot. P: 18.9
Tot. Al: 32.1 Ext. Al: 6.3 Fe: 20.0 Mn: 23.0 SiO2: 0.58

ID: 1E3-027 Name: LITTLE LEADBETTER POND State: ME Date: 16OCT84
Sample Type: REGULAR Latitude: 46-14'45"N Longitude: 69-11'45"W
Elevation: 306 Surface Temp: 11.6 Stratified: MIXED Site Depth: 1.6
Lake Area: 57 Watershed Area: 269 WA/LA: 4.7 Hydro Type: DRAINAGE
Residence Time: 0.26 Secchi Depth: 1.6 Turbidity: 1.2 Color: 15
Closed pH: 7.56 Equil. pH: 7.61 ANC: 249.4 DOC: 8.09
Closed DIC: 2.45 Equil. DIC: 2.56 Meas. Cond: 39.1 Cal. Cond: 39.4
Ca: 249.0 Mg: 93.6 Na: 36.4 K: 8.8 NH4: 1.3
SO4: 97.6 HCO3: 190.5 Cl: 8.1 NO3: 0.3 F: 1.2
Sum Cations: 389.1 Sum Anions: 298.1 Cations/Anions: 1.31 Tot. P: 14.6
Tot. Al: 83.9 Ext. Al: 17.8 Fe: 8.0 Mn: 0.0 SiO2: 0.22

(continued)

TABLE 3-1 (continued)

ID: 1E3-030 Name: LONG LAKE State: ME Date: 15OCT84
Sample Type: REGULAR Latitude: 46-06'40"N Longitude: 68-07'30"W
Elevation: 169 Surface Temp: 14.0 Stratified: MIXED Site Depth: 1.2
Lake Area: 25 Watershed Area: 1880 WA/LA: 75.2 Hydro Type: DRAINAGE
Residence Time: 0.01 Secchi Depth: * Turbidity: 0.5 Color: 25
Closed pH: 8.36 Equil. pH: 8.46 ANC: 1540.9 DOC: 5.19
Closed DIC: 17.51 Equil. DIC: 17.52 Meas. Cond: 179.7 Cal. Cond: 188.7
Ca: 1501.0 Mg: 176.9 Na: 112.0 K: 28.6 NH4: 1.8
SO4: 122.1 HCO3: 1411.3 Cl: 94.7 NO3: 0.4 F: 1.6
Sum Cations: 1820.3 Sum Anions: 1663.2 Cations/Anions: 1.09 Tot. P: 0.2
Tot. Al: 14.2 Ext. Al: 9.3 Fe: 65.0 Mn: 6.0 SiO2: 2.15

ID: 1E3-031 Name: PLEASANT LAKE State: ME Date: 15OCT84
Sample Type: REGULAR Latitude: 46-01'30"N Longitude: 68-10'00"W
Elevation: 163 Surface Temp: 12.8 Stratified: MIXED Site Depth: 15.8
Lake Area: 726 Watershed Area: 1865 WA/LA: 2.6 Hydro Type: DRAINAGE
Residence Time: 3.86 Secchi Depth: 6.8 Turbidity: 0.2 Color: 15
Closed pH: 7.15 Equil. pH: 7.35 ANC: 121.9 DOC: 1.53
Closed DIC: 1.27 Equil. DIC: 1.47 Meas. Cond: 28.0 Cal. Cond: 28.0
Ca: 144.9 Mg: 39.1 Na: 39.9 K: 13.8 NH4: 1.6
SO4: 88.1 HCO3: 120.9 Cl: 20.9 NO3: 0.0 F: 1.7
Sum Cations: 239.3 Sum Anions: 231.9 Cations/Anions: 1.03 Tot. P: 0.0
Tot. Al: 8.3 Ext. Al: 4.5 Fe: 23.0 Mn: 10.0 SiO2: 0.26

ID: 1E3-033 Name: ROBERTS POND State: ME Date: 17OCT84
Sample Type: REGULAR Latitude: 46-03'30"N Longitude: 70-16'05"W
Elevation: 600 Surface Temp: 9.5 Stratified: MIXED Site Depth: 1.8
Lake Area: 8 Watershed Area: 132 WA/LA: 15.9 Hydro Type: DRAINAGE
Residence Time: 0.10 Secchi Depth: 1.8 Turbidity: 0.5 Color: 50
Closed pH: 7.18 Equil. pH: 7.68 ANC: 319.8 DOC: 8.19
Closed DIC: 3.55 Equil. DIC: 3.38 Meas. Cond: 47.0 Cal. Cond: 46.3
Ca: 316.8 Mg: 100.2 Na: 25.2 K: 9.1 NH4: 2.4
SO4: 77.3 HCO3: 281.7 Cl: 12.1 NO3: 4.2 F: 1.0
Sum Cations: 453.8 Sum Anions: 376.8 Cations/Anions: 1.20 Tot. P: 5.5
Tot. Al: 139.5 Ext. Al: 24.5 Fe: 66.5 Mn: 11.5 SiO2: 3.05

ID: 1E3-035 Name: BURNHAM POND State: ME Date: 17OCT84
Sample Type: REGULAR Latitude: 45-32'30"N Longitude: 69-43'00"W
Elevation: 316 Surface Temp: 10.5 Stratified: MIXED Site Depth: 1.5
Lake Area: 166 Watershed Area: 1088 WA/LA: 6.6 Hydro Type: DRAINAGE
Residence Time: 0.15 Secchi Depth: 1.1 Turbidity: 2.5 Color: 35
Closed pH: 7.04 Equil. pH: 7.98 ANC: 595.6 DOC: 11.94
Closed DIC: 6.29 Equil. DIC: 6.26 Meas. Cond: 75.6 Cal. Cond: 77.7
Ca: 496.3 Mg: 188.0 Na: 75.1 K: 8.1 NH4: 1.4
SO4: 80.3 HCO3: 520.6 Cl: 51.6 NO3: 0.1 F: 1.6
Sum Cations: 768.9 Sum Anions: 655.9 Cations/Anions: 1.17 Tot. P: 5.4
Tot. Al: 95.9 Ext. Al: 21.9 Fe: 6.0 Mn: 15.0 SiO2: 0.57

ID: 1E3-036 Name: BALD MOUNTAIN POND State: ME Date: 19OCT84
Sample Type: REGULAR Latitude: 45-15'00"N Longitude: 69-44'00"W
Elevation: 370 Surface Temp: 11.2 Stratified: MIXED Site Depth: 16.8
Lake Area: 469 Watershed Area: 3515 WA/LA: 7.5 Hydro Type: DRAINAGE
Residence Time: 1.52 Secchi Depth: 3.7 Turbidity: 0.5 Color: 20
Closed pH: 6.52 Equil. pH: 6.63 ANC: 39.6 DOC: 4.53
Closed DIC: 0.49 Equil. DIC: 0.47 Meas. Cond: 16.7 Cal. Cond: 16.8
Ca: 88.5 Mg: 23.6 Na: 29.5 K: 6.3 NH4: 1.1
SO4: 75.1 HCO3: 22.9 Cl: 12.2 NO3: 0.1 F: 2.2
Sum Cations: 149.4 Sum Anions: 112.5 Cations/Anions: 1.33 Tot. P: 2.7
Tot. Al: 100.2 Ext. Al: 6.5 Fe: 10.0 Mn: 9.0 SiO2: 1.31

(continued)

TABLE 3-1 (continued)

ID: 1E3-038 Name: BRANNS MILL POND State: ME Date: 19OCT84
Sample Type: REGULAR Latitude: 45-06'30"N Longitude: 69-10'00"W
Elevation: 134 Surface Temp: 10.1 Stratified: MIXED Site Depth: 3.0
Lake Area: 108 Watershed Area: 3732 WA/LA: 34.4 Hydro Type: RESERVOIR
Residence Time: 0.08 Secchi Depth: 2.2 Turbidity: 1.9 Color: 45
Closed pH: 7.11 Equil. pH: 7.69 ANC: 337.2 DOC: 7.75
Closed DIC: 3.93 Equil. DIC: 3.51 Meas. Cond: 51.8 Cal. Cond: 49.7
Ca: 294.2 Mg: 101.6 Na: 87.7 K: 5.4 NH4: 1.4
SO4: 55.0 HCO3: 288.6 Cl: 59.3 NO3: 0.0 F: 1.2
Sum Cations: 490.2 Sum Anions: 404.8 Cations/Anions: 1.21 Tot. P: 16.1
Tot. Al: 106.0 Ext. Al: 0.0 Fe: 100.0 Mn: 1.0 SiO2: 1.73

ID: 1E3-039 Name: WEYMOUTH POND State: ME Date: 19OCT84
Sample Type: REGULAR Latitude: 44-58'15"N Longitude: 69-19'30"W
Elevation: 91 Surface Temp: 11.7 Stratified: MIXED Site Depth: 2.4
Lake Area: 43 Watershed Area: 243 WA/LA: 5.6 Hydro Type: DRAINAGE
Residence Time: 0.35 Secchi Depth: 2.4 Turbidity: 0.5 Color: 15
Closed pH: 7.90 Equil. pH: 8.19 ANC: 994.2 DOC: 4.47
Closed DIC: 11.47 Equil. DIC: 10.84 Meas. Cond: 116.0 Cal. Cond: 121.9
Ca: 907.7 Mg: 162.9 Na: 70.3 K: 22.3 NH4: 1.7
SO4: 76.7 HCO3: 911.6 Cl: 86.4 NO3: 2.7 F: 0.4
Sum Cations: 1164.8 Sum Anions: 1085.2 Cations/Anions: 1.07 Tot. P: 7.0
Tot. Al: 31.6 Ext. Al: 1.3 Fe: 12.0 Mn: 7.0 SiO2: 0.63

ID: 1E3-040 Name: NOKOMIS POND State: ME Date: 19OCT84
Sample Type: REGULAR Latitude: 44-52'15"N Longitude: 69-18'00"W
Elevation: 95 Surface Temp: 11.6 Stratified: MIXED Site Depth: 6.7
Lake Area: 74 Watershed Area: 219 WA/LA: 2.9 Hydro Type: DRAINAGE
Residence Time: 1.97 Secchi Depth: 2.5 Turbidity: 0.6 Color: 20
Closed pH: 7.23 Equil. pH: 7.54 ANC: 236.8 DOC: 4.38
Closed DIC: 2.64 Equil. DIC: 2.53 Meas. Cond: 45.8 Cal. Cond: 45.9
Ca: 216.6 Mg: 123.4 Na: 65.0 K: 10.6 NH4: 1.2
SO4: 123.0 HCO3: 206.2 Cl: 42.3 NO3: 0.0 F: 1.6
Sum Cations: 416.8 Sum Anions: 373.5 Cations/Anions: 1.12 Tot. P: 12.1
Tot. Al: 37.5 Ext. Al: 0.0 Fe: 12.0 Mn: 0.0 SiO2: 0.98

ID: 1E3-041 Name: ROUND POND State: ME Date: 24OCT84
Sample Type: REGULAR Latitude: 44-44'20"N Longitude: 69-13'30"W
Elevation: 82 Surface Temp: 12.0 Stratified: MIXED Site Depth: 8.5
Lake Area: 51 Watershed Area: 1031 WA/LA: 20.4 Hydro Type: DRAINAGE
Residence Time: 0.37 Secchi Depth: 3.0 Turbidity: 0.7 Color: 15
Closed pH: 7.40 Equil. pH: 7.73 ANC: 355.7 DOC: 4.49
Closed DIC: 3.80 Equil. DIC: 3.74 Meas. Cond: 49.8 Cal. Cond: 51.8
Ca: 288.3 Mg: 120.9 Na: 69.7 K: 10.5 NH4: 0.7
SO4: 83.7 HCO3: 308.3 Cl: 44.3 NO3: 0.2 F: 1.3
Sum Cations: 490.3 Sum Anions: 438.7 Cations/Anions: 1.12 Tot. P: 5.1
Tot. Al: 26.6 Ext. Al: 2.8 Fe: 36.0 Mn: 1.0 SiO2: 1.27

ID: 1E3-042 Name: SAND POND State: ME Date: 24OCT84
Sample Type: REGULAR Latitude: 44-34'10"N Longitude: 70-07'10"W
Elevation: 111 Surface Temp: 12.3 Stratified: MIXED Site Depth: 5.2
Lake Area: 32 Watershed Area: 129 WA/LA: 4.0 Hydro Type: DRAINAGE
Residence Time: 0.96 Secchi Depth: 2.6 Turbidity: 0.8 Color: 5
Closed pH: 7.16 Equil. pH: 7.44 ANC: 169.9 DOC: 2.71
Closed DIC: 1.94 Equil. DIC: 1.92 Meas. Cond: 34.0 Cal. Cond: 34.4
Ca: 161.3 Mg: 44.3 Na: 75.7 K: 17.7 NH4: 0.6
SO4: 76.6 HCO3: 152.5 Cl: 56.4 NO3: 0.2 F: 1.6
Sum Cations: 299.7 Sum Anions: 287.5 Cations/Anions: 1.04 Tot. P: 12.8
Tot. Al: 17.4 Ext. Al: 1.8 Fe: 0.0 Mn: 3.0 SiO2: 1.13

(continued)

TABLE 3-1 (continued)

ID: 1E3-044 Name: MOSHER POND State: ME Date: 24OCT84
Sample Type: REGULAR Latitude: 44-28'30"N Longitude: 70-06'30"W
Elevation: 111 Surface Temp: 11.3 Stratified: MIXED Site Depth: 7.6
Lake Area: 28 Watershed Area: 688 WA/LA: 24.5 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 2.0 Turbidity: 1.1 Color: 43
Closed pH: 7.04 Equil. pH: 7.61 ANC: 280.7 DOC: 5.43
Closed DIC: 3.20 Equil. DIC: 2.87 Meas. Cond: 45.6 Cal. Cond: 48.6
Ca: 262.7 Mg: 61.8 Na: 95.5 K: 19.0 NH4: 0.7
SO4: 85.1 HCO3: 257.1 Cl: 65.4 NO3: 0.3 F: 1.9
Sum Cations: 439.7 Sum Anions: 410.5 Cations/Anions: 1.07 Tot. P: 10.6
Tot. Al: 40.3 Ext. Al: 5.3 Fe: 198.5 Mn: 21.0 SiO2: 6.01

ID: 1E3-045 Name: MCCLURE POND State: ME Date: 23OCT84
Sample Type: REGULAR Latitude: 44-29'00"N Longitude: 68-57'50"W
Elevation: 69 Surface Temp: 11.8 Stratified: MIXED Site Depth: 1.8
Lake Area: 18 Watershed Area: 438 WA/LA: 23.9 Hydro Type: DRAINAGE
Residence Time: 0.07 Secchi Depth: 1.1 Turbidity: 0.8 Color: 90
Closed pH: 6.33 Equil. pH: 7.28 ANC: 154.5 DOC: 11.73
Closed DIC: 2.85 Equil. DIC: 1.30 Meas. Cond: 33.2 Cal. Cond: 35.3
Ca: 141.4 Mg: 67.9 Na: 114.0 K: 11.9 NH4: 2.7
SO4: 45.6 HCO3: 151.0 Cl: 78.9 NO3: 0.4 F: 1.5
Sum Cations: 338.0 Sum Anions: 277.6 Cations/Anions: 1.22 Tot. P: 13.2
Tot. Al: 96.3 Ext. Al: 22.6 Fe: 211.0 Mn: 13.0 SiO2: 1.49

ID: 1E3-046 Name: LITTLE POND State: ME Date: 23OCT84
Sample Type: REGULAR Latitude: 44-23'15"N Longitude: 69-11'50"W
Elevation: 62 Surface Temp: 12.6 Stratified: MIXED Site Depth: 2.7
Lake Area: 17 Watershed Area: 88 WA/LA: 5.2 Hydro Type: DRAINAGE
Residence Time: 0.43 Secchi Depth: 0.9 Turbidity: 0.7 Color: 90
Closed pH: 6.27 Equil. pH: 6.97 ANC: 65.9 DOC: 9.13
Closed DIC: 1.03 Equil. DIC: 0.42 Meas. Cond: 21.1 Cal. Cond: 21.3
Ca: 70.8 Mg: 39.7 Na: 73.6 K: 18.9 NH4: 1.3
SO4: 48.1 HCO3: 46.7 Cl: 47.7 NO3: 0.3 F: 1.6
Sum Cations: 204.8 Sum Anions: 144.4 Cations/Anions: 1.42 Tot. P: 17.2
Tot. Al: 98.3 Ext. Al: 2.8 Fe: 140.0 Mn: 10.0 SiO2: 3.11

ID: 1E3-048 Name: MOODY POND State: ME Date: 23OCT84
Sample Type: REGULAR Latitude: 44-17'35"N Longitude: 69-08'45"W
Elevation: 106 Surface Temp: 12.9 Stratified: MIXED Site Depth: 7.3
Lake Area: 25 Watershed Area: 205 WA/LA: 8.3 Hydro Type: DRAINAGE
Residence Time: 0.75 Secchi Depth: 4.6 Turbidity: 0.5 Color: 10
Closed pH: 6.96 Equil. pH: 7.20 ANC: 118.5 DOC: 2.87
Closed DIC: 1.44 Equil. DIC: 1.25 Meas. Cond: 28.4 Cal. Cond: 31.2
Ca: 108.9 Mg: 44.0 Na: 95.0 K: 10.2 NH4: 0.8
SO4: 75.5 HCO3: 126.7 Cl: 65.9 NO3: 0.1 F: 1.2
Sum Cations: 258.9 Sum Anions: 269.6 Cations/Anions: 0.96 Tot. P: 5.4
Tot. Al: 22.6 Ext. Al: 17.9 Fe: 90.0 Mn: 23.0 SiO2: 1.57

ID: 1E3-050 Name: ALEWIFE POND State: ME Date: 30OCT84
Sample Type: REGULAR Latitude: 43-26'15"N Longitude: 70-36'15"W
Elevation: 37 Surface Temp: 11.5 Stratified: MIXED Site Depth: 3.6
Lake Area: 17 Watershed Area: 363 WA/LA: 21.9 Hydro Type: DRAINAGE
Residence Time: 0.19 Secchi Depth: 1.7 Turbidity: 2.0 Color: 75
Closed pH: 6.53 Equil. pH: 7.39 ANC: 178.8 DOC: 8.44
Closed DIC: 3.17 Equil. DIC: 1.91 Meas. Cond: 48.7 Cal. Cond: 50.7
Ca: 124.6 Mg: 76.3 Na: 238.9 K: 17.2 NH4: 2.3
SO4: 70.3 HCO3: 137.8 Cl: 178.3 NO3: 0.9 F: 5.2
Sum Cations: 459.6 Sum Anions: 392.5 Cations/Anions: 1.17 Tot. P: 11.3
Tot. Al: 216.2 Ext. Al: 17.0 Fe: 382.0 Mn: 11.0 SiO2: 2.06

(continued)

TABLE 3-1 (continued)

ID: 1E3-052 Name: THREE MILE POND State: ME Date: 23OCT84
Sample Type: REGULAR Latitude: 44-22'02"N Longitude: 69-36'16"W
Elevation: 55 Surface Temp: 13.3 Stratified: MIXED Site Depth: 11.3
Lake Area: 463 Watershed Area: 4652 WA/LA: 10.0 Hydro Type: DRAINAGE
Residence Time: 1.23 Secchi Depth: 2.9 Turbidity: 1.0 Color: 25
Closed pH: 7.25 Equil. pH: 7.52 ANC: 217.2 DOC: 3.93
Closed DIC: 2.33 Equil. DIC: 2.33 Meas. Cond: 46.5 Cal. Cond: 48.8
Ca: 208.9 Mg: 63.2 Na: 126.5 K: 20.4 NH4: 2.2
SO4: 90.3 HCO3: 210.6 Cl: 108.6 NO3: 0.0 F: 2.2
Sum Cations: 421.2 Sum Anions: 411.9 Cations/Anions: 1.02 Tot. P: 8.0
Tot. Al: 49.2 Ext. Al: 3.5 Fe: 67.0 Mn: 8.0 SiO2: 2.31

ID: 1E3-055 Name: TOGUE POND State: ME Date: 16OCT84
Sample Type: REGULAR Latitude: 46-56'02"N Longitude: 68-53'31"W
Elevation: 362 Surface Temp: 9.7 Stratified: MIXED Site Depth: 22.9
Lake Area: 129 Watershed Area: 922 WA/LA: 7.1 Hydro Type: DRAINAGE
Residence Time: 2.54 Secchi Depth: 5.4 Turbidity: 0.2 Color: 15
Closed pH: 7.41 Equil. pH: 7.69 ANC: 300.5 DOC: 2.92
Closed DIC: 3.33 Equil. DIC: 3.39 Meas. Cond: 41.5 Cal. Cond: 44.2
Ca: 308.1 Mg: 54.7 Na: 36.4 K: 8.7 NH4: 1.2
SO4: 90.3 HCO3: 277.2 Cl: 9.2 NO3: 0.0 F: 1.6
Sum Cations: 409.1 Sum Anions: 379.2 Cations/Anions: 1.08 Tot. P: 0.1
Tot. Al: 28.3 Ext. Al: 15.9 Fe: 17.0 Mn: 0.0 SiO2: 2.65

ID: 1E3-056 Name: SOPER POND State: ME Date: 16OCT84
Sample Type: REGULAR Latitude: 46-22'28"N Longitude: 69-13'47"W
Elevation: 307 Surface Temp: 11.9 Stratified: MIXED Site Depth: 0.9
Lake Area: 81 Watershed Area: 3631 WA/LA: 44.7 Hydro Type: DRAINAGE
Residence Time: 0.02 Secchi Depth: 1.0 Turbidity: 0.4 Color: 33
Closed pH: 7.89 Equil. pH: 8.15 ANC: 846.1 DOC: 9.43
Closed DIC: 9.14 Equil. DIC: 8.78 Meas. Cond: 94.7 Cal. Cond: 97.0
Ca: 768.0 Mg: 150.9 Na: 52.1 K: 7.7 NH4: 1.7
SO4: 86.0 HCO3: 710.4 Cl: 13.6 NO3: 0.6 F: 1.3
Sum Cations: 980.4 Sum Anions: 817.3 Cations/Anions: 1.20 Tot. P: 2.9
Tot. Al: 91.8 Ext. Al: 29.9 Fe: 29.5 Mn: 6.0 SiO2: 2.36

ID: 1E3-057 Name: SECOND CURRIER POND State: ME Date: 16OCT84
Sample Type: REGULAR Latitude: 46-24'55"N Longitude: 69-06'31"W
Elevation: 386 Surface Temp: 10.7 Stratified: MIXED Site Depth: 2.7
Lake Area: 12 Watershed Area: 88 WA/LA: 7.4 Hydro Type: DRAINAGE
Residence Time: 0.29 Secchi Depth: 1.4 Turbidity: 1.2 Color: 45
Closed pH: 7.19 Equil. pH: 7.64 ANC: 291.2 DOC: 8.17
Closed DIC: 3.18 Equil. DIC: 2.88 Meas. Cond: 39.6 Cal. Cond: 41.6
Ca: 323.6 Mg: 59.6 Na: 28.5 K: 7.3 NH4: 1.7
SO4: 69.5 HCO3: 241.6 Cl: 8.2 NO3: 0.4 F: 1.1
Sum Cations: 420.9 Sum Anions: 321.3 Cations/Anions: 1.31 Tot. P: 2.9
Tot. Al: 62.0 Ext. Al: 8.6 Fe: 31.0 Mn: 16.0 SiO2: 5.63

ID: 1E3-060 Name: MILLINOCKET LAKE State: ME Date: 15OCT84
Sample Type: REGULAR Latitude: 46-18'10"N Longitude: 68-52'30"W
Elevation: 230 Surface Temp: 11.3 Stratified: MIXED Site Depth: 10.7
Lake Area: 874 Watershed Area: 17521 WA/LA: 20.0 Hydro Type: DRAINAGE
Residence Time: 0.46 Secchi Depth: 2.1 Turbidity: 0.5 Color: 45
Closed pH: 7.42 Equil. pH: 7.64 ANC: 264.3 DOC: 6.72
Closed DIC: 2.59 Equil. DIC: 2.86 Meas. Cond: 40.7 Cal. Cond: 41.5
Ca: 277.5 Mg: 88.4 Na: 31.1 K: 5.4 NH4: 2.3
SO4: 87.1 HCO3: 232.4 Cl: 9.3 NO3: 1.0 F: 1.1
Sum Cations: 404.9 Sum Anions: 331.6 Cations/Anions: 1.22 Tot. P: 6.2
Tot. Al: 26.9 Ext. Al: 8.9 Fe: 89.0 Mn: 4.0 SiO2: 1.90

(continued)

TABLE 3-1 (continued)

ID: 1E3-062 Name: CAIN POND State: ME Date: 23OCT84
Sample Type: REGULAR Latitude: 44-29'32"N Longitude: 68-58'03"W
Elevation: 69 Surface Temp: 12.6 Stratified: MIXED Site Depth: 3.9
Lake Area: 15 Watershed Area: 277 WA/LA: 18.2 Hydro Type: DRAINAGE
Residence Time: 0.19 Secchi Depth: 2.9 Turbidity: 0.7 Color: 10
Closed pH: 6.56 Equil. pH: 7.39 ANC: 166.9 DOC: 2.89
Closed DIC: 2.71 Equil. DIC: 1.80 Meas. Cond: 37.5 Cal. Cond: 41.0
Ca: 156.6 Mg: 63.1 Na: 119.0 K: 19.0 NH4: 0.9
SO4: 83.1 HCO3: 160.7 Cl: 89.8 NO3: 0.4 F: 2.4
Sum Cations: 358.8 Sum Anions: 336.4 Cations/Anions: 1.07 Tot. P: 5.7
Tot. Al: 24.4 Ext. Al: 3.8 Fe: 31.0 Mn: 16.0 SiO2: 1.02

ID: 1E3-065 Name: CLISH POND State: ME Date: 17OCT84
Sample Type: REGULAR Latitude: 46-01'09"N Longitude: 70-15'30"W
Elevation: 552 Surface Temp: 8.7 Stratified: MIXED Site Depth: 4.9
Lake Area: 7 Watershed Area: 49 WA/LA: 7.2 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 3.0 Turbidity: 0.8 Color: 35
Closed pH: 7.34 Equil. pH: 7.58 ANC: 259.7 DOC: 5.23
Closed DIC: 2.97 Equil. DIC: 2.87 Meas. Cond: 37.7 Cal. Cond: 39.4
Ca: 255.4 Mg: 79.4 Na: 36.1 K: 5.9 NH4: 0.2
SO4: 86.4 HCO3: 229.0 Cl: 6.9 NO3: 0.1 F: 1.4
Sum Cations: 377.0 Sum Anions: 324.2 Cations/Anions: 1.16 Tot. P: 1.5
Tot. Al: 70.3 Ext. Al: 9.5 Fe: 25.0 Mn: 13.0 SiO2: 0.22

ID: 1E3-067 Name: TOM YOUNG POND State: ME Date: 19OCT84
Sample Type: REGULAR Latitude: 45-45'44"N Longitude: 69-35'28"W
Elevation: 332 Surface Temp: 8.6 Stratified: MIXED Site Depth: 1.2
Lake Area: 9 Watershed Area: 83 WA/LA: 9.3 Hydro Type: DRAINAGE
Residence Time: 0.11 Secchi Depth: 1.2 Turbidity: 0.8 Color: 43
Closed pH: 6.98 Equil. pH: 7.43 ANC: 193.5 DOC: 10.83
Closed DIC: 2.14 Equil. DIC: 1.88 Meas. Cond: 39.5 Cal. Cond: 40.1
Ca: 252.4 Mg: 58.3 Na: 57.6 K: 12.7 NH4: 6.5
SO4: 123.9 HCO3: 153.4 Cl: 10.2 NO3: 1.1 F: 1.9
Sum Cations: 387.5 Sum Anions: 290.8 Cations/Anions: 1.33 Tot. P: 5.1
Tot. Al: 87.8 Ext. Al: 9.7 Fe: 49.0 Mn: 6.0 SiO2: 1.13

ID: 1E3-068 Name: SPAULDING LAKE State: ME Date: 15OCT84
Sample Type: REGULAR Latitude: 46-06'24"N Longitude: 68-06'15"W
Elevation: 174 Surface Temp: 11.8 Stratified: MIXED Site Depth: 10.7
Lake Area: 49 Watershed Area: 1448 WA/LA: 29.4 Hydro Type: DRAINAGE
Residence Time: 0.32 Secchi Depth: 3.0 Turbidity: 0.7 Color: 20
Closed pH: 8.16 Equil. pH: 8.39 ANC: 1301.8 DOC: 3.48
Closed DIC: 14.43 Equil. DIC: 14.55 Meas. Cond: 150.0 Cal. Cond: 155.3
Ca: 1244.5 Mg: 126.7 Na: 93.9 K: 27.6 NH4: 1.6
SO4: 107.9 HCO3: 1185.4 Cl: 71.1 NO3: 0.0 F: 1.5
Sum Cations: 1494.3 Sum Anions: 1378.3 Cations/Anions: 1.08 Tot. P: 4.6
Tot. Al: 9.3 Ext. Al: 4.8 Fe: 45.0 Mn: 5.0 SiO2: 2.21

ID: 1E3-069 Name: LONGFELLOW LAKE State: ME Date: 21OCT84
Sample Type: REGULAR Latitude: 45-45'58"N Longitude: 67-51'07"W
Elevation: 142 Surface Temp: 11.4 Stratified: MIXED Site Depth: 12.2
Lake Area: 194 Watershed Area: 883 WA/LA: 4.6 Hydro Type: DRAINAGE
Residence Time: 2.19 Secchi Depth: 8.4 Turbidity: 0.4 Color: 5
Closed pH: 7.15 Equil. pH: 7.38 ANC: 154.3 DOC: 2.96
Closed DIC: 1.88 Equil. DIC: 1.69 Meas. Cond: 30.2 Cal. Cond: 32.3
Ca: 160.9 Mg: 48.7 Na: 65.2 K: 9.1 NH4: 0.7
SO4: 79.3 HCO3: 145.1 Cl: 41.8 NO3: 0.4 F: 1.2
Sum Cations: 284.7 Sum Anions: 268.1 Cations/Anions: 1.06 Tot. P: 5.6
Tot. Al: 36.8 Ext. Al: 0.0 Fe: 1.5 Mn: 3.0 SiO2: 1.28

(continued)

TABLE 3-1 (continued)

ID: 1E3-070 Name: MCLEAN LAKE State: ME Date: 15OCT84
Sample Type: REGULAR Latitude: 47-06'25"N Longitude: 68-52'15"W
Elevation: 314 Surface Temp: 10.2 Stratified: MIXED Site Depth: 2.4
Lake Area: 12 Watershed Area: 324 WA/LA: 26.6 Hydro Type: DRAINAGE
Residence Time: 0.10 Secchi Depth: 2.4 Turbidity: 0.2 Color: 10
Closed pH: 7.93 Equil. pH: 8.35 ANC: 1282.4 DOC: 2.72
Closed DIC: 14.69 Equil. DIC: 14.57 Meas. Cond: 137.0 Cal. Cond: 142.6
Ca: 1177.1 Mg: 151.4 Na: 52.8 K: 5.9 NH4: 3.7
SO4: 88.9 HCO3: 1166.0 Cl: 15.4 NO3: 2.3 F: 1.0
Sum Cations: 1390.8 Sum Anions: 1285.8 Cations/Anions: 1.08 Tot. P: 0.0
Tot. Al: 10.2 Ext. Al: 6.7 Fe: 34.0 Mn: 0.0 SiO2: 4.65

ID: 1E3-071 Name: CARRY POND State: ME Date: 15OCT84
Sample Type: REGULAR Latitude: 46-20'43"N Longitude: 68-35'45"W
Elevation: 269 Surface Temp: 13.1 Stratified: MIXED Site Depth: 1.5
Lake Area: 7 Watershed Area: 106 WA/LA: 15.1 Hydro Type: DRAINAGE
Residence Time: 0.08 Secchi Depth: 1.0 Turbidity: 0.9 Color: 55
Closed pH: 7.59 Equil. pH: 7.83 ANC: 418.0 DOC: 9.73
Closed DIC: 4.23 Equil. DIC: 4.46 Meas. Cond: 51.1 Cal. Cond: 53.6
Ca: 373.8 Mg: 125.9 Na: 39.6 K: 5.5 NH4: 2.2
SO4: 62.9 HCO3: 370.7 Cl: 6.3 NO3: 0.0 F: 1.1
Sum Cations: 546.9 Sum Anions: 442.6 Cations/Anions: 1.24 Tot. P: 2.0
Tot. Al: 43.8 Ext. Al: 20.9 Fe: 34.0 Mn: 6.0 SiO2: 0.70

ID: 1E3-072 Name: MORRELL POND State: ME Date: 16OCT84
Sample Type: REGULAR Latitude: 46-12'54"N Longitude: 68-48'13"W
Elevation: 235 Surface Temp: 11.4 Stratified: MIXED Site Depth: 0.9
Lake Area: 13 Watershed Area: 236 WA/LA: 18.1 Hydro Type: DRAINAGE
Residence Time: 0.04 Secchi Depth: 0.9 Turbidity: 1.1 Color: 100
Closed pH: 6.79 Equil. pH: 7.31 ANC: 169.4 DOC: 16.59
Closed DIC: 1.58 Equil. DIC: 1.30 Meas. Cond: 28.5 Cal. Cond: 29.0
Ca: 192.4 Mg: 77.7 Na: 47.4 K: 14.3 NH4: 2.1
SO4: 50.1 HCO3: 108.0 Cl: 12.0 NO3: 0.0 F: 1.8
Sum Cations: 334.0 Sum Anions: 172.0 Cations/Anions: 1.94 Tot. P: 4.1
Tot. Al: 96.6 Ext. Al: 24.3 Fe: 44.0 Mn: 2.0 SiO2: 1.84

ID: 2A1-001 Name: YODELER LAKE State: MN Date: 30OCT84
Sample Type: REGULAR Latitude: 48-14'20"N Longitude: 92-11'45"W
Elevation: 399 Surface Temp: 6.1 Stratified: MIXED Site Depth: 12.2
Lake Area: 17 Watershed Area: 246 WA/LA: 14.4 Hydro Type: DRAINAGE
Residence Time: 2.34 Secchi Depth: 1.9 Turbidity: 0.7 Color: 68
Closed pH: 6.05 Equil. pH: 6.82 ANC: 78.0 DOC: 10.30
Closed DIC: 1.83 Equil. DIC: 0.63 Meas. Cond: 22.2 Cal. Cond: 21.9
Ca: 90.3 Mg: 68.3 Na: 40.5 K: 8.2 NH4: 1.7
SO4: 81.4 HCO3: 50.5 Cl: 10.2 NO3: 3.1 F: 2.3
Sum Cations: 209.6 Sum Anions: 147.5 Cations/Anions: 1.42 Tot. P: 17.0
Tot. Al: 180.0 Ext. Al: 68.0 Fe: 270.0 Mn: 40.0 SiO2: 7.39

ID: 2A1-002 Name: LEGEND LAKE State: MN Date: 18OCT84
Sample Type: REGULAR Latitude: 48-09'10"N Longitude: 92-03'15"W
Elevation: 393 Surface Temp: 10.0 Stratified: MIXED Site Depth: 1.5
Lake Area: 18 Watershed Area: 293 WA/LA: 16.5 Hydro Type: DRAINAGE
Residence Time: 0.26 Secchi Depth: 0.7 Turbidity: 1.4 Color: 130
Closed pH: 6.98 Equil. pH: 7.69 ANC: 235.0 DOC: 11.20
Closed DIC: 2.48 Equil. DIC: 2.02 Meas. Cond: 30.3 Cal. Cond: 28.0
Ca: 155.2 Mg: 112.7 Na: 40.9 K: 16.1 NH4: 5.0
SO4: 15.6 HCO3: 162.4 Cl: 6.8 NO3: 1.2 F: 2.2
Sum Cations: 330.0 Sum Anions: 188.3 Cations/Anions: 1.75 Tot. P: 17.0
Tot. Al: 112.0 Ext. Al: 18.0 Fe: 200.0 Mn: 0.0 SiO2: 3.09

(continued)

TABLE 3-1 (continued)

ID: 2A1-003 Name: LOUIS LAKE State: MN Date: 17OCT84
Sample Type: REGULAR Latitude: 48-02'38"N Longitude: 91-49'07"W
Elevation: 439 Surface Temp: 11.6 Stratified: STRONG Site Depth: 16.5
Lake Area: 8 Watershed Area: 36 WA/LA: 4.3 Hydro Type: DRAINAGE
Residence Time: 6.32 Secchi Depth: 3.6 Turbidity: 0.4 Color: 17
Closed pH: 6.90 Equil. pH: 7.43 ANC: 111.0 DOC: 5.50
Closed DIC: 1.53 Equil. DIC: 1.27 Meas. Cond: 20.6 Cal. Cond: 20.1
Ca: 87.8 Mg: 60.9 Na: 29.6 K: 11.0 NH4: 0.0
SO4: 59.1 HCO3: 86.5 Cl: 7.3 NO3: 0.7 F: 1.8
Sum Cations: 189.4 Sum Anions: 155.5 Cations/Anions: 1.22 Tot. P: 22.0
Tot. Al: 18.0 Ext. Al: 4.0 Fe: 0.0 Mn: 0.0 SiO2: 1.19

ID: 2A1-004 Name: SLETTEN LAKE State: MN Date: 30OCT84
Sample Type: REGULAR Latitude: 47-59'40"N Longitude: 91-53'00"W
Elevation: 454 Surface Temp: 6.0 Stratified: MIXED Site Depth: 14.3
Lake Area: 9 Watershed Area: 39 WA/LA: 4.3 Hydro Type: DRAINAGE
Residence Time: 5.47 Secchi Depth: 2.4 Turbidity: 0.6 Color: 36
Closed pH: 6.39 Equil. pH: 7.46 ANC: 101.0 DOC: 6.20
Closed DIC: 2.41 Equil. DIC: 1.46 Meas. Cond: 19.2 Cal. Cond: 18.7
Ca: 82.3 Mg: 54.3 Na: 29.6 K: 12.0 NH4: 7.8
SO4: 37.1 HCO3: 91.7 Cl: 8.2 NO3: 0.5 F: 2.5
Sum Cations: 186.3 Sum Anions: 140.0 Cations/Anions: 1.33 Tot. P: 6.0
Tot. Al: 41.0 Ext. Al: 8.0 Fe: 230.0 Mn: 40.0 SiO2: 2.28

ID: 2A1-005 Name: HAUNTED LAKE State: MN Date: 18OCT84
Sample Type: REGULAR Latitude: 48-18'45"N Longitude: 92-11'15"W
Elevation: 411 Surface Temp: 10.3 Stratified: MIXED Site Depth: 6.1
Lake Area: 7 Watershed Area: 52 WA/LA: 7.0 Hydro Type: RESERVOIR
Residence Time: 1.91 Secchi Depth: 2.2 Turbidity: 1.0 Color: 34
Closed pH: 6.40 Equil. pH: 7.20 ANC: 60.0 DOC: 7.90
Closed DIC: 0.96 Equil. DIC: 0.51 Meas. Cond: 16.8 Cal. Cond: 16.2
Ca: 74.4 Mg: 44.4 Na: 27.8 K: 6.9 NH4: 2.8
SO4: 55.8 HCO3: 32.7 Cl: 14.1 NO3: 0.0 F: 2.1
Sum Cations: 156.7 Sum Anions: 104.7 Cations/Anions: 1.50 Tot. P: 1.0
Tot. Al: 44.0 Ext. Al: 7.0 Fe: 90.0 Mn: 10.0 SiO2: 0.18

ID: 2A1-006 Name: BEARTRACK LAKE State: MN Date: 18OCT84
Sample Type: REGULAR Latitude: 48-18'07"N Longitude: 92-12'00"W
Elevation: 399 Surface Temp: 11.4 Stratified: WEAK Site Depth: 16.5
Lake Area: 64 Watershed Area: 192 WA/LA: 3.0 Hydro Type: DRAINAGE
Residence Time: 7.87 Secchi Depth: 5.0 Turbidity: 0.4 Color: 7
Closed pH: 6.87 Equil. pH: 7.24 ANC: 96.0 DOC: 4.30
Closed DIC: 1.42 Equil. DIC: 1.04 Meas. Cond: 20.6 Cal. Cond: 20.5
Ca: 90.3 Mg: 52.6 Na: 30.4 K: 8.2 NH4: 0.0
SO4: 71.0 HCO3: 81.1 Cl: 9.6 NO3: 0.0 F: 2.2
Sum Cations: 181.7 Sum Anions: 163.9 Cations/Anions: 1.11 Tot. P: 0.0
Tot. Al: 16.0 Ext. Al: 2.0 Fe: 0.0 Mn: 0.0 SiO2: 0.02

ID: 2A1-008 Name: RUBY LAKE State: MN Date: 30OCT84
Sample Type: REGULAR Latitude: 48-13'45"N Longitude: 92-10'20"W
Elevation: 402 Surface Temp: 6.9 Stratified: MIXED Site Depth: 16.5
Lake Area: 28 Watershed Area: 218 WA/LA: 7.9 Hydro Type: DRAINAGE
Residence Time: 4.78 Secchi Depth: 6.0 Turbidity: 0.3 Color: 23
Closed pH: 6.72 Equil. pH: 7.39 ANC: 140.0 DOC: 4.50
Closed DIC: 2.06 Equil. DIC: 1.51 Meas. Cond: 26.0 Cal. Cond: 26.5
Ca: 119.8 Mg: 66.6 Na: 43.1 K: 11.0 NH4: 0.6
SO4: 83.9 HCO3: 115.0 Cl: 9.0 NO3: 1.3 F: 2.4
Sum Cations: 241.2 Sum Anions: 211.7 Cations/Anions: 1.14 Tot. P: 7.0
Tot. Al: 16.0 Ext. Al: 3.0 Fe: 30.0 Mn: 30.0 SiO2: 4.38

(continued)

TABLE 3-1 (continued)

ID: 2A1-009 Name: POSSE LAKE State: MN Date: 18OCT84
Sample Type: REGULAR Latitude: 48-15'00"N Longitude: 92-09'45"W
Elevation: 390 Surface Temp: 10.5 Stratified: MIXED Site Depth: 2.7
Lake Area: 5 Watershed Area: 158 WA/LA: 32.9 Hydro Type: DRAINAGE
Residence Time: 0.26 Secchi Depth: 2.3 Turbidity: 0.7 Color: 27
Closed pH: 6.60 Equil. pH: 7.24 ANC: 101.0 DOC: 7.50
Closed DIC: 1.61 Equil. DIC: 0.99 Meas. Cond: 22.8 Cal. Cond: 21.7
Ca: 85.8 Mg: 68.3 Na: 38.3 K: 13.6 NH4: 2.8
SO4: 69.5 HCO3: 75.4 Cl: 9.3 NO3: 0.5 F: 1.9
Sum Cations: 208.9 Sum Anions: 156.7 Cations/Anions: 1.33 Tot. P: 9.0
Tot. Al: 42.0 Ext. Al: 5.0 Fe: 30.0 Mn: 0.0 SiO2: 0.61

ID: 2A1-010 Name: NIBIN LAKE State: MN Date: 18OCT84
Sample Type: REGULAR Latitude: 48-10'45"N Longitude: 91-59'00"W
Elevation: 394 Surface Temp: 10.6 Stratified: MIXED Site Depth: 2.1
Lake Area: 15 Watershed Area: 124 WA/LA: 8.1 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 2.1 Turbidity: 0.9 Color: 18
Closed pH: 6.98 Equil. pH: 7.48 ANC: 130.0 DOC: 17.60
Closed DIC: 1.51 Equil. DIC: 1.30 Meas. Cond: 24.1 Cal. Cond: 22.9
Ca: 102.3 Mg: 62.5 Na: 43.9 K: 7.9 NH4: 2.2
SO4: 69.1 HCO3: 90.1 Cl: 10.7 NO3: 0.2 F: 2.7
Sum Cations: 219.0 Sum Anions: 173.0 Cations/Anions: 1.27 Tot. P: 9.0
Tot. Al: 29.0 Ext. Al: 3.0 Fe: 20.0 Mn: 0.0 SiO2: 0.64

ID: 2A1-011 Name: BIG LAKE State: MN Date: 30OCT84
Sample Type: REGULAR Latitude: 48-05'00"N Longitude: 92-00'15"W
Elevation: 430 Surface Temp: 5.2 Stratified: MIXED Site Depth: 4.5
Lake Area: 760 Watershed Area: 2709 WA/LA: 3.6 Hydro Type: DRAINAGE
Residence Time: 1.90 Secchi Depth: 2.7 Turbidity: 0.8 Color: 36
Closed pH: 6.81 Equil. pH: 7.41 ANC: 105.0 DOC: 7.70
Closed DIC: 1.23 Equil. DIC: 0.97 Meas. Cond: 23.1 Cal. Cond: 21.6
Ca: 108.8 Mg: 59.2 Na: 37.8 K: 11.5 NH4: 0.6
SO4: 60.4 HCO3: 74.0 Cl: 10.2 NO3: 1.2 F: 3.3
Sum Cations: 218.1 Sum Anions: 149.1 Cations/Anions: 1.46 Tot. P: 10.0
Tot. Al: 42.0 Ext. Al: 5.0 Fe: 40.0 Mn: 0.0 SiO2: 2.18

ID: 2A1-012 Name: FAIRY LAKE State: MN Date: 17OCT84
Sample Type: REGULAR Latitude: 48-06'15"N Longitude: 91-49'50"W
Elevation: 412 Surface Temp: 11.7 Stratified: MIXED Site Depth: 4.0
Lake Area: 42 Watershed Area: 451 WA/LA: 10.8 Hydro Type: DRAINAGE
Residence Time: 0.92 Secchi Depth: 0.9 Turbidity: 2.1 Color: 97
Closed pH: 6.50 Equil. pH: 5.62 ANC: 96.0 DOC: 13.90
Closed DIC: 0.97 Equil. DIC: 0.57 Meas. Cond: 22.0 Cal. Cond: 20.0
Ca: 101.8 Mg: 75.7 Na: 28.7 K: 10.7 NH4: 0.0
SO4: 62.5 HCO3: 37.6 Cl: 10.4 NO3: 0.0 F: 2.8
Sum Cations: 217.3 Sum Anions: 113.3 Cations/Anions: 1.92 Tot. P: 12.0
Tot. Al: 189.0 Ext. Al: 44.0 Fe: 250.0 Mn: 0.0 SiO2: 2.32

ID: 2A1-013 Name: SERENADE LAKE State: MN Date: 17OCT84
Sample Type: REGULAR Latitude: 48-03'15"N Longitude: 92-09'00"W
Elevation: 427 Surface Temp: 10.6 Stratified: MIXED Site Depth: 1.2
Lake Area: 22 Watershed Area: 228 WA/LA: 10.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.2 Turbidity: 1.3 Color: 64
Closed pH: 6.25 Equil. pH: 6.60 ANC: 49.0 DOC: 11.80
Closed DIC: 0.54 Equil. DIC: 0.32 Meas. Cond: 16.4 Cal. Cond: 15.4
Ca: 56.9 Mg: 40.3 Na: 32.2 K: 6.9 NH4: 7.8
SO4: 61.4 HCO3: 18.2 Cl: 11.6 NO3: 2.5 F: 2.5
Sum Cations: 144.9 Sum Anions: 96.1 Cations/Anions: 1.51 Tot. P: 9.0
Tot. Al: 136.0 Ext. Al: 48.0 Fe: 60.0 Mn: 10.0 SiO2: 0.11

(continued)

TABLE 3-1 (continued)

ID: 2A1-014 Name: AGASSA LAKE State: MN Date: 18OCT84
Sample Type: REGULAR Latitude: 48-03'15"N Longitude: 91-57'00"W
Elevation: 444 Surface Temp: 10.4 Stratified: MIXED Site Depth: 2.4
Lake Area: 29 Watershed Area: 256 WA/LA: 8.8 Hydro Type: DRAINAGE
Residence Time: 0.63 Secchi Depth: 0.9 Turbidity: 1.4 Color: 130
Closed pH: 5.91 Equil. pH: 6.12 ANC: 45.0 DOC: 8.20
Closed DIC: 0.50 Equil. DIC: 0.18 Meas. Cond: 16.6 Cal. Cond: 15.4
Ca: 63.4 Mg: 51.0 Na: 29.6 K: 9.2 NH4: 0.0
SO4: 62.0 HCO3: 9.5 Cl: 8.7 NO3: 1.0 F: 2.4
Sum Cations: 154.5 Sum Anions: 83.7 Cations/Anions: 1.85 Tot. P: 13.0
Tot. Al: 204.0 Ext. Al: 63.0 Fe: 370.0 Mn: 10.0 SiO2: 1.07

ID: 2A1-015 Name: HOPKINS LAKE State: MN Date: 30OCT84
Sample Type: REGULAR Latitude: 48-04'07"N Longitude: 91-53'00"W
Elevation: 451 Surface Temp: 4.1 Stratified: MIXED Site Depth: 1.5
Lake Area: 9 Watershed Area: 73 WA/LA: 7.8 Hydro Type: DRAINAGE
Residence Time: 0.42 Secchi Depth: 1.3 Turbidity: 0.9 Color: 70
Closed pH: 6.26 Equil. pH: 7.34 ANC: 50.0 DOC: 9.00
Closed DIC: 0.57 Equil. DIC: 0.39 Meas. Cond: 16.9 Cal. Cond: 13.8
Ca: 65.9 Mg: 51.0 Na: 29.6 K: 6.6 NH4: 0.6
SO4: 43.7 HCO3: 16.7 Cl: 5.9 NO3: 0.7 F: 2.8
Sum Cations: 154.5 Sum Anions: 69.9 Cations/Anions: 2.21 Tot. P: 11.0
Tot. Al: 143.0 Ext. Al: 40.0 Fe: 170.0 Mn: 0.0 SiO2: 1.82

ID: 2A1-016 Name: NISWI LAKE State: MN Date: 17OCT84
Sample Type: REGULAR Latitude: 48-01'10"N Longitude: 92-08'00"W
Elevation: 442 Surface Temp: 11.1 Stratified: MIXED Site Depth: 1.8
Lake Area: 43 Watershed Area: 445 WA/LA: 10.4 Hydro Type: DRAINAGE
Residence Time: 0.42 Secchi Depth: 0.4 Turbidity: 5.0 Color: 160
Closed pH: 6.21 Equil. pH: 6.62 ANC: 52.0 DOC: 10.50
Closed DIC: 0.49 Equil. DIC: 0.28 Meas. Cond: 17.8 Cal. Cond: 16.2
Ca: 69.9 Mg: 46.1 Na: 34.8 K: 8.9 NH4: 0.0
SO4: 64.3 HCO3: 16.7 Cl: 9.3 NO3: 2.2 F: 3.2
Sum Cations: 160.5 Sum Anions: 95.7 Cations/Anions: 1.68 Tot. P: 38.0
Tot. Al: 315.0 Ext. Al: 64.0 Fe: 250.0 Mn: 0.0 SiO2: 1.82

ID: 2A1-017 Name: MEDLEY LAKE State: MN Date: 17OCT84
Sample Type: REGULAR Latitude: 48-01'15"N Longitude: 92-02'30"W
Elevation: 442 Surface Temp: 11.5 Stratified: MIXED Site Depth: 2.1
Lake Area: 9 Watershed Area: 104 WA/LA: 11.7 Hydro Type: DRAINAGE
Residence Time: 0.45 Secchi Depth: 0.3 Turbidity: 0.6 Color: 235
Closed pH: 5.57 Equil. pH: 5.72 ANC: 50.0 DOC: 21.10
Closed DIC: 0.58 Equil. DIC: 0.17 Meas. Cond: 16.4 Cal. Cond: 12.8
Ca: 72.9 Mg: 46.1 Na: 35.7 K: 5.6 NH4: 1.7
SO4: 21.9 HCO3: 5.5 Cl: 6.5 NO3: 1.4 F: 4.0
Sum Cations: 164.6 Sum Anions: 39.3 Cations/Anions: 4.19 Tot. P: 9.0
Tot. Al: 242.0 Ext. Al: 126.0 Fe: 710.0 Mn: 30.0 SiO2: 3.55

ID: 2A1-018 Name: BUCK LAKE State: MN Date: 17OCT84
Sample Type: REGULAR Latitude: 47-58'00"N Longitude: 92-11'53"W
Elevation: 433 Surface Temp: 11.7 Stratified: MIXED Site Depth: 5.8
Lake Area: 81 Watershed Area: 948 WA/LA: 11.7 Hydro Type: DRAINAGE
Residence Time: 1.26 Secchi Depth: 1.4 Turbidity: 1.6 Color: 47
Closed pH: 6.69 Equil. pH: 7.18 ANC: 114.0 DOC: 9.40
Closed DIC: 1.42 Equil. DIC: 1.02 Meas. Cond: 24.4 Cal. Cond: 24.8
Ca: 114.3 Mg: 67.5 Na: 45.2 K: 11.0 NH4: 0.0
SO4: 75.2 HCO3: 74.4 Cl: 22.0 NO3: 0.9 F: 3.5
Sum Cations: 238.2 Sum Anions: 176.0 Cations/Anions: 1.35 Tot. P: 1.0
Tot. Al: 72.0 Ext. Al: 12.0 Fe: 160.0 Mn: 0.0 SiO2: 3.35

(continued)

TABLE 3-1 (continued)

ID: 2A1-019 Name: HASSEL LAKE State: MN Date: 16OCT84
Sample Type: REGULAR Latitude: 47-56'30"N Longitude: 92-06'00"W
Elevation: 460 Surface Temp: 11.9 Stratified: MIXED Site Depth: 0.9
Lake Area: 28 Watershed Area: 127 WA/LA: 4.6 Hydro Type: DRAINAGE
Residence Time: 0.33 Secchi Depth: 0.9 Turbidity: 1.2 Color: 52
Closed pH: 6.36 Equil. pH: 6.75 ANC: 60.0 DOC: 10.10
Closed DIC: 0.74 Equil. DIC: 0.46 Meas. Cond: 17.1 Cal. Cond: 15.0
Ca: 65.9 Mg: 48.5 Na: 33.5 K: 8.2 NH4: 0.0
SO4: 54.3 HCO3: 24.2 Cl: 5.1 NO3: 0.3 F: 4.6
Sum Cations: 156.6 Sum Anions: 88.5 Cations/Anions: 1.77 Tot. P: 11.0
Tot. Al: 107.0 Ext. Al: 28.0 Fe: 260.0 Mn: 0.0 SiO2: 0.12

ID: 2A1-020 Name: GERALDINE LAKE State: MN Date: 16OCT84
Sample Type: REGULAR Latitude: 47-57'50"N Longitude: 92-00'45"W
Elevation: 436 Surface Temp: 12.2 Stratified: MIXED Site Depth: 3.9
Lake Area: 16 Watershed Area: 186 WA/LA: 11.5 Hydro Type: DRAINAGE
Residence Time: 0.85 Secchi Depth: 1.3 Turbidity: 1.2 Color: 65
Closed pH: 6.38 Equil. pH: 6.94 ANC: 75.0 DOC: 11.10
Closed DIC: 1.10 Equil. DIC: 0.58 Meas. Cond: 20.8 Cal. Cond: 18.2
Ca: 78.8 Mg: 60.9 Na: 40.0 K: 12.8 NH4: 0.6
SO4: 61.2 HCO3: 36.8 Cl: 4.8 NO3: 1.0 F: 2.8
Sum Cations: 193.5 Sum Anions: 106.6 Cations/Anions: 1.81 Tot. P: 10.0
Tot. Al: 164.0 Ext. Al: 46.0 Fe: 360.0 Mn: 10.0 SiO2: 1.15

ID: 2A1-022 Name: LOFT LAKE State: MN Date: 01NOV84
Sample Type: REGULAR Latitude: 48-00'45"N Longitude: 90-04'05"W
Elevation: 567 Surface Temp: 4.2 Stratified: MIXED Site Depth: 1.2
Lake Area: 6 Watershed Area: 78 WA/LA: 13.2 Hydro Type: DRAINAGE
Residence Time: 0.14 Secchi Depth: 1.0 Turbidity: 2.2 Color: 64
Closed pH: 6.50 Equil. pH: 7.43 ANC: 114.0 DOC: 7.40
Closed DIC: 2.74 Equil. DIC: 1.52 Meas. Cond: 28.5 Cal. Cond: 29.4
Ca: 118.8 Mg: 97.1 Na: 32.2 K: 11.5 NH4: 6.7
SO4: 88.7 HCO3: 129.3 Cl: 10.2 NO3: 6.4 F: 1.8
Sum Cations: 266.4 Sum Anions: 236.5 Cations/Anions: 1.13 Tot. P: 17.0
Tot. Al: 100.0 Ext. Al: 19.0 Fe: 350.0 Mn: 30.0 SiO2: 4.99

ID: 2A1-023 Name: CHESTER LAKE State: MN Date: 01NOV84
Sample Type: REG/SPC/LTM/ Latitude: 47-59'03"N Longitude: 90-05'00"W
Elevation: 572 Surface Temp: 4.1 Stratified: MIXED Site Depth: 9.7
Lake Area: 20 Watershed Area: 73 WA/LA: 3.7 Hydro Type: DRAINAGE
Residence Time: 2.99 Secchi Depth: 3.2 Turbidity: 0.7 Color: 24
Closed pH: 6.81 Equil. pH: 7.27 ANC: 107.0 DOC: 5.50
Closed DIC: 1.40 Equil. DIC: 1.05 Meas. Cond: 22.9 Cal. Cond: 23.3
Ca: 110.8 Mg: 63.3 Na: 28.7 K: 7.4 NH4: 2.8
SO4: 82.2 HCO3: 80.8 Cl: 7.1 NO3: 2.3 F: 4.7
Sum Cations: 213.2 Sum Anions: 177.1 Cations/Anions: 1.20 Tot. P: 12.0
Tot. Al: 32.0 Ext. Al: 4.0 Fe: 10.0 Mn: 0.0 SiO2: 2.33

ID: 2A1-024 Name: MAGIC LAKE State: MN Date: 24OCT84
Sample Type: REGULAR Latitude: 47-53'20"N Longitude: 90-57'15"W
Elevation: 547 Surface Temp: 3.5 Stratified: MIXED Site Depth: 0.9
Lake Area: 7 Watershed Area: 614 WA/LA: 94.5 Hydro Type: DRAINAGE
Residence Time: 0.02 Secchi Depth: 0.9 Turbidity: 2.7 Color: 87
Closed pH: 6.75 Equil. pH: 7.49 ANC: 187.0 DOC: 10.90
Closed DIC: 2.35 Equil. DIC: 1.77 Meas. Cond: 32.1 Cal. Cond: 31.1
Ca: 112.3 Mg: 169.5 Na: 41.3 K: 9.3 NH4: 0.6
SO4: 66.2 HCO3: 136.9 Cl: 11.8 NO3: 2.8 F: 1.6
Sum Cations: 333.1 Sum Anions: 219.4 Cations/Anions: 1.52 Tot. P: 26.0
Tot. Al: 128.0 Ext. Al: 24.0 Fe: 350.0 Mn: 10.0 SiO2: 2.89

(continued)

TABLE 3-1 (continued)

ID: 2A1-025 Name: ORIOLE LAKE State: MN Date: 24OCT84
Sample Type: REGULAR Latitude: 47-54'45"N Longitude: 90-55'30"W
Elevation: 588 Surface Temp: 4.1 Stratified: MIXED Site Depth: 1.2
Lake Area: 6 Watershed Area: 135 WA/LA: 24.1 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 1.2 Turbidity: 0.7 Color: 44
Closed pH: 6.57 Equil. pH: 7.18 ANC: 81.0 DOC: 6.80
Closed DIC: 1.02 Equil. DIC: 0.77 Meas. Cond: 19.0 Cal. Cond: 17.1
Ca: 71.9 Mg: 52.6 Na: 30.9 K: 4.4 NH4: 2.8
SO4: 57.3 HCO3: 51.6 Cl: 5.1 NO3: 4.1 F: 5.3
Sum Cations: 162.9 Sum Anions: 123.4 Cations/Anions: 1.32 Tot. P: 20.0
Tot. Al: 118.0 Ext. Al: 30.0 Fe: 100.0 Mn: 0.0 SiO2: 0.55

ID: 2A1-026 Name: KAWISHIWI LAKE State: MN Date: 23OCT84
Sample Type: REGULAR Latitude: 47-50'35"N Longitude: 91-06'30"W
Elevation: 501 Surface Temp: 7.2 Stratified: MIXED Site Depth: 3.0
Lake Area: 159 Watershed Area: 798 WA/LA: 5.0 Hydro Type: DRAINAGE
Residence Time: 0.77 Secchi Depth: 0.9 Turbidity: 2.0 Color: 44
Closed pH: 6.83 Equil. pH: 7.43 ANC: 145.0 DOC: 8.30
Closed DIC: 1.70 Equil. DIC: 1.38 Meas. Cond: 25.0 Cal. Cond: 25.0
Ca: 126.2 Mg: 76.5 Na: 39.1 K: 7.6 NH4: 2.2
SO4: 66.4 HCO3: 100.4 Cl: 8.7 NO3: 2.0 F: 1.3
Sum Cations: 251.9 Sum Anions: 178.9 Cations/Anions: 1.41 Tot. P: 12.0
Tot. Al: 59.0 Ext. Al: 3.0 Fe: 90.0 Mn: 0.0 SiO2: 1.44

ID: 2A1-027 Name: ELLA LAKE State: MN Date: 23OCT84
Sample Type: REGULAR Latitude: 47-52'15"N Longitude: 90-57'10"W
Elevation: 564 Surface Temp: 5.4 Stratified: MIXED Site Depth: 1.5
Lake Area: 21 Watershed Area: 334 WA/LA: 16.3 Hydro Type: DRAINAGE
Residence Time: 0.15 Secchi Depth: 1.1 Turbidity: 1.9 Color: 65
Closed pH: 6.31 Equil. pH: 6.78 ANC: 64.0 DOC: 9.00
Closed DIC: 0.86 Equil. DIC: 0.56 Meas. Cond: 18.9 Cal. Cond: 17.8
Ca: 86.3 Mg: 54.3 Na: 32.6 K: 6.4 NH4: 1.7
SO4: 53.1 HCO3: 29.6 Cl: 10.2 NO3: 2.0 F: 16.3
Sum Cations: 181.9 Sum Anions: 111.2 Cations/Anions: 1.64 Tot. P: 13.0
Tot. Al: 196.0 Ext. Al: 58.0 Fe: 190.0 Mn: 10.0 SiO2: 2.57

ID: 2A1-028 Name: EUGENE LAKE State: MN Date: 18OCT84
Sample Type: REGULAR Latitude: 48-18'30"N Longitude: 92-13'10"W
Elevation: 387 Surface Temp: 10.9 Stratified: STRONG Site Depth: 15.2
Lake Area: 68 Watershed Area: 350 WA/LA: 5.2 Hydro Type: DRAINAGE
Residence Time: 5.66 Secchi Depth: 3.1 Turbidity: 0.5 Color: 35
Closed pH: 6.66 Equil. pH: 7.19 ANC: 90.0 DOC: 7.70
Closed DIC: 1.24 Equil. DIC: 0.80 Meas. Cond: 20.8 Cal. Cond: 21.0
Ca: 91.8 Mg: 60.0 Na: 33.9 K: 8.9 NH4: 0.0
SO4: 64.1 HCO3: 58.7 Cl: 26.8 NO3: 0.0 F: 2.1
Sum Cations: 195.0 Sum Anions: 151.7 Cations/Anions: 1.29 Tot. P: 1.0
Tot. Al: 63.0 Ext. Al: 8.0 Fe: 40.0 Mn: 0.0 SiO2: 1.13

ID: 2A1-029 Name: LUCKY FINN LAKE State: MN Date: 18OCT84
Sample Type: REGULAR Latitude: 48-16'35"N Longitude: 92-10'45"W
Elevation: 390 Surface Temp: 10.5 Stratified: MIXED Site Depth: 3.0
Lake Area: 12 Watershed Area: 575 WA/LA: 47.5 Hydro Type: DRAINAGE
Residence Time: 0.21 Secchi Depth: 1.1 Turbidity: 1.4 Color: 52
Closed pH: 6.44 Equil. pH: 7.10 ANC: 89.0 DOC: 11.00
Closed DIC: 1.25 Equil. DIC: 0.59 Meas. Cond: 22.3 Cal. Cond: 21.1
Ca: 87.3 Mg: 73.2 Na: 42.6 K: 9.2 NH4: 0.0
SO4: 73.5 HCO3: 44.0 Cl: 13.0 NO3: 1.1 F: 2.3
Sum Cations: 212.8 Sum Anions: 133.9 Cations/Anions: 1.59 Tot. P: 8.0
Tot. Al: 86.0 Ext. Al: 16.0 Fe: 60.0 Mn: 0.0 SiO2: 0.45

(continued)

TABLE 3-1 (continued)

ID: 2A1-030 Name: HERITAGE LAKE State: MN Date: 30OCT84
Sample Type: REGULAR Latitude: 48-13'30"N Longitude: 92-12'45"W
Elevation: 380 Surface Temp: 7.2 Stratified: MIXED Site Depth: 11.6
Lake Area: 83 Watershed Area: 800 WA/LA: 9.7 Hydro Type: DRAINAGE
Residence Time: 2.95 Secchi Depth: 1.5 Turbidity: 3.0 Color: 58
Closed pH: 6.60 Equil. pH: 7.42 ANC: 120.0 DOC: 9.70
Closed DIC: 2.26 Equil. DIC: 1.42 Meas. Cond: 26.8 Cal. Cond: 26.7
Ca: 121.8 Mg: 83.9 Na: 43.1 K: 11.8 NH4: 4.4
SO4: 65.8 HCO3: 113.2 Cl: 11.6 NO3: 4.5 F: 2.3
Sum Cations: 265.1 Sum Anions: 197.3 Cations/Anions: 1.34 Tot. P: 12.0
Tot. Al: 50.0 Ext. Al: 11.0 Fe: 130.0 Mn: 0.0 SiO2: 3.03

ID: 2A1-031 Name: OYSTER LAKE State: MN Date: 18OCT84
Sample Type: REGULAR Latitude: 48-13'30"N Longitude: 92-06'00"W
Elevation: 378 Surface Temp: 10.9 Stratified: STRONG Site Depth: 36.9
Lake Area: 311 Watershed Area: 2725 WA/LA: 8.8 Hydro Type: DRAINAGE
Residence Time: 9.99 Secchi Depth: 3.1 Turbidity: 0.6 Color: 37
Closed pH: 6.99 Equil. pH: 7.39 ANC: 156.0 DOC: 12.60
Closed DIC: 1.82 Equil. DIC: 1.59 Meas. Cond: 29.2 Cal. Cond: 29.2
Ca: 130.7 Mg: 89.7 Na: 49.2 K: 15.9 NH4: 0.0
SO4: 83.1 HCO3: 119.7 Cl: 9.6 NO3: 2.1 F: 2.7
Sum Cations: 285.5 Sum Anions: 217.3 Cations/Anions: 1.31 Tot. P: 5.0
Tot. Al: 39.0 Ext. Al: 10.0 Fe: 30.0 Mn: 0.0 SiO2: 3.03

ID: 2A1-032 Name: LAKE AGNES State: MN Date: 18OCT84
Sample Type: REGULAR Latitude: 48-13'15"N Longitude: 92-03'30"W
Elevation: 365 Surface Temp: 11.4 Stratified: MIXED Site Depth: 7.0
Lake Area: 432 Watershed Area: 6651 WA/LA: 15.4 Hydro Type: DRAINAGE
Residence Time: 1.27 Secchi Depth: 1.1 Turbidity: 2.1 Color: 97
Closed pH: 6.91 Equil. pH: 7.43 ANC: 164.0 DOC: 12.70
Closed DIC: 1.80 Equil. DIC: 1.39 Meas. Cond: 28.2 Cal. Cond: 25.7
Ca: 143.7 Mg: 91.3 Na: 44.8 K: 12.0 NH4: 0.0
SO4: 49.6 HCO3: 104.9 Cl: 3.7 NO3: 0.0 F: 3.4
Sum Cations: 292.0 Sum Anions: 161.6 Cations/Anions: 1.81 Tot. P: 16.0
Tot. Al: 97.0 Ext. Al: 8.0 Fe: 310.0 Mn: 0.0 SiO2: 1.19

ID: 2A1-033 Name: RAMSHEAD LAKE State: MN Date: 18OCT84
Sample Type: REGULAR Latitude: 48-10'45"N Longitude: 92-06'30"W
Elevation: 374 Surface Temp: 10.5 Stratified: MIXED Site Depth: 2.4
Lake Area: 224 Watershed Area: 3331 WA/LA: 14.9 Hydro Type: DRAINAGE
Residence Time: 0.44 Secchi Depth: 0.6 Turbidity: 5.5 Color: 56
Closed pH: 7.28 Equil. pH: 7.83 ANC: 310.0 DOC: 7.20
Closed DIC: 3.41 Equil. DIC: 3.01 Meas. Cond: 38.5 Cal. Cond: 37.1
Ca: 197.6 Mg: 129.1 Na: 57.0 K: 19.2 NH4: 0.0
SO4: 43.3 HCO3: 227.5 Cl: 5.9 NO3: 0.0 F: 3.0
Sum Cations: 403.0 Sum Anions: 280.0 Cations/Anions: 1.44 Tot. P: 55.0
Tot. Al: 85.0 Ext. Al: 5.0 Fe: 40.0 Mn: 0.0 SiO2: 3.03

ID: 2A1-034 Name: STUART LAKE State: MN Date: 18OCT84
Sample Type: REGULAR Latitude: 48-11'15"N Longitude: 92-00'15"W
Elevation: 381 Surface Temp: 11.5 Stratified: MIXED Site Depth: 8.5
Lake Area: 311 Watershed Area: 6402 WA/LA: 20.6 Hydro Type: DRAINAGE
Residence Time: 1.22 Secchi Depth: 0.9 Turbidity: 2.4 Color: 83
Closed pH: 6.74 Equil. pH: 7.25 ANC: 129.0 DOC: 13.10
Closed DIC: 1.28 Equil. DIC: 0.90 Meas. Cond: 24.1 Cal. Cond: 22.0
Ca: 115.5 Mg: 82.3 Na: 38.3 K: 10.2 NH4: 2.2
SO4: 51.0 HCO3: 68.2 Cl: 8.6 NO3: 0.0 F: 2.5
Sum Cations: 248.7 Sum Anions: 130.3 Cations/Anions: 1.91 Tot. P: 13.0
Tot. Al: 116.5 Ext. Al: 12.0 Fe: 170.0 Mn: 0.0 SiO2: 0.81

(continued)

TABLE 3-1 (continued)

ID: 2A1-035 Name: THIRD LAKE State: MN Date: 18OCT84
Sample Type: REGULAR Latitude: 48-06'00"N Longitude: 92-00'30"W
Elevation: 427 Surface Temp: 9.4 Stratified: MIXED Site Depth: 1.2
Lake Area: 17 Watershed Area: 109 WA/LA: 6.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.2 Turbidity: 0.7 Color: 52
Closed pH: 6.77 Equil. pH: 7.34 ANC: 114.0 DOC: 13.50
Closed DIC: 1.21 Equil. DIC: 0.89 Meas. Cond: 24.3 Cal. Cond: 23.3
Ca: 109.3 Mg: 65.8 Na: 43.9 K: 9.5 NH4: 5.0
SO4: 63.5 HCO3: 77.1 Cl: 13.3 NO3: 5.0 F: 2.3
Sum Cations: 233.7 Sum Anions: 161.3 Cations/Anions: 1.45 Tot. P: 9.0
Tot. Al: 60.0 Ext. Al: 14.0 Fe: 50.0 Mn: 0.0 SiO2: 0.26

ID: 2A1-036 Name: GREENWOOD LAKE State: MN Date: 01NOV84
Sample Type: REGULAR Latitude: 48-00'00"N Longitude: 90-10'45"W
Elevation: 570 Surface Temp: 5.9 Stratified: MIXED Site Depth: 8.2
Lake Area: 800 Watershed Area: 2808 WA/LA: 3.5 Hydro Type: DRAINAGE
Residence Time: 2.62 Secchi Depth: 4.3 Turbidity: 0.5 Color: 18
Closed pH: 6.91 Equil. pH: 7.28 ANC: 119.0 DOC: 3.80
Closed DIC: 1.52 Equil. DIC: 1.31 Meas. Cond: 25.0 Cal. Cond: 26.3
Ca: 115.3 Mg: 75.7 Na: 29.6 K: 7.4 NH4: 1.7
SO4: 92.9 HCO3: 100.8 Cl: 13.3 NO3: 0.4 F: 5.6
Sum Cations: 229.7 Sum Anions: 213.0 Cations/Anions: 1.08 Tot. P: 10.0
Tot. Al: 18.0 Ext. Al: 1.0 Fe: 0.0 Mn: 0.0 SiO2: 0.74

ID: 2A1-037 Name: KNIGHT LAKE State: MN Date: 23OCT84
Sample Type: REGULAR Latitude: 47-52'30"N Longitude: 91-01'10"W
Elevation: 528 Surface Temp: 5.6 Stratified: MIXED Site Depth: 1.5
Lake Area: 38 Watershed Area: 4095 WA/LA: 108.3 Hydro Type: DRAINAGE
Residence Time: 0.02 Secchi Depth: 1.1 Turbidity: 1.8 Color: 97
Closed pH: 6.42 Equil. pH: 7.13 ANC: 97.0 DOC: 11.30
Closed DIC: 1.33 Equil. DIC: 0.77 Meas. Cond: 22.7 Cal. Cond: 21.4
Ca: 112.8 Mg: 69.9 Na: 37.4 K: 7.6 NH4: 2.8
SO4: 48.7 HCO3: 59.2 Cl: 13.8 NO3: 5.1 F: 5.4
Sum Cations: 230.8 Sum Anions: 132.4 Cations/Anions: 1.74 Tot. P: 20.0
Tot. Al: 159.0 Ext. Al: 43.0 Fe: 280.0 Mn: 0.0 SiO2: 3.99

ID: 2A1-038 Name: HUNCH LAKE State: MN Date: 22OCT84
Sample Type: REGULAR Latitude: 48-01'55"N Longitude: 91-56'07"W
Elevation: 445 Surface Temp: 6.9 Stratified: MIXED Site Depth: 2.4
Lake Area: 6 Watershed Area: 44 WA/LA: 7.5 Hydro Type: DRAINAGE
Residence Time: 0.69 Secchi Depth: 2.1 Turbidity: 0.7 Color: 55
Closed pH: 6.38 Equil. pH: 6.59 ANC: 50.0 DOC: 9.10
Closed DIC: 0.73 Equil. DIC: 0.36 Meas. Cond: 17.5 Cal. Cond: 15.7
Ca: 66.4 Mg: 51.8 Na: 33.9 K: 6.3 NH4: 6.7
SO4: 54.8 HCO3: 22.2 Cl: 6.2 NO3: 2.2 F: 2.5
Sum Cations: 165.7 Sum Anions: 87.9 Cations/Anions: 1.88 Tot. P: 11.0
Tot. Al: 151.0 Ext. Al: 39.0 Fe: 140.0 Mn: 10.0 SiO2: 0.50

ID: 2A1-039 Name: PICKET LAKE State: MN Date: 17OCT84
Sample Type: REGULAR Latitude: 48-01'48"N Longitude: 91-50'45"W
Elevation: 418 Surface Temp: 11.2 Stratified: MIXED Site Depth: 2.1
Lake Area: 28 Watershed Area: 3092 WA/LA: 110.0 Hydro Type: DRAINAGE
Residence Time: 0.07 Secchi Depth: 0.9 Turbidity: 2.9 Color: 78
Closed pH: 6.33 Equil. pH: 6.88 ANC: 71.0 DOC: 11.80
Closed DIC: 1.01 Equil. DIC: 0.57 Meas. Cond: 21.0 Cal. Cond: 21.0
Ca: 91.8 Mg: 67.5 Na: 40.0 K: 8.9 NH4: 0.0
SO4: 72.7 HCO3: 38.0 Cl: 18.6 NO3: 1.0 F: 2.9
Sum Cations: 208.7 Sum Anions: 133.1 Cations/Anions: 1.57 Tot. P: 15.0
Tot. Al: 198.0 Ext. Al: 49.0 Fe: 180.0 Mn: 0.0 SiO2: 0.87

(continued)

TABLE 3-1 (continued)

ID: 2A1-040 Name: RICE LAKE State: MN Date: 22OCT84
Sample Type: REGULAR Latitude: 48-01'20"N Longitude: 91-58'20"W
Elevation: 450 Surface Temp: 5.6 Stratified: MIXED Site Depth: 0.9
Lake Area: 47 Watershed Area: 192 WA/LA: 4.1 Hydro Type: DRAINAGE
Residence Time: 0.36 Secchi Depth: 0.9 Turbidity: 1.1 Color: 28
Closed pH: 6.48 Equil. pH: 6.84 ANC: 60.0 DOC: 7.30
Closed DIC: 0.90 Equil. DIC: 0.65 Meas. Cond: 17.6 Cal. Cond: 16.6
Ca: 67.9 Mg: 51.0 Na: 33.9 K: 8.1 NH4: 2.8
SO4: 57.3 HCO3: 41.7 Cl: 7.9 NO3: 0.4 F: 2.6
Sum Cations: 164.0 Sum Anions: 109.9 Cations/Anions: 1.49 Tot. P: 9.0
Tot. Al: 36.0 Ext. Al: 3.0 Fe: 50.0 Mn: 0.0 SiO2: 0.00

ID: 2A1-041 Name: TEE LAKE State: MN Date: 22OCT84
Sample Type: REGULAR Latitude: 48-00'00"N Longitude: 91-52'45"W
Elevation: 439 Surface Temp: 8.2 Stratified: MIXED Site Depth: 5.5
Lake Area: 15 Watershed Area: 357 WA/LA: 23.2 Hydro Type: DRAINAGE
Residence Time: 0.71 Secchi Depth: 1.1 Turbidity: 0.9 Color: 108
Closed pH: 6.14 Equil. pH: 6.54 ANC: 68.0 DOC: 12.90
Closed DIC: 0.85 Equil. DIC: 0.38 Meas. Cond: 20.1 Cal. Cond: 17.8
Ca: 86.8 Mg: 68.3 Na: 33.9 K: 9.3 NH4: 0.6
SO4: 56.6 HCO3: 25.5 Cl: 6.5 NO3: 0.3 F: 2.9
Sum Cations: 199.6 Sum Anions: 91.9 Cations/Anions: 2.17 Tot. P: 14.0
Tot. Al: 269.0 Ext. Al: 73.0 Fe: 260.0 Mn: 10.0 SiO2: 1.47

ID: 2A1-042 Name: SCHLAMM LAKE State: MN Date: 17OCT84
Sample Type: REGULAR Latitude: 47-57'10"N Longitude: 92-08'15"W
Elevation: 450 Surface Temp: 11.1 Stratified: MIXED Site Depth: 1.5
Lake Area: 25 Watershed Area: 847 WA/LA: 33.5 Hydro Type: DRAINAGE
Residence Time: 0.14 Secchi Depth: 0.6 Turbidity: 1.8 Color: 130
Closed pH: 6.13 Equil. pH: 6.51 ANC: 63.0 DOC: 14.20
Closed DIC: 0.65 Equil. DIC: 0.31 Meas. Cond: 17.3 Cal. Cond: 18.2
Ca: 77.3 Mg: 47.7 Na: 41.8 K: 6.1 NH4: 0.0
SO4: 75.0 HCO3: 19.0 Cl: 10.2 NO3: 5.5 F: 4.5
Sum Cations: 173.7 Sum Anions: 114.1 Cations/Anions: 1.52 Tot. P: 18.0
Tot. Al: 272.0 Ext. Al: 109.0 Fe: 390.0 Mn: 0.0 SiO2: 1.15

ID: 2A1-043 Name: LITTLE CRAB LAKE State: MN Date: 16OCT84
Sample Type: REGULAR Latitude: 47-57'20"N Longitude: 92-04'30"W
Elevation: 446 Surface Temp: 11.9 Stratified: MIXED Site Depth: 4.3
Lake Area: 24 Watershed Area: 2163 WA/LA: 91.6 Hydro Type: DRAINAGE
Residence Time: 0.16 Secchi Depth: 0.7 Turbidity: 2.1 Color: 100
Closed pH: 6.19 Equil. pH: 6.77 ANC: 54.0 DOC: 11.10
Closed DIC: 0.87 Equil. DIC: 0.43 Meas. Cond: 17.8 Cal. Cond: 15.6
Ca: 75.8 Mg: 49.4 Na: 36.1 K: 7.9 NH4: 0.6
SO4: 52.5 HCO3: 24.9 Cl: 3.4 NO3: 1.0 F: 4.2
Sum Cations: 170.3 Sum Anions: 85.9 Cations/Anions: 1.98 Tot. P: 13.0
Tot. Al: 176.0 Ext. Al: 58.0 Fe: 320.0 Mn: 0.0 SiO2: 1.25

ID: 2A1-044 Name: CUMMINGS LAKE State: MN Date: 22OCT84
Sample Type: REGULAR Latitude: 47-59'30"N Longitude: 92-05'00"W
Elevation: 443 Surface Temp: 9.9 Stratified: MIXED Site Depth: 9.1
Lake Area: 681 Watershed Area: 3693 WA/LA: 5.4 Hydro Type: DRAINAGE
Residence Time: 3.13 Secchi Depth: 1.9 Turbidity: 1.6 Color: 50
Closed pH: 6.50 Equil. pH: 6.83 ANC: 81.0 DOC: 7.60
Closed DIC: 0.99 Equil. DIC: 0.74 Meas. Cond: 20.3 Cal. Cond: 19.1
Ca: 85.3 Mg: 57.6 Na: 37.8 K: 11.7 NH4: 1.7
SO4: 60.2 HCO3: 51.7 Cl: 7.9 NO3: 1.3 F: 3.7
Sum Cations: 194.3 Sum Anions: 124.8 Cations/Anions: 1.56 Tot. P: 8.0
Tot. Al: 70.0 Ext. Al: 5.0 Fe: 190.0 Mn: 0.0 SiO2: 2.24

(continued)

TABLE 3-1 (continued)

ID: 2A1-045 Name: SLIM LAKE State: MN Date: 18OCT84
Sample Type: REGULAR Latitude: 48-17'40"N Longitude: 92-15'00"W
Elevation: 373 Surface Temp: 11.3 Stratified: WEAK Site Depth: 11.0
Lake Area: 54 Watershed Area: 627 WA/LA: 11.6 Hydro Type: DRAINAGE
Residence Time: 2.47 Secchi Depth: 1.6 Turbidity: 0.8 Color: 44
Closed pH: 6.58 Equil. pH: 7.17 ANC: 93.0 DOC: 8.70
Closed DIC: 1.25 Equil. DIC: 0.84 Meas. Cond: 22.5 Cal. Cond: 21.4
Ca: 91.3 Mg: 74.0 Na: 34.8 K: 12.0 NH4: 0.0
SO4: 68.3 HCO3: 65.7 Cl: 10.4 NO3: 0.0 F: 1.9
Sum Cations: 212.4 Sum Anions: 146.4 Cations/Anions: 1.45 Tot. P: 1.0
Tot. Al: 96.0 Ext. Al: 12.0 Fe: 60.0 Mn: 0.0 SiO2: 1.32

ID: 2A1-046 Name: (NO NAME) State: MN Date: 18OCT84
Sample Type: REGULAR Latitude: 48-15'40"N Longitude: 92-09'50"W
Elevation: 384 Surface Temp: 9.5 Stratified: MIXED Site Depth: 0.9
Lake Area: 13 Watershed Area: 614 WA/LA: 47.6 Hydro Type: DRAINAGE
Residence Time: 0.06 Secchi Depth: 0.9 Turbidity: 1.0 Color: 33
Closed pH: 6.73 Equil. pH: 7.26 ANC: 119.0 DOC: 8.50
Closed DIC: 1.63 Equil. DIC: 1.13 Meas. Cond: 23.8 Cal. Cond: 22.9
Ca: 92.8 Mg: 74.0 Na: 42.6 K: 13.6 NH4: 0.0
SO4: 65.2 HCO3: 85.7 Cl: 13.8 NO3: 0.0 F: 2.1
Sum Cations: 223.3 Sum Anions: 166.8 Cations/Anions: 1.34 Tot. P: 9.0
Tot. Al: 48.0 Ext. Al: 5.0 Fe: 40.0 Mn: 0.0 SiO2: 0.47

ID: 2A1-047 Name: ANGLEWORM LAKE State: MN Date: 30OCT84
Sample Type: REGULAR Latitude: 48-05'15"N Longitude: 91-53'20"W
Elevation: 433 Surface Temp: 5.0 Stratified: MIXED Site Depth: 2.7
Lake Area: 56 Watershed Area: 692 WA/LA: 12.4 Hydro Type: DRAINAGE
Residence Time: 0.56 Secchi Depth: 1.3 Turbidity: 2.1 Color: 73
Closed pH: 6.47 Equil. pH: 6.87 ANC: 71.5 DOC: 9.15
Closed DIC: 0.76 Equil. DIC: 0.57 Meas. Cond: 18.6 Cal. Cond: 16.4
Ca: 75.1 Mg: 54.7 Na: 37.0 K: 7.5 NH4: 0.6
SO4: 54.5 HCO3: 31.3 Cl: 5.6 NO3: 0.6 F: 2.8
Sum Cations: 175.3 Sum Anions: 94.9 Cations/Anions: 1.85 Tot. P: 20.5
Tot. Al: 157.0 Ext. Al: 24.0 Fe: 305.0 Mn: 0.0 SiO2: 5.09

ID: 2A1-048 Name: BIG RICE LAKE State: MN Date: 17OCT84
Sample Type: REGULAR Latitude: 48-01'45"N Longitude: 92-01'30"W
Elevation: 434 Surface Temp: 10.2 Stratified: MIXED Site Depth: 0.9
Lake Area: 161 Watershed Area: 1313 WA/LA: 8.1 Hydro Type: DRAINAGE
Residence Time: 0.25 Secchi Depth: 0.5 Turbidity: 19.0 Color: 115
Closed pH: 6.12 Equil. pH: 6.47 ANC: 52.0 DOC: 13.00
Closed DIC: 0.48 Equil. DIC: 0.24 Meas. Cond: 17.2 Cal. Cond: 14.9
Ca: 70.4 Mg: 43.6 Na: 37.4 K: 8.2 NH4: 0.0
SO4: 49.1 HCO3: 14.8 Cl: 9.0 NO3: 2.3 F: 4.1
Sum Cations: 160.4 Sum Anions: 79.3 Cations/Anions: 2.02 Tot. P: 38.0
Tot. Al: 514.0 Ext. Al: 51.0 Fe: 210.0 Mn: 10.0 SiO2: 0.32

ID: 2A1-049 Name: PINE LAKE State: MN Date: 17OCT84
Sample Type: REGULAR Latitude: 47-56'15"N Longitude: 92-15'00"W
Elevation: 426 Surface Temp: 11.8 Stratified: MIXED Site Depth: 3.9
Lake Area: 332 Watershed Area: 4281 WA/LA: 12.9 Hydro Type: DRAINAGE
Residence Time: 0.79 Secchi Depth: 0.9 Turbidity: 2.9 Color: 75
Closed pH: 6.81 Equil. pH: 7.24 ANC: 125.0 DOC: 10.30
Closed DIC: 1.36 Equil. DIC: 0.98 Meas. Cond: 24.7 Cal. Cond: 24.2
Ca: 114.8 Mg: 70.7 Na: 46.1 K: 10.7 NH4: 0.0
SO4: 75.4 HCO3: 75.5 Cl: 10.4 NO3: 1.7 F: 3.3
Sum Cations: 242.5 Sum Anions: 166.4 Cations/Anions: 1.46 Tot. P: 19.0
Tot. Al: 122.0 Ext. Al: 15.0 Fe: 200.0 Mn: 0.0 SiO2: 3.37

(continued)

TABLE 3-1 (continued)

ID: 2A1-050 Name: BARTO LAKE State: MN Date: 24OCT84
Sample Type: REGULAR Latitude: 47-54'45"N Longitude: 90-57'30"W
Elevation: 566 Surface Temp: 6.8 Stratified: MIXED Site Depth: 5.5
Lake Area: 41 Watershed Area: 471 WA/LA: 11.4 Hydro Type: DRAINAGE
Residence Time: 0.74 Secchi Depth: 1.6 Turbidity: 1.6 Color: 53
Closed pH: 6.76 Equil. pH: 7.21 ANC: 95.9 DOC: 6.90
Closed DIC: 1.34 Equil. DIC: 1.04 Meas. Cond: 19.7 Cal. Cond: 17.9
Ca: 92.8 Mg: 60.0 Na: 34.4 K: 5.2 NH4: 2.8
SO4: 37.9 HCO3: 67.9 Cl: 5.9 NO3: 1.1 F: 4.3
Sum Cations: 195.4 Sum Anions: 117.1 Cations/Anions: 1.67 Tot. P: 12.0
Tot. Al: 55.0 Ext. Al: 8.0 Fe: 210.0 Mn: 0.0 SiO2: 3.52

ID: 2A1-051 Name: SHELL LAKE State: MN Date: 30OCT84
Sample Type: REGULAR Latitude: 48-12'15"N Longitude: 92-12'30"W
Elevation: 384 Surface Temp: 4.6 Stratified: MIXED Site Depth: 4.3
Lake Area: 195 Watershed Area: 2818 WA/LA: 14.4 Hydro Type: DRAINAGE
Residence Time: 0.82 Secchi Depth: 1.4 Turbidity: 2.2 Color: 55
Closed pH: 6.85 Equil. pH: 7.20 ANC: 123.0 DOC: 9.80
Closed DIC: 1.39 Equil. DIC: 1.18 Meas. Cond: 25.3 Cal. Cond: 24.1
Ca: 113.8 Mg: 80.6 Na: 43.1 K: 12.0 NH4: 0.6
SO4: 64.1 HCO3: 80.2 Cl: 11.8 NO3: 1.9 F: 3.7
Sum Cations: 250.2 Sum Anions: 161.7 Cations/Anions: 1.55 Tot. P: 19.0
Tot. Al: 91.0 Ext. Al: 12.0 Fe: 50.0 Mn: 0.0 SiO2: 2.48

ID: 2A1-053 Name: OLE LAKE State: MN Date: 16OCT84
Sample Type: REGULAR Latitude: 47-58'37"N Longitude: 92-01'45"W
Elevation: 450 Surface Temp: 12.2 Stratified: MIXED Site Depth: 4.9
Lake Area: 21 Watershed Area: 365 WA/LA: 17.3 Hydro Type: DRAINAGE
Residence Time: 0.80 Secchi Depth: 0.7 Turbidity: 1.8 Color: 110
Closed pH: 6.06 Equil. pH: 6.51 ANC: 55.0 DOC: 1.10
Closed DIC: 0.81 Equil. DIC: 0.27 Meas. Cond: 19.6 Cal. Cond: 17.7
Ca: 74.4 Mg: 54.3 Na: 38.3 K: 9.2 NH4: 0.6
SO4: 72.2 HCO3: 20.2 Cl: 5.1 NO3: 3.0 F: 3.8
Sum Cations: 177.5 Sum Anions: 104.3 Cations/Anions: 1.70 Tot. P: 22.0
Tot. Al: 251.0 Ext. Al: 85.0 Fe: 330.0 Mn: 10.0 SiO2: 2.32

ID: 2A1-054 Name: GUN LAKE State: MN Date: 18OCT84
Sample Type: REGULAR Latitude: 48-19'34"N Longitude: 92-12'05"W
Elevation: 375 Surface Temp: 11.6 Stratified: STRONG Site Depth: 36.6
Lake Area: 74 Watershed Area: 334 WA/LA: 4.5 Hydro Type: DRAINAGE
Residence Time: 14.65 Secchi Depth: 5.4 Turbidity: 0.3 Color: 8
Closed pH: 6.95 Equil. pH: 7.48 ANC: 75.0 DOC: 4.10
Closed DIC: 1.01 Equil. DIC: 0.93 Meas. Cond: 21.8 Cal. Cond: 21.9
Ca: 85.3 Mg: 63.3 Na: 34.8 K: 10.5 NH4: 0.6
SO4: 84.9 HCO3: 65.7 Cl: 13.8 NO3: 0.0 F: 1.8
Sum Cations: 194.7 Sum Anions: 166.3 Cations/Anions: 1.17 Tot. P: 0.0
Tot. Al: 28.0 Ext. Al: 4.0 Fe: 20.0 Mn: 0.0 SiO2: 0.73

ID: 2A1-055 Name: SUNFISH LAKE State: MN Date: 01NOV84
Sample Type: REGULAR Latitude: 47-59'30"N Longitude: 90-09'15"W
Elevation: 570 Surface Temp: 3.5 Stratified: MIXED Site Depth: 5.5
Lake Area: 33 Watershed Area: 117 WA/LA: 3.5 Hydro Type: DRAINAGE
Residence Time: 1.75 Secchi Depth: 3.1 Turbidity: 0.5 Color: 13
Closed pH: 7.07 Equil. pH: 7.23 ANC: 165.5 DOC: 4.60
Closed DIC: 1.96 Equil. DIC: 1.77 Meas. Cond: 27.3 Cal. Cond: 27.4
Ca: 130.2 Mg: 77.3 Na: 36.1 K: 6.9 NH4: 2.2
SO4: 70.2 HCO3: 135.3 Cl: 11.3 NO3: 0.2 F: 10.1
Sum Cations: 252.9 Sum Anions: 227.3 Cations/Anions: 1.11 Tot. P: 12.0
Tot. Al: 283.0 Ext. Al: 2.0 Fe: 30.0 Mn: 0.0 SiO2: 1.61

(continued)

TABLE 3-1 (continued)

ID: 2A1-056 Name: LONGLEG LAKE State: MN Date: 24OCT84
Sample Type: REGULAR Latitude: 47-54'50"N Longitude: 90-56'37"W
Elevation: 588 Surface Temp: 4.6 Stratified: MIXED Site Depth: 1.5
Lake Area: 12 Watershed Area: 54 WA/LA: 4.6 Hydro Type: DRAINAGE
Residence Time: 0.41 Secchi Depth: 0.4 Turbidity: 0.7 Color: 66
Closed pH: 6.38 Equil. pH: 7.04 ANC: 135.0 DOC: 7.70
Closed DIC: 2.03 Equil. DIC: 1.03 Meas. Cond: 19.1 Cal. Cond: 18.0
Ca: 74.8 Mg: 63.3 Na: 41.3 K: 4.3 NH4: 5.5
SO4: 33.7 HCO3: 75.5 Cl: 5.6 NO3: 8.8 F: 2.6
Sum Cations: 189.9 Sum Anions: 126.3 Cations/Anions: 1.50 Tot. P: 18.0
Tot. Al: 77.0 Ext. Al: 21.0 Fe: 100.0 Mn: 0.0 SiO2: 1.16

ID: 2A1-057 Name: HOOK LAKE State: MN Date: 22OCT84
Sample Type: REGULAR Latitude: 48-01'12"N Longitude: 91-59'15"W
Elevation: 454 Surface Temp: 8.4 Stratified: MIXED Site Depth: 4.0
Lake Area: 34 Watershed Area: 443 WA/LA: 13.2 Hydro Type: DRAINAGE
Residence Time: 0.79 Secchi Depth: 2.1 Turbidity: 0.9 Color: 34
Closed pH: 6.23 Equil. pH: 6.58 ANC: 42.0 DOC: 6.80
Closed DIC: 0.77 Equil. DIC: 0.42 Meas. Cond: 15.2 Cal. Cond: 13.9
Ca: 55.4 Mg: 46.1 Na: 29.1 K: 8.3 NH4: 0.0
SO4: 52.3 HCO3: 24.5 Cl: 6.2 NO3: 0.0 F: 2.8
Sum Cations: 139.4 Sum Anions: 85.8 Cations/Anions: 1.63 Tot. P: 12.0
Tot. Al: 86.0 Ext. Al: 14.0 Fe: 130.0 Mn: 0.0 SiO2: 1.34

ID: 2A1-059 Name: BOOTLEG LAKE State: MN Date: 17OCT84
Sample Type: REGULAR Latitude: 48-02'30"N Longitude: 92-11'50"W
Elevation: 426 Surface Temp: 11.7 Stratified: MIXED Site Depth: 6.7
Lake Area: 138 Watershed Area: 1214 WA/LA: 8.8 Hydro Type: DRAINAGE
Residence Time: 1.76 Secchi Depth: 1.8 Turbidity: 1.0 Color: 44
Closed pH: 6.77 Equil. pH: 7.10 ANC: 63.0 DOC: 8.50
Closed DIC: 1.13 Equil. DIC: 0.89 Meas. Cond: 21.5 Cal. Cond: 20.3
Ca: 103.8 Mg: 54.3 Na: 40.0 K: 7.9 NH4: 0.0
SO4: 62.9 HCO3: 62.1 Cl: 8.2 NO3: 0.0 F: 3.3
Sum Cations: 206.2 Sum Anions: 136.5 Cations/Anions: 1.51 Tot. P: 7.0
Tot. Al: 45.0 Ext. Al: 12.0 Fe: 60.0 Mn: 0.0 SiO2: 1.46

ID: 2A1-060 Name: MULE LAKE State: MN Date: 18OCT84
Sample Type: REGULAR Latitude: 48-08'15"N Longitude: 92-02'15"W
Elevation: 411 Surface Temp: 10.7 Stratified: MIXED Site Depth: 2.4
Lake Area: 22 Watershed Area: 448 WA/LA: 20.5 Hydro Type: DRAINAGE
Residence Time: 0.34 Secchi Depth: 1.1 Turbidity: 1.4 Color: 71
Closed pH: 6.47 Equil. pH: 7.03 ANC: 82.0 DOC: 12.20
Closed DIC: 1.02 Equil. DIC: 0.62 Meas. Cond: 18.9 Cal. Cond: 17.3
Ca: 82.3 Mg: 58.4 Na: 33.9 K: 9.2 NH4: 0.6
SO4: 50.8 HCO3: 42.0 Cl: 9.6 NO3: 0.2 F: 1.8
Sum Cations: 184.8 Sum Anions: 104.4 Cations/Anions: 1.77 Tot. P: 15.0
Tot. Al: 96.0 Ext. Al: 22.0 Fe: 60.0 Mn: 0.0 SiO2: 0.29

ID: 2A2-001 Name: SEAL LAKE State: MN Date: 29OCT84
Sample Type: REGULAR Latitude: 48-02'15"N Longitude: 90-43'13"W
Elevation: 552 Surface Temp: 5.6 Stratified: MIXED Site Depth: 4.9
Lake Area: 11 Watershed Area: 246 WA/LA: 22.8 Hydro Type: DRAINAGE
Residence Time: 0.36 Secchi Depth: 1.6 Turbidity: 4.1 Color: 87
Closed pH: 6.98 Equil. pH: 7.57 ANC: 194.0 DOC: 9.70
Closed DIC: 2.19 Equil. DIC: 1.83 Meas. Cond: 32.8 Cal. Cond: 32.6
Ca: 141.2 Mg: 142.3 Na: 51.3 K: 5.6 NH4: 3.3
SO4: 72.9 HCO3: 142.6 Cl: 10.7 NO3: 3.7 F: 1.7
Sum Cations: 343.9 Sum Anions: 231.7 Cations/Anions: 1.48 Tot. P: 17.0
Tot. Al: 77.0 Ext. Al: 13.0 Fe: 490.0 Mn: 0.0 SiO2: 8.03

(continued)

TABLE 3-1 (continued)

ID: 2A2-002 Name: BENCH LAKE State: MN Date: 29OCT84
Sample Type: REGULAR Latitude: 48-03'20"N Longitude: 90-14'15"W
Elevation: 524 Surface Temp: 4.9 Stratified: MIXED Site Depth: 3.6
Lake Area: 11 Watershed Area: 47 WA/LA: 4.3 Hydro Type: DRAINAGE
Residence Time: 1.02 Secchi Depth: 2.0 Turbidity: 1.2 Color: 16
Closed pH: 7.39 Equil. pH: 7.65 ANC: 348.0 DOC: 4.90
Closed DIC: 3.88 Equil. DIC: 3.64 Meas. Cond: 41.1 Cal. Cond: 41.2
Ca: 186.6 Mg: 148.9 Na: 52.2 K: 13.8 NH4: 10.5
SO4: 57.3 HCO3: 280.9 Cl: 6.8 NO3: 0.0 F: 1.9
Sum Cations: 412.1 Sum Anions: 347.5 Cations/Anions: 1.19 Tot. P: 17.0
Tot. Al: 13.0 Ext. Al: 1.0 Fe: 30.0 Mn: 0.0 SiO2: 1.89

ID: 2A2-003 Name: FUN LAKE State: MN Date: 29OCT84
Sample Type: REGULAR Latitude: 48-00'10"N Longitude: 90-44'20"W
Elevation: 546 Surface Temp: 5.0 Stratified: MIXED Site Depth: 5.2
Lake Area: 8 Watershed Area: 223 WA/LA: 29.7 Hydro Type: DRAINAGE
Residence Time: 0.30 Secchi Depth: 1.3 Turbidity: 2.3 Color: 105
Closed pH: 6.67 Equil. pH: 7.39 ANC: 149.0 DOC: 11.90
Closed DIC: 1.82 Equil. DIC: 1.19 Meas. Cond: 29.7 Cal. Cond: 29.5
Ca: 119.8 Mg: 124.2 Na: 42.2 K: 9.2 NH4: 5.0
SO4: 92.9 HCO3: 86.3 Cl: 11.8 NO3: 4.1 F: 1.3
Sum Cations: 300.6 Sum Anions: 196.4 Cations/Anions: 1.53 Tot. P: 18.0
Tot. Al: 131.0 Ext. Al: 34.0 Fe: 310.0 Mn: 0.0 SiO2: 5.37

ID: 2A2-004 Name: HUMPBACK LAKE State: MN Date: 23OCT84
Sample Type: REGULAR Latitude: 47-59'10"N Longitude: 91-05'50"W
Elevation: 490 Surface Temp: 8.0 Stratified: MIXED Site Depth: 12.2
Lake Area: 9 Watershed Area: 52 WA/LA: 5.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.3 Turbidity: 0.5 Color: 19
Closed pH: 6.79 Equil. pH: 7.47 ANC: 157.0 DOC: 4.80
Closed DIC: 2.41 Equil. DIC: 1.80 Meas. Cond: 24.1 Cal. Cond: 25.1
Ca: 143.2 Mg: 49.4 Na: 37.4 K: 4.7 NH4: 3.3
SO4: 55.8 HCO3: 143.9 Cl: 7.1 NO3: 0.2 F: 0.7
Sum Cations: 238.1 Sum Anions: 207.8 Cations/Anions: 1.15 Tot. P: 1.0
Tot. Al: 25.0 Ext. Al: 4.0 Fe: 40.0 Mn: 10.0 SiO2: 3.75

ID: 2A2-005 Name: SANDPIT LAKE State: MN Date: 17OCT84
Sample Type: REGULAR Latitude: 48-02'20"N Longitude: 91-47'30"W
Elevation: 398 Surface Temp: 11.6 Stratified: MIXED Site Depth: 12.8
Lake Area: 23 Watershed Area: 98 WA/LA: 4.3 Hydro Type: DRAINAGE
Residence Time: 4.92 Secchi Depth: 3.3 Turbidity: 0.4 Color: 20
Closed pH: 7.04 Equil. pH: 7.62 ANC: 196.0 DOC: 5.50
Closed DIC: 2.62 Equil. DIC: 2.16 Meas. Cond: 28.9 Cal. Cond: 28.9
Ca: 128.2 Mg: 91.3 Na: 39.1 K: 18.9 NH4: 0.0
SO4: 60.4 HCO3: 163.4 Cl: 9.9 NO3: 0.5 F: 1.9
Sum Cations: 277.7 Sum Anions: 236.2 Cations/Anions: 1.18 Tot. P: 7.0
Tot. Al: 20.0 Ext. Al: 2.0 Fe: 30.0 Mn: 0.0 SiO2: 1.48

ID: 2A2-007 Name: ROUND LAKE State: MN Date: 17OCT84
Sample Type: REGULAR Latitude: 48-08'40"N Longitude: 91-42'45"W
Elevation: 390 Surface Temp: 11.4 Stratified: MIXED Site Depth: 1.8
Lake Area: 10 Watershed Area: 83 WA/LA: 8.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.1 Turbidity: 1.2 Color: 65
Closed pH: 6.42 Equil. pH: 7.04 ANC: 87.0 DOC: 12.80
Closed DIC: 0.98 Equil. DIC: 0.55 Meas. Cond: 21.0 Cal. Cond: 19.8
Ca: 78.3 Mg: 78.1 Na: 37.4 K: 11.0 NH4: 0.0
SO4: 71.8 HCO3: 36.4 Cl: 8.7 NO3: 0.0 F: 3.3
Sum Cations: 205.3 Sum Anions: 120.2 Cations/Anions: 1.71 Tot. P: 9.0
Tot. Al: 88.0 Ext. Al: 29.0 Fe: 130.0 Mn: 10.0 SiO2: 5.63

(continued)

TABLE 3-1 (continued)

ID: 2A2-008 Name: FINSTAD LAKE State: MN Date: 21OCT84
Sample Type: REGULAR Latitude: 48-05'00"N Longitude: 92-26'35"W
Elevation: 407 Surface Temp: 7.9 Stratified: MIXED Site Depth: 2.1
Lake Area: 29 Watershed Area: 246 WA/LA: 8.5 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 1.3 Turbidity: 1.4 Color: 57
Closed pH: 6.63 Equil. pH: 7.08 ANC: 98.6 DOC: 17.00
Closed DIC: 1.09 Equil. DIC: 0.72 Meas. Cond: 19.0 Cal. Cond: 19.4
Ca: 97.3 Mg: 71.6 Na: 37.4 K: 8.4 NH4: 0.0
SO4: 53.3 HCO3: 55.3 Cl: 4.5 NO3: 1.2 F: 1.9
Sum Cations: 214.9 Sum Anions: 116.3 Cations/Anions: 1.85 Tot. P: 16.0
Tot. Al: 80.0 Ext. Al: 27.0 Fe: 70.0 Mn: 0.0 SiO2: 0.52

ID: 2A2-009 Name: PEAR LAKE State: MN Date: 23OCT84
Sample Type: REGULAR Latitude: 48-04'10"N Longitude: 91-07'10"W
Elevation: 488 Surface Temp: 8.5 Stratified: MIXED Site Depth: 9.4
Lake Area: 11 Watershed Area: 28 WA/LA: 2.6 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 2.9 Turbidity: 0.6 Color: 35
Closed pH: 7.07 Equil. pH: 7.95 ANC: 379.0 DOC: 7.70
Closed DIC: 4.98 Equil. DIC: 4.03 Meas. Cond: 52.5 Cal. Cond: 53.2
Ca: 391.2 Mg: 78.1 Na: 39.1 K: 9.8 NH4: 0.6
SO4: 91.4 HCO3: 334.4 Cl: 8.5 NO3: 0.8 F: 1.3
Sum Cations: 519.0 Sum Anions: 436.9 Cations/Anions: 1.19 Tot. P: 12.0
Tot. Al: 34.0 Ext. Al: 5.0 Fe: 20.0 Mn: 0.0 SiO2: 3.14

ID: 2A2-010 Name: SEAHORSE LAKE State: MN Date: 24OCT84
Sample Type: REGULAR Latitude: 48-04'33"N Longitude: 90-56'55"W
Elevation: 513 Surface Temp: 7.0 Stratified: MIXED Site Depth: 11.6
Lake Area: 11 Watershed Area: 1370 WA/LA: 122.3 Hydro Type: DRAINAGE
Residence Time: 0.17 Secchi Depth: 1.5 Turbidity: 1.5 Color: 52
Closed pH: 6.61 Equil. pH: 7.61 ANC: 190.0 DOC: 8.40
Closed DIC: 3.06 Equil. DIC: 2.06 Meas. Cond: 32.3 Cal. Cond: 32.7
Ca: 173.2 Mg: 111.1 Na: 34.4 K: 6.9 NH4: 3.3
SO4: 67.9 HCO3: 174.3 Cl: 9.3 NO3: 0.5 F: 1.2
Sum Cations: 329.0 Sum Anions: 253.2 Cations/Anions: 1.30 Tot. P: 16.0
Tot. Al: 40.0 Ext. Al: 9.0 Fe: 130.0 Mn: 20.0 SiO2: 2.77

ID: 2A2-011 Name: BURT LAKE State: MN Date: 29OCT84
Sample Type: REGULAR Latitude: 48-00'35"N Longitude: 90-48'35"W
Elevation: 549 Surface Temp: 5.0 Stratified: MIXED Site Depth: 5.5
Lake Area: 17 Watershed Area: 60 WA/LA: 3.5 Hydro Type: DRAINAGE
Residence Time: 1.78 Secchi Depth: 2.4 Turbidity: 1.1 Color: 30
Closed pH: 7.10 Equil. pH: 7.61 ANC: 197.0 DOC: 5.30
Closed DIC: 2.66 Equil. DIC: 2.21 Meas. Cond: 29.7 Cal. Cond: 28.7
Ca: 164.7 Mg: 81.4 Na: 29.6 K: 9.2 NH4: 1.7
SO4: 54.3 HCO3: 163.1 Cl: 4.8 NO3: 2.9 F: 1.3
Sum Cations: 286.7 Sum Anions: 226.7 Cations/Anions: 1.26 Tot. P: 44.0
Tot. Al: 20.0 Ext. Al: 3.0 Fe: 120.0 Mn: 0.0 SiO2: 3.75

ID: 2A2-012 Name: BECOOSIN LAKE State: MN Date: 16OCT84
Sample Type: REGULAR Latitude: 47-56'53"N Longitude: 91-23'36"W
Elevation: 460 Surface Temp: 11.8 Stratified: MIXED Site Depth: 4.9
Lake Area: 22 Watershed Area: 212 WA/LA: 9.6 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 1.3 Turbidity: 1.2 Color: 78
Closed pH: 6.89 Equil. pH: 7.44 ANC: 163.0 DOC: 10.20
Closed DIC: 2.41 Equil. DIC: 1.60 Meas. Cond: 30.5 Cal. Cond: 29.8
Ca: 118.3 Mg: 149.7 Na: 44.4 K: 5.6 NH4: 0.0
SO4: 72.0 HCO3: 131.7 Cl: 5.1 NO3: 0.5 F: 1.3
Sum Cations: 318.1 Sum Anions: 210.7 Cations/Anions: 1.51 Tot. P: 15.0
Tot. Al: 47.0 Ext. Al: 11.0 Fe: 310.0 Mn: 0.0 SiO2: 0.63

(continued)

TABLE 3-1 (continued)

ID: 2A2-013 Name: AMBER LAKE State: MN Date: 23OCT84
Sample Type: REGULAR Latitude: 47-57'15"N Longitude: 91-11'00"W
Elevation: 468 Surface Temp: 7.9 Stratified: MIXED Site Depth: 5.5
Lake Area: 50 Watershed Area: 3717 WA/LA: 74.2 Hydro Type: DRAINAGE
Residence Time: 0.13 Secchi Depth: 1.5 Turbidity: 1.3 Color: 57
Closed pH: 7.03 Equil. pH: 7.52 ANC: 156.0 DOC: 9.10
Closed DIC: 1.66 Equil. DIC: 1.41 Meas. Cond: 25.5 Cal. Cond: 24.7
Ca: 130.2 Mg: 90.5 Na: 40.9 K: 6.2 NH4: 0.6
SO4: 49.6 HCO3: 106.6 Cl: 9.6 NO3: 0.2 F: 1.5
Sum Cations: 268.5 Sum Anions: 167.5 Cations/Anions: 1.60 Tot. P: 13.0
Tot. Al: 43.0 Ext. Al: 4.0 Fe: 140.0 Mn: 0.0 SiO2: 2.17

ID: 2A2-014 Name: POE LAKE State: MN Date: 24OCT84
Sample Type: REGULAR Latitude: 47-57'15"N Longitude: 90-57'15"W
Elevation: 543 Surface Temp: 7.4 Stratified: MIXED Site Depth: 10.7
Lake Area: 15 Watershed Area: 1189 WA/LA: 81.4 Hydro Type: DRAINAGE
Residence Time: 0.23 Secchi Depth: 2.1 Turbidity: 0.7 Color: 34
Closed pH: 6.43 Equil. pH: 7.26 ANC: 89.0 DOC: 5.10
Closed DIC: 1.71 Equil. DIC: 1.03 Meas. Cond: 17.0 Cal. Cond: 16.3
Ca: 79.8 Mg: 48.5 Na: 27.4 K: 4.0 NH4: 2.8
SO4: 37.9 HCO3: 71.8 Cl: 6.2 NO3: 1.6 F: 2.6
Sum Cations: 163.0 Sum Anions: 120.1 Cations/Anions: 1.36 Tot. P: 0.0
Tot. Al: 38.0 Ext. Al: 8.0 Fe: 80.0 Mn: 0.0 SiO2: 2.31

ID: 2A2-015 Name: FAMINE LAKE State: MN Date: 29OCT84
Sample Type: REGULAR Latitude: 47-57'50"N Longitude: 90-43'00"W
Elevation: 594 Surface Temp: 5.7 Stratified: MIXED Site Depth: 8.5
Lake Area: 12 Watershed Area: 93 WA/LA: 7.8 Hydro Type: DRAINAGE
Residence Time: 1.57 Secchi Depth: 1.3 Turbidity: 1.5 Color: 60
Closed pH: 6.58 Equil. pH: 7.24 ANC: 111.0 DOC: 8.80
Closed DIC: 1.58 Equil. DIC: 1.05 Meas. Cond: 24.8 Cal. Cond: 24.1
Ca: 123.3 Mg: 72.4 Na: 34.4 K: 4.6 NH4: 2.2
SO4: 78.9 HCO3: 74.4 Cl: 7.3 NO3: 2.0 F: 6.1
Sum Cations: 237.1 Sum Anions: 168.7 Cations/Anions: 1.41 Tot. P: 24.0
Tot. Al: 104.0 Ext. Al: 28.0 Fe: 110.0 Mn: 0.0 SiO2: 4.18

ID: 2A2-016 Name: VANCE LAKE State: MN Date: 29OCT84
Sample Type: REGULAR Latitude: 47-57'47"N Longitude: 90-35'52"W
Elevation: 594 Surface Temp: 6.2 Stratified: MIXED Site Depth: 10.3
Lake Area: 22 Watershed Area: 135 WA/LA: 6.1 Hydro Type: DRAINAGE
Residence Time: 2.28 Secchi Depth: 2.6 Turbidity: 0.8 Color: 22
Closed pH: 6.80 Equil. pH: 7.35 ANC: 119.0 DOC: 5.80
Closed DIC: 1.38 Equil. DIC: 1.14 Meas. Cond: 25.6 Cal. Cond: 26.2
Ca: 116.8 Mg: 81.4 Na: 31.3 K: 5.6 NH4: 2.8
SO4: 90.6 HCO3: 81.1 Cl: 19.5 NO3: 0.8 F: 4.7
Sum Cations: 238.1 Sum Anions: 196.7 Cations/Anions: 1.21 Tot. P: 6.0
Tot. Al: 26.0 Ext. Al: 5.0 Fe: 20.0 Mn: 0.0 SiO2: 3.89

ID: 2A2-018 Name: WEASEL LAKE State: MN Date: 16OCT84
Sample Type: REGULAR Latitude: 47-53'47"N Longitude: 91-31'00"W
Elevation: 457 Surface Temp: 9.4 Stratified: MIXED Site Depth: 1.8
Lake Area: 8 Watershed Area: 171 WA/LA: 22.8 Hydro Type: DRAINAGE
Residence Time: 0.13 Secchi Depth: 0.6 Turbidity: 0.8 Color: 190
Closed pH: 6.74 Equil. pH: 7.38 ANC: 100.0 DOC: 21.50
Closed DIC: 1.87 Equil. DIC: 1.25 Meas. Cond: 32.6 Cal. Cond: 30.2
Ca: 140.2 Mg: 170.3 Na: 48.3 K: 9.5 NH4: 2.2
SO4: 52.3 HCO3: 95.4 Cl: 9.6 NO3: 3.1 F: 1.7
Sum Cations: 370.6 Sum Anions: 162.2 Cations/Anions: 2.29 Tot. P: 28.0
Tot. Al: 229.0 Ext. Al: 39.0 Fe: 450.0 Mn: 0.0 SiO2: 3.01

(continued)

TABLE 3-1 (continued)

ID: 2A2-019 Name: WHIP LAKE State: MN Date: 29OCT84
Sample Type: REGULAR Latitude: 47-55'10"N Longitude: 90-41'45"W
Elevation: 564 Surface Temp: 4.0 Stratified: MIXED Site Depth: 1.8
Lake Area: 13 Watershed Area: 60 WA/LA: 4.5 Hydro Type: DRAINAGE
Residence Time: 0.50 Secchi Depth: 0.9 Turbidity: 0.9 Color: 135
Closed pH: 6.29 Equil. pH: 6.86 ANC: 85.0 DOC: 13.60
Closed DIC: 0.82 Equil. DIC: 0.43 Meas. Cond: 25.3 Cal. Cond: 23.5
Ca: 99.8 Mg: 109.4 Na: 40.5 K: 6.4 NH4: 1.7
SO4: 83.1 HCO3: 29.6 Cl: 7.9 NO3: 4.2 F: 1.7
Sum Cations: 258.3 Sum Anions: 126.5 Cations/Anions: 2.04 Tot. P: 18.0
Tot. Al: 176.0 Ext. Al: 62.0 Fe: 350.0 Mn: 0.0 SiO2: 7.46

ID: 2A2-020 Name: BALL CLUB LAKE State: MN Date: 01NOV84
Sample Type: REGULAR Latitude: 47-54'46"N Longitude: 90-29'37"W
Elevation: 587 Surface Temp: 3.7 Stratified: MIXED Site Depth: 4.8
Lake Area: 75 Watershed Area: 342 WA/LA: 4.6 Hydro Type: DRAINAGE
Residence Time: 1.30 Secchi Depth: 3.6 Turbidity: 0.8 Color: 30
Closed pH: 7.01 Equil. pH: 7.50 ANC: 147.0 DOC: 5.30
Closed DIC: 1.89 Equil. DIC: 1.63 Meas. Cond: 30.0 Cal. Cond: 29.9
Ca: 141.7 Mg: 95.4 Na: 32.2 K: 6.4 NH4: 2.8
SO4: 96.8 HCO3: 117.1 Cl: 7.9 NO3: 4.5 F: 3.8
Sum Cations: 278.6 Sum Anions: 230.3 Cations/Anions: 1.21 Tot. P: 16.0
Tot. Al: 26.0 Ext. Al: 0.0 Fe: 180.0 Mn: 10.0 SiO2: 4.80

ID: 2A2-022 Name: PHOSPOR LAKE State: MN Date: 16OCT84
Sample Type: REGULAR Latitude: 47-50'07"N Longitude: 91-29'07"W
Elevation: 470 Surface Temp: 12.4 Stratified: MIXED Site Depth: 4.9
Lake Area: 14 Watershed Area: 57 WA/LA: 4.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.6 Turbidity: 0.8 Color: 50
Closed pH: 6.99 Equil. pH: 7.44 ANC: 173.0 DOC: 9.80
Closed DIC: 2.09 Equil. DIC: 1.72 Meas. Cond: 29.1 Cal. Cond: 27.8
Ca: 141.7 Mg: 105.3 Na: 30.9 K: 6.9 NH4: 0.0
SO4: 62.7 HCO3: 134.4 Cl: 7.3 NO3: 1.3 F: 1.2
Sum Cations: 284.9 Sum Anions: 207.0 Cations/Anions: 1.38 Tot. P: 6.0
Tot. Al: 24.0 Ext. Al: 5.0 Fe: 200.0 Mn: 0.0 SiO2: 0.94

ID: 2A2-023 Name: HORN LAKE State: MN Date: 29OCT84
Sample Type: REGULAR Latitude: 47-51'13"N Longitude: 90-47'37"W
Elevation: 552 Surface Temp: 4.6 Stratified: MIXED Site Depth: 0.9
Lake Area: 14 Watershed Area: 101 WA/LA: 7.2 Hydro Type: DRAINAGE
Residence Time: 0.18 Secchi Depth: 0.9 Turbidity: 1.5 Color: 110
Closed pH: 6.27 Equil. pH: 6.73 ANC: 71.0 DOC: 10.40
Closed DIC: 1.08 Equil. DIC: 0.50 Meas. Cond: 22.2 Cal. Cond: 20.7
Ca: 108.8 Mg: 54.3 Na: 38.7 K: 9.2 NH4: 2.8
SO4: 63.9 HCO3: 34.6 Cl: 7.3 NO3: 4.5 F: 13.7
Sum Cations: 214.3 Sum Anions: 124.1 Cations/Anions: 1.73 Tot. P: 13.0
Tot. Al: 177.0 Ext. Al: 51.0 Fe: 1060.0 Mn: 20.0 SiO2: 4.41

ID: 2A2-026 Name: BAKEKANA LAKE State: MN Date: 23OCT84
Sample Type: REGULAR Latitude: 48-02'55"N Longitude: 91-09'15"W
Elevation: 500 Surface Temp: 7.2 Stratified: MIXED Site Depth: 2.4
Lake Area: 26 Watershed Area: 202 WA/LA: 7.7 Hydro Type: DRAINAGE
Residence Time: 0.45 Secchi Depth: 1.0 Turbidity: 1.3 Color: 65
Closed pH: 6.92 Equil. pH: 7.48 ANC: 156.0 DOC: 10.00
Closed DIC: 1.68 Equil. DIC: 1.47 Meas. Cond: 31.9 Cal. Cond: 30.9
Ca: 177.1 Mg: 85.5 Na: 41.3 K: 11.3 NH4: 1.7
SO4: 90.4 HCO3: 101.6 Cl: 9.3 NO3: 2.4 F: 1.8
Sum Cations: 317.1 Sum Anions: 205.6 Cations/Anions: 1.54 Tot. P: 18.0
Tot. Al: 39.0 Ext. Al: 13.0 Fe: 100.0 Mn: 0.0 SiO2: 3.08

(continued)

TABLE 3-1 (continued)

ID: 2A2-028 Name: OWL LAKE State: MN Date: 24OCT84
Sample Type: REGULAR Latitude: 48-02'25"N Longitude: 90-54'30"W
Elevation: 511 Surface Temp: 8.7 Stratified: MIXED Site Depth: 11.9
Lake Area: 31 Watershed Area: 111 WA/LA: 3.6 Hydro Type: DRAINAGE
Residence Time: 3.78 Secchi Depth: 5.2 Turbidity: 0.5 Color: 25
Closed pH: 7.06 Equil. pH: 7.73 ANC: 207.0 DOC: 5.00
Closed DIC: 2.57 Equil. DIC: 2.08 Meas. Cond: 31.6 Cal. Cond: 33.6
Ca: 125.2 Mg: 151.4 Na: 31.8 K: 5.9 NH4: 0.6
SO4: 72.7 HCO3: 215.0 Cl: 7.3 NO3: 0.3 F: 0.8
Sum Cations: 314.8 Sum Anions: 296.4 Cations/Anions: 1.06 Tot. P: 8.0
Tot. Al: 17.0 Ext. Al: 1.0 Fe: 30.0 Mn: 0.0 SiO2: 4.43

ID: 2A2-029 Name: (NO NAME) State: MN Date: 29OCT84
Sample Type: REGULAR Latitude: 48-02'10"N Longitude: 90-48'10"W
Elevation: 549 Surface Temp: 5.3 Stratified: MIXED Site Depth: 5.5
Lake Area: 5 Watershed Area: 106 WA/LA: 23.6 Hydro Type: DRAINAGE
Residence Time: 0.39 Secchi Depth: 1.5 Turbidity: 2.5 Color: 95
Closed pH: 6.87 Equil. pH: 7.65 ANC: 270.0 DOC: 7.30
Closed DIC: 3.60 Equil. DIC: 2.71 Meas. Cond: 34.9 Cal. Cond: 34.7
Ca: 149.2 Mg: 153.0 Na: 36.1 K: 12.0 NH4: 7.8
SO4: 50.4 HCO3: 215.0 Cl: 6.5 NO3: 3.1 F: 1.5
Sum Cations: 358.2 Sum Anions: 276.6 Cations/Anions: 1.29 Tot. P: 17.0
Tot. Al: 30.0 Ext. Al: 3.0 Fe: 920.0 Mn: 0.0 SiO2: 6.27

ID: 2A2-031 Name: TRAP LAKE State: MN Date: 29OCT84
Sample Type: REGULAR Latitude: 48-01'40"N Longitude: 90-21'45"W
Elevation: 561 Surface Temp: 3.1 Stratified: MIXED Site Depth: 0.9
Lake Area: 25 Watershed Area: 142 WA/LA: 5.8 Hydro Type: DRAINAGE
Residence Time: 0.21 Secchi Depth: 0.9 Turbidity: 1.9 Color: 65
Closed pH: 6.62 Equil. pH: 6.95 ANC: 87.0 DOC: 11.60
Closed DIC: 0.84 Equil. DIC: 0.65 Meas. Cond: 21.3 Cal. Cond: 24.2
Ca: 83.3 Mg: 81.4 Na: 33.5 K: 7.2 NH4: 1.7
SO4: 69.5 HCO3: 38.9 Cl: 65.4 NO3: 0.7 F: 1.7
Sum Cations: 207.5 Sum Anions: 176.3 Cations/Anions: 1.18 Tot. P: 13.0
Tot. Al: 73.0 Ext. Al: 20.0 Fe: 60.0 Mn: 0.0 SiO2: 2.32

ID: 2A2-032 Name: FAULT LAKE State: MN Date: 29OCT84
Sample Type: REGULAR Latitude: 48-02'15"N Longitude: 90-07'30"W
Elevation: 555 Surface Temp: 3.9 Stratified: MIXED Site Depth: 2.7
Lake Area: 23 Watershed Area: 1681 WA/LA: 72.5 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 0.5 Turbidity: 2.2 Color: 145
Closed pH: 6.58 Equil. pH: 7.18 ANC: 133.0 DOC: 16.60
Closed DIC: 1.27 Equil. DIC: 0.89 Meas. Cond: 27.9 Cal. Cond: 26.3
Ca: 120.8 Mg: 116.0 Na: 46.1 K: 11.8 NH4: 1.7
SO4: 70.0 HCO3: 55.8 Cl: 13.5 NO3: 3.8 F: 2.3
Sum Cations: 296.7 Sum Anions: 145.4 Cations/Anions: 2.04 Tot. P: 29.0
Tot. Al: 156.0 Ext. Al: 39.0 Fe: 450.0 Mn: 0.0 SiO2: 6.32

ID: 2A2-033 Name: HOE LAKE State: MN Date: 24OCT84
Sample Type: REGULAR Latitude: 48-01'00"N Longitude: 91-03'45"W
Elevation: 501 Surface Temp: 8.2 Stratified: MIXED Site Depth: 5.8
Lake Area: 19 Watershed Area: 549 WA/LA: 29.4 Hydro Type: DRAINAGE
Residence Time: 0.34 Secchi Depth: 1.4 Turbidity: 1.6 Color: 72
Closed pH: 6.96 Equil. pH: 7.69 ANC: 226.0 DOC: 10.10
Closed DIC: 2.48 Equil. DIC: 2.11 Meas. Cond: 30.5 Cal. Cond: 30.2
Ca: 169.7 Mg: 100.4 Na: 45.2 K: 7.5 NH4: 3.3
SO4: 41.2 HCO3: 172.0 Cl: 5.9 NO3: 2.5 F: 1.2
Sum Cations: 326.2 Sum Anions: 223.0 Cations/Anions: 1.46 Tot. P: 23.0
Tot. Al: 71.0 Ext. Al: 8.0 Fe: 270.0 Mn: 0.0 SiO2: 2.55

(continued)

TABLE 3-1 (continued)

ID: 2A2-034 Name: JAM LAKE State: MN Date: 24OCT84
Sample Type: REGULAR Latitude: 48-01'07"N Longitude: 90-58'00"W
Elevation: 497 Surface Temp: 7.1 Stratified: MIXED Site Depth: 7.0
Lake Area: 5 Watershed Area: 26 WA/LA: 4.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.9 Turbidity: 1.9 Color: 110
Closed pH: 6.75 Equil. pH: 7.58 ANC: 218.0 DOC: 10.60
Closed DIC: 2.77 Equil. DIC: 2.65 Meas. Cond: 31.7 Cal. Cond: 30.8
Ca: 161.7 Mg: 118.5 Na: 47.0 K: 5.2 NH4: 4.4
SO4: 51.8 HCO3: 159.2 Cl: 5.4 NO3: 0.6 F: 1.2
Sum Cations: 336.9 Sum Anions: 218.3 Cations/Anions: 1.54 Tot. P: 16.0
Tot. Al: 108.0 Ext. Al: 17.0 Fe: 390.0 Mn: 0.0 SiO2: 4.16

ID: 2A2-035 Name: KARL LAKE State: MN Date: 29OCT84
Sample Type: REGULAR Latitude: 48-01'15"N Longitude: 90-46'15"W
Elevation: 543 Surface Temp: 6.8 Stratified: MIXED Site Depth: 11.3
Lake Area: 53 Watershed Area: 8260 WA/LA: 155.0 Hydro Type: DRAINAGE
Residence Time: 0.13 Secchi Depth: 2.0 Turbidity: 1.3 Color: 47
Closed pH: 6.68 Equil. pH: 7.33 ANC: 146.5 DOC: 7.45
Closed DIC: 2.05 Equil. DIC: 1.42 Meas. Cond: 28.4 Cal. Cond: 28.3
Ca: 129.5 Mg: 101.2 Na: 38.7 K: 7.9 NH4: 1.7
SO4: 80.4 HCO3: 113.9 Cl: 9.9 NO3: 2.9 F: 1.5
Sum Cations: 279.2 Sum Anions: 208.5 Cations/Anions: 1.34 Tot. P: 8.0
Tot. Al: 47.0 Ext. Al: 9.0 Fe: 155.0 Mn: 20.0 SiO2: 5.84

ID: 2A2-036 Name: FLICKER LAKE State: MN Date: 29OCT84
Sample Type: REGULAR Latitude: 48-01'00"N Longitude: 90-36'40"W
Elevation: 585 Surface Temp: 5.5 Stratified: MIXED Site Depth: 6.7
Lake Area: 11 Watershed Area: 145 WA/LA: 13.3 Hydro Type: DRAINAGE
Residence Time: 0.79 Secchi Depth: 1.3 Turbidity: 1.3 Color: 105
Closed pH: 6.48 Equil. pH: 7.25 ANC: 111.0 DOC: 12.20
Closed DIC: 1.41 Equil. DIC: 0.89 Meas. Cond: 23.4 Cal. Cond: 21.3
Ca: 102.8 Mg: 92.1 Na: 33.5 K: 6.6 NH4: 5.5
SO4: 52.5 HCO3: 58.4 Cl: 6.2 NO3: 3.1 F: 1.4
Sum Cations: 241.0 Sum Anions: 121.5 Cations/Anions: 1.98 Tot. P: 17.0
Tot. Al: 146.0 Ext. Al: 48.0 Fe: 520.0 Mn: 10.0 SiO2: 6.18

ID: 2A2-039 Name: ZENITH LAKE State: MN Date: 24OCT84
Sample Type: REGULAR Latitude: 47-56'50"N Longitude: 90-54'45"W
Elevation: 573 Surface Temp: 6.8 Stratified: MIXED Site Depth: 4.9
Lake Area: 8 Watershed Area: 269 WA/LA: 32.4 Hydro Type: DRAINAGE
Residence Time: 0.26 Secchi Depth: 2.1 Turbidity: 0.9 Color: 29
Closed pH: 6.52 Equil. pH: 7.20 ANC: 75.0 DOC: 4.90
Closed DIC: 1.23 Equil. DIC: 0.82 Meas. Cond: 15.9 Cal. Cond: 15.5
Ca: 69.4 Mg: 46.1 Na: 27.4 K: 3.9 NH4: 3.3
SO4: 42.1 HCO3: 57.3 Cl: 5.6 NO3: 5.5 F: 3.2
Sum Cations: 150.5 Sum Anions: 113.8 Cations/Anions: 1.32 Tot. P: 13.0
Tot. Al: 34.0 Ext. Al: 5.0 Fe: 80.0 Mn: 0.0 SiO2: 0.96

ID: 2A2-040 Name: JAVA LAKE State: MN Date: 23OCT84
Sample Type: REGULAR Latitude: 47-56'00"N Longitude: 90-52'30"W
Elevation: 550 Surface Temp: 7.1 Stratified: MIXED Site Depth: 3.0
Lake Area: 21 Watershed Area: 256 WA/LA: 12.1 Hydro Type: DRAINAGE
Residence Time: 0.39 Secchi Depth: 1.6 Turbidity: 1.2 Color: 49
Closed pH: 6.74 Equil. pH: 7.45 ANC: 141.0 DOC: 6.80
Closed DIC: 2.27 Equil. DIC: 1.61 Meas. Cond: 26.1 Cal. Cond: 26.3
Ca: 107.8 Mg: 121.7 Na: 30.0 K: 4.5 NH4: 2.8
SO4: 64.8 HCO3: 122.5 Cl: 7.3 NO3: 1.7 F: 1.2
Sum Cations: 267.0 Sum Anions: 197.6 Cations/Anions: 1.35 Tot. P: 10.0
Tot. Al: 60.0 Ext. Al: 8.0 Fe: 200.0 Mn: 10.0 SiO2: 2.60

(continued)

TABLE 3-1 (continued)

ID: 2A2-043 Name: HORSESHOE LAKE State: MN Date: 16OCT84
Sample Type: REGULAR Latitude: 47'52'38"N Longitude: 91-25'30"W
Elevation: 458 Surface Temp: 12.1 Stratified: MIXED Site Depth: 3.0
Lake Area: 88 Watershed Area: 1432 WA/LA: 16.3 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 1.4 Turbidity: 1.1 Color: 94
Closed pH: 6.75 Equil. pH: 7.47 ANC: 122.0 DOC: 12.70
Closed DIC: 1.32 Equil. DIC: 0.93 Meas. Cond: 26.4 Cal. Cond: 31.8
Ca: 116.3 Mg: 107.8 Na: 40.9 K: 6.9 NH4: 0.0
SO4: 84.1 HCO3: 75.6 Cl: 84.3 NO3: 0.0 F: 1.0
Sum Cations: 272.0 Sum Anions: 245.1 Cations/Anions: 1.11 Tot. P: 10.0
Tot. Al: 117.0 Ext. Al: 21.0 Fe: 290.0 Mn: 0.0 SiO2: 4.46

ID: 2A2-044 Name: TROUT LAKE State: MN Date: 17OCT84
Sample Type: REGULAR Latitude: 47-57'30"N Longitude: 92-18'45"W
Elevation: 425 Surface Temp: 12.1 Stratified: MIXED Site Depth: 26.8
Lake Area: 2826 Watershed Area: 12872 WA/LA: 4.6 Hydro Type: DRAINAGE
Residence Time: 10.04 Secchi Depth: 2.9 Turbidity: 0.7 Color: 11
Closed pH: 6.98 Equil. pH: 7.46 ANC: 180.0 DOC: 4.50
Closed DIC: 2.23 Equil. DIC: 1.87 Meas. Cond: 29.7 Cal. Cond: 30.8
Ca: 139.7 Mg: 77.3 Na: 40.9 K: 14.3 NH4: 0.0
SO4: 96.6 HCO3: 142.2 Cl: 11.6 NO3: 2.1 F: 2.4
Sum Cations: 272.3 Sum Anions: 255.0 Cations/Anions: 1.07 Tot. P: 1.0
Tot. Al: 28.0 Ext. Al: 3.0 Fe: 0.0 Mn: 0.0 SiO2: 0.53

ID: 2A2-045 Name: SAUNA LAKE State: MN Date: 17OCT84
Sample Type: REGULAR Latitude: 48-08'35"N Longitude: 91-44'37"W
Elevation: 402 Surface Temp: 11.7 Stratified: MIXED Site Depth: 4.6
Lake Area: 14 Watershed Area: 73 WA/LA: 5.3 Hydro Type: DRAINAGE
Residence Time: 1.62 Secchi Depth: 1.6 Turbidity: 1.0 Color: 44
Closed pH: 6.58 Equil. pH: 7.31 ANC: 102.0 DOC: 9.90
Closed DIC: 1.47 Equil. DIC: 0.93 Meas. Cond: 23.3 Cal. Cond: 27.3
Ca: 85.8 Mg: 87.2 Na: 37.4 K: 10.5 NH4: 0.0
SO4: 141.0 HCO3: 63.9 Cl: 8.2 NO3: 0.0 F: 2.4
Sum Cations: 221.2 Sum Anions: 215.4 Cations/Anions: 1.03 Tot. P: 0.0
Tot. Al: 59.0 Ext. Al: 14.0 Fe: 110.0 Mn: 0.0 SiO2: 0.37

ID: 2A2-046 Name: BURNTSIDE LAKE State: MN Date: 16OCT84
Sample Type: REGULAR Latitude: 47-55'45"N Longitude: 92-00'00"W
Elevation: 418 Surface Temp: 12.1 Stratified: STRONG Site Depth: 35.1
Lake Area: 2929 Watershed Area: 12934 WA/LA: 4.4 Hydro Type: DRAINAGE
Residence Time: 13.31 Secchi Depth: 5.0 Turbidity: 0.3 Color: 18
Closed pH: 7.04 Equil. pH: 7.54 ANC: 165.0 DOC: 4.60
Closed DIC: 2.10 Equil. DIC: 1.71 Meas. Cond: 31.0 Cal. Cond: 30.9
Ca: 147.7 Mg: 81.4 Na: 42.6 K: 13.8 NH4: 0.0
SO4: 90.4 HCO3: 131.3 Cl: 18.6 NO3: 0.0 F: 2.5
Sum Cations: 285.7 Sum Anions: 243.0 Cations/Anions: 1.18 Tot. P: 6.0
Tot. Al: 13.0 Ext. Al: 4.0 Fe: 10.0 Mn: 0.0 SiO2: 1.59

ID: 2A2-048 Name: LOWER TROUT LAKE State: MN Date: 29OCT84
Sample Type: REGULAR Latitude: 47-56'33"N Longitude: 90-27'07"W
Elevation: 501 Surface Temp: 3.4 Stratified: MIXED Site Depth: 1.5
Lake Area: 53 Watershed Area: 10176 WA/LA: 193.8 Hydro Type: DRAINAGE
Residence Time: 0.01 Secchi Depth: 1.3 Turbidity: 2.1 Color: 63
Closed pH: 6.96 Equil. pH: 7.43 ANC: 175.0 DOC: 10.00
Closed DIC: 2.17 Equil. DIC: 1.76 Meas. Cond: 37.6 Cal. Cond: 37.6
Ca: 179.1 Mg: 137.4 Na: 51.3 K: 11.0 NH4: 0.6
SO4: 107.6 HCO3: 128.5 Cl: 13.5 NO3: 8.9 F: 4.0
Sum Cations: 379.5 Sum Anions: 262.7 Cations/Anions: 1.44 Tot. P: 10.0
Tot. Al: 56.0 Ext. Al: 18.0 Fe: 150.0 Mn: 0.0 SiO2: 7.18

(continued)

TABLE 3-1 (continued)

ID: 2A2-050 Name: MCDIVITT LAKE State: MN Date: 21OCT84
Sample Type: REGULAR Latitude: 48-30'53"N Longitude: 92-44'30"W
Elevation: 369 Surface Temp: 8.7 Stratified: MIXED Site Depth: 5.5
Lake Area: 13 Watershed Area: 83 WA/LA: 6.5 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 1.4 Turbidity: 0.7 Color: 75
Closed pH: 6.54 Equil. pH: 7.23 ANC: 116.4 DOC: 14.90
Closed DIC: 1.45 Equil. DIC: 0.83 Meas. Cond: 17.9 Cal. Cond: 18.2
Ca: 90.3 Mg: 63.3 Na: 33.9 K: 14.8 NH4: 1.7
SO4: 29.8 HCO3: 80.7 Cl: 4.5 NO3: 0.7 F: 1.5
Sum Cations: 204.3 Sum Anions: 117.2 Cations/Anions: 1.74 Tot. P: 19.0
Tot. Al: 57.0 Ext. Al: 14.0 Fe: 200.0 Mn: 10.0 SiO2: 0.74

ID: 2A2-052 Name: BALD EAGLE LAKE State: MN Date: 16OCT84
Sample Type: REGULAR Latitude: 47-49'55"N Longitude: 91-33'15"W
Elevation: 443 Surface Temp: 12.1 Stratified: MIXED Site Depth: 4.6
Lake Area: 499 Watershed Area: 92243 WA/LA: 184.8 Hydro Type: DRAINAGE
Residence Time: 0.04 Secchi Depth: 1.1 Turbidity: 2.5 Color: 76
Closed pH: 7.68 Equil. pH: 8.23 ANC: 665.0 DOC: 9.10
Closed DIC: 7.66 Equil. DIC: 7.13 Meas. Cond: 73.4 Cal. Cond: 76.8
Ca: 385.2 Mg: 319.2 Na: 75.7 K: 9.5 NH4: 0.0
SO4: 60.4 HCO3: 583.1 Cl: 16.6 NO3: 0.0 F: 5.2
Sum Cations: 789.6 Sum Anions: 668.0 Cations/Anions: 1.18 Tot. P: 20.0
Tot. Al: 88.0 Ext. Al: 5.0 Fe: 370.0 Mn: 0.0 SiO2: 10.07

ID: 2A2-053 Name: WHIZ LAKE State: MN Date: 23OCT84
Sample Type: REGULAR Latitude: 47-58'00"N Longitude: 91-10'15"W
Elevation: 475 Surface Temp: 7.4 Stratified: MIXED Site Depth: 5.5
Lake Area: 9 Watershed Area: 3149 WA/LA: 353.8 Hydro Type: DRAINAGE
Residence Time: 0.03 Secchi Depth: 1.0 Turbidity: 1.8 Color: 95
Closed pH: 6.74 Equil. pH: 7.65 ANC: 203.5 DOC: 11.10
Closed DIC: 3.00 Equil. DIC: 2.01 Meas. Cond: 31.0 Cal. Cond: 31.6
Ca: 164.9 Mg: 122.6 Na: 44.8 K: 6.1 NH4: 2.5
SO4: 45.3 HCO3: 166.7 Cl: 12.6 NO3: 4.3 F: 1.0
Sum Cations: 341.1 Sum Anions: 230.0 Cations/Anions: 1.48 Tot. P: 16.0
Tot. Al: 70.0 Ext. Al: 16.5 Fe: 175.0 Mn: 0.0 SiO2: 3.59

ID: 2A2-054 Name: GREEN LAKE State: MN Date: 24OCT84
Sample Type: REGULAR Latitude: 48-04'12"N Longitude: 90-54'00"W
Elevation: 530 Surface Temp: 8.5 Stratified: MIXED Site Depth: 18.6
Lake Area: 15 Watershed Area: 67 WA/LA: 4.5 Hydro Type: DRAINAGE
Residence Time: 5.14 Secchi Depth: 4.1 Turbidity: 0.7 Color: 10
Closed pH: 6.99 Equil. pH: 7.57 ANC: 184.0 DOC: 3.70
Closed DIC: 2.42 Equil. DIC: 2.10 Meas. Cond: 25.0 Cal. Cond: 25.4
Ca: 103.8 Mg: 106.1 Na: 31.8 K: 4.8 NH4: 0.6
SO4: 44.8 HCO3: 166.8 Cl: 5.6 NO3: 0.6 F: 0.8
Sum Cations: 247.1 Sum Anions: 218.8 Cations/Anions: 1.13 Tot. P: 11.0
Tot. Al: 24.0 Ext. Al: 1.0 Fe: 20.0 Mn: 0.0 SiO2: 1.09

ID: 2A2-055 Name: BONITA LAKE State: MN Date: 24OCT84
Sample Type: REGULAR Latitude: 48-00'37"N Longitude: 90-59'30"W
Elevation: 512 Surface Temp: 6.7 Stratified: MIXED Site Depth: 4.0
Lake Area: 5 Watershed Area: 54 WA/LA: 10.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.4 Turbidity: 1.8 Color: 74
Closed pH: 6.94 Equil. pH: 7.62 ANC: 207.5 DOC: 10.45
Closed DIC: 2.25 Equil. DIC: 1.84 Meas. Cond: 29.7 Cal. Cond: 28.6
Ca: 162.2 Mg: 98.7 Na: 44.4 K: 7.2 NH4: 1.9
SO4: 49.6 HCO3: 139.6 Cl: 5.9 NO3: 0.8 F: 1.3
Sum Cations: 314.6 Sum Anions: 197.2 Cations/Anions: 1.60 Tot. P: 20.0
Tot. Al: 73.5 Ext. Al: 12.5 Fe: 170.0 Mn: 0.0 SiO2: 4.30

(continued)

TABLE 3-1 (continued)

ID: 2A2-057 Name: MALBERG LAKE State: MN Date: 23OCT84
Sample Type: REGULAR Latitude: 47-57'03"N Longitude: 91-08'07"W
Elevation: 472 Surface Temp: 8.5 Stratified: MIXED Site Depth: 7.3
Lake Area: 165 Watershed Area: 8511 WA/LA: 51.6 Hydro Type: DRAINAGE
Residence Time: 0.25 Secchi Depth: 1.9 Turbidity: 1.6 Color: 39
Closed pH: 6.96 Equil. pH: 7.53 ANC: 162.0 DOC: 6.90
Closed DIC: 1.97 Equil. DIC: 1.63 Meas. Cond: 25.6 Cal. Cond: 24.4
Ca: 134.7 Mg: 74.9 Na: 37.4 K: 7.2 NH4: 1.7
SO4: 47.5 HCO3: 119.6 Cl: 7.3 NO3: 0.3 F: 3.2
Sum Cations: 256.0 Sum Anions: 178.0 Cations/Anions: 1.44 Tot. P: 10.0
Tot. Al: 28.0 Ext. Al: 2.0 Fe: 180.0 Mn: 0.0 SiO2: 4.05

ID: 2A2-058 Name: MEAT LAKE State: MN Date: 16OCT84
Sample Type: REGULAR Latitude: 47-55'07"N Longitude: 92-05'48"W
Elevation: 456 Surface Temp: 12.1 Stratified: WEAK Site Depth: 6.7
Lake Area: 8 Watershed Area: 60 WA/LA: 7.2 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 1.9 Turbidity: 0.9 Color: 41
Closed pH: 6.74 Equil. pH: 7.35 ANC: 95.0 DOC: 7.60
Closed DIC: 1.30 Equil. DIC: 1.02 Meas. Cond: 19.2 Cal. Cond: 17.6
Ca: 70.4 Mg: 50.2 Na: 41.8 K: 14.6 NH4: 0.0
SO4: 47.3 HCO3: 67.3 Cl: 7.1 NO3: 0.0 F: 2.7
Sum Cations: 177.1 Sum Anions: 124.4 Cations/Anions: 1.42 Tot. P: 11.0
Tot. Al: 41.0 Ext. Al: 16.0 Fe: 190.0 Mn: 0.0 SiO2: 1.26

ID: 2A2-059 Name: JORGENS LAKE State: MN Date: 21OCT84
Sample Type: REGULAR Latitude: 48-29'04"N Longitude: 92-50'45"W
Elevation: 366 Surface Temp: 9.2 Stratified: MIXED Site Depth: 6.4
Lake Area: 26 Watershed Area: 171 WA/LA: 6.6 Hydro Type: RESERVOIR
Residence Time: 2.04 Secchi Depth: 2.4 Turbidity: 0.6 Color: 39
Closed pH: 6.83 Equil. pH: 7.43 ANC: 158.6 DOC: 10.70
Closed DIC: 1.90 Equil. DIC: 1.25 Meas. Cond: 22.3 Cal. Cond: 23.1
Ca: 118.3 Mg: 77.3 Na: 39.6 K: 15.3 NH4: 0.0
SO4: 40.0 HCO3: 115.6 Cl: 5.1 NO3: 0.3 F: 1.5
Sum Cations: 250.6 Sum Anions: 162.6 Cations/Anions: 1.54 Tot. P: 9.0
Tot. Al: 17.0 Ext. Al: 5.0 Fe: 10.0 Mn: 0.0 SiO2: 0.90

ID: 2A2-061 Name: TURTLE LAKE State: MN Date: 16OCT84
Sample Type: REGULAR Latitude: 47-51'15"N Longitude: 91-33'08"W
Elevation: 457 Surface Temp: 12.3 Stratified: MIXED Site Depth: 2.4
Lake Area: 138 Watershed Area: 401 WA/LA: 2.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.4 Turbidity: 1.2 Color: 32
Closed pH: 7.08 Equil. pH: 7.58 ANC: 165.0 DOC: 9.80
Closed DIC: 1.85 Equil. DIC: 1.57 Meas. Cond: 25.2 Cal. Cond: 25.7
Ca: 118.5 Mg: 94.6 Na: 28.9 K: 9.2 NH4: 0.0
SO4: 62.5 HCO3: 119.8 Cl: 13.4 NO3: 0.0 F: 1.2
Sum Cations: 251.4 Sum Anions: 197.0 Cations/Anions: 1.28 Tot. P: 31.5
Tot. Al: 25.5 Ext. Al: 3.5 Fe: 20.0 Mn: 0.0 SiO2: 1.79

ID: 2A2-062 Name: RAGGED LAKE State: MN Date: 29OCT84
Sample Type: REGULAR Latitude: 48-00'32"N Longitude: 90-51'30"W
Elevation: 573 Surface Temp: 5.5 Stratified: MIXED Site Depth: 6.7
Lake Area: 20 Watershed Area: 98 WA/LA: 5.0 Hydro Type: DRAINAGE
Residence Time: 1.73 Secchi Depth: 2.2 Turbidity: 1.3 Color: 16
Closed pH: 7.12 Equil. pH: 7.50 ANC: 199.0 DOC: 6.00
Closed DIC: 2.58 Equil. DIC: 2.08 Meas. Cond: 30.4 Cal. Cond: 30.5
Ca: 154.2 Mg: 100.4 Na: 34.4 K: 7.2 NH4: 2.8
SO4: 70.6 HCO3: 160.0 Cl: 7.3 NO3: 0.6 F: 2.7
Sum Cations: 298.9 Sum Anions: 241.3 Cations/Anions: 1.24 Tot. P: 9.0
Tot. Al: 10.0 Ext. Al: 2.0 Fe: 10.0 Mn: 0.0 SiO2: 2.41

(continued)

TABLE 3-1 (continued)

ID: 2A3-002 Name: COOK COUNTY LAKE State: MN Date: 23OCT84
Sample Type: REGULAR Latitude: 48-06'05"N Longitude: 91-02'05"W
Elevation: 472 Surface Temp: 8.8 Stratified: MIXED Site Depth: 11.0
Lake Area: 18 Watershed Area: 176 WA/LA: 9.9 Hydro Type: DRAINAGE
Residence Time: 1.67 Secchi Depth: 1.6 Turbidity: 1.3 Color: 43
Closed pH: 7.43 Equil. pH: 8.20 ANC: 646.0 DOC: 9.60
Closed DIC: 7.54 Equil. DIC: 6.85 Meas. Cond: 72.4 Cal. Cond: 74.4
Ca: 602.8 Mg: 93.0 Na: 30.0 K: 13.5 NH4: 1.7
SO4: 64.1 HCO3: 560.4 Cl: 9.0 NO3: 0.9 F: 1.2
Sum Cations: 741.0 Sum Anions: 637.5 Cations/Anions: 1.16 Tot. P: 16.0
Tot. Al: 18.0 Ext. Al: 2.0 Fe: 20.0 Mn: 0.0 SiO2: 1.77

ID: 2A3-004 Name: WARD LAKE State: MN Date: 20OCT84
Sample Type: REGULAR Latitude: 47-42'55"N Longitude: 90-37'59"W
Elevation: 449 Surface Temp: 7.7 Stratified: MIXED Site Depth: 2.4
Lake Area: 16 Watershed Area: 104 WA/LA: 6.7 Hydro Type: DRAINAGE
Residence Time: 0.38 Secchi Depth: 1.0 Turbidity: 1.8 Color: 41
Closed pH: 7.51 Equil. pH: 7.98 ANC: 472.3 DOC: 14.35
Closed DIC: 5.31 Equil. DIC: 5.03 Meas. Cond: 55.1 Cal. Cond: 63.1
Ca: 337.6 Mg: 170.7 Na: 107.0 K: 8.7 NH4: 2.5
SO4: 94.2 HCO3: 426.5 Cl: 7.3 NO3: 3.5 F: 5.7
Sum Cations: 626.4 Sum Anions: 538.7 Cations/Anions: 1.16 Tot. P: 30.0
Tot. Al: 58.5 Ext. Al: 7.5 Fe: 40.0 Mn: 0.0 SiO2: 10.19

ID: 2A3-005 Name: FRANKLIN LAKE State: MN Date: 21OCT84
Sample Type: REG/SPC/LTM/ Latitude: 48-18'00"N Longitude: 92-37'00"W
Elevation: 366 Surface Temp: 9.0 Stratified: MIXED Site Depth: 3.0
Lake Area: 61 Watershed Area: 197 WA/LA: 3.3 Hydro Type: DRAINAGE
Residence Time: 1.35 Secchi Depth: 2.2 Turbidity: 0.9 Color: 35
Closed pH: 7.40 Equil. pH: 8.00 ANC: 477.9 DOC: 17.70
Closed DIC: 5.57 Equil. DIC: 4.84 Meas. Cond: 52.4 Cal. Cond: 55.7
Ca: 325.8 Mg: 192.5 Na: 42.2 K: 16.6 NH4: 1.7
SO4: 47.5 HCO3: 403.4 Cl: 5.6 NO3: 3.4 F: 1.7
Sum Cations: 578.9 Sum Anions: 462.8 Cations/Anions: 1.25 Tot. P: 17.0
Tot. Al: 10.0 Ext. Al: 4.0 Fe: 30.0 Mn: 0.0 SiO2: 1.36

ID: 2A3-006 Name: (NO NAME) State: MN Date: 24OCT84
Sample Type: REGULAR Latitude: 48-09'00"N Longitude: 90-56'40"W
Elevation: 457 Surface Temp: 5.9 Stratified: MIXED Site Depth: 3.9
Lake Area: 4 Watershed Area: 57 WA/LA: 14.3 Hydro Type: DRAINAGE
Residence Time: 0.44 Secchi Depth: 1.1 Turbidity: 1.5 Color: 53
Closed pH: 7.49 Equil. pH: 8.18 ANC: 604.6 DOC: 13.10
Closed DIC: 6.33 Equil. DIC: 6.25 Meas. Cond: 70.0 Cal. Cond: 73.2
Ca: 418.2 Mg: 227.9 Na: 91.3 K: 12.6 NH4: 4.4
SO4: 87.9 HCO3: 501.3 Cl: 9.3 NO3: 0.0 F: 4.1
Sum Cations: 754.4 Sum Anions: 604.0 Cations/Anions: 1.25 Tot. P: 14.0
Tot. Al: 70.0 Ext. Al: 18.0 Fe: 40.0 Mn: 0.0 SiO2: 2.65

ID: 2A3-007 Name: ELUSION LAKE State: MN Date: 24OCT84
Sample Type: REGULAR Latitude: 48-05'24"N Longitude: 90-55'15"W
Elevation: 523 Surface Temp: 8.0 Stratified: MIXED Site Depth: 17.7
Lake Area: 7 Watershed Area: 36 WA/LA: 5.0 Hydro Type: DRAINAGE
Residence Time: 4.54 Secchi Depth: 3.8 Turbidity: 0.5 Color: 21
Closed pH: 6.94 Equil. pH: 7.50 ANC: 239.0 DOC: 5.00
Closed DIC: 3.11 Equil. DIC: 2.24 Meas. Cond: 34.1 Cal. Cond: 33.2
Ca: 213.6 Mg: 71.6 Na: 37.0 K: 8.8 NH4: 0.6
SO4: 71.2 HCO3: 175.7 Cl: 7.3 NO3: 0.0 F: 0.9
Sum Cations: 331.6 Sum Anions: 255.4 Cations/Anions: 1.30 Tot. P: 10.0
Tot. Al: 36.0 Ext. Al: 3.0 Fe: 0.0 Mn: 0.0 SiO2: 1.26

(continued)

TABLE 3-1 (continued)

ID: 2A3-008 Name: TRIDENT LAKE State: MN Date: 23OCT84
Sample Type: REGULAR Latitude: 48-03'10"N Longitude: 91-21'20"W
Elevation: 414 Surface Temp: 8.0 Stratified: MIXED Site Depth: 3.7
Lake Area: 32 Watershed Area: 249 WA/LA: 7.8 Hydro Type: DRAINAGE
Residence Time: 0.68 Secchi Depth: 1.8 Turbidity: 1.3 Color: 35
Closed pH: 7.44 Equil. pH: 8.01 ANC: 457.0 DOC: 9.00
Closed DIC: 5.22 Equil. DIC: 4.88 Meas. Cond: 55.9 Cal. Cond: 56.1
Ca: 444.6 Mg: 79.8 Na: 41.3 K: 7.1 NH4: 0.6
SO4: 67.9 HCO3: 371.0 Cl: 8.2 NO3: 0.7 F: 1.9
Sum Cations: 573.5 Sum Anions: 450.3 Cations/Anions: 1.27 Tot. P: 24.0
Tot. Al: 24.0 Ext. Al: 1.0 Fe: 20.0 Mn: 0.0 SiO2: 2.31

ID: 2A3-009 Name: CARIBOU LAKE State: MN Date: 29OCT84
Sample Type: REGULAR Latitude: 48-04'15"N Longitude: 90-18'45"W
Elevation: 480 Surface Temp: 7.7 Stratified: MIXED Site Depth: 14.9
Lake Area: 187 Watershed Area: 1930 WA/LA: 10.3 Hydro Type: DRAINAGE
Residence Time: 2.18 Secchi Depth: 2.5 Turbidity: 1.5 Color: 21
Closed pH: 7.41 Equil. pH: 7.86 ANC: 355.0 DOC: 4.80
Closed DIC: 3.92 Equil. DIC: 3.71 Meas. Cond: 48.6 Cal. Cond: 49.1
Ca: 227.5 Mg: 179.3 Na: 52.2 K: 11.8 NH4: 0.6
SO4: 101.6 HCO3: 291.1 Cl: 15.2 NO3: 0.9 F: 2.5
Sum Cations: 471.4 Sum Anions: 412.1 Cations/Anions: 1.14 Tot. P: 18.0
Tot. Al: 17.0 Ext. Al: 4.0 Fe: 20.0 Mn: 0.0 SiO2: 4.89

ID: 2A3-010 Name: HARMONY LAKE State: MN Date: 23OCT84
Sample Type: REGULAR Latitude: 48-00'10"N Longitude: 91-13'07"W
Elevation: 466 Surface Temp: 8.5 Stratified: MIXED Site Depth: 16.8
Lake Area: 10 Watershed Area: 39 WA/LA: 3.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.4 Turbidity: 0.6 Color: 18
Closed pH: 7.02 Equil. pH: 7.92 ANC: 260.0 DOC: 6.40
Closed DIC: 3.45 Equil. DIC: 3.06 Meas. Cond: 38.6 Cal. Cond: 39.3
Ca: 148.7 Mg: 198.2 Na: 37.4 K: 9.2 NH4: 0.0
SO4: 81.2 HCO3: 230.0 Cl: 7.6 NO3: 0.0 F: 1.2
Sum Cations: 393.6 Sum Anions: 320.3 Cations/Anions: 1.23 Tot. P: 14.0
Tot. Al: 15.0 Ext. Al: 2.0 Fe: 40.0 Mn: 0.0 SiO2: 1.43

ID: 2A3-011 Name: TAMARACK LAKE State: MN Date: 16OCT84
Sample Type: REGULAR Latitude: 47-53'30"N Longitude: 92-06'30"W
Elevation: 436 Surface Temp: 12.2 Stratified: MIXED Site Depth: 6.4
Lake Area: 26 Watershed Area: 386 WA/LA: 14.9 Hydro Type: DRAINAGE
Residence Time: 1.16 Secchi Depth: 1.8 Turbidity: 1.8 Color: 56
Closed pH: 7.29 Equil. pH: 7.93 ANC: 396.0 DOC: 8.50
Closed DIC: 4.64 Equil. DIC: 4.06 Meas. Cond: 48.0 Cal. Cond: 48.5
Ca: 346.8 Mg: 89.7 Na: 40.9 K: 12.3 NH4: 0.0
SO4: 56.6 HCO3: 335.3 Cl: 6.5 NO3: 0.5 F: 2.8
Sum Cations: 489.7 Sum Anions: 402.6 Cations/Anions: 1.22 Tot. P: 7.0
Tot. Al: 31.0 Ext. Al: 3.0 Fe: 210.0 Mn: 0.0 SiO2: 4.70

ID: 2A3-012 Name: WOLF LAKE State: MN Date: 16OCT84
Sample Type: REGULAR Latitude: 47-53'00"N Longitude: 92-01'30"W
Elevation: 426 Surface Temp: 12.2 Stratified: MIXED Site Depth: 6.4
Lake Area: 111 Watershed Area: 1712 WA/LA: 15.4 Hydro Type: DRAINAGE
Residence Time: 1.13 Secchi Depth: 2.8 Turbidity: 1.1 Color: 41
Closed pH: 7.66 Equil. pH: 8.19 ANC: 811.0 DOC: 9.20
Closed DIC: 9.15 Equil. DIC: 8.45 Meas. Cond: 101.0 Cal. Cond: 106.9
Ca: 688.1 Mg: 225.4 Na: 98.3 K: 10.7 NH4: 0.0
SO4: 116.8 HCO3: 705.9 Cl: 92.5 NO3: 0.6 F: 3.1
Sum Cations: 1022.6 Sum Anions: 922.3 Cations/Anions: 1.11 Tot. P: 6.0
Tot. Al: 7.0 Ext. Al: 3.0 Fe: 30.0 Mn: 0.0 SiO2: 8.17

(continued)

TABLE 3-1 (continued)

ID: 2A3-013 Name: PURVIS LAKE State: MN Date: 22OCT84
Sample Type: REGULAR Latitude: 47-49'30"N Longitude: 92-00'30"W
Elevation: 456 Surface Temp: 8.8 Stratified: MIXED Site Depth: 12.2
Lake Area: 21 Watershed Area: 148 WA/LA: 7.2 Hydro Type: DRAINAGE
Residence Time: 3.59 Secchi Depth: 2.3 Turbidity: 1.8 Color: 35
Closed pH: 7.25 Equil. pH: 8.08 ANC: 676.0 DOC: 6.50
Closed DIC: 8.33 Equil. DIC: 7.41 Meas. Cond: 73.8 Cal. Cond: 76.9
Ca: 484.8 Mg: 223.3 Na: 51.3 K: 15.5 NH4: 0.6
SO4: 54.3 HCO3: 609.6 Cl: 9.3 NO3: 0.4 F: 2.1
Sum Cations: 775.5 Sum Anions: 677.8 Cations/Anions: 1.14 Tot. P: 7.0
Tot. Al: 9.0 Ext. Al: 0.0 Fe: 110.0 Mn: 110.0 SiO2: 9.85

ID: 2A3-015 Name: SOCK LAKE State: MN Date: 08OCT84
Sample Type: REGULAR Latitude: 47-44'50"N Longitude: 92-00'40"W
Elevation: 447 Surface Temp: 12.1 Stratified: MIXED Site Depth: 5.8
Lake Area: 10 Watershed Area: 47 WA/LA: 4.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.1 Turbidity: 0.6 Color: 17
Closed pH: 7.54 Equil. pH: 8.01 ANC: 391.5 DOC: 4.40
Closed DIC: 4.44 Equil. DIC: 4.27 Meas. Cond: 46.1 Cal. Cond: 48.4
Ca: 172.4 Mg: 232.0 Na: 56.8 K: 12.0 NH4: 0.6
SO4: 39.1 HCO3: 358.4 Cl: 35.7 NO3: 0.0 F: 3.1
Sum Cations: 473.7 Sum Anions: 438.2 Cations/Anions: 1.08 Tot. P: 7.0
Tot. Al: 5.0 Ext. Al: 1.5 Fe: 10.0 Mn: 0.0 SiO2: 1.27

ID: 2A3-016 Name: JOHNSON LAKE State: MN Date: 07OCT84
Sample Type: REGULAR Latitude: 47-42'15"N Longitude: 93-05'50"W
Elevation: 423 Surface Temp: 11.3 Stratified: MIXED Site Depth: 3.0
Lake Area: 6 Watershed Area: 189 WA/LA: 33.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.4 Turbidity: 1.0 Color: 200
Closed pH: 6.23 Equil. pH: 6.72 ANC: 73.0 DOC: 22.50
Closed DIC: 0.96 Equil. DIC: 0.41 Meas. Cond: 25.8 Cal. Cond: 22.2
Ca: 140.2 Mg: 95.4 Na: 43.1 K: 11.5 NH4: 3.3
SO4: 37.9 HCO3: 31.8 Cl: 5.1 NO3: 4.9 F: 2.8
Sum Cations: 294.1 Sum Anions: 82.5 Cations/Anions: 3.57 Tot. P: 30.0
Tot. Al: 200.0 Ext. Al: 119.0 Fe: 420.0 Mn: 0.0 SiO2: 2.29

ID: 2A3-020 Name: JAMMER LAKE State: MN Date: 07OCT84
Sample Type: REGULAR Latitude: 47-39'25"N Longitude: 92-36'30"W
Elevation: 450 Surface Temp: 11.0 Stratified: MIXED Site Depth: 8.5
Lake Area: 7 Watershed Area: 47 WA/LA: 6.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.8 Turbidity: 0.6 Color: 25
Closed pH: 6.89 Equil. pH: 7.64 ANC: 198.0 DOC: 3.90
Closed DIC: 2.52 Equil. DIC: 2.37 Meas. Cond: 82.1 Cal. Cond: 81.8
Ca: 183.6 Mg: 148.1 Na: 330.6 K: 31.7 NH4: 6.7
SO4: 42.1 HCO3: 188.2 Cl: 413.3 NO3: 1.8 F: 4.1
Sum Cations: 700.7 Sum Anions: 649.7 Cations/Anions: 1.08 Tot. P: 4.0
Tot. Al: 6.0 Ext. Al: 3.0 Fe: 170.0 Mn: 10.0 SiO2: 0.32

ID: 2A3-024 Name: BLUEBILL LAKE State: MN Date: 20OCT84
Sample Type: REGULAR Latitude: 47-35'53"N Longitude: 91-12'16"W
Elevation: 558 Surface Temp: 6.4 Stratified: MIXED Site Depth: 0.9
Lake Area: 17 Watershed Area: 461 WA/LA: 27.8 Hydro Type: DRAINAGE
Residence Time: 0.04 Secchi Depth: 0.6 Turbidity: 3.9 Color: 89
Closed pH: 7.36 Equil. pH: 8.02 ANC: 536.2 DOC: 18.50
Closed DIC: 5.90 Equil. DIC: 5.42 Meas. Cond: 60.5 Cal. Cond: 71.2
Ca: 393.7 Mg: 215.5 Na: 74.7 K: 12.3 NH4: 5.5
SO4: 79.5 HCO3: 467.6 Cl: 37.0 NO3: 9.5 F: 8.6
Sum Cations: 701.8 Sum Anions: 603.7 Cations/Anions: 1.16 Tot. P: 27.0
Tot. Al: 84.0 Ext. Al: 10.0 Fe: 110.0 Mn: 0.0 SiO2: 10.32

(continued)

TABLE 3-1 (continued)

ID: 2A3-032 Name: HARVEY LAKE State: MN Date: 07OCT84
Sample Type: REGULAR Latitude: 47-23'30"N Longitude: 92-31'20"W
Elevation: 414 Surface Temp: 10.7 Stratified: MIXED Site Depth: 2.4
Lake Area: 10 Watershed Area: 140 WA/LA: 14.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.9 Turbidity: 1.4 Color: 99
Closed pH: 5.93 Equil. pH: 6.05 ANC: 43.0 DOC: 12.50
Closed DIC: 0.67 Equil. DIC: 0.35 Meas. Cond: 18.5 Cal. Cond: 16.5
Ca: 67.9 Mg: 50.2 Na: 20.7 K: 26.6 NH4: 1.4
SO4: 51.6 HCO3: 11.3 Cl: 17.3 NO3: 1.8 F: 3.2
Sum Cations: 168.0 Sum Anions: 85.2 Cations/Anions: 1.97 Tot. P: 13.5
Tot. Al: 158.0 Ext. Al: 44.5 Fe: 395.0 Mn: 20.0 SiO2: 0.00

ID: 2A3-034 Name: MOOSE LAKE State: MN Date: 21OCT84
Sample Type: REGULAR Latitude: 48-18'50"N Longitude: 92-41'15"W
Elevation: 361 Surface Temp: 8.3 Stratified: MIXED Site Depth: 2.1
Lake Area: 86 Watershed Area: 749 WA/LA: 8.7 Hydro Type: DRAINAGE
Residence Time: 0.56 Secchi Depth: 1.9 Turbidity: 0.9 Color: 40
Closed pH: 7.86 Equil. pH: 8.30 ANC: 937.6 DOC: 21.40
Closed DIC: 10.70 Equil. DIC: 9.74 Meas. Cond: 93.2 Cal. Cond: 101.0
Ca: 555.9 Mg: 371.8 Na: 55.7 K: 22.2 NH4: 0.0
SO4: 46.8 HCO3: 877.7 Cl: 6.5 NO3: 0.0 F: 2.5
Sum Cations: 1005.6 Sum Anions: 939.0 Cations/Anions: 1.07 Tot. P: 21.0
Tot. Al: 5.0 Ext. Al: 2.0 Fe: 30.0 Mn: 0.0 SiO2: 0.67

ID: 2A3-035 Name: SEA GULL LAKE State: MN Date: 24OCT84
Sample Type: REGULAR Latitude: 48-07'30"N Longitude: 90-56'15"W
Elevation: 442 Surface Temp: 8.8 Stratified: MIXED Site Depth: 28.6
Lake Area: 1701 Watershed Area: 18938 WA/LA: 11.1 Hydro Type: DRAINAGE
Residence Time: 3.94 Secchi Depth: 3.4 Turbidity: 0.4 Color: 25
Closed pH: 7.05 Equil. pH: 7.81 ANC: 283.6 DOC: 5.60
Closed DIC: 3.42 Equil. DIC: 3.03 Meas. Cond: 40.2 Cal. Cond: 41.1
Ca: 235.5 Mg: 120.9 Na: 38.7 K: 8.1 NH4: 0.6
SO4: 79.1 HCO3: 245.8 Cl: 9.0 NO3: 0.9 F: 1.5
Sum Cations: 403.8 Sum Anions: 336.8 Cations/Anions: 1.20 Tot. P: 6.0
Tot. Al: 22.0 Ext. Al: 3.0 Fe: 200.0 Mn: 0.0 SiO2: 3.84

ID: 2A3-036 Name: OGISHKEMUNCIE LAKE State: MN Date: 23OCT84
Sample Type: REGULAR Latitude: 48-05'15"N Longitude: 91-04'30"W
Elevation: 452 Surface Temp: 9.5 Stratified: MIXED Site Depth: 18.6
Lake Area: 309 Watershed Area: 11948 WA/LA: 38.7 Hydro Type: DRAINAGE
Residence Time: 0.83 Secchi Depth: 3.4 Turbidity: 0.4 Color: 26
Closed pH: 6.92 Equil. pH: 7.76 ANC: 232.0 DOC: 5.60
Closed DIC: 2.94 Equil. DIC: 2.34 Meas. Cond: 34.5 Cal. Cond: 34.9
Ca: 178.6 Mg: 115.2 Na: 39.1 K: 7.8 NH4: 1.7
SO4: 74.5 HCO3: 193.1 Cl: 7.9 NO3: 3.7 F: 1.3
Sum Cations: 342.5 Sum Anions: 280.9 Cations/Anions: 1.22 Tot. P: 0.0
Tot. Al: 20.0 Ext. Al: 3.0 Fe: 40.0 Mn: 0.0 SiO2: 4.80

ID: 2A3-037 Name: WEST PIKE LAKE State: MN Date: 29OCT84
Sample Type: REGULAR Latitude: 48-05'15"N Longitude: 90-12'15"W
Elevation: 474 Surface Temp: 8.6 Stratified: MIXED Site Depth: 28.9
Lake Area: 309 Watershed Area: 3541 WA/LA: 11.4 Hydro Type: DRAINAGE
Residence Time: 3.87 Secchi Depth: 5.1 Turbidity: 0.4 Color: 9
Closed pH: 7.23 Equil. pH: 7.54 ANC: 272.0 DOC: 2.80
Closed DIC: 3.27 Equil. DIC: 2.93 Meas. Cond: 43.6 Cal. Cond: 47.6
Ca: 198.6 Mg: 156.3 Na: 53.1 K: 10.7 NH4: 0.6
SO4: 128.3 HCO3: 221.4 Cl: 48.5 NO3: 0.5 F: 2.2
Sum Cations: 419.3 Sum Anions: 401.2 Cations/Anions: 1.05 Tot. P: 17.0
Tot. Al: 10.0 Ext. Al: 1.0 Fe: 20.0 Mn: 0.0 SiO2: 7.03

(continued)

TABLE 3-1 (continued)

ID: 2A3-040 Name: BEAR ISLAND LAKE State: MN Date: 08OCT84
Sample Type: REGULAR Latitude: 47-46'15"N Longitude: 92-00'00"W
Elevation: 432 Surface Temp: 12.0 Stratified: MIXED Site Depth: 18.0
Lake Area: 932 Watershed Area: 7438 WA/LA: 8.0 Hydro Type: DRAINAGE
Residence Time: 4.98 Secchi Depth: 2.1 Turbidity: 1.3 Color: 63
Closed pH: 7.06 Equil. pH: 7.78 ANC: 352.0 DOC: 10.50
Closed DIC: 3.88 Equil. DIC: 3.42 Meas. Cond: 48.2 Cal. Cond: 48.1
Ca: 267.5 Mg: 167.0 Na: 55.2 K: 12.8 NH4: 0.6
SO4: 68.3 HCO3: 283.5 Cl: 15.5 NO3: 0.1 F: 3.9
Sum Cations: 503.1 Sum Anions: 372.4 Cations/Anions: 1.35 Tot. P: 15.0
Tot. Al: 22.0 Ext. Al: 2.0 Fe: 120.0 Mn: 0.0 SiO2: 5.41

ID: 2A3-041 Name: PLACID LAKE State: MN Date: 17OCT84
Sample Type: REGULAR Latitude: 47-47'45"N Longitude: 91-14'58"W
Elevation: 466 Surface Temp: 9.5 Stratified: MIXED Site Depth: 0.9
Lake Area: 7 Watershed Area: 129 WA/LA: 19.0 Hydro Type: DRAINAGE
Residence Time: 0.08 Secchi Depth: 0.3 Turbidity: 1.5 Color: 220
Closed pH: 6.41 Equil. pH: 6.69 ANC: 84.0 DOC: 23.05
Closed DIC: 0.72 Equil. DIC: 0.39 Meas. Cond: 23.2 Cal. Cond: 21.1
Ca: 131.7 Mg: 88.0 Na: 41.8 K: 3.6 NH4: 2.2
SO4: 33.0 HCO3: 28.0 Cl: 19.3 NO3: 6.5 F: 1.4
Sum Cations: 267.8 Sum Anions: 88.3 Cations/Anions: 3.03 Tot. P: 14.0
Tot. Al: 230.0 Ext. Al: 80.0 Fe: 465.0 Mn: 0.0 SiO2: 1.20

ID: 2A3-043 Name: ECHO LAKE State: MN Date: 21OCT84
Sample Type: REGULAR Latitude: 48-10'30"N Longitude: 92-28'30"W
Elevation: 370 Surface Temp: 7.8 Stratified: MIXED Site Depth: 2.4
Lake Area: 457 Watershed Area: 19601 WA/LA: 42.8 Hydro Type: DRAINAGE
Residence Time: 0.18 Secchi Depth: 1.0 Turbidity: 4.0 Color: 65
Closed pH: 6.89 Equil. pH: 7.65 ANC: 264.6 DOC: 14.60
Closed DIC: 2.86 Equil. DIC: 2.28 Meas. Cond: 33.7 Cal. Cond: 36.8
Ca: 194.9 Mg: 125.4 Na: 54.8 K: 18.7 NH4: 2.5
SO4: 46.3 HCO3: 196.0 Cl: 11.0 NO3: 11.3 F: 2.4
Sum Cations: 396.4 Sum Anions: 267.4 Cations/Anions: 1.48 Tot. P: 32.0
Tot. Al: 224.5 Ext. Al: 7.0 Fe: 150.0 Mn: 0.0 SiO2: 5.95

ID: 2A3-044 Name: MOOSE LAKE State: MN Date: 16OCT84
Sample Type: REGULAR Latitude: 48-00'00"N Longitude: 91-30'00"W
Elevation: 408 Surface Temp: 12.3 Stratified: MIXED Site Depth: 19.2
Lake Area: 507 Watershed Area: 4525 WA/LA: 8.9 Hydro Type: DRAINAGE
Residence Time: 3.18 Secchi Depth: 2.6 Turbidity: 0.7 Color: 28
Closed pH: 7.72 Equil. pH: 8.45 ANC: 885.0 DOC: 7.40
Closed DIC: 10.57 Equil. DIC: 9.88 Meas. Cond: 97.0 Cal. Cond: 103.1
Ca: 795.9 Mg: 151.4 Na: 43.5 K: 10.2 NH4: 0.0
SO4: 82.7 HCO3: 819.6 Cl: 17.8 NO3: 0.0 F: 1.6
Sum Cations: 1001.0 Sum Anions: 925.8 Cations/Anions: 1.08 Tot. P: 7.0
Tot. Al: 8.0 Ext. Al: 2.0 Fe: 0.0 Mn: 0.0 SiO2: 3.73

ID: 2A3-045 Name: BULGE LAKE State: MN Date: 29OCT84
Sample Type: REGULAR Latitude: 47-47'27"N Longitude: 90-45'48"W
Elevation: 521 Surface Temp: 4.5 Stratified: MIXED Site Depth: 1.5
Lake Area: 5 Watershed Area: 3706 WA/LA: 788.5 Hydro Type: DRAINAGE
Residence Time: 0.00 Secchi Depth: 1.5 Turbidity: 2.4 Color: 32
Closed pH: 7.25 Equil. pH: 7.68 ANC: 270.0 DOC: 5.90
Closed DIC: 3.39 Equil. DIC: 3.03 Meas. Cond: 41.7 Cal. Cond: 38.6
Ca: 186.6 Mg: 157.9 Na: 57.4 K: 7.9 NH4: 1.7
SO4: 46.8 HCO3: 233.7 Cl: 11.8 NO3: 2.0 F: 4.8
Sum Cations: 411.7 Sum Anions: 299.5 Cations/Anions: 1.37 Tot. P: 16.0
Tot. Al: 27.0 Ext. Al: 2.0 Fe: 180.0 Mn: 20.0 SiO2: 4.56

(continued)

TABLE 3-1 (continued)

ID: 2A3-046 Name: TWO DEER LAKE State: MN Date: 08OCT84
Sample Type: REGULAR Latitude: 47-41'15"N Longitude: 91-34'25"W
Elevation: 512 Surface Temp: 12.5 Stratified: MIXED Site Depth: 2.1
Lake Area: 18 Watershed Area: 414 WA/LA: 23.7 Hydro Type: DRAINAGE
Residence Time: 0.15 Secchi Depth: 2.1 Turbidity: 0.5 Color: 26
Closed pH: 7.44 Equil. pH: 8.44 ANC: 1024.0 DOC: 5.60
Closed DIC: 12.48 Equil. DIC: 11.33 Meas. Cond: 107.0 Cal. Cond: 118.9
Ca: 569.4 Mg: 435.2 Na: 98.7 K: 17.4 NH4: 0.6
SO4: 137.0 HCO3: 949.8 Cl: 20.6 NO3: 0.7 F: 7.1
Sum Cations: 1121.2 Sum Anions: 1122.1 Cations/Anions: 1.00 Tot. P: 8.0
Tot. Al: 6.0 Ext. Al: 1.0 Fe: 50.0 Mn: 0.0 SiO2: 13.81

ID: 2A3-052 Name: SMALL LAKE State: MN Date: 17OCT84
Sample Type: REGULAR Latitude: 47-46'25"N Longitude: 91-13'50"W
Elevation: 479 Surface Temp: 10.3 Stratified: MIXED Site Depth: 1.2
Lake Area: 8 Watershed Area: 148 WA/LA: 18.0 Hydro Type: DRAINAGE
Residence Time: 0.11 Secchi Depth: 0.5 Turbidity: 1.6 Color: 150
Closed pH: 7.02 Equil. pH: 7.37 ANC: 196.0 DOC: 16.60
Closed DIC: 1.93 Equil. DIC: 1.65 Meas. Cond: 27.9 Cal. Cond: 26.7
Ca: 147.7 Mg: 124.2 Na: 47.0 K: 4.1 NH4: 0.0
SO4: 30.6 HCO3: 115.3 Cl: 11.6 NO3: 1.7 F: 1.6
Sum Cations: 323.1 Sum Anions: 160.8 Cations/Anions: 2.01 Tot. P: 6.0
Tot. Al: 125.0 Ext. Al: 24.0 Fe: 310.0 Mn: 0.0 SiO2: 0.84

ID: 2A3-053 Name: CAVITY LAKE State: MN Date: 24OCT84
Sample Type: REGULAR Latitude: 48-05'52"N Longitude: 90-59'45"W
Elevation: 488 Surface Temp: 6.2 Stratified: MIXED Site Depth: 7.0
Lake Area: 13 Watershed Area: 202 WA/LA: 15.2 Hydro Type: DRAINAGE
Residence Time: 0.74 Secchi Depth: 2.0 Turbidity: 0.7 Color: 49
Closed pH: 7.33 Equil. pH: 7.93 ANC: 400.7 DOC: 11.50
Closed DIC: 4.28 Equil. DIC: 4.05 Meas. Cond: 53.1 Cal. Cond: 50.3
Ca: 418.2 Mg: 75.7 Na: 39.6 K: 10.5 NH4: 2.2
SO4: 41.8 HCO3: 319.2 Cl: 9.9 NO3: 0.6 F: 1.4
Sum Cations: 546.2 Sum Anions: 373.4 Cations/Anions: 1.46 Tot. P: 17.0
Tot. Al: 54.0 Ext. Al: 11.0 Fe: 60.0 Mn: 0.0 SiO2: 1.19

ID: 2A3-054 Name: GATE LAKE State: MN Date: 07OCT84
Sample Type: REGULAR Latitude: 47-41'00"N Longitude: 92-41'30"W
Elevation: 446 Surface Temp: 11.4 Stratified: MIXED Site Depth: 9.1
Lake Area: 4 Watershed Area: 39 WA/LA: 9.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.7 Turbidity: 1.2 Color: 30
Closed pH: 6.84 Equil. pH: 7.55 ANC: 155.0 DOC: 7.60
Closed DIC: 2.11 Equil. DIC: 1.81 Meas. Cond: 21.8 Cal. Cond: 22.1
Ca: 87.3 Mg: 67.5 Na: 52.6 K: 22.5 NH4: 2.8
SO4: 12.1 HCO3: 154.7 Cl: 10.2 NO3: 0.1 F: 2.9
Sum Cations: 232.8 Sum Anions: 180.1 Cations/Anions: 1.29 Tot. P: 11.0
Tot. Al: 9.0 Ext. Al: 2.0 Fe: 50.0 Mn: 0.0 SiO2: 0.00

ID: 2A3-055 Name: MOSS LAKE State: MN Date: 01NOV84
Sample Type: REGULAR Latitude: 48-04'00"N Longitude: 90-28'30"W
Elevation: 527 Surface Temp: 6.7 Stratified: MIXED Site Depth: 28.4
Lake Area: 101 Watershed Area: 862 WA/LA: 8.5 Hydro Type: DRAINAGE
Residence Time: 4.86 Secchi Depth: 3.8 Turbidity: 0.3 Color: 16
Closed pH: 7.13 Equil. pH: 7.79 ANC: 346.0 DOC: 3.60
Closed DIC: 4.56 Equil. DIC: 3.94 Meas. Cond: 48.3 Cal. Cond: 50.8
Ca: 242.0 Mg: 174.4 Na: 46.5 K: 10.5 NH4: 1.7
SO4: 109.9 HCO3: 314.0 Cl: 11.3 NO3: 1.6 F: 1.8
Sum Cations: 475.2 Sum Anions: 439.3 Cations/Anions: 1.08 Tot. P: 11.0
Tot. Al: 3.0 Ext. Al: 0.0 Fe: 0.0 Mn: 0.0 SiO2: 6.37

(continued)

TABLE 3-1 (continued)

ID: 2A3-057 Name: DEEPWATER LAKE State: MN Date: 07OCT84
Sample Type: REGULAR Latitude: 47-37'15"N Longitude: 92-49'30"W
Elevation: 431 Surface Temp: 12.2 Stratified: MIXED Site Depth: 9.7
Lake Area: 8 Watershed Area: 83 WA/LA: 10.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.9 Turbidity: 0.3 Color: 4
Closed pH: 6.37 Equil. pH: 6.91 ANC: 35.0 DOC: 4.50
Closed DIC: 0.62 Equil. DIC: 0.49 Meas. Cond: 16.3 Cal. Cond: 17.1
Ca: 48.9 Mg: 48.5 Na: 17.4 K: 21.5 NH4: 2.2
SO4: 81.6 HCO3: 32.0 Cl: 9.3 NO3: 0.9 F: 2.2
Sum Cations: 138.8 Sum Anions: 126.0 Cations/Anions: 1.10 Tot. P: 4.0
Tot. Al: 17.0 Ext. Al: 0.0 Fe: 40.0 Mn: 0.0 SiO2: 0.00

ID: 2A3-058 Name: BOYS LAKE State: MN Date: 20OCT84
Sample Type: REGULAR Latitude: 47-52'25"N Longitude: 90-13'11"W
Elevation: 518 Surface Temp: 8.1 Stratified: MIXED Site Depth: 2.4
Lake Area: 9 Watershed Area: 127 WA/LA: 13.7 Hydro Type: DRAINAGE
Residence Time: 0.20 Secchi Depth: 2.4 Turbidity: 0.8 Color: 23
Closed pH: 7.36 Equil. pH: 7.89 ANC: 351.5 DOC: 8.90
Closed DIC: 4.18 Equil. DIC: 3.30 Meas. Cond: 44.5 Cal. Cond: 49.8
Ca: 230.0 Mg: 177.7 Na: 61.3 K: 7.4 NH4: 7.2
SO4: 90.8 HCO3: 318.4 Cl: 7.1 NO3: 1.4 F: 6.8
Sum Cations: 483.7 Sum Anions: 425.3 Cations/Anions: 1.14 Tot. P: 17.0
Tot. Al: 15.0 Ext. Al: 3.0 Fe: 20.0 Mn: 0.0 SiO2: 1.95

ID: 2A3-061 Name: RAINY LAKE State: MN Date: 21OCT84
Sample Type: REGULAR Latitude: 48-34'30"N Longitude: 92-54'00"W
Elevation: 338 Surface Temp: 11.4 Stratified: MIXED Site Depth: 20.4
Lake Area: 89358 Watershed Area: * WA/LA: * Hydro Type: RESERVOIR
Residence Time: * Secchi Depth: 2.5 Turbidity: 0.7 Color: 41
Closed pH: 7.18 Equil. pH: 7.72 ANC: 317.3 DOC: 12.80
Closed DIC: 3.28 Equil. DIC: 3.01 Meas. Cond: 41.4 Cal. Cond: 46.2
Ca: 267.5 Mg: 140.7 Na: 54.4 K: 15.6 NH4: 0.1
SO4: 77.9 HCO3: 248.0 Cl: 17.8 NO3: 2.4 F: 2.3
Sum Cations: 478.2 Sum Anions: 349.1 Cations/Anions: 1.37 Tot. P: 17.0
Tot. Al: 30.0 Ext. Al: 1.0 Fe: 10.0 Mn: 0.0 SiO2: 3.25

ID: 2A3-062 Name: FALLS LAKES (NORTHERN) State: MN Date: 08OCT84
Sample Type: REGULAR Latitude: 47-44'25"N Longitude: 92-10'45"W
Elevation: 444 Surface Temp: 12.2 Stratified: MIXED Site Depth: 2.7
Lake Area: 5 Watershed Area: 355 WA/LA: 67.0 Hydro Type: DRAINAGE
Residence Time: 0.14 Secchi Depth: 0.6 Turbidity: 6.3 Color: 210
Closed pH: 6.94 Equil. pH: 8.09 ANC: 692.0 DOC: 23.70
Closed DIC: 8.18 Equil. DIC: 6.57 Meas. Cond: 71.3 Cal. Cond: 74.7
Ca: 609.3 Mg: 163.7 Na: 43.1 K: 6.6 NH4: 0.6
SO4: 9.2 HCO3: 572.4 Cl: 5.9 NO3: 0.9 F: 4.6
Sum Cations: 823.3 Sum Anions: 595.1 Cations/Anions: 1.38 Tot. P: 20.0
Tot. Al: 61.0 Ext. Al: 8.0 Fe: 2060.0 Mn: 310.0 SiO2: 10.76

ID: 2A3-064 Name: MAJESTIC LAKE State: MN Date: 07OCT84
Sample Type: REGULAR Latitude: 47-27'35"N Longitude: 92-37'42"W
Elevation: 426 Surface Temp: 11.5 Stratified: STRONG Site Depth: 15.2
Lake Area: 20 Watershed Area: 215 WA/LA: 10.9 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 1.4 Turbidity: 3.1 Color: 38
Closed pH: 7.61 Equil. pH: 8.28 ANC: 990.0 DOC: 10.70
Closed DIC: 8.23 Equil. DIC: 8.43 Meas. Cond: 117.0 Cal. Cond: 122.3
Ca: 490.0 Mg: 330.7 Na: 237.5 K: 107.4 NH4: 1.7
SO4: 57.9 HCO3: 692.4 Cl: 259.0 NO3: 0.9 F: 3.8
Sum Cations: 1167.3 Sum Anions: 1017.5 Cations/Anions: 1.15 Tot. P: 20.0
Tot. Al: 10.0 Ext. Al: 3.0 Fe: 30.0 Mn: 0.0 SiO2: 0.63

(continued)

TABLE 3-1 (continued)

ID: 2A3-068 Name: AMBUSH LAKE State: MN Date: 24OCT84
Sample Type: REGULAR Latitude: 48-10'22"N Longitude: 90-51'38"W
Elevation: 445 Surface Temp: 6.1 Stratified: MIXED Site Depth: 4.3
Lake Area: 12 Watershed Area: 202 WA/LA: 17.0 Hydro Type: DRAINAGE
Residence Time: 0.41 Secchi Depth: 1.4 Turbidity: 0.9 Color: 79
Closed pH: 6.95 Equil. pH: 7.76 ANC: 183.0 DOC: 12.70
Closed DIC: 2.82 Equil. DIC: 2.53 Meas. Cond: 42.4 Cal. Cond: 41.4
Ca: 226.5 Mg: 144.0 Na: 72.6 K: 7.2 NH4: 1.7
SO4: 62.0 HCO3: 189.4 Cl: 29.6 NO3: 1.8 F: 2.9
Sum Cations: 452.1 Sum Anions: 286.0 Cations/Anions: 1.58 Tot. P: 23.0
Tot. Al: 67.0 Ext. Al: 13.0 Fe: 150.0 Mn: 0.0 SiO2: 1.19

ID: 2A3-069 Name: SNOWBANK LAKE State: MN Date: 16OCT84
Sample Type: REGULAR Latitude: 48-00'00"N Longitude: 91-25'00"W
Elevation: 434 Surface Temp: 11.9 Stratified: MIXED Site Depth: 36.0
Lake Area: 1824 Watershed Area: 4470 WA/LA: 2.4 Hydro Type: DRAINAGE
Residence Time: 14.42 Secchi Depth: 4.3 Turbidity: 0.3 Color: 6
Closed pH: 7.34 Equil. pH: 7.84 ANC: 268.0 DOC: 4.40
Closed DIC: 3.13 Equil. DIC: 2.87 Meas. Cond: 39.2 Cal. Cond: 39.3
Ca: 231.0 Mg: 92.1 Na: 37.8 K: 12.0 NH4: 0.0
SO4: 87.2 HCO3: 226.1 Cl: 9.0 NO3: 0.4 F: 1.9
Sum Cations: 373.1 Sum Anions: 325.2 Cations/Anions: 1.15 Tot. P: 5.0
Tot. Al: 13.0 Ext. Al: 3.0 Fe: 0.0 Mn: 0.0 SiO2: 0.04

ID: 2A3-070 Name: PICKEREL LAKE State: MN Date: 16OCT84
Sample Type: REGULAR Latitude: 47-55'07"N Longitude: 91-40'00"W
Elevation: 427 Surface Temp: 12.6 Stratified: MIXED Site Depth: 3.0
Lake Area: 72 Watershed Area: 251 WA/LA: 3.5 Hydro Type: DRAINAGE
Residence Time: 0.98 Secchi Depth: 3.0 Turbidity: 0.6 Color: 24
Closed pH: 7.74 Equil. pH: 8.28 ANC: 779.0 DOC: 9.60
Closed DIC: 8.03 Equil. DIC: 7.56 Meas. Cond: 89.0 Cal. Cond: 98.1
Ca: 676.1 Mg: 149.7 Na: 60.9 K: 9.2 NH4: 0.0
SO4: 203.0 HCO3: 610.8 Cl: 32.7 NO3: 0.0 F: 2.3
Sum Cations: 896.0 Sum Anions: 851.2 Cations/Anions: 1.05 Tot. P: 11.0
Tot. Al: 23.0 Ext. Al: 14.0 Fe: 10.0 Mn: 0.0 SiO2: 2.90

ID: 2A3-074 Name: RIDGEPOLE LAKE State: MN Date: 08OCT84
Sample Type: REGULAR Latitude: 47-32'45"N Longitude: 91-43'00"W
Elevation: 519 Surface Temp: 11.3 Stratified: MIXED Site Depth: 2.4
Lake Area: 9 Watershed Area: 127 WA/LA: 14.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.2 Turbidity: 1.7 Color: 37
Closed pH: 6.87 Equil. pH: 6.29 ANC: 34.0 DOC: 9.80
Closed DIC: 0.38 Equil. DIC: 0.23 Meas. Cond: 10.3 Cal. Cond: 8.7
Ca: 49.9 Mg: 27.1 Na: 6.5 K: 8.9 NH4: 0.6
SO4: 21.7 HCO3: 10.6 Cl: 5.9 NO3: 0.0 F: 2.1
Sum Cations: 94.4 Sum Anions: 40.3 Cations/Anions: 2.34 Tot. P: 8.0
Tot. Al: 40.0 Ext. Al: 9.0 Fe: 40.0 Mn: 110.0 SiO2: 1.72

ID: 2A3-076 Name: STUART LAKE State: MN Date: 14OCT84
Sample Type: REGULAR Latitude: 47-33'50"N Longitude: 93-02'50"W
Elevation: 435 Surface Temp: 13.9 Stratified: WEAK Site Depth: 7.3
Lake Area: 13 Watershed Area: 91 WA/LA: 6.9 Hydro Type: DRAINAGE
Residence Time: 2.19 Secchi Depth: 2.0 Turbidity: 0.8 Color: 45
Closed pH: 6.86 Equil. pH: 7.18 ANC: 163.0 DOC: 9.90
Closed DIC: 1.94 Equil. DIC: 1.54 Meas. Cond: 31.1 Cal. Cond: 30.0
Ca: 137.2 Mg: 88.0 Na: 40.0 K: 36.1 NH4: 0.0
SO4: 74.5 HCO3: 119.9 Cl: 13.3 NO3: 0.1 F: 2.1
Sum Cations: 301.4 Sum Anions: 210.1 Cations/Anions: 1.43 Tot. P: 22.0
Tot. Al: 47.0 Ext. Al: 16.0 Fe: 10.0 Mn: 20.0 SiO2: 0.41

(continued)

TABLE 3-1 (continued)

ID: 2A3-077 Name: BEDFORD LAKE State: MN Date: 23OCT84
Sample Type: REGULAR Latitude: 48-03'13"N Longitude: 91-15'36"W
Elevation: 457 Surface Temp: 9.1 Stratified: MIXED Site Depth: 15.5
Lake Area: 11 Watershed Area: 65 WA/LA: 6.1 Hydro Type: DRAINAGE
Residence Time: 3.46 Secchi Depth: 3.6 Turbidity: 0.6 Color: 23
Closed pH: 7.36 Equil. pH: 8.31 ANC: 680.0 DOC: 6.50
Closed DIC: 8.28 Equil. DIC: 7.28 Meas. Cond: 74.2 Cal. Cond: 77.0
Ca: 577.8 Mg: 126.7 Na: 40.0 K: 17.3 NH4: 0.6
SO4: 60.6 HCO3: 605.8 Cl: 7.3 NO3: 0.4 F: 1.5
Sum Cations: 762.4 Sum Anions: 677.3 Cations/Anions: 1.13 Tot. P: 10.0
Tot. Al: 11.0 Ext. Al: 1.0 Fe: 0.0 Mn: 0.0 SiO2: 1.56

ID: 2A3-078 Name: MOOSE LAKE State: MN Date: 20OCT84
Sample Type: REGULAR Latitude: 47-33'41"N Longitude: 91-08'00"W
Elevation: 488 Surface Temp: 6.7 Stratified: MIXED Site Depth: 1.8
Lake Area: 80 Watershed Area: 5294 WA/LA: 66.1 Hydro Type: DRAINAGE
Residence Time: 0.03 Secchi Depth: 0.4 Turbidity: 6.0 Color: 94
Closed pH: 7.38 Equil. pH: 7.92 ANC: 439.9 DOC: 10.70
Closed DIC: 4.87 Equil. DIC: 4.13 Meas. Cond: 52.8 Cal. Cond: 60.0
Ca: 355.8 Mg: 171.9 Na: 72.2 K: 10.2 NH4: 1.7
SO4: 75.6 HCO3: 391.3 Cl: 10.4 NO3: 5.5 F: 8.9
Sum Cations: 611.8 Sum Anions: 493.2 Cations/Anions: 1.24 Tot. P: 14.0
Tot. Al: 193.0 Ext. Al: 9.0 Fe: 180.0 Mn: 0.0 SiO2: 10.41

ID: 2A3-079 Name: CORNER LAKE State: MN Date: 21OCT84
Sample Type: REGULAR Latitude: 48-16'55"N Longitude: 92-46'45"W
Elevation: 408 Surface Temp: 6.0 Stratified: MIXED Site Depth: 0.9
Lake Area: 15 Watershed Area: 300 WA/LA: 19.6 Hydro Type: DRAINAGE
Residence Time: 0.13 Secchi Depth: 0.9 Turbidity: 1.9 Color: 125
Closed pH: 7.10 Equil. pH: 7.82 ANC: 408.6 DOC: 18.90
Closed DIC: 4.08 Equil. DIC: 2.82 Meas. Cond: 44.3 Cal. Cond: 45.7
Ca: 282.4 Mg: 199.1 Na: 38.7 K: 14.1 NH4: 0.0
SO4: 20.0 HCO3: 291.1 Cl: 7.9 NO3: 1.3 F: 1.9
Sum Cations: 534.4 Sum Anions: 322.5 Cations/Anions: 1.66 Tot. P: 19.0
Tot. Al: 55.0 Ext. Al: 16.0 Fe: 80.0 Mn: 0.0 SiO2: 2.59

ID: 2A3-080 Name: WEST TWO RIVER RES State: MN Date: 07OCT84
Sample Type: REGULAR Latitude: 47-28'48"N Longitude: 92-39'30"W
Elevation: 425 Surface Temp: 11.7 Stratified: MIXED Site Depth: 3.7
Lake Area: 46 Watershed Area: 5623 WA/LA: 121.7 Hydro Type: RESERVOIR
Residence Time: 0.11 Secchi Depth: 2.3 Turbidity: 1.0 Color: 26
Closed pH: 8.53 Equil. pH: 8.93 ANC: 2401.7 DOC: 7.50
Closed DIC: 35.80 Equil. DIC: 35.78 Meas. Cond: 494.0 Cal. Cond: 667.1
Ca: 1690.1 Mg: 2676.2 Na: 877.0 K: 165.2 NH4: 1.7
SO4: 1917.5 HCO3: 2964.6 Cl: 1006.7 NO3: 2.4 F: 24.4
Sum Cations: 5410.1 Sum Anions: 5986.8 Cations/Anions: 0.90 Tot. P: 24.0
Tot. Al: 17.0 Ext. Al: 3.0 Fe: 30.0 Mn: 20.0 SiO2: 0.83

ID: 2A3-081 Name: (NO NAME) State: MN Date: 07OCT84
Sample Type: REGULAR Latitude: 47-29'40"N Longitude: 92-36'30"W
Elevation: 431 Surface Temp: 11.2 Stratified: MIXED Site Depth: 7.0
Lake Area: 7 Watershed Area: 52 WA/LA: 7.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.8 Turbidity: 2.4 Color: 98
Closed pH: 6.46 Equil. pH: 7.32 ANC: 138.0 DOC: 15.50
Closed DIC: 1.67 Equil. DIC: 1.06 Meas. Cond: 28.2 Cal. Cond: 26.4
Ca: 125.7 Mg: 93.8 Na: 33.9 K: 33.0 NH4: 4.4
SO4: 50.4 HCO3: 77.9 Cl: 16.1 NO3: 6.8 F: 4.1
Sum Cations: 291.1 Sum Anions: 155.3 Cations/Anions: 1.87 Tot. P: 15.0
Tot. Al: 88.0 Ext. Al: 17.0 Fe: 470.0 Mn: 0.0 SiO2: 0.06

(continued)

TABLE 3-1 (continued)

ID: 2A3-082 Name: DIX LAKE State: MN Date: 23OCT84
Sample Type: REGULAR Latitude: 48-04'15"N Longitude: 91-14'00"W
Elevation: 440 Surface Temp: 9.7 Stratified: MIXED Site Depth: 12.2
Lake Area: 44 Watershed Area: 363 WA/LA: 8.3 Hydro Type: DRAINAGE
Residence Time: 2.14 Secchi Depth: 2.3 Turbidity: 1.1 Color: 23
Closed pH: 7.46 Equil. pH: 8.25 ANC: 704.0 DOC: 5.30
Closed DIC: 8.41 Equil. DIC: 7.69 Meas. Cond: 74.4 Cal. Cond: 77.2
Ca: 576.8 Mg: 139.0 Na: 33.9 K: 10.1 NH4: 2.8
SO4: 54.5 HCO3: 621.1 Cl: 7.9 NO3: 0.4 F: 1.5
Sum Cations: 762.7 Sum Anions: 687.3 Cations/Anions: 1.11 Tot. P: 13.0
Tot. Al: 12.0 Ext. Al: 0.0 Fe: 30.0 Mn: 0.0 SiO2: 0.91

ID: 2A3-083 Name: BUCKSHOT LAKE State: MN Date: 22OCT84
Sample Type: REGULAR Latitude: 47-53'48"N Longitude: 92-08'53"W
Elevation: 458 Surface Temp: 8.3 Stratified: MIXED Site Depth: 10.1
Lake Area: 12 Watershed Area: 67 WA/LA: 5.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.8 Turbidity: 0.6 Color: 32
Closed pH: 6.40 Equil. pH: 7.08 ANC: 89.0 DOC: 6.40
Closed DIC: 1.57 Equil. DIC: 0.97 Meas. Cond: 19.9 Cal. Cond: 19.7
Ca: 81.3 Mg: 52.6 Na: 35.7 K: 6.2 NH4: 16.6
SO4: 57.9 HCO3: 73.2 Cl: 6.5 NO3: 0.7 F: 2.2
Sum Cations: 192.7 Sum Anions: 140.6 Cations/Anions: 1.37 Tot. P: 7.0
Tot. Al: 41.0 Ext. Al: 6.0 Fe: 120.0 Mn: 20.0 SiO2: 2.93

ID: 2A3-085 Name: PARTRIDGE LAKE State: MN Date: 29OCT84
Sample Type: REGULAR Latitude: 48-05'03"N Longitude: 90-29'15"W
Elevation: 540 Surface Temp: 6.7 Stratified: MIXED Site Depth: 14.0
Lake Area: 47 Watershed Area: 275 WA/LA: 5.8 Hydro Type: DRAINAGE
Residence Time: 3.21 Secchi Depth: 2.6 Turbidity: 1.6 Color: 38
Closed pH: 6.99 Equil. pH: 7.90 ANC: 421.0 DOC: 6.40
Closed DIC: 5.42 Equil. DIC: 4.32 Meas. Cond: 55.8 Cal. Cond: 59.2
Ca: 313.4 Mg: 181.0 Na: 52.2 K: 15.9 NH4: 0.6
SO4: 127.6 HCO3: 355.8 Cl: 8.7 NO3: 2.9 F: 2.5
Sum Cations: 563.0 Sum Anions: 498.0 Cations/Anions: 1.13 Tot. P: 12.0
Tot. Al: 12.0 Ext. Al: 1.0 Fe: 170.0 Mn: 20.0 SiO2: 10.90

ID: 2B1-005 Name: LOON LAKE State: WI Date: 06NOV84
Sample Type: REGULAR Latitude: 46-34'15"N Longitude: 91-18'45"W
Elevation: 340 Surface Temp: 5.0 Stratified: MIXED Site Depth: 10.1
Lake Area: 15 Watershed Area: 70 WA/LA: 4.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.5 Turbidity: 0.4 Color: 17
Closed pH: 6.28 Equil. pH: 7.06 ANC: 31.0 DOC: 3.40
Closed DIC: 0.79 Equil. DIC: 0.38 Meas. Cond: 14.9 Cal. Cond: 14.3
Ca: 54.9 Mg: 39.5 Na: 15.2 K: 9.5 NH4: 0.6
SO4: 67.0 HCO3: 27.3 Cl: 6.8 NO3: 1.5 F: 1.1
Sum Cations: 120.3 Sum Anions: 103.7 Cations/Anions: 1.16 Tot. P: 10.0
Tot. Al: 17.0 Ext. Al: 1.0 Fe: 20.0 Mn: 0.0 SiO2: 0.00

ID: 2B1-008 Name: TWIN LAKES (SOUTHERN) State: WI Date: 06NOV84
Sample Type: REGULAR Latitude: 46-33'00"N Longitude: 91-16"30"W
Elevation: 332 Surface Temp: 3.9 Stratified: MIXED Site Depth: 3.4
Lake Area: 6 Watershed Area: 34 WA/LA: 5.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.7 Turbidity: 1.1 Color: 28
Closed pH: 6.47 Equil. pH: 7.12 ANC: 56.0 DOC: 5.80
Closed DIC: 1.26 Equil. DIC: 0.72 Meas. Cond: 11.1 Cal. Cond: 10.7
Ca: 48.9 Mg: 37.8 Na: 9.1 K: 4.9 NH4: 0.0
SO4: 16.4 HCO3: 72.7 Cl: 4.5 NO3: 0.0 F: 0.7
Sum Cations: 101.0 Sum Anions: 94.4 Cations/Anions: 1.07 Tot. P: 15.0
Tot. Al: 20.0 Ext. Al: 0.0 Fe: 190.0 Mn: 10.0 SiO2: 0.00

(continued)

TABLE 3-1 (continued)

ID: 2B1-010 Name: ISLAND LAKE State: WI Date: 06NOV84
Sample Type: REGULAR Latitude: 46-32'18"N Longitude: 91-18'20"W
Elevation: 336 Surface Temp: 5.1 Stratified: MIXED Site Depth: 9.4
Lake Area: 12 Watershed Area: 54 WA/LA: 4.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.4 Turbidity: 0.8 Color: 23
Closed pH: 6.52 Equil. pH: 7.15 ANC: 93.0 DOC: 4.60
Closed DIC: 1.73 Equil. DIC: 1.12 Meas. Cond: 13.8 Cal. Cond: 13.1
Ca: 63.9 Mg: 42.8 Na: 13.5 K: 5.4 NH4: 1.7
SO4: 16.9 HCO3: 88.1 Cl: 5.1 NO3: 0.0 F: 0.7
Sum Cations: 127.4 Sum Anions: 110.8 Cations/Anions: 1.15 Tot. P: 12.0
Tot. Al: 12.0 Ext. Al: 0.0 Fe: 130.0 Mn: 20.0 SiO2: 0.28

ID: 2B1-011 Name: WANOKA LAKE State: WI Date: 06NOV84
Sample Type: REGULAR Latitude: 46-32'43"N Longitude: 91-16'55"W
Elevation: 332 Surface Temp: 4.4 Stratified: MIXED Site Depth: 6.7
Lake Area: 6 Watershed Area: 47 WA/LA: 8.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.5 Turbidity: 0.6 Color: 18
Closed pH: 7.46 Equil. pH: 8.04 ANC: 404.0 DOC: 3.10
Closed DIC: 4.74 Equil. DIC: 4.52 Meas. Cond: 45.4 Cal. Cond: 46.1
Ca: 245.0 Mg: 163.7 Na: 40.0 K: 6.4 NH4: 0.0
SO4: 30.6 HCO3: 385.8 Cl: 5.9 NO3: 1.4 F: 1.5
Sum Cations: 455.2 Sum Anions: 426.4 Cations/Anions: 1.07 Tot. P: 12.0
Tot. Al: 27.0 Ext. Al: 0.0 Fe: 20.0 Mn: 0.0 SiO2: 1.40

ID: 2B1-012 Name: FINGER LAKE State: WI Date: 06NOV84
Sample Type: REGULAR Latitude: 46-30'45'N Longitude: 91-16'10"W
Elevation: 334 Surface Temp: 4.5 Stratified: MIXED Site Depth: 7.3
Lake Area: 18 Watershed Area: 347 WA/LA: 18.8 Hydro Type: DRAINAGE
Residence Time: 0.63 Secchi Depth: 0.9 Turbidity: 1.1 Color: 110
Closed pH: 6.22 Equil. pH: 7.01 ANC: 82.0 DOC: 11.60
Closed DIC: 1.49 Equil. DIC: 0.62 Meas. Cond: 20.1 Cal. Cond: 18.0
Ca: 90.3 Mg: 60.9 Na: 23.5 K: 13.3 NH4: 2.8
SO4: 45.4 HCO3: 54.6 Cl: 9.9 NO3: 0.3 F: 0.9
Sum Cations: 191.2 Sum Anions: 111.2 Cations/Anions: 1.72 Tot. P: 31.0
Tot. Al: 188.0 Ext. Al: 47.0 Fe: 280.0 Mn: 20.0 SiO2: 1.45

ID: 2B1-013 Name: LESTER LAKE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 46-30'00"N Longitude: 91-18'20"W
Elevation: 326 Surface Temp: 6.0 Stratified: MIXED Site Depth: 9.4
Lake Area: 10 Watershed Area: 220 WA/LA: 23.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.9 Turbidity: 1.5 Color: 22
Closed pH: 6.76 Equil. pH: 7.50 ANC: 211.9 DOC: 3.90
Closed DIC: 3.25 Equil. DIC: 3.16 Meas. Cond: 25.5 Cal. Cond: 30.0
Ca: 135.7 Mg: 84.7 Na: 31.3 K: 12.0 NH4: 5.8
SO4: 38.9 HCO3: 238.1 Cl: 7.9 NO3: 1.6 F: 1.4
Sum Cations: 269.7 Sum Anions: 288.2 Cations/Anions: 0.94 Tot. P: 6.0
Tot. Al: 4.0 Ext. Al: 2.0 Fe: 90.0 Mn: 20.0 SiO2: 0.53

ID: 2B1-015 Name: PHANTOM LAKE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 46-29'30"N Longitude: 91-17'45"W
Elevation: 325 Surface Temp: 5.4 Stratified: MIXED Site Depth: 11.3
Lake Area: 18 Watershed Area: 57 WA/LA: 3.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.5 Turbidity: 0.8 Color: 27
Closed pH: 6.48 Equil. pH: 6.84 ANC: 70.1 DOC: 6.00
Closed DIC: 1.09 Equil. DIC: 0.86 Meas. Cond: 13.1 Cal. Cond: 14.7
Ca: 72.9 Mg: 40.3 Na: 12.6 K: 12.5 NH4: 2.4
SO4: 46.2 HCO3: 44.2 Cl: 7.3 NO3: 1.4 F: 1.2
Sum Cations: 141.1 Sum Anions: 100.4 Cations/Anions: 1.41 Tot. P: 15.0
Tot. Al: 5.0 Ext. Al: 3.0 Fe: 170.0 Mn: 10.0 SiO2: 0.28

(continued)

TABLE 3-1 (continued)

ID: 2B1-016 Name: DEEP LAKE State: WI Date: 06NOV84
Sample Type: REGULAR Latitude: 46-29'37"N Longitude: 91-14'30"W
Elevation: 361 Surface Temp: 4.2 Stratified: MIXED Site Depth: 7.0
Lake Area: 4 Watershed Area: 83 WA/LA: 19.8 Hydro Type: DRAINAGE
Residence Time: 0.58 Secchi Depth: 0.9 Turbidity: 1.1 Color: 99
Closed pH: 5.85 Equil. pH: 6.97 ANC: 89.0 DOC: 11.30
Closed DIC: 3.04 Equil. DIC: 0.58 Meas. Cond: 21.1 Cal. Cond: 19.5
Ca: 97.3 Mg: 59.2 Na: 22.2 K: 13.3 NH4: 7.8
SO4: 54.1 HCO3: 57.9 Cl: 7.9 NO3: 1.0 F: 0.9
Sum Cations: 200.7 Sum Anions: 121.8 Cations/Anions: 1.65 Tot. P: 35.0
Tot. Al: 292.0 Ext. Al: 120.0 Fe: 310.0 Mn: 60.0 SiO2: 2.10

ID: 2B1-019 Name: SAWMILL LAKE State: WI Date: 06NOV84
Sample Type: REGULAR Latitude: 46-28'50"N Longitude: 91-14'45"W
Elevation: 364 Surface Temp: 4.2 Stratified: MIXED Site Depth: 20.4
Lake Area: 4 Watershed Area: 13 WA/LA: 3.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.9 Turbidity: 1.1 Color: 115
Closed pH: 5.50 Equil. pH: 6.25 ANC: 43.0 DOC: 12.20
Closed DIC: 2.52 Equil. DIC: 0.23 Meas. Cond: 17.4 Cal. Cond: 15.4
Ca: 69.4 Mg: 49.4 Na: 17.8 K: 14.1 NH4: 4.4
SO4: 50.2 HCO3: 22.6 Cl: 7.1 NO3: 0.0 F: 0.9
Sum Cations: 157.3 Sum Anions: 80.8 Cations/Anions: 1.95 Tot. P: 23.0
Tot. Al: 226.0 Ext. Al: 98.0 Fe: 450.0 Mn: 60.0 SiO2: 0.00

ID: 2B1-020 Name: PERCH LAKE State: WI Date: 01NOV84
Sample Type: REGULAR Latitude: 46-47'45"N Longitude: 91-05'40"W
Elevation: 337 Surface Temp: 4.3 Stratified: MIXED Site Depth: 3.7
Lake Area: 8 Watershed Area: 720 WA/LA: 94.7 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 0.5 Turbidity: 0.7 Color: 345
Closed pH: 4.53 Equil. pH: 4.51 ANC: -36.7 DOC: 28.80
Closed DIC: 0.89 Equil. DIC: 0.14 Meas. Cond: 27.8 Cal. Cond: 25.2
Ca: 68.9 Mg: 43.6 Na: 29.6 K: 15.1 NH4: 3.3
SO4: 29.1 HCO3: 0.9 Cl: 29.9 NO3: 2.9 F: 1.1
Sum Cations: 192.1 Sum Anions: 63.8 Cations/Anions: 3.01 Tot. P: 33.0
Tot. Al: 443.0 Ext. Al: 191.0 Fe: 1030.0 Mn: 40.0 SiO2: 2.72

ID: 2B1-022 Name: TWIN LAKES (EASTERN) State: WI Date: 01NOV84
Sample Type: REGULAR Latitude: 46-41'06"N Longitude: 91-03'30"W
Elevation: 336 Surface Temp: 6.0 Stratified: MIXED Site Depth: 3.3
Lake Area: 9 Watershed Area: 197 WA/LA: 22.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.3 Turbidity: 0.5 Color: 18
Closed pH: 5.90 Equil. pH: 6.36 ANC: 12.8 DOC: 3.35
Closed DIC: 0.70 Equil. DIC: 0.28 Meas. Cond: 13.0 Cal. Cond: 13.6
Ca: 41.2 Mg: 32.1 Na: 12.0 K: 13.0 NH4: 3.0
SO4: 69.6 HCO3: 14.3 Cl: 11.6 NO3: 1.2 F: 0.7
Sum Cations: 102.6 Sum Anions: 97.5 Cations/Anions: 1.05 Tot. P: 14.5
Tot. Al: 21.0 Ext. Al: 4.0 Fe: 20.0 Mn: 0.0 SiO2: 0.02

ID: 2B1-023 Name: LONG LAKE State: WI Date: 01NOV84
Sample Type: REGULAR Latitude: 46-39'43"N Longitude: 91-03'15"W
Elevation: 328 Surface Temp: 5.3 Stratified: MIXED Site Depth: 4.0
Lake Area: 13 Watershed Area: 1417 WA/LA: 109.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.0 Turbidity: 0.4 Color: 18
Closed pH: 6.06 Equil. pH: 6.27 ANC: 12.0 DOC: 4.00
Closed DIC: 0.45 Equil. DIC: 0.25 Meas. Cond: 14.4 Cal. Cond: 14.4
Ca: 45.9 Mg: 35.4 Na: 13.0 K: 16.6 NH4: 2.2
SO4: 79.3 HCO3: 10.1 Cl: 6.2 NO3: 1.2 F: 0.8
Sum Cations: 114.3 Sum Anions: 97.6 Cations/Anions: 1.17 Tot. P: 12.0
Tot. Al: 42.0 Ext. Al: 7.0 Fe: 50.0 Mn: 0.0 SiO2: 0.00

(continued)

TABLE 3-1 (continued)

ID: 2B1-029 Name: MARKEY LAKE State: MI Date: 03NOV84
Sample Type: REGULAR Latitude: 46-34'22"N Longitude: 88-46'55"W
Elevation: 413 Surface Temp: 5.4 Stratified: MIXED Site Depth: 20.4
Lake Area: 18 Watershed Area: 114 WA/LA: 6.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.4 Turbidity: 0.4 Color: 20
Closed pH: 5.73 Equil. pH: 6.38 ANC: 16.1 DOC: 3.40
Closed DIC: 0.85 Equil. DIC: 0.31 Meas. Cond: 14.4 Cal. Cond: 14.1
Ca: 45.9 Mg: 31.3 Na: 12.2 K: 18.2 NH4: 0.6
SO4: 73.7 HCO3: 14.6 Cl: 7.1 NO3: 0.7 F: 0.8
Sum Cations: 109.6 Sum Anions: 96.8 Cations/Anions: 1.13 Tot. P: 9.0
Tot. Al: 35.0 Ext. Al: 14.0 Fe: 40.0 Mn: 0.0 SiO2: 0.20

ID: 2B1-031 Name: ESTES LAKE State: MI Date: 03NOV84
Sample Type: REGULAR Latitude: 46-33'31"N Longitude: 88-45'18"W
Elevation: 406 Surface Temp: 5.7 Stratified: MIXED Site Depth: 18.3
Lake Area: 11 Watershed Area: 161 WA/LA: 14.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.0 Turbidity: 0.6 Color: 25
Closed pH: 6.07 Equil. pH: 6.85 ANC: 49.0 DOC: 4.10
Closed DIC: 1.63 Equil. DIC: 0.58 Meas. Cond: 17.7 Cal. Cond: 17.6
Ca: 71.9 Mg: 38.7 Na: 13.0 K: 23.5 NH4: 0.6
SO4: 79.1 HCO3: 43.1 Cl: 4.8 NO3: 0.0 F: 0.7
Sum Cations: 148.3 Sum Anions: 127.8 Cations/Anions: 1.16 Tot. P: 10.0
Tot. Al: 36.0 Ext. Al: 9.0 Fe: 60.0 Mn: 10.0 SiO2: 0.22

ID: 2B1-034 Name: TEAL LAKE State: MI Date: 20OCT84
Sample Type: REGULAR Latitude: 46-33'57"N Longitude: 86-05'33"W
Elevation: 286 Surface Temp: 11.1 Stratified: MIXED Site Depth: 6.1
Lake Area: 24 Watershed Area: 471 WA/LA: 19.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.7 Turbidity: 0.5 Color: 10
Closed pH: 6.06 Equil. pH: 6.42 ANC: 13.5 DOC: 2.50
Closed DIC: 0.49 Equil. DIC: 0.22 Meas. Cond: 10.9 Cal. Cond: 12.1
Ca: 50.9 Mg: 23.9 Na: 10.9 K: 12.8 NH4: 1.1
SO4: 60.0 HCO3: 17.5 Cl: 5.6 NO3: 0.0 F: 0.7
Sum Cations: 100.1 Sum Anions: 83.9 Cations/Anions: 1.19 Tot. P: 9.0
Tot. Al: 9.0 Ext. Al: 3.0 Fe: 0.0 Mn: 10.0 SiO2: 0.48

ID: 2B1-035 Name: LAKE NITA State: MI Date: 20OCT84
Sample Type: REGULAR Latitude: 46-33'00"N Longitude: 86-03'51"W
Elevation: 282 Surface Temp: 10.2 Stratified: MIXED Site Depth: 2.4
Lake Area: 4 Watershed Area: 119 WA/LA: 27.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.5 Turbidity: 1.1 Color: 80
Closed pH: 4.96 Equil. pH: 5.04 ANC: 3.8 DOC: 4.70
Closed DIC: 0.81 Equil. DIC: 0.43 Meas. Cond: 9.0 Cal. Cond: 9.0
Ca: 22.0 Mg: 13.2 Na: 6.5 K: 15.3 NH4: 3.3
SO4: 16.9 HCO3: 2.0 Cl: 4.5 NO3: 0.1 F: 0.7
Sum Cations: 70.3 Sum Anions: 24.2 Cations/Anions: 2.91 Tot. P: 17.0
Tot. Al: 49.0 Ext. Al: 18.0 Fe: 110.0 Mn: 30.0 SiO2: 0.61

ID: 2B1-036 Name: NUGENT LAKE State: MI Date: 20OCT84
Sample Type: REGULAR Latitude: 46-31'42"N Longitude: 86-11'38"W
Elevation: 274 Surface Temp: 10.4 Stratified: MIXED Site Depth: 8.5
Lake Area: 11 Watershed Area: 78 WA/LA: 6.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.9 Turbidity: 0.6 Color: 10
Closed pH: 7.19 Equil. pH: 7.69 ANC: 223.0 DOC: 4.40
Closed DIC: 2.73 Equil. DIC: 2.56 Meas. Cond: 29.6 Cal. Cond: 35.9
Ca: 223.6 Mg: 60.9 Na: 17.4 K: 10.7 NH4: 0.5
SO4: 67.7 HCO3: 264.8 Cl: 5.4 NO3: 0.0 F: 1.0
Sum Cations: 313.1 Sum Anions: 339.3 Cations/Anions: 0.92 Tot. P: 9.0
Tot. Al: 12.0 Ext. Al: 7.0 Fe: 10.0 Mn: 0.0 SiO2: 0.71

(continued)

TABLE 3-1 (continued)

ID: 2B1-037 Name: WISE LAKE State: MI Date: 20OCT84
Sample Type: REGULAR Latitude: 46-31'35"N Longitude: 86-10'23"W
Elevation: 273 Surface Temp: 8.7 Stratified: MIXED Site Depth: 2.4
Lake Area: 9 Watershed Area: 132 WA/LA: 14.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.4 Turbidity: 0.8 Color: 15
Closed pH: 7.56 Equil. pH: 8.11 ANC: 581.4 DOC: 12.90
Closed DIC: 6.97 Equil. DIC: 6.05 Meas. Cond: 61.7 Cal. Cond: 65.2
Ca: 467.6 Mg: 142.3 Na: 22.6 K: 13.3 NH4: 0.5
SO4: 64.1 HCO3: 489.1 Cl: 7.9 NO3: 0.1 F: 1.6
Sum Cations: 646.3 Sum Anions: 564.9 Cations/Anions: 1.14 Tot. P: 16.0
Tot. Al: 5.0 Ext. Al: 7.0 Fe: 0.0 Mn: 0.0 SiO2: 1.82

ID: 2B1-038 Name: (NO NAME) State: MI Date: 20OCT84
Sample Type: REGULAR Latitude: 46-30'42"N Longitude: 86-09'10"W
Elevation: 273 Surface Temp: 10.2 Stratified: MIXED Site Depth: 1.8
Lake Area: 6 Watershed Area: 57 WA/LA: 9.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.3 Turbidity: 0.4 Color: 15
Closed pH: 4.56 Equil. pH: 4.56 ANC: -28.6 DOC: 3.80
Closed DIC: 0.34 Equil. DIC: 0.54 Meas. Cond: 17.4 Cal. Cond: 18.2
Ca: 25.9 Mg: 16.5 Na: 4.3 K: 7.7 NH4: 2.7
SO4: 66.8 HCO3: 0.8 Cl: 4.5 NO3: 0.6 F: 0.6
Sum Cations: 82.8 Sum Anions: 73.4 Cations/Anions: 1.13 Tot. P: 12.0
Tot. Al: 5.0 Ext. Al: 18.0 Fe: 10.0 Mn: 30.0 SiO2: 0.06

ID: 2B1-039 Name: WEST BRANCH LAKES (SW) State: MI Date: 20OCT84
Sample Type: REGULAR Latitude: 46-30'38"N Longitude: 86-06'18"W
Elevation: 267 Surface Temp: 10.7 Stratified: MIXED Site Depth: 2.4
Lake Area: 16 Watershed Area: 122 WA/LA: 7.8 Hydro Type: DRAINAGE
Residence Time: 0.30 Secchi Depth: 2.4 Turbidity: 0.3 Color: 20
Closed pH: 4.98 Equil. pH: 4.93 ANC: -5.6 DOC: 3.50
Closed DIC: 0.30 Equil. DIC: 0.27 Meas. Cond: 15.7 Cal. Cond: 15.7
Ca: 37.4 Mg: 21.4 Na: 11.3 K: 14.3 NH4: 2.2
SO4: 76.4 HCO3: 1.3 Cl: 4.2 NO3: 0.0 F: 0.8
Sum Cations: 98.1 Sum Anions: 82.8 Cations/Anions: 1.18 Tot. P: 13.0
Tot. Al: 108.0 Ext. Al: 55.0 Fe: 40.0 Mn: 40.0 SiO2: 0.21

ID: 2B1-040 Name: WEST BRANCH LAKES (SE) State: MI Date: 20OCT84
Sample Type: REGULAR Latitude: 46-30'44"N Longitude: 86-05'46"W
Elevation: 270 Surface Temp: 10.7 Stratified: MIXED Site Depth: 5.5
Lake Area: 5 Watershed Area: 21 WA/LA: 4.7 Hydro Type: DRAINAGE
Residence Time: 0.99 Secchi Depth: 2.0 Turbidity: 1.1 Color: 50
Closed pH: 4.74 Equil. pH: 4.77 ANC: -11.6 DOC: 5.60
Closed DIC: 1.05 Equil. DIC: 0.50 Meas. Cond: 16.9 Cal. Cond: 16.7
Ca: 36.4 Mg: 18.9 Na: 7.4 K: 12.5 NH4: 2.2
SO4: 64.1 HCO3: 1.2 Cl: 5.9 NO3: 0.2 F: 0.7
Sum Cations: 95.6 Sum Anions: 72.1 Cations/Anions: 1.33 Tot. P: 19.0
Tot. Al: 98.0 Ext. Al: 56.0 Fe: 180.0 Mn: 40.0 SiO2: 0.53

ID: 2B1-041 Name: TRIANGLE LAKE State: MI Date: 23OCT84
Sample Type: REGULAR Latitude: 46-31'48"N Longitude: 86-05'37"W
Elevation: 276 Surface Temp: 9.2 Stratified: MIXED Site Depth: 7.0
Lake Area: 20 Watershed Area: 60 WA/LA: 3.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.4 Turbidity: 0.4 Color: 25
Closed pH: 5.13 Equil. pH: 5.12 ANC: 9.0 DOC: 4.10
Closed DIC: 0.56 Equil. DIC: 0.18 Meas. Cond: 15.1 Cal. Cond: 15.8
Ca: 37.9 Mg: 26.3 Na: 11.3 K: 12.0 NH4: 3.3
SO4: 82.7 HCO3: 1.6 Cl: 5.9 NO3: 0.6 F: 0.8
Sum Cations: 100.2 Sum Anions: 91.7 Cations/Anions: 1.09 Tot. P: 22.0
Tot. Al: 34.0 Ext. Al: 28.0 Fe: 20.0 Mn: 30.0 SiO2: 0.00

(continued)

TABLE 3-1 (continued)

ID: 2B1-042 Name: LONG LAKE State: MI Date: 20OCT84
Sample Type: REGULAR Latitude: 46-30'08"N Longitude: 86-05'17"W
Elevation: 262 Surface Temp: 10.9 Stratified: MIXED Site Depth: 4.3
Lake Area: 8 Watershed Area: 36 WA/LA: 4.3 Hydro Type: DRAINAGE
Residence Time: 0.82 Secchi Depth: 1.9 Turbidity: 1.0 Color: 35
Closed pH: 5.01 Equil. pH: 5.07 ANC: -0.2 DOC: 6.20
Closed DIC: 0.54 Equil. DIC: 0.22 Meas. Cond: 11.5 Cal. Cond: 11.8
Ca: 35.4 Mg: 15.6 Na: 5.7 K: 11.3 NH4: 1.1
SO4: 50.2 HCO3: 0.8 Cl: 5.6 NO3: 0.0 F: 0.7
Sum Cations: 78.1 Sum Anions: 57.3 Cations/Anions: 1.36 Tot. P: 18.0
Tot. Al: 37.0 Ext. Al: 21.0 Fe: 100.0 Mn: 40.0 SiO2: 0.59

ID: 2B1-043 Name: OWL LAKE State: MI Date: 20OCT84
Sample Type: REGULAR Latitude: 46-30'24"N Longitude: 86-04'20"W
Elevation: 263 Surface Temp: 9.9 Stratified: MIXED Site Depth: 1.2
Lake Area: 11 Watershed Area: 88 WA/LA: 8.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.5 Turbidity: 1.0 Color: 65
Closed pH: 6.00 Equil. pH: 6.26 ANC: 35.7 DOC: 12.60
Closed DIC: 0.40 Equil. DIC: 0.28 Meas. Cond: 20.0 Cal. Cond: 17.6
Ca: 95.8 Mg: 46.9 Na: 10.9 K: 9.2 NH4: 2.2
SO4: 82.0 HCO3: 7.9 Cl: 7.1 NO3: 4.3 F: 0.9
Sum Cations: 165.7 Sum Anions: 102.3 Cations/Anions: 1.62 Tot. P: 18.0
Tot. Al: 79.0 Ext. Al: 22.0 Fe: 190.0 Mn: 0.0 SiO2: 0.40

ID: 2B1-044 Name: SPRUCE LAKE State: MI Date: 23OCT84
Sample Type: REGULAR Latitude: 46-31'03"N Longitude: 86-04'00"W
Elevation: 264 Surface Temp: 8.6 Stratified: MIXED Site Depth: 3.0
Lake Area: 4 Watershed Area: 36 WA/LA: 8.6 Hydro Type: DRAINAGE
Residence Time: 0.34 Secchi Depth: 2.8 Turbidity: 0.7 Color: 30
Closed pH: 6.93 Equil. pH: 7.67 ANC: 142.0 DOC: 6.00
Closed DIC: 2.01 Equil. DIC: 1.72 Meas. Cond: 27.7 Cal. Cond: 30.0
Ca: 126.7 Mg: 117.6 Na: 13.0 K: 11.9 NH4: 4.4
SO4: 98.5 HCO3: 125.3 Cl: 9.9 NO3: 0.4 F: 1.1
Sum Cations: 273.9 Sum Anions: 235.2 Cations/Anions: 1.16 Tot. P: 14.0
Tot. Al: 35.0 Ext. Al: 0.0 Fe: 20.0 Mn: 0.0 SiO2: 0.66

ID: 2B1-046 Name: SPRING LAKE State: MI Date: 20OCT84
Sample Type: REGULAR Latitude: 46-29'37"N Longitude: 86-06'59"W
Elevation: 258 Surface Temp: 8.7 Stratified: MIXED Site Depth: 2.1
Lake Area: 5 Watershed Area: 44 WA/LA: 8.3 Hydro Type: DRAINAGE
Residence Time: 0.25 Secchi Depth: 1.7 Turbidity: 0.4 Color: 10
Closed pH: 7.53 Equil. pH: 8.27 ANC: 818.0 DOC: 8.90
Closed DIC: 10.31 Equil. DIC: 8.74 Meas. Cond: 90.7 Cal. Cond: 97.2
Ca: 615.8 Mg: 308.5 Na: 31.8 K: 15.3 NH4: 0.5
SO4: 122.0 HCO3: 697.8 Cl: 4.5 NO3: 0.0 F: 1.7
Sum Cations: 971.9 Sum Anions: 829.8 Cations/Anions: 1.17 Tot. P: 21.0
Tot. Al: 21.0 Ext. Al: 6.0 Fe: 0.0 Mn: 0.0 SiO2: 3.77

ID: 2B1-047 Name: JOHNSON LAKE State: MI Date: 22OCT84
Sample Type: REG/SPC/LTM/ Latitude: 46-25'30"N Longitude: 85-02'38"W
Elevation: 252 Surface Temp: 10.1 Stratified: MIXED Site Depth: 3.4
Lake Area: 17 Watershed Area: 137 WA/LA: 8.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.4 Turbidity: 0.3 Color: 5
Closed pH: 4.55 Equil. pH: 4.58 ANC: -37.2 DOC: 0.50
Closed DIC: 0.25 Equil. DIC: 0.19 Meas. Cond: 27.9 Cal. Cond: 29.0
Ca: 57.4 Mg: 30.4 Na: 6.1 K: 8.7 NH4: 1.7
SO4: 133.0 HCO3: 0.3 Cl: 10.2 NO3: 4.7 F: 0.7
Sum Cations: 135.9 Sum Anions: 148.9 Cations/Anions: 0.91 Tot. P: 2.0
Tot. Al: 61.0 Ext. Al: 45.0 Fe: 0.0 Mn: 100.0 SiO2: 0.00

(continued)

TABLE 3-1 (continued)

ID: 2B1-048 Name: MCNEARNEY LAKE State: MI Date: 22OCT84
Sample Type: REG/SPC/LTM/NRC/ Latitude: 46-25'35"N Longitude: 84-57'30"W
Elevation: 264 Surface Temp: 11.1 Stratified: MIXED Site Depth: 7.6
Lake Area: 50 Watershed Area: 199 WA/LA: 4.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 7.6 Turbidity: 0.2 Color: 10
Closed pH: 4.43 Equil. pH: 4.51 ANC: -48.0 DOC: 0.20
Closed DIC: 0.22 Equil. DIC: 0.16 Meas. Cond: 32.6 Cal. Cond: 32.6
Ca: 58.4 Mg: 19.7 Na: 7.8 K: 6.8 NH4: 1.7
SO4: 143.9 HCO3: 0.2 Cl: 6.8 NO3: 5.1 F: 0.8
Sum Cations: 136.1 Sum Anions: 156.8 Cations/Anions: 0.87 Tot. P: 0.0
Tot. Al: 287.0 Ext. Al: 213.0 Fe: 20.0 Mn: 50.0 SiO2: 0.00

ID: 2B1-050 Name: SOLDIER LAKE State: MI Date: 22OCT84
Sample Type: REGULAR Latitude: 46-20'57"N Longitude: 84-51'59"W
Elevation: 272 Surface Temp: 9.4 Stratified: MIXED Site Depth: 4.3
Lake Area: 6 Watershed Area: 49 WA/LA: 8.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.9 Turbidity: 0.5 Color: 10
Closed pH: 6.50 Equil. pH: 6.73 ANC: 29.0 DOC: 2.40
Closed DIC: 0.55 Equil. DIC: 0.48 Meas. Cond: 23.3 Cal. Cond: 23.9
Ca: 101.3 Mg: 46.1 Na: 26.1 K: 10.4 NH4: 0.0
SO4: 124.3 HCO3: 28.3 Cl: 25.7 NO3: 0.0 F: 1.1
Sum Cations: 184.1 Sum Anions: 179.3 Cations/Anions: 1.03 Tot. P: 7.0
Tot. Al: 29.0 Ext. Al: 5.0 Fe: 0.0 Mn: 0.0 SiO2: 0.24

ID: 2B1-052 Name: PECK AND RYE LAKE State: MI Date: 22OCT84
Sample Type: REGULAR Latitude: 46-23'50"N Longitude: 84-58'00"W
Elevation: 276 Surface Temp: 9.3 Stratified: MIXED Site Depth: 1.8
Lake Area: 5 Watershed Area: 39 WA/LA: 8.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.0 Turbidity: 0.5 Color: 25
Closed pH: 4.95 Equil. pH: 4.99 ANC: -11.8 DOC: 4.00
Closed DIC: 0.73 Equil. DIC: 0.18 Meas. Cond: 14.9 Cal. Cond: 14.4
Ca: 31.9 Mg: 18.9 Na: 3.5 K: 8.7 NH4: 12.2
SO4: 61.8 HCO3: 1.5 Cl: 6.8 NO3: 1.0 F: 1.0
Sum Cations: 87.0 Sum Anions: 72.2 Cations/Anions: 1.21 Tot. P: 7.0
Tot. Al: 23.0 Ext. Al: 6.0 Fe: 40.0 Mn: 60.0 SiO2: 0.00

ID: 2B1-055 Name: DEADMAN LAKE State: MI Date: 23OCT84
Sample Type: REGULAR Latitude: 46-32'41"N Longitude: 86-03'00"W
Elevation: 281 Surface Temp: 6.1 Stratified: MIXED Site Depth: 1.5
Lake Area: 9 Watershed Area: 132 WA/LA: 14.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.8 Turbidity: 1.3 Color: 50
Closed pH: 7.16 Equil. pH: 7.96 ANC: 367.0 DOC: 11.30
Closed DIC: 4.38 Equil. DIC: 3.76 Meas. Cond: 43.4 Cal. Cond: 43.6
Ca: 241.5 Mg: 189.2 Na: 19.6 K: 12.0 NH4: 7.2
SO4: 39.1 HCO3: 287.7 Cl: 9.6 NO3: 0.1 F: 1.3
Sum Cations: 469.6 Sum Anions: 338.1 Cations/Anions: 1.39 Tot. P: 29.0
Tot. Al: 21.0 Ext. Al: 0.0 Fe: 40.0 Mn: 0.0 SiO2: 3.64

ID: 2B1-057 Name: HAY LAKE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 46-28'46"N Longitude: 91-17'09"W
Elevation: 318 Surface Temp: 1.9 Stratified: MIXED Site Depth: 1.8
Lake Area: 23 Watershed Area: 355 WA/LA: 15.4 Hydro Type: DRAINAGE
Residence Time: 0.18 Secchi Depth: 1.8 Turbidity: 0.4 Color: 18
Closed pH: 7.81 Equil. pH: 8.39 ANC: 1313.6 DOC: 2.90
Closed DIC: 15.54 Equil. DIC: 16.78 Meas. Cond: 126.7 Cal. Cond: 152.5
Ca: 887.7 Mg: 376.8 Na: 113.1 K: 25.3 NH4: 1.8
SO4: 55.2 HCO3: 1438.9 Cl: 35.0 NO3: 0.0 F: 3.4
Sum Cations: 1404.7 Sum Anions: 1543.7 Cations/Anions: 0.91 Tot. P: 18.0
Tot. Al: 0.0 Ext. Al: 1.0 Fe: 40.0 Mn: 10.0 SiO2: 12.27

(continued)

TABLE 3-1 (continued)

ID: 2B1-060 Name: CLYDE LAKE State: MI Date: 20OCT84
Sample Type: REGULAR Latitude: 46-32'30"N Longitude: 86-10'00"W
Elevation: 270 Surface Temp: 9.1 Stratified: MIXED Site Depth: 2.1
Lake Area: 5 Watershed Area: 21 WA/LA: 4.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.1 Turbidity: 2.2 Color: 20
Closed pH: 7.15 Equil. pH: 7.68 ANC: 218.1 DOC: 6.80
Closed DIC: 2.71 Equil. DIC: 2.54 Meas. Cond: 27.7 Cal. Cond: 26.3
Ca: 139.2 Mg: 40.3 Na: 14.8 K: 10.7 NH4: 0.5
SO4: 51.4 HCO3: 216.8 Cl: 6.5 NO3: 0.1 F: 1.0
Sum Cations: 205.6 Sum Anions: 276.2 Cations/Anions: 0.74 Tot. P: 17.0
Tot. Al: 23.0 Ext. Al: 3.0 Fe: 20.0 Mn: 10.0 SiO2: 1.86

ID: 2B1-061 Name: GOPHER LAKE State: MI Date: 23OCT84
Sample Type: REGULAR Latitude: 46-31'12"N Longitude: 86-03'30"W
Elevation: 267 Surface Temp: 9.9 Stratified: MIXED Site Depth: 9.8
Lake Area: 6 Watershed Area: 41 WA/LA: 6.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.4 Turbidity: 0.6 Color: 5
Closed pH: 5.05 Equil. pH: 5.11 ANC: -15.2 DOC: 1.60
Closed DIC: 0.78 Equil. DIC: 0.15 Meas. Cond: 12.4 Cal. Cond: 12.6
Ca: 29.9 Mg: 14.8 Na: 5.2 K: 8.3 NH4: 3.3
SO4: 60.4 HCO3: 2.1 Cl: 6.2 NO3: 0.1 F: 0.7
Sum Cations: 71.6 Sum Anions: 69.5 Cations/Anions: 1.03 Tot. P: 11.0
Tot. Al: 16.0 Ext. Al: 5.0 Fe: 30.0 Mn: 30.0 SiO2: 0.17

ID: 2B1-063 Name: FULLER LAKE State: MI Date: 03NOV84
Sample Type: REGULAR Latitude: 46-35'15"N Longitude: 88-47'05"W
Elevation: 424 Surface Temp: 3.4 Stratified: MIXED Site Depth: 10.9
Lake Area: 7 Watershed Area: 18 WA/LA: 2.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.5 Turbidity: 0.8 Color: 40
Closed pH: 6.08 Equil. pH: 6.92 ANC: 59.0 DOC: 5.60
Closed DIC: 1.66 Equil. DIC: 0.59 Meas. Cond: 14.1 Cal. Cond: 13.5
Ca: 46.9 Mg: 28.8 Na: 13.0 K: 26.1 NH4: 0.6
SO4: 38.3 HCO3: 56.7 Cl: 5.6 NO3: 1.8 F: 3.9
Sum Cations: 115.9 Sum Anions: 106.4 Cations/Anions: 1.09 Tot. P: 27.0
Tot. Al: 45.0 Ext. Al: 13.0 Fe: 60.0 Mn: 0.0 SiO2: 0.21

ID: 2B1-064 Name: MALLARD LAKE State: MI Date: 20OCT84
Sample Type: REGULAR Latitude: 46-33'51"N Longitude: 86-06'36"W
Elevation: 288 Surface Temp: 10.7 Stratified: MIXED Site Depth: 3.0
Lake Area: 9 Watershed Area: 39 WA/LA: 4.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.6 Turbidity: 0.6 Color: 35
Closed pH: 5.06 Equil. pH: 5.11 ANC: -5.9 DOC: 1.80
Closed DIC: 0.41 Equil. DIC: 0.15 Meas. Cond: 12.4 Cal. Cond: 26.1
Ca: 222.1 Mg: 60.0 Na: 16.1 K: 12.3 NH4: 2.7
SO4: 52.3 HCO3: 1.1 Cl: 5.9 NO3: 3.4 F: 0.6
Sum Cations: 321.3 Sum Anions: 63.3 Cations/Anions: 5.08 Tot. P: 10.0
Tot. Al: 36.0 Ext. Al: 7.0 Fe: 10.0 Mn: 10.0 SiO2: 0.32

ID: 2B1-065 Name: PENEGOR LAKE State: MI Date: 03NOV84
Sample Type: REGULAR Latitude: 46-36'55"N Longitude: 88-51'36"W
Elevation: 433 Surface Temp: 4.3 Stratified: MIXED Site Depth: 16.5
Lake Area: 4 Watershed Area: 31 WA/LA: 7.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.3 Turbidity: 0.6 Color: 65
Closed pH: 5.32 Equil. pH: 5.83 ANC: 14.0 DOC: 8.20
Closed DIC: 2.11 Equil. DIC: 0.21 Meas. Cond: 18.7 Cal. Cond: 17.5
Ca: 66.9 Mg: 39.5 Na: 16.1 K: 14.1 NH4: 3.9
SO4: 84.1 HCO3: 12.2 Cl: 6.2 NO3: 0.0 F: 1.0
Sum Cations: 144.6 Sum Anions: 103.5 Cations/Anions: 1.40 Tot. P: 16.0
Tot. Al: 205.0 Ext. Al: 94.0 Fe: 400.0 Mn: 50.0 SiO2: 0.94

(continued)

TABLE 3-1 (continued)

ID: 2B1-066 Name: LAMBERT LAKE State: MI Date: 20OCT84
Sample Type: REGULAR Latitude: 46-30'33"N Longitude: 86-05'08"W
Elevation: 266 Surface Temp: 10.7 Stratified: MIXED Site Depth: 3.0
Lake Area: 15 Watershed Area: 91 WA/LA: 6.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.0 Turbidity: 0.6 Color: 15
Closed pH: 4.65 Equil. pH: 4.66 ANC: -19.9 DOC: 1.60
Closed DIC: 0.23 Equil. DIC: 0.26 Meas. Cond: 19.4 Cal. Cond: 20.7
Ca: 35.9 Mg: 19.7 Na: 10.0 K: 13.0 NH4: 0.5
SO4: 91.4 HCO3: 0.6 Cl: 5.4 NO3: 0.0 F: 0.8
Sum Cations: 102.7 Sum Anions: 98.2 Cations/Anions: 1.05 Tot. P: 15.0
Tot. Al: 103.0 Ext. Al: 71.0 Fe: 20.0 Mn: 30.0 SiO2: 0.18

ID: 2B1-067 Name: SPIDER LAKE State: WI Date: 06NOV84
Sample Type: REGULAR Latitude: 46-32'40"N Longitude: 91-13'44"W
Elevation: 328 Surface Temp: 3.1 Stratified: MIXED Site Depth: 3.4
Lake Area: 27 Watershed Area: 477 WA/LA: 18.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.9 Turbidity: 0.9 Color: 18
Closed pH: 6.61 Equil. pH: 7.03 ANC: 68.0 DOC: 6.90
Closed DIC: 0.87 Equil. DIC: 0.69 Meas. Cond: 14.5 Cal. Cond: 13.4
Ca: 50.4 Mg: 54.3 Na: 20.4 K: 8.4 NH4: 0.6
SO4: 36.9 HCO3: 49.4 Cl: 7.3 NO3: 0.0 F: 1.0
Sum Cations: 134.5 Sum Anions: 94.6 Cations/Anions: 1.42 Tot. P: 27.0
Tot. Al: 17.0 Ext. Al: 2.0 Fe: 30.0 Mn: 0.0 SiO2: 0.00

ID: 2B1-068 Name: EWATT LAKE State: MI Date: 20OCT84
Sample Type: REGULAR Latitude: 46-33'00"N Longitude: 86-10'48"W
Elevation: 272 Surface Temp: 10.1 Stratified: MIXED Site Depth: 3.7
Lake Area: 8 Watershed Area: 78 WA/LA: 9.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.1 Turbidity: 0.6 Color: 15
Closed pH: 7.29 Equil. pH: 7.78 ANC: 270.8 DOC: 6.50
Closed DIC: 3.39 Equil. DIC: 3.16 Meas. Cond: 25.1 Cal. Cond: 25.6
Ca: 61.9 Mg: 21.4 Na: 6.5 K: 10.7 NH4: 11.6
SO4: 69.7 HCO3: 289.1 Cl: 3.9 NO3: 0.0 F: 1.0
Sum Cations: 112.2 Sum Anions: 364.4 Cations/Anions: 0.31 Tot. P: 10.0
Tot. Al: 9.0 Ext. Al: 14.0 Fe: 40.0 Mn: 40.0 SiO2: 1.06

ID: 2B1-070 Name: BEAR LAKE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 46-29'29"N Longitude: 91-18'11"W
Elevation: 319 Surface Temp: 4.5 Stratified: MIXED Site Depth: 3.0
Lake Area: 11 Watershed Area: 344 WA/LA: 30.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.0 Turbidity: 0.3 Color: 12
Closed pH: 7.54 Equil. pH: 8.48 ANC: 1483.7 DOC: 1.40
Closed DIC: 18.64 Equil. DIC: 18.03 Meas. Cond: 143.1 Cal. Cond: 165.4
Ca: 1021.5 Mg: 438.4 Na: 87.4 K: 24.0 NH4: 1.3
SO4: 82.2 HCO3: 1494.9 Cl: 14.4 NO3: 1.3 F: 3.2
Sum Cations: 1572.7 Sum Anions: 1606.6 Cations/Anions: 0.98 Tot. P: 4.0
Tot. Al: 2.0 Ext. Al: 3.0 Fe: 20.0 Mn: 20.0 SiO2: 15.47

ID: 2B2-001 Name: CANTHOOK LAKE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 46-28'22"N Longitude: 91-21'20"W
Elevation: 339 Surface Temp: 5.3 Stratified: MIXED Site Depth: 11.0
Lake Area: 16 Watershed Area: 158 WA/LA: 9.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.9 Turbidity: 0.6 Color: 13
Closed pH: 6.90 Equil. pH: 7.25 ANC: 100.4 DOC: 3.20
Closed DIC: 1.44 Equil. DIC: 0.97 Meas. Cond: 13.7 Cal. Cond: 16.3
Ca: 87.8 Mg: 40.3 Na: 13.9 K: 12.0 NH4: 0.0
SO4: 38.5 HCO3: 74.3 Cl: 9.3 NO3: 1.7 F: 1.1
Sum Cations: 154.2 Sum Anions: 124.9 Cations/Anions: 1.23 Tot. P: 9.0
Tot. Al: 2.0 Ext. Al: 2.0 Fe: 20.0 Mn: 10.0 SiO2: 0.60

(continued)

TABLE 3-1 (continued)

ID: 2B2-004 Name: WRIGHT LAKE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 46-31'15"N Longitude: 91-28'45"W
Elevation: 351 Surface Temp: 2.8 Stratified: MIXED Site Depth: 3.6
Lake Area: 8 Watershed Area: 205 WA/LA: 25.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.5 Turbidity: 1.1 Color: 42
Closed pH: 6.14 Equil. pH: 6.80 ANC: 50.6 DOC: 7.90
Closed DIC: 0.96 Equil. DIC: 0.18 Meas. Cond: 8.8 Cal. Cond: 10.8
Ca: 45.4 Mg: 32.9 Na: 12.2 K: 14.3 NH4: 0.0
SO4: 26.4 HCO3: 45.9 Cl: 3.7 NO3: 0.0 F: 0.7
Sum Cations: 105.5 Sum Anions: 76.8 Cations/Anions: 1.38 Tot. P: 14.0
Tot. Al: 52.0 Ext. Al: 22.0 Fe: 80.0 Mn: 20.0 SiO2: 0.18

ID: 2B2-005 Name: LAKE RUTH State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 46-30'15"N Longitude: 91-25'30"W
Elevation: 351 Surface Temp: 4.7 Stratified: MIXED Site Depth: 6.7
Lake Area: 26 Watershed Area: 539 WA/LA: 20.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.9 Turbidity: 1.2 Color: 16
Closed pH: 7.71 Equil. pH: 8.18 ANC: 786.1 DOC: 2.90
Closed DIC: 9.50 Equil. DIC: 10.08 Meas. Cond: 82.3 Cal. Cond: 96.0
Ca: 564.9 Mg: 255.0 Na: 53.9 K: 10.2 NH4: 2.7
SO4: 75.0 HCO3: 830.8 Cl: 24.3 NO3: 0.0 F: 2.1
Sum Cations: 886.7 Sum Anions: 936.5 Cations/Anions: 0.95 Tot. P: 9.0
Tot. Al: 12.0 Ext. Al: 1.0 Fe: 100.0 Mn: 10.0 SiO2: 2.75

ID: 2B2-007 Name: TOIVOLA LAKES (WEST) State: MI Date: 18OCT84
Sample Type: REGULAR Latitude: 46-59'14"N Longitude: 88-48'01"W
Elevation: 397 Surface Temp: 12.2 Stratified: WEAK Site Depth: 10.4
Lake Area: 6 Watershed Area: 44 WA/LA: 7.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.6 Turbidity: 0.8 Color: 10
Closed pH: 5.43 Equil. pH: 5.65 ANC: 1.0 DOC: 2.50
Closed DIC: 0.59 Equil. DIC: 0.12 Meas. Cond: 8.3 Cal. Cond: 8.6
Ca: 23.5 Mg: 14.8 Na: 4.3 K: 7.7 NH4: 0.0
SO4: 47.7 HCO3: 3.8 Cl: 2.8 NO3: 0.0 F: 0.6
Sum Cations: 54.3 Sum Anions: 54.9 Cations/Anions: 0.99 Tot. P: 0.0
Tot. Al: 20.0 Ext. Al: 3.0 Fe: 20.0 Mn: 10.0 SiO2: 0.08

ID: 2B2-008 Name: HALL LAKE State: MI Date: 18OCT84
Sample Type: REGULAR Latitude: 46-59'40"N Longitude: 88-45'34"W
Elevation: 378 Surface Temp: 11.9 Stratified: STRONG Site Depth: 13.4
Lake Area: 6 Watershed Area: 127 WA/LA: 22.7 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 1.6 Turbidity: 0.4 Color: 50
Closed pH: 6.29 Equil. pH: 6.85 ANC: 55.5 DOC: 7.15
Closed DIC: 1.03 Equil. DIC: 0.46 Meas. Cond: 13.6 Cal. Cond: 12.4
Ca: 69.4 Mg: 31.3 Na: 9.8 K: 13.3 NH4: 0.0
SO4: 38.1 HCO3: 34.4 Cl: 3.9 NO3: 0.1 F: 0.7
Sum Cations: 124.2 Sum Anions: 77.3 Cations/Anions: 1.61 Tot. P: 10.0
Tot. Al: 53.5 Ext. Al: 12.0 Fe: 85.0 Mn: 15.0 SiO2: 0.00

ID: 2B2-009 Name: DONKEN LAKE State: MI Date: 18OCT84
Sample Type: REGULAR Latitude: 46-55'53"N Longitude: 88-47'58"W
Elevation: 387 Surface Temp: 11.9 Stratified: MIXED Site Depth: 3.7
Lake Area: 6 Watershed Area: 269 WA/LA: 47.2 Hydro Type: DRAINAGE
Residence Time: 0.09 Secchi Depth: 1.9 Turbidity: 1.0 Color: 50
Closed pH: 7.09 Equil. pH: 7.94 ANC: 397.0 DOC: 11.60
Closed DIC: 5.06 Equil. DIC: 4.19 Meas. Cond: 58.9 Cal. Cond: 57.2
Ca: 344.3 Mg: 117.6 Na: 106.6 K: 20.5 NH4: 0.0
SO4: 31.2 HCO3: 329.6 Cl: 83.2 NO3: 0.1 F: 1.2
Sum Cations: 589.1 Sum Anions: 445.7 Cations/Anions: 1.32 Tot. P: 14.0
Tot. Al: 25.0 Ext. Al: 4.0 Fe: 80.0 Mn: 0.0 SiO2: 1.63

(continued)

TABLE 3-1 (continued)

ID: 2B2-010 Name: (NO NAME) State: MI Date: 03NOV84
Sample Type: REGULAR Latitude: 46-52'29"N Longitude: 88-52'07"W
Elevation: 372 Surface Temp: 2.4 Stratified: MIXED Site Depth: 6.1
Lake Area: 4 Watershed Area: 104 WA/LA: 26.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.4 Turbidity: 0.5 Color: 85
Closed pH: 6.20 Equil. pH: 6.72 ANC: 64.0 DOC: 9.40
Closed DIC: 0.98 Equil. DIC: 0.55 Meas. Cond: 40.5 Cal. Cond: 42.1
Ca: 107.3 Mg: 51.8 Na: 172.7 K: 14.8 NH4: 1.7
SO4: 44.1 HCO3: 30.6 Cl: 233.3 NO3: 2.1 F: 0.7
Sum Cations: 348.9 Sum Anions: 310.9 Cations/Anions: 1.12 Tot. P: 19.0
Tot. Al: 115.0 Ext. Al: 36.0 Fe: 200.0 Mn: 20.0 SiO2: 1.97

ID: 2B2-012 Name: (NO NAME) State: MI Date: 03NOV84
Sample Type: REGULAR Latitude: 46-50'32"N Longitude: 88-52'10"W
Elevation: 361 Surface Temp: 4.0 Stratified: MIXED Site Depth: 11.2
Lake Area: 4 Watershed Area: 31 WA/LA: 7.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.9 Turbidity: 0.9 Color: 30
Closed pH: 5.71 Equil. pH: 6.14 ANC: 20.0 DOC: 4.00
Closed DIC: 1.10 Equil. DIC: 0.30 Meas. Cond: 9.9 Cal. Cond: 9.9
Ca: 31.9 Mg: 19.7 Na: 8.7 K: 12.0 NH4: 2.8
SO4: 44.8 HCO3: 15.8 Cl: 6.2 NO3: 0.1 F: 0.5
Sum Cations: 76.9 Sum Anions: 67.4 Cations/Anions: 1.14 Tot. P: 22.0
Tot. Al: 30.0 Ext. Al: 8.0 Fe: 70.0 Mn: 20.0 SiO2: 0.41

ID: 2B2-016 Name: KING LAKE State: MI Date: 17OCT84
Sample Type: REGULAR Latitude: 46-31'14"N Longitude: 88-24'30"W
Elevation: 504 Surface Temp: 12.1 Stratified: MIXED Site Depth: 6.1
Lake Area: 202 Watershed Area: 2890 WA/LA: 14.3 Hydro Type: DRAINAGE
Residence Time: 0.47 Secchi Depth: 0.4 Turbidity: 1.0 Color: 130
Closed pH: 6.88 Equil. pH: 7.43 ANC: 164.0 DOC: 16.20
Closed DIC: 1.68 Equil. DIC: 1.29 Meas. Cond: 29.0 Cal. Cond: 27.3
Ca: 195.1 Mg: 79.8 Na: 25.7 K: 6.9 NH4: 0.0
SO4: 61.8 HCO3: 89.9 Cl: 6.8 NO3: 0.1 F: 1.8
Sum Cations: 307.7 Sum Anions: 160.4 Cations/Anions: 1.92 Tot. P: 27.0
Tot. Al: 134.0 Ext. Al: 17.0 Fe: 220.0 Mn: 0.0 SiO2: 5.94

ID: 2B2-018 Name: (NO NAME) State: MI Date: 14OCT84
Sample Type: REGULAR Latitude: 46-39'51"N Longitude: 88-09'37"W
Elevation: 540 Surface Temp: 9.6 Stratified: WEAK Site Depth: 10.1
Lake Area: 4 Watershed Area: 44 WA/LA: 10.0 Hydro Type: DRAINAGE
Residence Time: 1.08 Secchi Depth: 1.4 Turbidity: 0.8 Color: 60
Closed pH: 6.05 Equil. pH: 6.96 ANC: 54.0 DOC: 8.10
Closed DIC: 1.55 Equil. DIC: 0.57 Meas. Cond: 19.4 Cal. Cond: 19.4
Ca: 101.3 Mg: 46.9 Na: 18.3 K: 6.9 NH4: 0.0
SO4: 79.9 HCO3: 56.8 Cl: 3.9 NO3: 0.6 F: 1.1
Sum Cations: 173.8 Sum Anions: 142.4 Cations/Anions: 1.22 Tot. P: 13.0
Tot. Al: 145.0 Ext. Al: 46.0 Fe: 110.0 Mn: 10.0 SiO2: 1.08

ID: 2B2-019 Name: SECTION 5 LAKE State: MI Date: 17OCT84
Sample Type: REGULAR Latitude: 46-40'14"N Longitude: 88-05'05"W
Elevation: 558 Surface Temp: 12.3 Stratified: MIXED Site Depth: 3.7
Lake Area: 9 Watershed Area: 88 WA/LA: 10.3 Hydro Type: DRAINAGE
Residence Time: 0.38 Secchi Depth: 1.9 Turbidity: 1.4 Color: 65
Closed pH: 6.67 Equil. pH: 7.13 ANC: 132.0 DOC: 8.90
Closed DIC: 1.60 Equil. DIC: 1.14 Meas. Cond: 27.0 Cal. Cond: 26.8
Ca: 160.2 Mg: 70.7 Na: 21.3 K: 8.7 NH4: 0.0
SO4: 91.2 HCO3: 83.2 Cl: 7.6 NO3: 1.5 F: 1.1
Sum Cations: 261.2 Sum Anions: 184.6 Cations/Anions: 1.41 Tot. P: 7.0
Tot. Al: 108.0 Ext. Al: 28.0 Fe: 50.0 Mn: 0.0 SiO2: 0.83

(continued)

TABLE 3-1 (continued)

ID: 2B2-020 Name: LAKE GORDON State: MI Date: 17OCT84
Sample Type: REGULAR Latitude: 46-41'53"N Longitude: 88-02'16"W
Elevation: 540 Surface Temp: 11.8 Stratified: WEAK Site Depth: 9.1
Lake Area: 8 Watershed Area: 145 WA/LA: 17.5 Hydro Type: DRAINAGE
Residence Time: 0.59 Secchi Depth: 2.1 Turbidity: 0.8 Color: 55
Closed pH: 6.66 Equil. pH: 7.12 ANC: 103.0 DOC: 8.00
Closed DIC: 1.28 Equil. DIC: 0.96 Meas. Cond: 22.8 Cal. Cond: 23.1
Ca: 138.2 Mg: 57.6 Na: 17.4 K: 5.1 NH4: 0.0
SO4: 83.9 HCO3: 70.1 Cl: 7.3 NO3: 0.4 F: 1.1
Sum Cations: 218.5 Sum Anions: 162.8 Cations/Anions: 1.34 Tot. P: 1.0
Tot. Al: 118.0 Ext. Al: 34.0 Fe: 70.0 Mn: 0.0 SiO2: 1.22

ID: 2B2-021 Name: WHITE DEER LAKE State: MI Date: 17OCT84
Sample Type: REGULAR Latitude: 46-40'30"N Longitude: 88-00'00"W
Elevation: 528 Surface Temp: 12.5 Stratified: MIXED Site Depth: 2.7
Lake Area: 34 Watershed Area: 231 WA/LA: 6.9 Hydro Type: DRAINAGE
Residence Time: 0.40 Secchi Depth: 2.2 Turbidity: 0.9 Color: 30
Closed pH: 7.26 Equil. pH: 7.62 ANC: 240.0 DOC: 6.90
Closed DIC: 2.77 Equil. DIC: 2.63 Meas. Cond: 33.8 Cal. Cond: 34.5
Ca: 219.1 Mg: 88.8 Na: 19.6 K: 6.6 NH4: 0.0
SO4: 71.0 HCO3: 198.8 Cl: 8.2 NO3: 0.2 F: 1.1
Sum Cations: 334.2 Sum Anions: 279.5 Cations/Anions: 1.20 Tot. P: 7.0
Tot. Al: 68.0 Ext. Al: 15.0 Fe: 20.0 Mn: 0.0 SiO2: 2.92

ID: 2B2-024 Name: (NO NAME) State: MI Date: 14OCT84
Sample Type: REGULAR Latitude: 46-38'05"N Longitude: 88-12'32"W
Elevation: 546 Surface Temp: 10.5 Stratified: MIXED Site Depth: 5.8
Lake Area: 8 Watershed Area: 44 WA/LA: 5.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.7 Turbidity: 0.8 Color: 60
Closed pH: 5.75 Equil. pH: 6.38 ANC: 37.4 DOC: 8.40
Closed DIC: 1.25 Equil. DIC: 0.26 Meas. Cond: 18.0 Cal. Cond: 16.7
Ca: 79.8 Mg: 46.9 Na: 15.2 K: 8.7 NH4: 0.0
SO4: 79.1 HCO3: 19.0 Cl: 4.5 NO3: 0.4 F: 1.1
Sum Cations: 152.1 Sum Anions: 104.0 Cations/Anions: 1.46 Tot. P: 1.0
Tot. Al: 108.0 Ext. Al: 41.0 Fe: 90.0 Mn: 20.0 SiO2: 1.77

ID: 2B2-026 Name: CLAIR LAKE State: MI Date: 14OCT84
Sample Type: REGULAR Latitude: 46-37'32"N Longitude: 88-11'25"W
Elevation: 527 Surface Temp: 11.1 Stratified: MIXED Site Depth: 9.4
Lake Area: 26 Watershed Area: 132 WA/LA: 5.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.5 Turbidity: 0.8 Color: 60
Closed pH: 6.06 Equil. pH: 6.62 ANC: 40.0 DOC: 6.70
Closed DIC: 0.77 Equil. DIC: 0.32 Meas. Cond: 18.8 Cal. Cond: 17.5
Ca: 83.3 Mg: 49.4 Na: 18.3 K: 8.4 NH4: 0.0
SO4: 83.9 HCO3: 24.9 Cl: 3.7 NO3: 0.4 F: 1.1
Sum Cations: 160.1 Sum Anions: 114.0 Cations/Anions: 1.40 Tot. P: 15.0
Tot. Al: 119.0 Ext. Al: 41.0 Fe: 180.0 Mn: 30.0 SiO2: 1.69

ID: 2B2-029 Name: LITTLE WHITE GOAT LAKE State: MI Date: 17OCT84
Sample Type: REGULAR Latitude: 46-35'56"N Longitude: 88-04'16"W
Elevation: 507 Surface Temp: 12.0 Stratified: MIXED Site Depth: 3.0
Lake Area: 27 Watershed Area: 106 WA/LA: 3.9 Hydro Type: DRAINAGE
Residence Time: 0.69 Secchi Depth: 1.1 Turbidity: 2.2 Color: 35
Closed pH: 6.62 Equil. pH: 7.27 ANC: 101.0 DOC: 7.30
Closed DIC: 1.45 Equil. DIC: 0.97 Meas. Cond: 25.8 Cal. Cond: 25.4
Ca: 121.3 Mg: 68.3 Na: 20.4 K: 13.3 NH4: 0.0
SO4: 102.0 HCO3: 71.6 Cl: 12.4 NO3: 1.7 F: 1.3
Sum Cations: 223.6 Sum Anions: 189.0 Cations/Anions: 1.18 Tot. P: 14.0
Tot. Al: 64.0 Ext. Al: 4.0 Fe: 50.0 Mn: 0.0 SiO2: 1.04

(continued)

TABLE 3-1 (continued)

ID: 2B2-031 Name: DISHNO LAKE State: MI Date: 13OCT84
Sample Type: REGULAR Latitude: 46-37'30"N Longitude: 87-55'53"W
Elevation: 533 Surface Temp: 14.7 Stratified: MIXED Site Depth: 0.9
Lake Area: 44 Watershed Area: 334 WA/LA: 7.6 Hydro Type: DRAINAGE
Residence Time: 0.12 Secchi Depth: 1.0 Turbidity: 0.4 Color: 65
Closed pH: 7.12 Equil. pH: 7.53 ANC: 155.0 DOC: 13.10
Closed DIC: 1.55 Equil. DIC: 1.48 Meas. Cond: 35.0 Cal. Cond: 35.9
Ca: 222.6 Mg: 108.6 Na: 24.8 K: 7.4 NH4: 0.0
SO4: 115.8 HCO3: 107.7 Cl: 11.6 NO3: 0.0 F: 1.8
Sum Cations: 363.5 Sum Anions: 236.9 Cations/Anions: 1.53 Tot. P: 18.0
Tot. Al: 102.0 Ext. Al: 29.0 Fe: 50.0 Mn: 0.0 SiO2: 1.62

ID: 2B2-032 Name: (NO NAME) State: MI Date: 14OCT84
Sample Type: REGULAR Latitude: 46-35'15"N Longitude: 88-09'00"W
Elevation: 523 Surface Temp: 14.2 Stratified: MIXED Site Depth: 1.2
Lake Area: 21 Watershed Area: 104 WA/LA: 5.0 Hydro Type: DRAINAGE
Residence Time: 0.23 Secchi Depth: 0.8 Turbidity: 1.5 Color: 120
Closed pH: 5.90 Equil. pH: 6.28 ANC: 55.0 DOC: 15.00
Closed DIC: 0.66 Equil. DIC: 0.20 Meas. Cond: 23.7 Cal. Cond: 22.0
Ca: 115.3 Mg: 65.8 Na: 28.7 K: 11.3 NH4: 0.0
SO4: 95.8 HCO3: 12.9 Cl: 7.9 NO3: 0.7 F: 1.4
Sum Cations: 222.3 Sum Anions: 118.7 Cations/Anions: 1.87 Tot. P: 20.0
Tot. Al: 146.0 Ext. Al: 47.0 Fe: 280.0 Mn: 60.0 SiO2: 2.45

ID: 2B2-033 Name: LOG LAKE State: MI Date: 13OCT84
Sample Type: REGULAR Latitude: 46-35'15"N Longitude: 87-55'45"W
Elevation: 519 Surface Temp: 13.1 Stratified: WEAK Site Depth: 12.2
Lake Area: 72 Watershed Area: 435 WA/LA: 6.1 Hydro Type: DRAINAGE
Residence Time: 1.98 Secchi Depth: 2.0 Turbidity: 0.8 Color: 50
Closed pH: 6.37 Equil. pH: 6.72 ANC: 48.0 DOC: 7.45
Closed DIC: 0.55 Equil. DIC: 0.33 Meas. Cond: 21.5 Cal. Cond: 21.6
Ca: 107.8 Mg: 58.0 Na: 18.3 K: 8.7 NH4: 0.0
SO4: 101.3 HCO3: 23.0 Cl: 14.8 NO3: 0.0 F: 1.4
Sum Cations: 193.3 Sum Anions: 140.5 Cations/Anions: 1.38 Tot. P: 16.5
Tot. Al: 106.0 Ext. Al: 32.0 Fe: 130.0 Mn: 0.0 SiO2: 0.77

ID: 2B2-034 Name: LAKE EVA State: MI Date: 18OCT84
Sample Type: REGULAR Latitude: 47-01'15"N Longitude: 88-45'52"W
Elevation: 357 Surface Temp: 12.5 Stratified: MIXED Site Depth: 7.0
Lake Area: 27 Watershed Area: 223 WA/LA: 8.3 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 5.1 Turbidity: 0.3 Color: 10
Closed pH: 7.52 Equil. pH: 8.08 ANC: 502.0 DOC: 2.80
Closed DIC: 5.99 Equil. DIC: 5.75 Meas. Cond: 56.5 Cal. Cond: 58.1
Ca: 380.7 Mg: 125.0 Na: 24.4 K: 11.0 NH4: 0.6
SO4: 48.9 HCO3: 465.3 Cl: 25.7 NO3: 0.0 F: 1.1
Sum Cations: 541.7 Sum Anions: 542.9 Cations/Anions: 1.00 Tot. P: 2.0
Tot. Al: 41.0 Ext. Al: 4.0 Fe: 20.0 Mn: 0.0 SiO2: 1.00

ID: 2B2-038 Name: OTTER LAKE State: MI Date: 24OCT84
Sample Type: REGULAR Latitude: 46-35'45"N Longitude: 85-39'32"W
Elevation: 230 Surface Temp: 7.5 Stratified: MIXED Site Depth: 3.7
Lake Area: 6 Watershed Area: 117 WA/LA: 21.3 Hydro Type: DRAINAGE
Residence Time: 0.19 Secchi Depth: 1.8 Turbidity: 0.4 Color: 25
Closed pH: 6.81 Equil. pH: 7.45 ANC: 140.0 DOC: 7.40
Closed DIC: 1.77 Equil. DIC: 1.41 Meas. Cond: 23.2 Cal. Cond: 23.0
Ca: 131.2 Mg: 64.2 Na: 26.5 K: 10.2 NH4: 0.6
SO4: 52.3 HCO3: 106.3 Cl: 7.6 NO3: 0.2 F: 1.2
Sum Cations: 232.8 Sum Anions: 167.6 Cations/Anions: 1.39 Tot. P: 13.0
Tot. Al: 12.0 Ext. Al: 3.0 Fe: 30.0 Mn: 0.0 SiO2: 0.85

(continued)

TABLE 3-1 (continued)

ID: 2B2-041 Name: SLEEPER LAKE State: MI Date: 23OCT84
Sample Type: REGULAR Latitude: 46-30'33"N Longitude: 85-33'07"W
Elevation: 244 Surface Temp: 6.3 Stratified: MIXED Site Depth: 0.9
Lake Area: 8 Watershed Area: 479 WA/LA: 58.4 Hydro Type: DRAINAGE
Residence Time: 0.02 Secchi Depth: 0.9 Turbidity: 1.5 Color: 60
Closed pH: 4.71 Equil. pH: 4.70 ANC: -18.0 DOC: 13.80
Closed DIC: 0.49 Equil. DIC: 0.17 Meas. Cond: 17.9 Cal. Cond: 17.4
Ca: 40.9 Mg: 30.4 Na: 8.7 K: 4.0 NH4: 4.4
SO4: 43.3 HCO3: 0.8 Cl: 8.7 NO3: 1.3 F: 0.9
Sum Cations: 111.4 Sum Anions: 55.1 Cations/Anions: 2.02 Tot. P: 14.0
Tot. Al: 121.0 Ext. Al: 33.0 Fe: 180.0 Mn: 20.0 SiO2: 0.00

ID: 2B2-043 Name: BASS LAKE State: MI Date: 24OCT84
Sample Type: REG/SPC/LTM/ Latitude: 46-27'50"N Longitude: 85-43'00"W
Elevation: 273 Surface Temp: 10.7 Stratified: MIXED Site Depth: 21.9
Lake Area: 58 Watershed Area: 280 WA/LA: 4.8 Hydro Type: DRAINAGE
Residence Time: 3.84 Secchi Depth: 4.2 Turbidity: 0.5 Color: 10
Closed pH: 6.68 Equil. pH: 7.43 ANC: 121.0 DOC: 2.60
Closed DIC: 2.02 Equil. DIC: 1.44 Meas. Cond: 21.8 Cal. Cond: 23.1
Ca: 109.8 Mg: 57.6 Na: 17.4 K: 11.4 NH4: 2.2
SO4: 67.7 HCO3: 124.2 Cl: 7.3 NO3: 0.7 F: 0.9
Sum Cations: 198.5 Sum Anions: 200.9 Cations/Anions: 0.99 Tot. P: 12.0
Tot. Al: 10.0 Ext. Al: 1.0 Fe: 50.0 Mn: 20.0 SiO2: 0.06

ID: 2B2-044 Name: QUINLAN LAKE State: MI Date: 23OCT84
Sample Type: REGULAR Latitude: 46-25'39"N Longitude: 85-46'31"W
Elevation: 259 Surface Temp: 10.1 Stratified: MIXED Site Depth: 8.8
Lake Area: 5 Watershed Area: 39 WA/LA: 8.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.0 Turbidity: 0.7 Color: 18
Closed pH: 5.23 Equil. pH: 5.21 ANC: 4.6 DOC: 3.80
Closed DIC: 1.06 Equil. DIC: 0.17 Meas. Cond: 9.8 Cal. Cond: 9.8
Ca: 25.2 Mg: 15.6 Na: 3.5 K: 9.9 NH4: 8.9
SO4: 40.9 HCO3: 4.7 Cl: 5.5 NO3: 0.1 F: 0.7
Sum Cations: 68.7 Sum Anions: 51.9 Cations/Anions: 1.32 Tot. P: 18.5
Tot. Al: 10.0 Ext. Al: 1.5 Fe: 40.0 Mn: 30.0 SiO2: 0.34

ID: 2B2-049 Name: CRANBERRY LAKE State: MI Date: 20OCT84
Sample Type: REGULAR Latitude: 46-27'06"N Longitude: 86-11'02"W
Elevation: 258 Surface Temp: 10.5 Stratified: STRONG Site Depth: 12.2
Lake Area: 5 Watershed Area: 21 WA/LA: 4.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.2 Turbidity: 1.2 Color: 25
Closed pH: 5.10 Equil. pH: 5.17 ANC: 0.4 DOC: 5.90
Closed DIC: 0.79 Equil. DIC: 0.35 Meas. Cond: 10.6 Cal. Cond: 10.7
Ca: 33.4 Mg: 18.1 Na: 4.3 K: 9.7 NH4: 1.1
SO4: 46.2 HCO3: 2.0 Cl: 6.2 NO3: 0.1 F: 0.7
Sum Cations: 73.7 Sum Anions: 55.3 Cations/Anions: 1.33 Tot. P: 39.0
Tot. Al: 16.0 Ext. Al: 10.0 Fe: 50.0 Mn: 40.0 SiO2: 0.18

ID: 2B2-051 Name: DEADMANS LAKE State: MI Date: 23OCT84
Sample Type: REGULAR Latitude: 46-26'26"N Longitude: 85-41'47"W
Elevation: 262 Surface Temp: 10.2 Stratified: WEAK Site Depth: 16.2
Lake Area: 12 Watershed Area: 179 WA/LA: 14.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.5 Turbidity: 0.5 Color: 10
Closed pH: 5.47 Equil. pH: 5.92 ANC: 7.3 DOC: 3.30
Closed DIC: 0.74 Equil. DIC: 0.22 Meas. Cond: 12.5 Cal. Cond: 12.6
Ca: 40.9 Mg: 20.6 Na: 6.5 K: 14.7 NH4: 2.2
SO4: 65.8 HCO3: 6.3 Cl: 6.5 NO3: 3.1 F: 0.7
Sum Cations: 88.3 Sum Anions: 82.3 Cations/Anions: 1.07 Tot. P: 15.0
Tot. Al: 18.0 Ext. Al: 0.0 Fe: 20.0 Mn: 20.0 SiO2: 0.00

(continued)

TABLE 3-1 (continued)

ID: 2B2-052 Name: (NO NAME) State: MI Date: 14OCT84
Sample Type: REGULAR Latitude: 46-36'49"N Longitude: 88-15'16"W
Elevation: 527 Surface Temp: 10.8 Stratified: MIXED Site Depth: 3.7
Lake Area: 9 Watershed Area: 114 WA/LA: 13.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.9 Turbidity: 0.7 Color: 115
Closed pH: 6.45 Equil. pH: 7.01 ANC: 88.0 DOC: 10.80
Closed DIC: 1.14 Equil. DIC: 0.69 Meas. Cond: 24.4 Cal. Cond: 21.8
Ca: 129.7 Mg: 67.5 Na: 23.5 K: 10.7 NH4: 0.0
SO4: 69.7 HCO3: 54.6 Cl: 5.4 NO3: 0.1 F: 0.9
Sum Cations: 231.7 Sum Anions: 130.7 Cations/Anions: 1.77 Tot. P: 20.0
Tot. Al: 112.0 Ext. Al: 28.0 Fe: 120.0 Mn: 10.0 SiO2: 0.14

ID: 2B2-053 Name: VAN LAKE State: MI Date: 14OCT84
Sample Type: REGULAR Latitude: 46-35'55"N Longitude: 88-13'35"W
Elevation: 536 Surface Temp: 13.4 Stratified: MIXED Site Depth: 1.5
Lake Area: 22 Watershed Area: 129 WA/LA: 6.0 Hydro Type: DRAINAGE
Residence Time: 0.25 Secchi Depth: 0.9 Turbidity: 2.4 Color: 70
Closed pH: 6.36 Equil. pH: 6.90 ANC: 74.0 DOC: 9.40
Closed DIC: 1.02 Equil. DIC: 0.52 Meas. Cond: 22.7 Cal. Cond: 21.8
Ca: 107.3 Mg: 62.5 Na: 25.2 K: 11.5 NH4: 0.0
SO4: 88.1 HCO3: 44.9 Cl: 6.8 NO3: 2.5 F: 1.2
Sum Cations: 207.0 Sum Anions: 143.4 Cations/Anions: 1.44 Tot. P: 34.0
Tot. Al: 129.0 Ext. Al: 30.0 Fe: 110.0 Mn: 10.0 SiO2: 1.75

ID: 2B2-054 Name: (NO NAME) State: MI Date: 14OCT84
Sample Type: REGULAR Latitude: 46-39'37"N Longitude: 88-12'00"W
Elevation: 552 Surface Temp: 10.5 Stratified: STRONG Site Depth: 11.9
Lake Area: 5 Watershed Area: 21 WA/LA: 4.6 Hydro Type: DRAINAGE
Residence Time: 2.44 Secchi Depth: 1.1 Turbidity: 0.6 Color: 65
Closed pH: 6.02 Equil. pH: 6.82 ANC: 59.0 DOC: 9.20
Closed DIC: 1.59 Equil. DIC: 0.52 Meas. Cond: 17.7 Cal. Cond: 17.0
Ca: 87.8 Mg: 38.7 Na: 15.2 K: 15.1 NH4: 0.0
SO4: 58.9 HCO3: 56.8 Cl: 5.4 NO3: 0.3 F: 1.2
Sum Cations: 157.3 Sum Anions: 122.6 Cations/Anions: 1.28 Tot. P: 18.0
Tot. Al: 136.0 Ext. Al: 54.0 Fe: 150.0 Mn: 50.0 SiO2: 0.59

ID: 2B2-055 Name: (NO NAME) State: MI Date: 20OCT84
Sample Type: REGULAR Latitude: 46-28'05"N Longitude: 86-11'30"W
Elevation: 261 Surface Temp: 8.8 Stratified: MIXED Site Depth: 2.1
Lake Area: 5 Watershed Area: 18 WA/LA: 3.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.1 Turbidity: 1.3 Color: 25
Closed pH: 4.55 Equil. pH: 4.57 ANC: -25.2 DOC: 7.50
Closed DIC: 0.35 Equil. DIC: 0.23 Meas. Cond: 16.1 Cal. Cond: 20.8
Ca: 36.9 Mg: 18.1 Na: 6.1 K: 6.4 NH4: 4.4
SO4: 84.0 HCO3: 0.6 Cl: 3.4 NO3: 1.2 F: 0.7
Sum Cations: 98.8 Sum Anions: 89.6 Cations/Anions: 1.10 Tot. P: 22.0
Tot. Al: 107.0 Ext. Al: 53.0 Fe: 60.0 Mn: 30.0 SiO2: 0.46

ID: 2B2-060 Name: (NO NAME) State: MI Date: 18OCT84
Sample Type: REGULAR Latitude: 46-55'19"N Longitude: 88-48'30"W
Elevation: 387 Surface Temp: 11.7 Stratified: WEAK Site Depth: 7.0
Lake Area: 7 Watershed Area: 49 WA/LA: 7.4 Hydro Type: DRAINAGE
Residence Time: 0.98 Secchi Depth: 2.4 Turbidity: 0.4 Color: 70
Closed pH: 6.67 Equil. pH: 7.78 ANC: 276.0 DOC: 9.70
Closed DIC: 4.52 Equil. DIC: 2.93 Meas. Cond: 44.8 Cal. Cond: 44.7
Ca: 239.0 Mg: 93.8 Na: 93.5 K: 13.3 NH4: 0.0
SO4: 34.8 HCO3: 242.6 Cl: 80.7 NO3: 0.0 F: 1.2
Sum Cations: 439.8 Sum Anions: 359.4 Cations/Anions: 1.22 Tot. P: 5.0
Tot. Al: 53.0 Ext. Al: 11.0 Fe: 60.0 Mn: 0.0 SiO2: 0.70

(continued)

TABLE 3-1 (continued)

ID: 2B2-061 Name: (NO NAME) State: MI Date: 14OCT84
Sample Type: REGULAR Latitude: 46-35'38"N Longitude: 88-08'30"W
Elevation: 523 Surface Temp: 13.4 Stratified: MIXED Site Depth: 2.7
Lake Area: 21 Watershed Area: 210 WA/LA: 10.2 Hydro Type: DRAINAGE
Residence Time: 0.28 Secchi Depth: 0.8 Turbidity: 1.3 Color: 125
Closed pH: 5.53 Equil. pH: 5.76 ANC: 30.0 DOC: 13.90
Closed DIC: 0.58 Equil. DIC: 0.18 Meas. Cond: 20.7 Cal. Cond: 19.1
Ca: 91.3 Mg: 54.3 Na: 22.2 K: 10.0 NH4: 0.0
SO4: 86.6 HCO3: 6.3 Cl: 6.2 NO3: 2.5 F: 1.3
Sum Cations: 180.8 Sum Anions: 102.9 Cations/Anions: 1.76 Tot. P: 18.0
Tot. Al: 142.0 Ext. Al: 49.0 Fe: 290.0 Mn: 20.0 SiO2: 3.74

ID: 2B2-062 Name: PEANUT LAKE State: MI Date: 24OCT84
Sample Type: REGULAR Latitude: 46-26'39"N Longitude: 85-43'28"W
Elevation: 263 Surface Temp: 9.9 Stratified: MIXED Site Depth: 6.7
Lake Area: 7 Watershed Area: 272 WA/LA: 40.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.5 Turbidity: 1.3 Color: 15
Closed pH: 6.46 Equil. pH: 7.22 ANC: 92.0 DOC: 4.20
Closed DIC: 1.73 Equil. DIC: 1.13 Meas. Cond: 18.9 Cal. Cond: 19.1
Ca: 93.8 Mg: 46.9 Na: 11.3 K: 15.2 NH4: 1.7
SO4: 63.7 HCO3: 71.3 Cl: 9.6 NO3: 0.9 F: 0.9
Sum Cations: 169.2 Sum Anions: 146.4 Cations/Anions: 1.16 Tot. P: 19.0
Tot. Al: 17.0 Ext. Al: 1.0 Fe: 20.0 Mn: 0.0 SiO2: 0.09

ID: 2B2-063 Name: BIG BEAR LAKE State: MI Date: 17OCT84
Sample Type: REGULAR Latitude: 46-37'54"N Longitude: 88-04'55"W
Elevation: 527 Surface Temp: 11.9 Stratified: MIXED Site Depth: 3.6
Lake Area: 5 Watershed Area: 67 WA/LA: 13.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.8 Turbidity: 1.1 Color: 110
Closed pH: 6.12 Equil. pH: 6.79 ANC: 65.0 DOC: 10.80
Closed DIC: 1.22 Equil. DIC: 0.48 Meas. Cond: 20.1 Cal. Cond: 19.1
Ca: 112.3 Mg: 49.4 Na: 17.0 K: 7.7 NH4: 0.0
SO4: 75.6 HCO3: 32.7 Cl: 7.3 NO3: 0.4 F: 1.1
Sum Cations: 187.0 Sum Anions: 117.1 Cations/Anions: 1.60 Tot. P: 15.0
Tot. Al: 149.0 Ext. Al: 45.0 Fe: 140.0 Mn: 0.0 SiO2: 0.62

ID: 2B2-064 Name: (NO NAME) State: MI Date: 14OCT84
Sample Type: REGULAR Latitude: 46-35'09"N Longitude: 87-57'27"W
Elevation: 517 Surface Temp: 13.1 Stratified: MIXED Site Depth: 7.3
Lake Area: 11 Watershed Area: 91 WA/LA: 8.0 Hydro Type: DRAINAGE
Residence Time: 0.95 Secchi Depth: 3.1 Turbidity: 0.6 Color: 35
Closed pH: 7.08 Equil. pH: 7.36 ANC: 131.0 DOC: 5.40
Closed DIC: 1.63 Equil. DIC: 1.44 Meas. Cond: 26.2 Cal. Cond: 26.7
Ca: 142.2 Mg: 66.6 Na: 18.3 K: 11.8 NH4: 0.0
SO4: 91.8 HCO3: 113.1 Cl: 5.6 NO3: 0.3 F: 1.1
Sum Cations: 239.0 Sum Anions: 212.1 Cations/Anions: 1.13 Tot. P: 6.0
Tot. Al: 26.0 Ext. Al: 6.0 Fe: 60.0 Mn: 10.0 SiO2: 1.66

ID: 2B2-065 Name: HASSCIB LAKE State: MI Date: 17OCT84
Sample Type: REGULAR Latitude: 46-37'56"N Longitude: 88-01'25"W
Elevation: 527 Surface Temp: 11.9 Stratified: STRONG Site Depth: 14.6
Lake Area: 14 Watershed Area: 57 WA/LA: 4.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.4 Turbidity: 0.8 Color: 10
Closed pH: 7.09 Equil. pH: 7.69 ANC: 128.0 DOC: 5.00
Closed DIC: 1.63 Equil. DIC: 1.72 Meas. Cond: 22.5 Cal. Cond: 23.0
Ca: 133.2 Mg: 55.1 Na: 13.9 K: 5.6 NH4: 0.0
SO4: 68.7 HCO3: 112.5 Cl: 5.9 NO3: 0.4 F: 0.5
Sum Cations: 208.0 Sum Anions: 188.2 Cations/Anions: 1.11 Tot. P: 7.0
Tot. Al: 17.0 Ext. Al: 2.0 Fe: 0.0 Mn: 0.0 SiO2: 0.43

(continued)

TABLE 3-1 (continued)

ID: 2B2-066 Name: UPPER BARAGA LAKE State: MI Date: 17OCT84
Sample Type: REGULAR Latitude: 46-40'52"N Longitude: 88-01'57"W
Elevation: 523 Surface Temp: 11.9 Stratified: STRONG Site Depth: 12.2
Lake Area: 26 Watershed Area: 826 WA/LA: 31.9 Hydro Type: DRAINAGE
Residence Time: 0.45 Secchi Depth: 2.5 Turbidity: 0.5 Color: 40
Closed pH: 7.44 Equil. pH: 7.73 ANC: 339.0 DOC: 5.60
Closed DIC: 3.91 Equil. DIC: 3.74 Meas. Cond: 44.2 Cal. Cond: 47.6
Ca: 293.4 Mg: 115.2 Na: 24.8 K: 9.5 NH4: 0.0
SO4: 94.5 HCO3: 312.9 Cl: 5.9 NO3: 0.8 F: 1.3
Sum Cations: 442.9 Sum Anions: 416.1 Cations/Anions: 1.06 Tot. P: 7.0
Tot. Al: 38.0 Ext. Al: 13.0 Fe: 80.0 Mn: 0.0 SiO2: 3.28

ID: 2B2-067 Name: CROOKED LAKE State: MI Date: 14OCT84
Sample Type: REGULAR Latitude: 46-36'11"N Longitude: 88-09'21"W
Elevation: 522 Surface Temp: 13.1 Stratified: MIXED Site Depth: 7.6
Lake Area: 107 Watershed Area: 655 WA/LA: 6.1 Hydro Type: DRAINAGE
Residence Time: 1.23 Secchi Depth: 1.2 Turbidity: 1.8 Color: 85
Closed pH: 6.27 Equil. pH: 6.74 ANC: 61.0 DOC: 9.40
Closed DIC: 0.88 Equil. DIC: 0.46 Meas. Cond: 19.2 Cal. Cond: 18.0
Ca: 90.8 Mg: 49.4 Na: 19.1 K: 11.0 NH4: 0.0
SO4: 71.4 HCO3: 36.2 Cl: 5.4 NO3: 3.8 F: 1.2
Sum Cations: 170.7 Sum Anions: 118.0 Cations/Anions: 1.45 Tot. P: 25.0
Tot. Al: 119.0 Ext. Al: 31.0 Fe: 270.0 Mn: 30.0 SiO2: 1.34

ID: 2B2-070 Name: PRETTY LAKE State: MI Date: 24OCT84
Sample Type: REG/SPC/LTM/ Latitude: 46-36'05"N Longitude: 85-39'37"W
Elevation: 229 Surface Temp: 10.9 Stratified: WEAK Site Depth: 16.8
Lake Area: 19 Watershed Area: 85 WA/LA: 4.6 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 6.1 Turbidity: 0.2 Color: 5
Closed pH: 6.75 Equil. pH: 6.93 ANC: 58.0 DOC: 2.50
Closed DIC: 1.02 Equil. DIC: 0.91 Meas. Cond: 16.9 Cal. Cond: 16.9
Ca: 81.8 Mg: 36.2 Na: 20.0 K: 10.1 NH4: 0.6
SO4: 62.7 HCO3: 55.6 Cl: 8.5 NO3: 0.8 F: 0.8
Sum Cations: 148.9 Sum Anions: 128.3 Cations/Anions: 1.16 Tot. P: 1.0
Tot. Al: 9.0 Ext. Al: 1.0 Fe: 20.0 Mn: 0.0 SiO2: 0.70

ID: 2B2-074 Name: ROGER LAKE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 46-31'34"N Longitude: 91-25'24"W
Elevation: 344 Surface Temp: 2.0 Stratified: MIXED Site Depth: 3.0
Lake Area: 11 Watershed Area: 104 WA/LA: 9.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.0 Turbidity: 0.8 Color: 35
Closed pH: 6.35 Equil. pH: 6.86 ANC: 66.9 DOC: 6.00
Closed DIC: 1.09 Equil. DIC: 0.70 Meas. Cond: 13.2 Cal. Cond: 15.8
Ca: 58.9 Mg: 41.1 Na: 24.4 K: 20.7 NH4: 1.8
SO4: 32.5 HCO3: 53.3 Cl: 26.8 NO3: 1.0 F: 0.7
Sum Cations: 147.3 Sum Anions: 114.3 Cations/Anions: 1.29 Tot. P: 9.0
Tot. Al: 41.0 Ext. Al: 15.0 Fe: 40.0 Mn: 10.0 SiO2: 0.12

ID: 2B2-075 Name: RICHARDSON LAKE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 46-32'22"N Longitude: 91-27'51"W
Elevation: 344 Surface Temp: 4.5 Stratified: MIXED Site Depth: 5.8
Lake Area: 10 Watershed Area: 39 WA/LA: 4.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.2 Turbidity: 0.5 Color: 21
Closed pH: 5.91 Equil. pH: 6.54 ANC: 25.4 DOC: 5.50
Closed DIC: 0.83 Equil. DIC: 0.32 Meas. Cond: 9.3 Cal. Cond: 10.7
Ca: 37.9 Mg: 26.3 Na: 9.6 K: 13.8 NH4: 0.0
SO4: 47.9 HCO3: 18.9 Cl: 6.8 NO3: 0.0 F: 1.1
Sum Cations: 88.6 Sum Anions: 74.6 Cations/Anions: 1.19 Tot. P: 17.0
Tot. Al: 12.0 Ext. Al: 6.0 Fe: 20.0 Mn: 10.0 SiO2: 0.00

(continued)

TABLE 3-1 (continued)

ID: 2B2-076 Name: BEAVERTOWN LAKES (LG.MID) State: MI Date: 24OCT84
Sample Type: REGULAR Latitude: 46-34'18"N Longitude: 85-44'20"W
Elevation: 237 Surface Temp: 5.8 Stratified: MIXED Site Depth: 0.9
Lake Area: 5 Watershed Area: 28 WA/LA: 5.7 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 0.9 Turbidity: 0.2 Color: 10
Closed pH: 4.46 Equil. pH: 4.44 ANC: -48.6 DOC: 4.20
Closed DIC: 0.53 Equil. DIC: 0.20 Meas. Cond: 25.5 Cal. Cond: 26.1
Ca: 27.4 Mg: 23.9 Na: 9.1 K: 11.0 NH4: 0.6
SO4: 81.2 HCO3: 0.5 Cl: 6.8 NO3: 7.3 F: 0.9
Sum Cations: 112.8 Sum Anions: 96.6 Cations/Anions: 1.17 Tot. P: 5.0
Tot. Al: 80.0 Ext. Al: 47.0 Fe: 20.0 Mn: 0.0 SiO2: 0.00

ID: 2B2-077 Name: MULLENHOFF LAKE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 46-32'14"N Longitude: 91-24'08"W
Elevation: 339 Surface Temp: 2.2 Stratified: MIXED Site Depth: 3.3
Lake Area: 27 Watershed Area: 404 WA/LA: 15.3 Hydro Type: DRAINAGE
Residence Time: 0.34 Secchi Depth: 1.5 Turbidity: 2.0 Color: 57
Closed pH: 6.78 Equil. pH: 7.36 ANC: 145.7 DOC: 5.80
Closed DIC: 1.90 Equil. DIC: 1.92 Meas. Cond: 17.2 Cal. Cond: 18.9
Ca: 99.3 Mg: 60.9 Na: 20.4 K: 8.7 NH4: 2.8
SO4: 22.7 HCO3: 112.0 Cl: 6.2 NO3: 6.3 F: 1.4
Sum Cations: 192.3 Sum Anions: 148.7 Cations/Anions: 1.29 Tot. P: 23.0
Tot. Al: 12.0 Ext. Al: 2.0 Fe: 640.0 Mn: 0.0 SiO2: 2.49

ID: 2B2-078 Name: BOHMIER LAKE State: MI Date: 03NOV84
Sample Type: REGULAR Latitude: 46-50'05"N Longitude: 88-52'47"W
Elevation: 365 Surface Temp: 7.3 Stratified: MIXED Site Depth: 19.5
Lake Area: 5 Watershed Area: 18 WA/LA: 4.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.5 Turbidity: 0.3 Color: 10
Closed pH: 5.63 Equil. pH: 6.45 ANC: 11.0 DOC: 2.20
Closed DIC: 1.08 Equil. DIC: 0.43 Meas. Cond: 10.6 Cal. Cond: 11.0
Ca: 38.4 Mg: 20.6 Na: 8.7 K: 6.6 NH4: 1.7
SO4: 61.6 HCO3: 15.6 Cl: 5.1 NO3: 0.0 F: 0.5
Sum Cations: 77.6 Sum Anions: 82.9 Cations/Anions: 0.94 Tot. P: 11.0
Tot. Al: 11.0 Ext. Al: 2.0 Fe: 10.0 Mn: 10.0 SiO2: 0.15

ID: 2B2-079 Name: PINE LAKE State: MI Date: 18OCT84
Sample Type: REGULAR Latitude: 46-58'57"N Longitude: 88-43'07"W
Elevation: 382 Surface Temp: 12.1 Stratified: MIXED Site Depth: 2.2
Lake Area: 9 Watershed Area: 36 WA/LA: 4.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.2 Turbidity: 0.8 Color: 25
Closed pH: 6.07 Equil. pH: 6.45 ANC: 27.0 DOC: 4.40
Closed DIC: 0.68 Equil. DIC: 0.33 Meas. Cond: 12.3 Cal. Cond: 12.4
Ca: 48.4 Mg: 28.0 Na: 9.6 K: 8.2 NH4: 0.0
SO4: 56.4 HCO3: 18.2 Cl: 15.8 NO3: 0.7 F: 0.7
Sum Cations: 95.0 Sum Anions: 91.8 Cations/Anions: 1.03 Tot. P: 15.0
Tot. Al: 38.0 Ext. Al: 8.0 Fe: 10.0 Mn: 0.0 SiO2: 0.08

ID: 2B2-082 Name: (NO NAME) State: MI Date: 03NOV84
Sample Type: REGULAR Latitude: 46-51'41"N Longitude: 88-50'48"W
Elevation: 368 Surface Temp: 4.7 Stratified: MIXED Site Depth: 17.3
Lake Area: 4 Watershed Area: 98 WA/LA: 22.3 Hydro Type: DRAINAGE
Residence Time: 0.89 Secchi Depth: 4.0 Turbidity: 0.5 Color: 25
Closed pH: 5.60 Equil. pH: 6.43 ANC: 23.5 DOC: 4.00
Closed DIC: 1.92 Equil. DIC: 0.36 Meas. Cond: 14.0 Cal. Cond: 13.6
Ca: 51.4 Mg: 28.0 Na: 13.0 K: 11.8 NH4: 2.8
SO4: 65.1 HCO3: 18.4 Cl: 6.1 NO3: 0.4 F: 0.6
Sum Cations: 109.2 Sum Anions: 90.5 Cations/Anions: 1.21 Tot. P: 9.0
Tot. Al: 69.0 Ext. Al: 25.5 Fe: 80.0 Mn: 20.0 SiO2: 0.29

(continued)

TABLE 3-1 (continued)

ID: 2B2-083 Name: FAWN LAKE State: MI Date: 20OCT84
Sample Type: REGULAR Latitude: 46-30'02"N Longitude: 86-17'49"W
Elevation: 274 Surface Temp: 10.4 Stratified: MIXED Site Depth: 8.2
Lake Area: 7 Watershed Area: 36 WA/LA: 4.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.8 Turbidity: 0.8 Color: 18
Closed pH: 7.69 Equil. pH: 8.33 ANC: 960.3 DOC: 10.80
Closed DIC: 11.57 Equil. DIC: 10.31 Meas. Cond: 98.7 Cal. Cond: 105.8
Ca: 821.1 Mg: 201.9 Na: 30.7 K: 14.1 NH4: 2.2
SO4: 66.6 HCO3: 834.2 Cl: 7.6 NO3: 0.1 F: 1.5
Sum Cations: 1070.0 Sum Anions: 916.6 Cations/Anions: 1.17 Tot. P: 24.5
Tot. Al: 5.5 Ext. Al: 5.0 Fe: 65.0 Mn: 0.0 SiO2: 3.85

ID: 2B2-084 Name: CORNER LAKE State: MI Date: 17OCT84
Sample Type: REGULAR Latitude: 46-40'50"N Longitude: 88-04'30"W
Elevation: 540 Surface Temp: 12.2 Stratified: MIXED Site Depth: 2.7
Lake Area: 7 Watershed Area: 117 WA/LA: 18.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.9 Turbidity: 1.0 Color: 90
Closed pH: 6.61 Equil. pH: 7.25 ANC: 127.0 DOC: 11.90
Closed DIC: 1.60 Equil. DIC: 1.13 Meas. Cond: 27.3 Cal. Cond: 26.8
Ca: 167.7 Mg: 74.9 Na: 19.6 K: 8.7 NH4: 0.0
SO4: 84.3 HCO3: 83.7 Cl: 7.1 NO3: 1.3 F: 1.3
Sum Cations: 271.0 Sum Anions: 177.7 Cations/Anions: 1.53 Tot. P: 8.0
Tot. Al: 178.0 Ext. Al: 85.0 Fe: 90.0 Mn: 0.0 SiO2: 1.75

ID: 2B2-087 Name: (NO NAME) State: MI Date: 23OCT84
Sample Type: REGULAR Latitude: 46-31'53"N Longitude: 85-36'07"W
Elevation: 237 Surface Temp: 6.3 Stratified: MIXED Site Depth: 0.9
Lake Area: 5 Watershed Area: 153 WA/LA: 30.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.6 Turbidity: 1.0 Color: 100
Closed pH: 4.62 Equil. pH: 4.62 ANC: -24.6 DOC: 17.00
Closed DIC: 0.84 Equil. DIC: 0.24 Meas. Cond: 21.6 Cal. Cond: 21.0
Ca: 45.9 Mg: 33.7 Na: 15.2 K: 8.0 NH4: 4.4
SO4: 46.4 HCO3: 0.9 Cl: 15.0 NO3: 0.2 F: 0.9
Sum Cations: 135.5 Sum Anions: 63.4 Cations/Anions: 2.14 Tot. P: 23.0
Tot. Al: 155.0 Ext. Al: 45.0 Fe: 410.0 Mn: 30.0 SiO2: 0.10

ID: 2B2-088 Name: STONINGTON LAKE State: MI Date: 18OCT84
Sample Type: REGULAR Latitude: 46-57'47"N Longitude: 88-47'10"W
Elevation: 387 Surface Temp: 11.7 Stratified: MIXED Site Depth: 6.4
Lake Area: 5 Watershed Area: 282 WA/LA: 55.3 Hydro Type: DRAINAGE
Residence Time: 0.14 Secchi Depth: 1.5 Turbidity: 0.6 Color: 55
Closed pH: 7.21 Equil. pH: 8.16 ANC: 495.0 DOC: 6.90
Closed DIC: 6.19 Equil. DIC: 5.40 Meas. Cond: 64.7 Cal. Cond: 67.3
Ca: 387.2 Mg: 147.2 Na: 90.5 K: 12.8 NH4: 0.0
SO4: 63.5 HCO3: 444.4 Cl: 78.4 NO3: 0.1 F: 1.6
Sum Cations: 637.8 Sum Anions: 588.9 Cations/Anions: 1.08 Tot. P: 15.0
Tot. Al: 43.0 Ext. Al: 8.0 Fe: 110.0 Mn: 0.0 SiO2: 2.87

ID: 2B2-090 Name: ELEVENMILE LAKE State: MI Date: 18OCT84
Sample Type: REGULAR Latitude: 47-00'57"N Longitude: 88-42'30"W
Elevation: 422 Surface Temp: 12.0 Stratified: MIXED Site Depth: 1.7
Lake Area: 6 Watershed Area: 44 WA/LA: 8.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.7 Turbidity: 0.3 Color: 25
Closed pH: 5.13 Equil. pH: 5.11 ANC: -7.0 DOC: 3.50
Closed DIC: 0.43 Equil. DIC: 0.11 Meas. Cond: 12.7 Cal. Cond: 14.2
Ca: 31.9 Mg: 25.5 Na: 7.4 K: 6.4 NH4: 0.0
SO4: 67.7 HCO3: 1.5 Cl: 21.7 NO3: 0.0 F: 0.6
Sum Cations: 79.5 Sum Anions: 91.5 Cations/Anions: 0.87 Tot. P: 2.0
Tot. Al: 38.0 Ext. Al: 13.0 Fe: 10.0 Mn: 20.0 SiO2: 0.00

(continued)

TABLE 3-1 (continued)

ID: 2B2-091 Name: DEER LAKE State: MI Date: 20OCT84
Sample Type: REGULAR Latitude: 46'30'25"N Longitude: 86-14'35"W
Elevation: 279 Surface Temp: 9.4 Stratified: MIXED Site Depth: 0.9
Lake Area: 7 Watershed Area: 39 WA/LA: 5.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.5 Turbidity: 0.4 Color: 15
Closed pH: 5.24 Equil. pH: 5.30 ANC: 1.7 DOC: 3.60
Closed DIC: 0.46 Equil. DIC: 0.12 Meas. Cond: 14.4 Cal. Cond: 15.6
Ca: 53.9 Mg: 22.2 Na: 11.3 K: 9.2 NH4: 7.7
SO4: 79.3 HCO3: 4.7 Cl: 5.4 NO3: 8.5 F: 0.6
Sum Cations: 109.3 Sum Anions: 98.6 Cations/Anions: 1.11 Tot. P: 6.0
Tot. Al: 29.0 Ext. Al: 18.0 Fe: 10.0 Mn: 30.0 SiO2: 0.22

ID: 2B2-095 Name: EVERGREEN LAKE State: MI Date: 17OCT84
Sample Type: REGULAR Latitude: 46-42'39"N Longitude: 88-02'09"W
Elevation: 540 Surface Temp: 11.9 Stratified: WEAK Site Depth: 9.1
Lake Area: 6 Watershed Area: 54 WA/LA: 8.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.9 Turbidity: 1.0 Color: 35
Closed pH: 6.82 Equil. pH: 7.11 ANC: 90.0 DOC: 7.20
Closed DIC: 1.04 Equil. DIC: 0.96 Meas. Cond: 20.6 Cal. Cond: 20.7
Ca: 120.8 Mg: 57.6 Na: 11.3 K: 5.1 NH4: 0.0
SO4: 78.1 HCO3: 58.2 Cl: 7.1 NO3: 0.1 F: 0.8
Sum Cations: 195.0 Sum Anions: 144.3 Cations/Anions: 1.35 Tot. P: 1.0
Tot. Al: 79.0 Ext. Al: 21.0 Fe: 190.0 Mn: 0.0 SiO2: 1.46

ID: 2B2-097 Name: LAKE RAYMOND State: MI Date: 14OCT84
Sample Type: REGULAR Latitude: 46-39'38"N Longitude: 87-58'25"W
Elevation: 551 Surface Temp: 12.0 Stratified: MIXED Site Depth: 5.8
Lake Area: 9 Watershed Area: 57 WA/LA: 6.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.3 Turbidity: 0.7 Color: 30
Closed pH: 7.91 Equil. pH: 8.04 ANC: 450.0 DOC: 7.20
Closed DIC: 4.87 Equil. DIC: 4.91 Meas. Cond: 53.0 Cal. Cond: 55.0
Ca: 363.8 Mg: 143.1 Na: 19.1 K: 5.9 NH4: 0.0
SO4: 71.2 HCO3: 405.4 Cl: 5.9 NO3: 0.4 F: 1.3
Sum Cations: 531.9 Sum Anions: 486.0 Cations/Anions: 1.09 Tot. P: 10.0
Tot. Al: 25.0 Ext. Al: 9.0 Fe: 20.0 Mn: 0.0 SiO2: 0.35

ID: 2B2-098 Name: DELENE LAKE State: MI Date: 17OCT84
Sample Type: REGULAR Latitude: 46-32'29"N Longitude: 88-24'19"W
Elevation: 507 Surface Temp: 12.2 Stratified: MIXED Site Depth: 1.5
Lake Area: 26 Watershed Area: 202 WA/LA: 7.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.4 Turbidity: 2.4 Color: 45
Closed pH: 6.90 Equil. pH: 7.24 ANC: 129.0 DOC: 10.30
Closed DIC: 1.50 Equil. DIC: 1.29 Meas. Cond: 19.6 Cal. Cond: 18.4
Ca: 125.7 Mg: 49.4 Na: 14.4 K: 8.7 NH4: 0.0
SO4: 28.5 HCO3: 92.3 Cl: 5.4 NO3: 0.3 F: 1.2
Sum Cations: 198.3 Sum Anions: 127.7 Cations/Anions: 1.55 Tot. P: 11.0
Tot. Al: 25.0 Ext. Al: 2.0 Fe: 190.0 Mn: 30.0 SiO2: 0.80

ID: 2B2-099 Name: HAPPLES LAKE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 46-28'49"N Longitude: 91-22'08"W
Elevation: 342 Surface Temp: 6.8 Stratified: MIXED Site Depth: 11.0
Lake Area: 9 Watershed Area: 57 WA/LA: 6.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.9 Turbidity: 0.6 Color: 10
Closed pH: 7.51 Equil. pH: 8.02 ANC: 524.3 DOC: 3.00
Closed DIC: 6.38 Equil. DIC: 6.56 Meas. Cond: 55.0 Cal. Cond: 68.9
Ca: 424.6 Mg: 171.9 Na: 39.1 K: 9.5 NH4: 18.0
SO4: 63.3 HCO3: 555.1 Cl: 7.1 NO3: 0.0 F: 1.7
Sum Cations: 663.2 Sum Anions: 629.1 Cations/Anions: 1.05 Tot. P: 8.0
Tot. Al: 3.0 Ext. Al: 2.0 Fe: 0.0 Mn: 10.0 SiO2: 1.71

(continued)

TABLE 3-1 (continued)

ID: 2B2-100 Name: HERBERT LAKE State: MI Date: 17OCT84
Sample Type: REGULAR Latitude: 46-39'00"N Longitude: 88-06'25"W
Elevation: 521 Surface Temp: 12.5 Stratified: MIXED Site Depth: 3.4
Lake Area: 13 Watershed Area: 96 WA/LA: 7.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.8 Turbidity: 0.9 Color: 25
Closed pH: 4.83 Equil. pH: 4.80 ANC: 15.0 DOC: 4.65
Closed DIC: 0.34 Equil. DIC: 0.16 Meas. Cond: 20.5 Cal. Cond: 21.0
Ca: 49.6 Mg: 34.5 Na: 14.1 K: 5.5 NH4: 0.0
SO4: 114.0 HCO3: 0.8 Cl: 5.6 NO3: 0.6 F: 1.2
Sum Cations: 119.3 Sum Anions: 122.3 Cations/Anions: 0.98 Tot. P: 0.5
Tot. Al: 143.5 Ext. Al: 90.0 Fe: 45.0 Mn: 30.0 SiO2: 0.13

ID: 2B3-001 Name: LAKE THERESA State: MI Date: 20OCT84
Sample Type: REGULAR Latitude: 48-02'05"N Longitude: 88-37'50"W
Elevation: 189 Surface Temp: 7.2 Stratified: MIXED Site Depth: 0.9
Lake Area: 7 Watershed Area: 67 WA/LA: 10.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.7 Turbidity: 1.7 Color: 63
Closed pH: 7.13 Equil. pH: 7.52 ANC: 224.4 DOC: 18.10
Closed DIC: 2.07 Equil. DIC: 2.09 Meas. Cond: 30.4 Cal. Cond: 32.0
Ca: 231.5 Mg: 93.8 Na: 20.6 K: 3.3 NH4: 1.1
SO4: 49.3 HCO3: 168.2 Cl: 5.6 NO3: 0.0 F: 0.7
Sum Cations: 350.4 Sum Anions: 224.1 Cations/Anions: 1.56 Tot. P: 22.0
Tot. Al: 113.0 Ext. Al: 24.0 Fe: 0.0 Mn: 0.0 SiO2: 0.43

ID: 2B3-003 Name: DEER LAKE State: MI Date: 18OCT84
Sample Type: REGULAR Latitude: 47-21'15"N Longitude: 88-02'15"W
Elevation: 189 Surface Temp: 11.6 Stratified: MIXED Site Depth: 4.3
Lake Area: 126 Watershed Area: 1829 WA/LA: 14.5 Hydro Type: DRAINAGE
Residence Time: 0.33 Secchi Depth: 1.2 Turbidity: 1.6 Color: 55
Closed pH: 7.12 Equil. pH: 7.78 ANC: 218.0 DOC: 11.00
Closed DIC: 2.49 Equil. DIC: 2.11 Meas. Cond: 33.4 Cal. Cond: 32.0
Ca: 188.1 Mg: 106.9 Na: 35.7 K: 12.3 NH4: 0.0
SO4: 58.9 HCO3: 163.5 Cl: 5.1 NO3: 0.0 F: 1.4
Sum Cations: 343.1 Sum Anions: 229.2 Cations/Anions: 1.50 Tot. P: 11.0
Tot. Al: 98.0 Ext. Al: 12.0 Fe: 140.0 Mn: 0.0 SiO2: 1.36

ID: 2B3-004 Name: CLIFF LAKE State: MI Date: 17OCT84
Sample Type: REGULAR Latitude: 46-50'54"N Longitude: 87-58'24"W
Elevation: 283 Surface Temp: 12.5 Stratified: WEAK Site Depth: 10.4
Lake Area: 20 Watershed Area: 109 WA/LA: 5.4 Hydro Type: DRAINAGE
Residence Time: 1.85 Secchi Depth: 2.9 Turbidity: 0.7 Color: 25
Closed pH: 7.70 Equil. pH: 8.21 ANC: 714.0 DOC: 6.00
Closed DIC: 8.04 Equil. DIC: 8.04 Meas. Cond: 80.3 Cal. Cond: 85.5
Ca: 573.8 Mg: 191.7 Na: 34.8 K: 14.3 NH4: 0.0
SO4: 107.4 HCO3: 634.3 Cl: 17.8 NO3: 0.0 F: 1.5
Sum Cations: 814.7 Sum Anions: 763.9 Cations/Anions: 1.07 Tot. P: 1.0
Tot. Al: 388.0 Ext. Al: 17.0 Fe: 20.0 Mn: 0.0 SiO2: 5.00

ID: 2B3-005 Name: LOST LAKE State: MI Date: 17OCT84
Sample Type: REGULAR Latitude: 46-44'03"N Longitude: 88-21'42"W
Elevation: 357 Surface Temp: 12.6 Stratified: MIXED Site Depth: 6.7
Lake Area: 5 Watershed Area: 18 WA/LA: 3.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.4 Turbidity: 0.5 Color: 30
Closed pH: 7.86 Equil. pH: 8.40 ANC: 1044.2 DOC: 7.70
Closed DIC: 11.60 Equil. DIC: 12.57 Meas. Cond: 108.1 Cal. Cond: 115.0
Ca: 829.8 Mg: 253.4 Na: 30.4 K: 13.3 NH4: 0.0
SO4: 79.7 HCO3: 950.1 Cl: 7.1 NO3: 0.4 F: 2.0
Sum Cations: 1127.0 Sum Anions: 1044.9 Cations/Anions: 1.08 Tot. P: 1.0
Tot. Al: 15.0 Ext. Al: 4.0 Fe: 40.0 Mn: 0.0 SiO2: 4.15

(continued)

TABLE 3-1 (continued)

ID: 2B3-007 Name: ISLAND LAKE State: MI Date: 13OCT84
Sample Type: REGULAR Latitude: 46-40'18"N Longitude: 87-47'10"W
Elevation: 527 Surface Temp: 12.5 Stratified: STRONG Site Depth: 14.9
Lake Area: 12 Watershed Area: 52 WA/LA: 4.5 Hydro Type: DRAINAGE
Residence Time: 3.06 Secchi Depth: 4.6 Turbidity: 0.2 Color: 20
Closed pH: 6.56 Equil. pH: 7.01 ANC: 56.0 DOC: 4.40
Closed DIC: 0.72 Equil. DIC: 0.54 Meas. Cond: 20.5 Cal. Cond: 21.2
Ca: 120.8 Mg: 38.7 Na: 14.4 K: 4.6 NH4: 0.0
SO4: 100.6 HCO3: 41.0 Cl: 11.3 NO3: 0.4 F: 1.1
Sum Cations: 178.6 Sum Anions: 154.3 Cations/Anions: 1.16 Tot. P: 4.0
Tot. Al: 70.0 Ext. Al: 26.0 Fe: 0.0 Mn: 0.0 SiO2: 1.09

ID: 2B3-008 Name: SECTION FOUR LAKE State: MI Date: 23OCT84
Sample Type: REGULAR Latitude: 46-40'26"N Longitude: 85-18'15"W
Elevation: 220 Surface Temp: 9.4 Stratified: MIXED Site Depth: 6.1
Lake Area: 4 Watershed Area: 10 WA/LA: 2.3 Hydro Type: DRAINAGE
Residence Time: 1.64 Secchi Depth: 2.0 Turbidity: 1.0 Color: 30
Closed pH: 6.78 Equil. pH: 7.22 ANC: 145.0 DOC: 8.90
Closed DIC: 1.85 Equil. DIC: 1.42 Meas. Cond: 29.2 Cal. Cond: 30.0
Ca: 149.7 Mg: 93.0 Na: 18.7 K: 16.5 NH4: 5.5
SO4: 97.6 HCO3: 106.3 Cl: 10.7 NO3: 1.2 F: 0.9
Sum Cations: 283.6 Sum Anions: 216.8 Cations/Anions: 1.31 Tot. P: 1.0
Tot. Al: 37.0 Ext. Al: 2.0 Fe: 0.0 Mn: 0.0 SiO2: 0.74

ID: 2B3-009 Name: GRAND SABLE LAKE State: MI Date: 20OCT84
Sample Type: REGULAR Latitude: 46-38'15"N Longitude: 86-02'30"W
Elevation: 226 Surface Temp: 11.8 Stratified: MIXED Site Depth: 18.6
Lake Area: 262 Watershed Area: 2707 WA/LA: 10.3 Hydro Type: DRAINAGE
Residence Time: 1.82 Secchi Depth: 3.3 Turbidity: 0.6 Color: 30
Closed pH: 7.86 Equil. pH: 8.32 ANC: 982.9 DOC: 11.90
Closed DIC: 11.62 Equil. DIC: 10.64 Meas. Cond: 102.7 Cal. Cond: 118.1
Ca: 711.3 Mg: 399.8 Na: 37.4 K: 20.7 NH4: 0.5
SO4: 104.7 HCO3: 925.9 Cl: 9.0 NO3: 2.5 F: 2.2
Sum Cations: 1169.7 Sum Anions: 1052.6 Cations/Anions: 1.11 Tot. P: 14.0
Tot. Al: 9.0 Ext. Al: 5.5 Fe: 40.0 Mn: 0.0 SiO2: 6.49

ID: 2B3-012 Name: ROUND LAKE State: MI Date: 14OCT84
Sample Type: REGULAR Latitude: 46-33'24"N Longitude: 87-56'52"W
Elevation: 486 Surface Temp: 13.5 Stratified: MIXED Site Depth: 4.6
Lake Area: 17 Watershed Area: 728 WA/LA: 43.6 Hydro Type: DRAINAGE
Residence Time: 0.12 Secchi Depth: 1.2 Turbidity: 0.8 Color: 85
Closed pH: 6.93 Equil. pH: 7.38 ANC: 161.0 DOC: 10.70
Closed DIC: 1.73 Equil. DIC: 1.44 Meas. Cond: 31.3 Cal. Cond: 30.8
Ca: 182.1 Mg: 96.2 Na: 24.4 K: 8.7 NH4: 0.0
SO4: 91.6 HCO3: 111.0 Cl: 7.3 NO3: 0.7 F: 1.5
Sum Cations: 311.6 Sum Anions: 212.3 Cations/Anions: 1.47 Tot. P: 17.0
Tot. Al: 111.0 Ext. Al: 25.0 Fe: 180.0 Mn: 0.0 SiO2: 2.13

ID: 2B3-013 Name: FOX LAKE State: MI Date: 20OCT84
Sample Type: REGULAR Latitude: 46-35'32"N Longitude: 86-02'04"W
Elevation: 282 Surface Temp: 9.7 Stratified: MIXED Site Depth: 7.3
Lake Area: 5 Watershed Area: 132 WA/LA: 28.7 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 1.5 Turbidity: 1.0 Color: 75
Closed pH: 4.94 Equil. pH: 5.03 ANC: -0.4 DOC: 2.70
Closed DIC: 1.03 Equil. DIC: 0.18 Meas. Cond: 13.5 Cal. Cond: 13.5
Ca: 43.4 Mg: 22.2 Na: 7.4 K: 13.0 NH4: 1.1
SO4: 52.9 HCO3: 1.7 Cl: 4.8 NO3: 0.0 F: 0.7
Sum Cations: 97.3 Sum Anions: 60.0 Cations/Anions: 1.62 Tot. P: 20.0
Tot. Al: 116.0 Ext. Al: 50.0 Fe: 210.0 Mn: 50.0 SiO2: 0.63

(continued)

TABLE 3-1 (continued)

ID: 2B3-014 Name: LAURIE LAKES (SE) State: MI Date: 23OCT84
Sample Type: REGULAR Latitude: 46-35'49"N Longitude: 85-04'30"W
Elevation: 203 Surface Temp: 7.7 Stratified: MIXED Site Depth: 1.2
Lake Area: 12 Watershed Area: 44 WA/LA: 3.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.5 Turbidity: 0.9 Color: 15
Closed pH: 4.53 Equil. pH: 4.53 ANC: -34.2 DOC: 2.60
Closed DIC: 0.40 Equil. DIC: 0.18 Meas. Cond: 21.5 Cal. Cond: 22.2
Ca: 20.0 Mg: 14.8 Na: 13.0 K: 7.1 NH4: 5.5
SO4: 74.3 HCO3: 0.4 Cl: 16.4 NO3: 4.0 F: 0.7
Sum Cations: 92.1 Sum Anions: 95.9 Cations/Anions: 0.96 Tot. P: 12.0
Tot. Al: 67.0 Ext. Al: 40.0 Fe: 20.0 Mn: 30.0 SiO2: 0.00

ID: 2B3-016 Name: BASS LAKE State: MI Date: 14OCT84
Sample Type: REGULAR Latitude: 46-31'44"N Longitude: 88-08'33"W
Elevation: 492 Surface Temp: 12.4 Stratified: WEAK Site Depth: 7.9
Lake Area: 7 Watershed Area: 324 WA/LA: 44.4 Hydro Type: DRAINAGE
Residence Time: 0.21 Secchi Depth: 1.8 Turbidity: 0.8 Color: 40
Closed pH: 6.82 Equil. pH: 7.79 ANC: 298.0 DOC: 4.50
Closed DIC: 4.60 Equil. DIC: 3.41 Meas. Cond: 39.5 Cal. Cond: 41.2
Ca: 164.2 Mg: 162.1 Na: 40.9 K: 21.5 NH4: 0.0
SO4: 68.5 HCO3: 286.7 Cl: 8.5 NO3: 0.7 F: 3.3
Sum Cations: 388.7 Sum Anions: 367.8 Cations/Anions: 1.06 Tot. P: 26.0
Tot. Al: 12.0 Ext. Al: 3.0 Fe: 60.0 Mn: 40.0 SiO2: 5.28

ID: 2B3-018 Name: EAST LAKE State: MI Date: 23OCT84
Sample Type: REGULAR Latitude: 46-31'53"N Longitude: 85-59'20"W
Elevation: 276 Surface Temp: 5.7 Stratified: MIXED Site Depth: 0.9
Lake Area: 5 Watershed Area: 70 WA/LA: 13.7 Hydro Type: DRAINAGE
Residence Time: 0.07 Secchi Depth: 0.9 Turbidity: 0.8 Color: 45
Closed pH: 7.65 Equil. pH: 8.07 ANC: 571.0 DOC: 11.50
Closed DIC: 6.04 Equil. DIC: 5.91 Meas. Cond: 64.5 Cal. Cond: 67.5
Ca: 373.3 Mg: 295.3 Na: 25.2 K: 11.4 NH4: 3.3
SO4: 66.2 HCO3: 476.0 Cl: 8.2 NO3: 0.0 F: 1.5
Sum Cations: 708.5 Sum Anions: 553.7 Cations/Anions: 1.28 Tot. P: 17.0
Tot. Al: 18.0 Ext. Al: 6.0 Fe: 50.0 Mn: 0.0 SiO2: 4.09

ID: 2B3-020 Name: BUTO LAKE State: MI Date: 16OCT84
Sample Type: REGULAR Latitude: 46-26'44"N Longitude: 87-59'45"W
Elevation: 479 Surface Temp: 12.9 Stratified: MIXED Site Depth: 5.5
Lake Area: 10 Watershed Area: 60 WA/LA: 6.2 Hydro Type: DRAINAGE
Residence Time: 0.88 Secchi Depth: 1.0 Turbidity: 2.2 Color: 110
Closed pH: 6.10 Equil. pH: 7.01 ANC: 83.0 DOC: 7.80
Closed DIC: 2.08 Equil. DIC: 0.69 Meas. Cond: 22.4 Cal. Cond: 21.8
Ca: 89.8 Mg: 74.0 Na: 25.2 K: 10.2 NH4: 1.7
SO4: 83.1 HCO3: 59.2 Cl: 9.9 NO3: 1.4 F: 2.1
Sum Cations: 201.5 Sum Anions: 155.7 Cations/Anions: 1.29 Tot. P: 13.0
Tot. Al: 65.0 Ext. Al: 15.0 Fe: 510.0 Mn: 30.0 SiO2: 2.32

ID: 2B3-022 Name: LONG LAKE State: MI Date: 23OCT84
Sample Type: REGULAR Latitude: 46-27'28"N Longitude: 85-49'02"W
Elevation: 258 Surface Temp: 4.5 Stratified: MIXED Site Depth: 0.9
Lake Area: 22 Watershed Area: 725 WA/LA: 32.7 Hydro Type: DRAINAGE
Residence Time: 0.03 Secchi Depth: 0.9 Turbidity: 1.1 Color: 10
Closed pH: 7.82 Equil. pH: 8.62 ANC: 1730.0 DOC: 1.30
Closed DIC: 19.18 Equil. DIC: 19.09 Meas. Cond: 170.2 Cal. Cond: 186.5
Ca: 1195.6 Mg: 529.8 Na: 47.0 K: 20.6 NH4: 5.5
SO4: 110.3 HCO3: 1600.2 Cl: 17.8 NO3: 9.5 F: 2.1
Sum Cations: 1798.5 Sum Anions: 1751.4 Cations/Anions: 1.03 Tot. P: 16.0
Tot. Al: 17.0 Ext. Al: 0.0 Fe: 80.0 Mn: 30.0 SiO2: 8.90

(continued)

TABLE 3-1 (continued)

ID: 2B3-023 Name: BONE LAKE State: MI Date: 14OCT84
Sample Type: REGULAR Latitude: 46-22'30"N Longitude: 88-18'22"W
Elevation: 491 Surface Temp: 13.5 Stratified: MIXED Site Depth: 2.1
Lake Area: 63 Watershed Area: 5467 WA/LA: 86.5 Hydro Type: DRAINAGE
Residence Time: 0.04 Secchi Depth: 1.6 Turbidity: 1.1 Color: 55
Closed pH: 7.65 Equil. pH: 8.44 ANC: 1136.0 DOC: 9.30
Closed DIC: 12.37 Equil. DIC: 12.60 Meas. Cond: 114.0 Cal. Cond: 124.7
Ca: 694.6 Mg: 422.0 Na: 58.3 K: 25.1 NH4: 0.0
SO4: 101.4 HCO3: 1051.1 Cl: 8.7 NO3: 1.7 F: 2.4
Sum Cations: 1200.0 Sum Anions: 1171.5 Cations/Anions: 1.02 Tot. P: 19.0
Tot. Al: 31.0 Ext. Al: 6.0 Fe: 80.0 Mn: 0.0 SiO2: 4.36

ID: 2B3-027 Name: CASEY LAKE State: MI Date: 16OCT84
Sample Type: REGULAR Latitude: 46-17'20"N Longitude: 87-55'00"W
Elevation: 448 Surface Temp: 13.4 Stratified: MIXED Site Depth: 4.9
Lake Area: 22 Watershed Area: 52 WA/LA: 2.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.3 Turbidity: 0.7 Color: 15
Closed pH: 8.25 Equil. pH: 8.69 ANC: 1713.0 DOC: 4.00
Closed DIC: 18.61 Equil. DIC: 18.16 Meas. Cond: 157.2 Cal. Cond: 170.3
Ca: 859.8 Mg: 765.8 Na: 32.6 K: 21.2 NH4: 0.0
SO4: 74.5 HCO3: 1500.1 Cl: 15.2 NO3: 1.1 F: 2.2
Sum Cations: 1679.5 Sum Anions: 1611.6 Cations/Anions: 1.04 Tot. P: 5.0
Tot. Al: 29.0 Ext. Al: 1.0 Fe: 30.0 Mn: 0.0 SiO2: 2.53

ID: 2B3-028 Name: CATARACT BASIN State: MI Date: 16OCT84
Sample Type: REGULAR Latitude: 46-18'50"N Longitude: 87-31'00"W
Elevation: 357 Surface Temp: 12.8 Stratified: MIXED Site Depth: 3.4
Lake Area: 32 Watershed Area: 54501 WA/LA: 1687.3 Hydro Type: RESERVOIR
Residence Time: 0.00 Secchi Depth: 1.2 Turbidity: 4.3 Color: 83
Closed pH: 7.41 Equil. pH: 8.37 ANC: 866.5 DOC: 7.15
Closed DIC: 10.55 Equil. DIC: 9.38 Meas. Cond: 101.7 Cal. Cond: 107.5
Ca: 525.9 Mg: 315.1 Na: 171.4 K: 18.7 NH4: 0.0
SO4: 104.8 HCO3: 777.4 Cl: 75.7 NO3: 5.5 F: 3.8
Sum Cations: 1031.1 Sum Anions: 969.8 Cations/Anions: 1.06 Tot. P: 11.0
Tot. Al: 64.5 Ext. Al: 4.0 Fe: 850.0 Mn: 90.0 SiO2: 8.48

ID: 2B3-030 Name: ISLAND LAKE State: MI Date: 25OCT84
Sample Type: REGULAR Latitude: 46-16'05"N Longitude: 86-38'51"W
Elevation: 252 Surface Temp: 9.1 Stratified: MIXED Site Depth: 3.5
Lake Area: 15 Watershed Area: 47 WA/LA: 3.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.2 Turbidity: 0.6 Color: 15
Closed pH: 5.34 Equil. pH: 5.62 ANC: 8.4 DOC: 4.49
Closed DIC: 0.76 Equil. DIC: 0.00 Meas. Cond: 10.2 Cal. Cond: 10.5
Ca: 43.4 Mg: 18.1 Na: 6.1 K: 9.7 NH4: 1.7
SO4: 52.7 HCO3: 2.9 Cl: 6.8 NO3: 0.5 F: 0.7
Sum Cations: 81.5 Sum Anions: 63.6 Cations/Anions: 1.28 Tot. P: 16.0
Tot. Al: 27.0 Ext. Al: 11.0 Fe: 40.0 Mn: 20.0 SiO2: 0.19

ID: 2B3-031 Name: TWIN LAKES State: MI Date: 22OCT84
Sample Type: REGULAR Latitude: 46-18'29"N Longitude: 85-32'00"W
Elevation: 221 Surface Temp: 10.4 Stratified: STRONG Site Depth: 20.1
Lake Area: 38 Watershed Area: 456 WA/LA: 12.0 Hydro Type: DRAINAGE
Residence Time: 1.74 Secchi Depth: 2.9 Turbidity: 0.7 Color: 40
Closed pH: 8.03 Equil. pH: 8.85 ANC: 2726.0 DOC: 6.80
Closed DIC: 29.76 Equil. DIC: 29.81 Meas. Cond: 279.1 Cal. Cond: 299.5
Ca: 1826.3 Mg: 983.8 Na: 120.5 K: 29.6 NH4: 5.5
SO4: 160.5 HCO3: 2482.1 Cl: 63.2 NO3: 0.4 F: 3.3
Sum Cations: 2965.8 Sum Anions: 2735.5 Cations/Anions: 1.08 Tot. P: 12.0
Tot. Al: 24.0 Ext. Al: 2.0 Fe: 20.0 Mn: 0.0 SiO2: 9.62

(continued)

TABLE 3-1 (continued)

ID: 2B3-032 Name: ANDERSON LAKE State: MI Date: 16OCT84
Sample Type: REGULAR Latitude: 46-13'22"N Longitude: 87-29'30"W
Elevation: 336 Surface Temp: 13.6 Stratified: MIXED Site Depth: 6.1
Lake Area: 20 Watershed Area: 67 WA/LA: 3.3 Hydro Type: DRAINAGE
Residence Time: 1.87 Secchi Depth: 5.6 Turbidity: 1.3 Color: 20
Closed pH: 7.82 Equil. pH: 8.35 ANC: 852.0 DOC: 4.30
Closed DIC: 10.01 Equil. DIC: 9.43 Meas. Cond: 86.6 Cal. Cond: 90.5
Ca: 513.5 Mg: 325.8 Na: 30.9 K: 15.9 NH4: 0.0
SO4: 56.6 HCO3: 765.8 Cl: 12.4 NO3: 0.6 F: 1.4
Sum Cations: 886.0 Sum Anions: 840.6 Cations/Anions: 1.05 Tot. P: 9.0
Tot. Al: 14.0 Ext. Al: 2.0 Fe: 130.0 Mn: 0.0 SiO2: 8.42

ID: 2B3-034 Name: KLONDIKE LAKE State: MI Date: 25OCT84
Sample Type: REGULAR Latitude: 46-13'18"N Longitude: 86-30'10"W
Elevation: 241 Surface Temp: 9.6 Stratified: MIXED Site Depth: 13.7
Lake Area: 17 Watershed Area: 54 WA/LA: 3.2 Hydro Type: DRAINAGE
Residence Time: 3.43 Secchi Depth: 3.0 Turbidity: 0.8 Color: 25
Closed pH: 7.62 Equil. pH: 8.46 ANC: 1317.2 DOC: 6.17
Closed DIC: 15.70 Equil. DIC: 14.16 Meas. Cond: 133.4 Cal. Cond: 139.5
Ca: 984.5 Mg: 389.1 Na: 29.6 K: 22.0 NH4: 1.7
SO4: 47.9 HCO3: 1166.6 Cl: 10.2 NO3: 0.0 F: 1.7
Sum Cations: 1426.9 Sum Anions: 1232.8 Cations/Anions: 1.16 Tot. P: 9.0
Tot. Al: 3.0 Ext. Al: 0.0 Fe: 20.0 Mn: 0.0 SiO2: 6.14

ID: 2B3-035 Name: NELSON LAKE State: MI Date: 22OCT84
Sample Type: REGULAR Latitude: 46-13'42"N Longitude: 85-22'50"W
Elevation: 251 Surface Temp: 8.4 Stratified: MIXED Site Depth: 1.2
Lake Area: 12 Watershed Area: 155 WA/LA: 12.8 Hydro Type: DRAINAGE
Residence Time: 0.10 Secchi Depth: 1.2 Turbidity: 0.5 Color: 25
Closed pH: 8.58 Equil. pH: 8.80 ANC: 2392.0 DOC: 6.80
Closed DIC: 25.32 Equil. DIC: 25.42 Meas. Cond: 219.2 Cal. Cond: 207.5
Ca: 1368.3 Mg: 429.4 Na: 22.2 K: 14.8 NH4: 0.0
SO4: 67.0 HCO3: 2089.4 Cl: 12.4 NO3: 0.2 F: 1.5
Sum Cations: 1834.7 Sum Anions: 2195.7 Cations/Anions: 0.84 Tot. P: 7.0
Tot. Al: 12.0 Ext. Al: 0.0 Fe: 30.0 Mn: 0.0 SiO2: 1.55

ID: 2B3-036 Name: DAM LAKE State: MI Date: 25OCT84
Sample Type: REGULAR Latitude: 46-10'57"N Longitude: 86-43'15"W
Elevation: 239 Surface Temp: 5.9 Stratified: MIXED Site Depth: 2.1
Lake Area: 22 Watershed Area: 1743 WA/LA: 77.8 Hydro Type: DRAINAGE
Residence Time: 0.03 Secchi Depth: 1.2 Turbidity: 3.6 Color: 75
Closed pH: 7.65 Equil. pH: 8.40 ANC: 1251.9 DOC: 7.48
Closed DIC: 14.70 Equil. DIC: 14.07 Meas. Cond: 121.0 Cal. Cond: 141.5
Ca: 976.3 Mg: 359.5 Na: 34.1 K: 20.1 NH4: 5.0
SO4: 83.8 HCO3: 1158.4 Cl: 18.8 NO3: 5.5 F: 1.6
Sum Cations: 1395.0 Sum Anions: 1277.4 Cations/Anions: 1.09 Tot. P: 7.0
Tot. Al: 25.5 Ext. Al: 2.5 Fe: 890.0 Mn: 50.0 SiO2: 7.92

ID: 2B3-037 Name: RUMBLE LAKE State: MI Date: 25OCT84
Sample Type: REGULAR Latitude: 46-11'00"N Longitude: 86-33'33"W
Elevation: 235 Surface Temp: 9.1 Stratified: MIXED Site Depth: 7.6
Lake Area: 8 Watershed Area: 47 WA/LA: 6.2 Hydro Type: DRAINAGE
Residence Time: 1.19 Secchi Depth: 2.2 Turbidity: 0.8 Color: 10
Closed pH: 8.00 Equil. pH: 8.50 ANC: 1555.4 DOC: 3.46
Closed DIC: 17.76 Equil. DIC: 17.70 Meas. Cond: 155.1 Cal. Cond: 173.7
Ca: 1118.3 Mg: 486.2 Na: 41.3 K: 18.7 NH4: 3.9
SO4: 137.6 HCO3: 1454.0 Cl: 11.0 NO3: 0.0 F: 2.0
Sum Cations: 1668.3 Sum Anions: 1619.9 Cations/Anions: 1.03 Tot. P: 9.0
Tot. Al: 3.0 Ext. Al: 0.0 Fe: 10.0 Mn: 0.0 SiO2: 5.06

(continued)

TABLE 3-1 (continued)

ID: 2B3-039 Name: STROUBLE LAKE State: MI Date: 22OCT84
Sample Type: REGULAR Latitude: 46-08'50"N Longitude: 85-11'45"W
Elevation: 260 Surface Temp: 8.3 Stratified: MIXED Site Depth: 1.0
Lake Area: 136 Watershed Area: 620 WA/LA: 4.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.0 Turbidity: 1.2 Color: 25
Closed pH: 7.85 Equil. pH: 8.23 ANC: 601.9 DOC: 9.20
Closed DIC: 6.72 Equil. DIC: 6.74 Meas. Cond: 73.0 Cal. Cond: 77.1
Ca: 469.6 Mg: 247.6 Na: 13.0 K: 3.3 NH4: 8.3
SO4: 98.1 HCO3: 537.5 Cl: 31.6 NO3: 1.4 F: 1.6
Sum Cations: 741.8 Sum Anions: 673.1 Cations/Anions: 1.10 Tot. P: 9.0
Tot. Al: 36.0 Ext. Al: 8.0 Fe: 0.0 Mn: 0.0 SiO2: 0.24

ID: 2B3-042 Name: PEACOCK LAKE State: MI Date: 25OCT84
Sample Type: REGULAR Latitude: 46-04'42"N Longitude: 86-47'58"W
Elevation: 231 Surface Temp: 6.7 Stratified: MIXED Site Depth: 1.2
Lake Area: 8 Watershed Area: 28 WA/LA: 3.7 Hydro Type: DRAINAGE
Residence Time: 0.29 Secchi Depth: 0.7 Turbidity: 3.2 Color: 135
Closed pH: 7.57 Equil. pH: 8.39 ANC: 1311.8 DOC: 20.10
Closed DIC: 14.77 Equil. DIC: 12.81 Meas. Cond: 127.6 Cal. Cond: 134.8
Ca: 933.6 Mg: 433.5 Na: 43.1 K: 18.7 NH4: 1.1
SO4: 36.4 HCO3: 1065.8 Cl: 22.3 NO3: 0.0 F: 2.4
Sum Cations: 1430.0 Sum Anions: 1133.6 Cations/Anions: 1.26 Tot. P: 18.0
Tot. Al: 23.0 Ext. Al: 3.0 Fe: 1090.0 Mn: 40.0 SiO2: 3.02

ID: 2B3-043 Name: CLEAR SLOUGH State: MI Date: 24OCT84
Sample Type: REGULAR Latitude: 46-02'25"N Longitude: 86-12'30"W
Elevation: 184 Surface Temp: 6.7 Stratified: MIXED Site Depth: 1.0
Lake Area: 10 Watershed Area: 184 WA/LA: 18.2 Hydro Type: DRAINAGE
Residence Time: 0.06 Secchi Depth: 1.0 Turbidity: 0.8 Color: 75
Closed pH: 7.32 Equil. pH: 8.54 ANC: 1195.0 DOC: 10.70
Closed DIC: 13.93 Equil. DIC: 13.04 Meas. Cond: 137.5 Cal. Cond: 155.1
Ca: 971.1 Mg: 459.0 Na: 45.2 K: 19.6 NH4: 1.7
SO4: 245.5 HCO3: 1065.3 Cl: 23.4 NO3: 0.6 F: 1.9
Sum Cations: 1496.6 Sum Anions: 1339.8 Cations/Anions: 1.12 Tot. P: 19.0
Tot. Al: 39.0 Ext. Al: 7.0 Fe: 180.0 Mn: 0.0 SiO2: 6.05

ID: 2B3-049 Name: TIGHE LAKE State: MI Date: 24OCT84
Sample Type: REGULAR Latitude: 45-54'28"N Longitude: 86-26'58"W
Elevation: 218 Surface Temp: 7.0 Stratified: MIXED Site Depth: 1.0
Lake Area: 5 Watershed Area: 60 WA/LA: 12.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.6 Turbidity: 0.7 Color: 125
Closed pH: 6.08 Equil. pH: 6.86 ANC: 78.0 DOC: 13.50
Closed DIC: 0.99 Equil. DIC: 0.36 Meas. Cond: 26.7 Cal. Cond: 25.2
Ca: 111.8 Mg: 96.2 Na: 18.3 K: 7.7 NH4: 29.9
SO4: 84.7 HCO3: 29.7 Cl: 13.0 NO3: 4.3 F: 1.5
Sum Cations: 264.8 Sum Anions: 133.2 Cations/Anions: 1.99 Tot. P: 17.0
Tot. Al: 162.0 Ext. Al: 47.0 Fe: 340.0 Mn: 10.0 SiO2: 1.78

ID: 2B3-051 Name: JOHNS LAKES (WESTERN) State: MI Date: 23OCT84
Sample Type: REGULAR Latitude: 46-31'50"N Longitude: 85-54'16"W
Elevation: 289 Surface Temp: 9.5 Stratified: STRONG Site Depth: 18.9
Lake Area: 7 Watershed Area: 26 WA/LA: 3.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.7 Turbidity: 0.4 Color: 15
Closed pH: 4.91 Equil. pH: 4.85 ANC: -7.1 DOC: 3.60
Closed DIC: 0.62 Equil. DIC: 0.17 Meas. Cond: 13.8 Cal. Cond: 14.3
Ca: 25.9 Mg: 17.3 Na: 5.2 K: 15.0 NH4: 2.8
SO4: 58.1 HCO3: 1.2 Cl: 5.4 NO3: 0.3 F: 0.7
Sum Cations: 80.7 Sum Anions: 65.6 Cations/Anions: 1.23 Tot. P: 1.0
Tot. Al: 42.0 Ext. Al: 13.0 Fe: 40.0 Mn: 470.0 SiO2: 0.00

(continued)

TABLE 3-1 (continued)

ID: 2B3-052 Name: FRENCHMANS LAKE State: MI Date: 23OCT84
Sample Type: REGULAR Latitude: 46-21'42"N Longitude: 85-21'00"W
Elevation: 215 Surface Temp: 6.5 Stratified: MIXED Site Depth: 0.9
Lake Area: 10 Watershed Area: 67 WA/LA: 6.4 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 0.9 Turbidity: 1.7 Color: 130
Closed pH: 7.09 Equil. pH: 8.40 ANC: 995.0 DOC: 2.40
Closed DIC: 11.69 Equil. DIC: 9.97 Meas. Cond: 110.0 Cal. Cond: 119.6
Ca: 764.5 Mg: 382.5 Na: 70.9 K: 22.3 NH4: 6.7
SO4: 82.7 HCO3: 850.4 Cl: 44.6 NO3: 1.1 F: 2.2
Sum Cations: 1246.9 Sum Anions: 982.6 Cations/Anions: 1.27 Tot. P: 27.0
Tot. Al: 146.0 Ext. Al: 15.0 Fe: 480.0 Mn: 0.0 SiO2: 6.85

ID: 2B3-054 Name: STUMP LAKE State: MI Date: 16OCT84
Sample Type: REGULAR Latitude: 46-18'55"N Longitude: 87-23'38"W
Elevation: 334 Surface Temp: 13.1 Stratified: MIXED Site Depth: 0.9
Lake Area: 11 Watershed Area: 495 WA/LA: 44.2 Hydro Type: RESERVOIR
Residence Time: 0.02 Secchi Depth: 1.0 Turbidity: 2.3 Color: 20
Closed pH: 7.92 Equil. pH: 8.58 ANC: 1284.0 DOC: 1.90
Closed DIC: 14.84 Equil. DIC: 14.14 Meas. Cond: 164.1 Cal. Cond: 159.9
Ca: 1080.3 Mg: 287.1 Na: 174.9 K: 26.1 NH4: 1.7
SO4: 101.8 HCO3: 1173.2 Cl: 109.2 NO3: 6.5 F: 1.2
Sum Cations: 1570.1 Sum Anions: 1398.6 Cations/Anions: 1.12 Tot. P: 13.0
Tot. Al: 43.0 Ext. Al: 3.0 Fe: 70.0 Mn: 10.0 SiO2: 5.64

ID: 2B3-055 Name: (NO NAME) State: MI Date: 25OCT84
Sample Type: REGULAR Latitude: 46-15'52"N Longitude: 86-39'37"W
Elevation: 247 Surface Temp: 6.5 Stratified: MIXED Site Depth: 2.4
Lake Area: 6 Watershed Area: 41 WA/LA: 7.4 Hydro Type: DRAINAGE
Residence Time: 0.32 Secchi Depth: 2.4 Turbidity: 0.4 Color: 20
Closed pH: 7.41 Equil. pH: 8.29 ANC: 890.1 DOC: 2.54
Closed DIC: 11.13 Equil. DIC: 10.72 Meas. Cond: 92.9 Cal. Cond: 103.3
Ca: 684.6 Mg: 289.6 Na: 31.3 K: 23.0 NH4: 0.6
SO4: 94.7 HCO3: 801.4 Cl: 5.6 NO3: 0.0 F: 1.4
Sum Cations: 1029.1 Sum Anions: 906.0 Cations/Anions: 1.14 Tot. P: 9.0
Tot. Al: 7.0 Ext. Al: 0.0 Fe: 40.0 Mn: 0.0 SiO2: 6.19

ID: 2B3-056 Name: PINERY LAKES (LARGEST) State: MI Date: 17OCT84
Sample Type: REGULAR Latitude: 46-46'03"N Longitude: 88-23'30"W
Elevation: 253 Surface Temp: 12.8 Stratified: MIXED Site Depth: 2.4
Lake Area: 9 Watershed Area: 194 WA/LA: 21.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.1 Turbidity: 1.3 Color: 50
Closed pH: 6.90 Equil. pH: 8.12 ANC: 514.0 DOC: 8.00
Closed DIC: 7.34 Equil. DIC: 6.21 Meas. Cond: 56.4 Cal. Cond: 58.2
Ca: 374.3 Mg: 136.6 Na: 33.9 K: 19.9 NH4: 0.0
SO4: 31.0 HCO3: 487.9 Cl: 15.2 NO3: 0.0 F: 2.1
Sum Cations: 564.8 Sum Anions: 536.7 Cations/Anions: 1.05 Tot. P: 13.0
Tot. Al: 24.0 Ext. Al: 2.0 Fe: 200.0 Mn: 0.0 SiO2: 3.17

ID: 2B3-057 Name: TWIN LAKE State: MI Date: 16OCT84
Sample Type: REGULAR Latitude: 46-27'50"N Longitude: 87-59'57"W
Elevation: 488 Surface Temp: 12.6 Stratified: MIXED Site Depth: 3.0
Lake Area: 19 Watershed Area: 98 WA/LA: 5.3 Hydro Type: DRAINAGE
Residence Time: 0.55 Secchi Depth: 1.5 Turbidity: 1.7 Color: 45
Closed pH: 6.83 Equil. pH: 7.71 ANC: 184.0 DOC: 5.00
Closed DIC: 2.75 Equil. DIC: 2.02 Meas. Cond: 29.5 Cal. Cond: 29.7
Ca: 131.7 Mg: 106.1 Na: 25.2 K: 13.8 NH4: 0.0
SO4: 70.4 HCO3: 160.7 Cl: 11.8 NO3: 1.5 F: 1.8
Sum Cations: 277.0 Sum Anions: 246.4 Cations/Anions: 1.12 Tot. P: 12.0
Tot. Al: 21.0 Ext. Al: 2.0 Fe: 160.0 Mn: 10.0 SiO2: 5.66

(continued)

TABLE 3-1 (continued)

ID: 2B3-058 Name: LAKE ANNIE State: MI Date: 18OCT84
Sample Type: REGULAR Latitude: 47-10'39"N Longitude: 88-35'25"W
Elevation: 293 Surface Temp: 11.9 Stratified: MIXED Site Depth: 1.8
Lake Area: 13 Watershed Area: 91 WA/LA: 6.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.8 Turbidity: 1.0 Color: 15
Closed pH: 6.25 Equil. pH: 6.77 ANC: 32.0 DOC: 3.40
Closed DIC: 0.61 Equil. DIC: 0.38 Meas. Cond: 11.4 Cal. Cond: 10.7
Ca: 36.4 Mg: 27.1 Na: 17.0 K: 11.0 NH4: 0.0
SO4: 43.7 HCO3: 24.2 Cl: 7.9 NO3: 1.5 F: 0.9
Sum Cations: 91.9 Sum Anions: 78.3 Cations/Anions: 1.17 Tot. P: 13.0
Tot. Al: 93.0 Ext. Al: 12.0 Fe: 10.0 Mn: 0.0 SiO2: 0.00

ID: 2B3-059 Name: SPRING LAKE State: MI Date: 25OCT84
Sample Type: REGULAR Latitude: 46-05'38"N Longitude: 86-32'16"W
Elevation: 229 Surface Temp: 7.3 Stratified: MIXED Site Depth: 2.9
Lake Area: 5 Watershed Area: 111 WA/LA: 24.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.1 Turbidity: 0.6 Color: 15
Closed pH: 8.13 Equil. pH: 8.46 ANC: 1390.7 DOC: 3.37
Closed DIC: 16.20 Equil. DIC: 16.50 Meas. Cond: 142.2 Cal. Cond: 166.2
Ca: 1021.5 Mg: 555.3 Na: 28.3 K: 16.1 NH4: 0.6
SO4: 125.3 HCO3: 1379.8 Cl: 11.0 NO3: 0.0 F: 1.5
Sum Cations: 1621.7 Sum Anions: 1533.1 Cations/Anions: 1.06 Tot. P: 12.0
Tot. Al: 4.0 Ext. Al: 4.0 Fe: 0.0 Mn: 10.0 SiO2: 5.08

ID: 2B3-060 Name: BOG LAKE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 46-29'47"N Longitude: 91-19'38"W
Elevation: 326 Surface Temp: 4.0 Stratified: MIXED Site Depth: 1.2
Lake Area: 5 Watershed Area: 184 WA/LA: 37.9 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 1.2 Turbidity: 0.9 Color: 23
Closed pH: 7.80 Equil. pH: 8.52 ANC: 1703.9 DOC: 3.10
Closed DIC: 20.48 Equil. DIC: 20.56 Meas. Cond: 168.1 Cal. Cond: 186.4
Ca: 1156.2 Mg: 466.4 Na: 97.0 K: 25.3 NH4: 0.0
SO4: 89.9 HCO3: 1700.8 Cl: 28.8 NO3: 0.0 F: 3.1
Sum Cations: 1744.9 Sum Anions: 1836.1 Cations/Anions: 0.95 Tot. P: 20.0
Tot. Al: 2.0 Ext. Al: 0.0 Fe: 50.0 Mn: 10.0 SiO2: 17.57

ID: 2B3-061 Name: GRASS LAKE State: MI Date: 22OCT84
Sample Type: REGULAR Latitude: 46-14'17"N Longitude: 85-23'28"W
Elevation: 249 Surface Temp: 8.7 Stratified: MIXED Site Depth: 1.5
Lake Area: 7 Watershed Area: 122 WA/LA: 17.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.5 Turbidity: 0.9 Color: 30
Closed pH: 8.34 Equil. pH: 8.79 ANC: 2323.0 DOC: 4.80
Closed DIC: 24.59 Equil. DIC: 25.48 Meas. Cond: 219.2 Cal. Cond: 241.0
Ca: 1565.9 Mg: 677.8 Na: 37.8 K: 12.9 NH4: 4.4
SO4: 155.7 HCO3: 2094.1 Cl: 14.7 NO3: 0.1 F: 2.7
Sum Cations: 2298.9 Sum Anions: 2293.6 Cations/Anions: 1.00 Tot. P: 7.0
Tot. Al: 13.0 Ext. Al: 3.0 Fe: 30.0 Mn: 0.0 SiO2: 2.09

ID: 2B3-062 Name: MUD LAKE State: MI Date: 22OCT84
Sample Type: REGULAR Latitude: 46-16'38"N Longitude: 84-30'08"W
Elevation: 223 Surface Temp: 8.3 Stratified: MIXED Site Depth: 0.9
Lake Area: 4 Watershed Area: 666 WA/LA: 175.3 Hydro Type: DRAINAGE
Residence Time: 0.01 Secchi Depth: 0.6 Turbidity: 1.0 Color: 145
Closed pH: 5.98 Equil. pH: 6.90 ANC: 146.0 DOC: 22.50
Closed DIC: 3.08 Equil. DIC: 0.67 Meas. Cond: 64.2 Cal. Cond: 63.5
Ca: 193.1 Mg: 166.2 Na: 244.9 K: 16.1 NH4: 3.3
SO4: 23.1 HCO3: 67.0 Cl: 310.9 NO3: 5.6 F: 5.5
Sum Cations: 624.5 Sum Anions: 412.0 Cations/Anions: 1.52 Tot. P: 146.0
Tot. Al: 157.0 Ext. Al: 50.0 Fe: 570.0 Mn: 20.0 SiO2: 1.79

(continued)

TABLE 3-1 (continued)

ID: 2B3-067 Name: (NO NAME) State: MI Date: 20OCT84
Sample Type: REGULAR Latitude: 47-55'15"N Longitude: 88-59'00"W
Elevation: 204 Surface Temp: 7.4 Stratified: MIXED Site Depth: 0.9
Lake Area: 5 Watershed Area: 161 WA/LA: 34.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.9 Turbidity: 0.9 Color: 27
Closed pH: 7.78 Equil. pH: 8.36 ANC: 1020.7 DOC: 5.40
Closed DIC: 12.00 Equil. DIC: 11.71 Meas. Cond: 97.8 Cal. Cond: 112.1
Ca: 761.5 Mg: 258.3 Na: 74.8 K: 6.6 NH4: 0.0
SO4: 29.8 HCO3: 1018.7 Cl: 6.2 NO3: 0.0 F: 1.3
Sum Cations: 1101.3 Sum Anions: 1065.2 Cations/Anions: 1.03 Tot. P: 15.0
Tot. Al: 4.0 Ext. Al: 4.0 Fe: 140.0 Mn: 0.0 SiO2: 4.50

ID: 2B3-069 Name: ROSS LAKE State: MI Date: 20OCT84
Sample Type: REGULAR Latitude: 46-28'50"N Longitude: 86-15'30"W
Elevation: 265 Surface Temp: 10.4 Stratified: MIXED Site Depth: 6.4
Lake Area: 78 Watershed Area: 1207 WA/LA: 15.5 Hydro Type: DRAINAGE
Residence Time: 0.45 Secchi Depth: 2.1 Turbidity: 1.8 Color: 35
Closed pH: 7.84 Equil. pH: 8.40 ANC: 1198.2 DOC: 15.00
Closed DIC: 13.76 Equil. DIC: 12.23 Meas. Cond: 122.3 Cal. Cond: 125.3
Ca: 906.2 Mg: 321.6 Na: 34.8 K: 16.1 NH4: 0.5
SO4: 86.6 HCO3: 966.2 Cl: 8.5 NO3: 0.7 F: 1.7
Sum Cations: 1279.2 Sum Anions: 1073.6 Cations/Anions: 1.19 Tot. P: 19.0
Tot. Al: 25.0 Ext. Al: 6.0 Fe: 120.0 Mn: 0.0 SiO2: 7.40

ID: 2B3-070 Name: MICHIGAMME BASIN State: MI Date: 16OCT84
Sample Type: REGULAR Latitude: 46-23'36"N Longitude: 87-59'19"W
Elevation: 454 Surface Temp: 13.2 Stratified: MIXED Site Depth: 2.4
Lake Area: 31 Watershed Area: 28392 WA/LA: 915.9 Hydro Type: RESERVOIR
Residence Time: 0.00 Secchi Depth: 1.9 Turbidity: 0.9 Color: 60
Closed pH: 7.10 Equil. pH: 7.79 ANC: 254.0 DOC: 7.10
Closed DIC: 3.19 Equil. DIC: 2.58 Meas. Cond: 47.2 Cal. Cond: 49.0
Ca: 243.0 Mg: 149.7 Na: 50.9 K: 16.9 NH4: 0.0
SO4: 128.9 HCO3: 205.1 Cl: 36.7 NO3: 6.4 F: 1.8
Sum Cations: 460.6 Sum Anions: 379.1 Cations/Anions: 1.21 Tot. P: 5.0
Tot. Al: 70.0 Ext. Al: 12.0 Fe: 210.0 Mn: 10.0 SiO2: 5.63

ID: 2B3-071 Name: OSTRANDER LAKE State: MI Date: 25OCT84
Sample Type: REGULAR Latitude: 46-10'05"N Longitude: 86-36'43"W
Elevation: 235 Surface Temp: 10.1 Stratified: MIXED Site Depth: 9.1
Lake Area: 22 Watershed Area: 65 WA/LA: 3.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.8 Turbidity: 0.7 Color: 15
Closed pH: 7.05 Equil. pH: 7.59 ANC: 163.2 DOC: 4.80
Closed DIC: 2.03 Equil. DIC: 1.76 Meas. Cond: 22.2 Cal. Cond: 29.2
Ca: 207.1 Mg: 42.8 Na: 10.0 K: 9.7 NH4: 1.1
SO4: 77.4 HCO3: 140.9 Cl: 9.9 NO3: 0.0 F: 0.9
Sum Cations: 270.8 Sum Anions: 229.4 Cations/Anions: 1.18 Tot. P: 11.0
Tot. Al: 16.0 Ext. Al: 0.0 Fe: 10.0 Mn: 0.0 SiO2: 0.09

ID: 2B3-072 Name: STUART LAKE State: MI Date: 24OCT84
Sample Type: REGULAR Latitude: 46-11'53"N Longitude: 85-51'10"W
Elevation: 212 Surface Temp: 6.8 Stratified: MIXED Site Depth: 1.1
Lake Area: 12 Watershed Area: 798 WA/LA: 64.9 Hydro Type: DRAINAGE
Residence Time: 0.02 Secchi Depth: 0.7 Turbidity: 0.7 Color: 125
Closed pH: 7.67 Equil. pH: 8.69 ANC: 1777.0 DOC: 20.00
Closed DIC: 18.88 Equil. DIC: 18.08 Meas. Cond: 169.5 Cal. Cond: 190.4
Ca: 1195.6 Mg: 706.6 Na: 47.8 K: 19.2 NH4: 2.2
SO4: 77.9 HCO3: 1524.0 Cl: 40.6 NO3: 0.8 F: 2.6
Sum Cations: 1971.5 Sum Anions: 1652.8 Cations/Anions: 1.19 Tot. P: 21.0
Tot. Al: 14.0 Ext. Al: 2.0 Fe: 90.0 Mn: 0.0 SiO2: 6.68

(continued)

TABLE 3-1 (continued)

ID: 2B3-075 Name: CAMP 10 LAKE State: MI Date: 14OCT84
Sample Type: REGULAR Latitude: 46-40'55"N Longitude: 88-09'30"W
Elevation: 546 Surface Temp: 13.3 Stratified: MIXED Site Depth: 1.2
Lake Area: 6 Watershed Area: 205 WA/LA: 36.6 Hydro Type: DRAINAGE
Residence Time: 0.04 Secchi Depth: 0.7 Turbidity: 0.5 Color: 143
Closed pH: 6.67 Equil. pH: 7.56 ANC: 254.5 DOC: 19.40
Closed DIC: 3.17 Equil. DIC: 2.05 Meas. Cond: 33.6 Cal. Cond: 33.5
Ca: 255.2 Mg: 95.4 Na: 25.2 K: 7.3 NH4: 0.3
SO4: 29.9 HCO3: 186.1 Cl: 5.5 NO3: 2.8 F: 1.3
Sum Cations: 383.6 Sum Anions: 225.7 Cations/Anions: 1.70 Tot. P: 16.0
Tot. Al: 123.0 Ext. Al: 40.5 Fe: 465.0 Mn: 10.0 SiO2: 6.16

ID: 2B3-076 Name: SWAMP LKS.(LG.EAST) State: MI Date: 23OCT84
Sample Type: REGULAR Latitude: 46-36'20"N Longitude: 85-23'39"W
Elevation: 227 Surface Temp: 6.6 Stratified: MIXED Site Depth: 0.9
Lake Area: 5 Watershed Area: 23 WA/LA: 4.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.6 Turbidity: 2.2 Color: 45
Closed pH: 4.51 Equil. pH: 4.49 ANC: -44.1 DOC: 9.50
Closed DIC: 0.46 Equil. DIC: 0.18 Meas. Cond: 17.5 Cal. Cond: 17.7
Ca: 13.0 Mg: 11.5 Na: 4.8 K: 4.7 NH4: 4.4
SO4: 35.6 HCO3: 0.4 Cl: 1.1 NO3: 0.2 F: 0.7
Sum Cations: 73.9 Sum Anions: 38.1 Cations/Anions: 1.94 Tot. P: 22.0
Tot. Al: 67.0 Ext. Al: 22.0 Fe: 50.0 Mn: 20.0 SiO2: 0.00

ID: 2B3-077 Name: MCDONALD LAKE State: MI Date: 24OCT84
Sample Type: REGULAR Latitude: 45-59'00"N Longitude: 85-58'28"W
Elevation: 186 Surface Temp: 7.8 Stratified: MIXED Site Depth: 1.6
Lake Area: 578 Watershed Area: 4815 WA/LA: 8.3 Hydro Type: DRAINAGE
Residence Time: 0.20 Secchi Depth: 0.5 Turbidity: 2.7 Color: 45
Closed pH: 8.04 Equil. pH: 8.65 ANC: 1553.0 DOC: 11.30
Closed DIC: 16.23 Equil. DIC: 16.58 Meas. Cond: 179.5 Cal. Cond: 203.4
Ca: 1102.3 Mg: 760.9 Na: 99.2 K: 8.6 NH4: 1.7
SO4: 281.3 HCO3: 1348.4 Cl: 106.4 NO3: 2.1 F: 4.3
Sum Cations: 1972.7 Sum Anions: 1753.7 Cations/Anions: 1.12 Tot. P: 19.0
Tot. Al: 84.0 Ext. Al: 4.0 Fe: 30.0 Mn: 0.0 SiO2: 1.71

ID: 2B3-079 Name: NELLIGAN LAKE State: MI Date: 14OCT84
Sample Type: REGULAR Latitude: 46-33'50"N Longitude: 88-08'07"W
Elevation: 515 Surface Temp: 13.8 Stratified: MIXED Site Depth: 1.2
Lake Area: 13 Watershed Area: 311 WA/LA: 24.3 Hydro Type: DRAINAGE
Residence Time: 0.06 Secchi Depth: 1.1 Turbidity: 1.0 Color: 120
Closed pH: 6.43 Equil. pH: 7.10 ANC: 113.0 DOC: 15.10
Closed DIC: 1.46 Equil. DIC: 0.76 Meas. Cond: 32.6 Cal. Cond: 32.5
Ca: 163.2 Mg: 104.5 Na: 38.7 K: 13.0 NH4: 0.0
SO4: 123.7 HCO3: 69.0 Cl: 13.8 NO3: 1.6 F: 1.3
Sum Cations: 319.7 Sum Anions: 209.5 Cations/Anions: 1.53 Tot. P: 18.0
Tot. Al: 131.0 Ext. Al: 41.0 Fe: 220.0 Mn: 0.0 SiO2: 2.22

ID: 2C1-001 Name: BALCOMB LAKE State: MI Date: 03NOV84
Sample Type: REGULAR Latitude: 46-23'02"N Longitude: 88-57'15"W
Elevation: 497 Surface Temp: 2.2 Stratified: MIXED Site Depth: 7.0
Lake Area: 4 Watershed Area: 44 WA/LA: 10.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.4 Turbidity: 0.3 Color: 25
Closed pH: 5.61 Equil. pH: 5.88 ANC: 13.0 DOC: 3.70
Closed DIC: 0.52 Equil. DIC: 0.19 Meas. Cond: 11.3 Cal. Cond: 11.0
Ca: 32.9 Mg: 23.9 Na: 7.0 K: 13.8 NH4: 1.1
SO4: 60.4 HCO3: 5.3 Cl: 4.8 NO3: 0.5 F: 0.6
Sum Cations: 81.1 Sum Anions: 71.6 Cations/Anions: 1.13 Tot. P: 10.0
Tot. Al: 42.0 Ext. Al: 18.0 Fe: 70.0 Mn: 30.0 SiO2: 0.28

(continued)

TABLE 3-1 (continued)

ID: 2C1-003 Name: TINSEL LAKE State: MI Date: 03NOV84
Sample Type: REGULAR Latitude: 46-21'40"N Longitude: 88-58'55"W
Elevation: 508 Surface Temp: 1.5 Stratified: MIXED Site Depth: 3.0
Lake Area: 6 Watershed Area: 54 WA/LA: 8.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.1 Turbidity: 0.4 Color: 30
Closed pH: 5.98 Equil. pH: 6.25 ANC: 22.0 DOC: 5.70
Closed DIC: 0.44 Equil. DIC: 0.31 Meas. Cond: 10.1 Cal. Cond: 9.4
Ca: 34.4 Mg: 24.7 Na: 7.4 K: 15.3 NH4: 0.0
SO4: 40.8 HCO3: 9.5 Cl: 4.8 NO3: 0.0 F: 0.6
Sum Cations: 83.2 Sum Anions: 55.7 Cations/Anions: 1.49 Tot. P: 12.0
Tot. Al: 34.0 Ext. Al: 8.0 Fe: 30.0 Mn: 10.0 SiO2: 0.13

ID: 2C1-004 Name: FOREST LAKE State: MI Date: 03NOV84
Sample Type: REGULAR Latitude: 46-19'35"N Longitude: 88-57'05"W
Elevation: 507 Surface Temp: 4.3 Stratified: MIXED Site Depth: 8.5
Lake Area: 18 Watershed Area: 31 WA/LA: 1.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 6.7 Turbidity: 0.2 Color: 10
Closed pH: 5.49 Equil. pH: 5.67 ANC: 1.0 DOC: 2.70
Closed DIC: 0.43 Equil. DIC: 0.16 Meas. Cond: 12.8 Cal. Cond: 13.5
Ca: 36.9 Mg: 27.1 Na: 7.4 K: 13.8 NH4: 0.0
SO4: 83.3 HCO3: 3.3 Cl: 2.5 NO3: 0.0 F: 0.6
Sum Cations: 89.3 Sum Anions: 89.7 Cations/Anions: 1.00 Tot. P: 7.0
Tot. Al: 25.0 Ext. Al: 8.0 Fe: 10.0 Mn: 0.0 SiO2: 0.05

ID: 2C1-005 Name: ROBINSON LAKE State: MI Date: 03NOV84
Sample Type: REGULAR Latitude: 46-21'20"N Longitude: 88-55'00"W
Elevation: 492 Surface Temp: 3.4 Stratified: MIXED Site Depth: 5.3
Lake Area: 31 Watershed Area: 101 WA/LA: 3.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 5.3 Turbidity: 0.2 Color: 10
Closed pH: 5.15 Equil. pH: 5.24 ANC: 9.0 DOC: 2.00
Closed DIC: 0.32 Equil. DIC: 0.13 Meas. Cond: 16.0 Cal. Cond: 17.0
Ca: 46.9 Mg: 24.7 Na: 8.7 K: 12.5 NH4: 0.0
SO4: 98.1 HCO3: 1.2 Cl: 8.2 NO3: 2.8 F: 0.6
Sum Cations: 100.8 Sum Anions: 110.9 Cations/Anions: 0.91 Tot. P: 8.0
Tot. Al: 40.0 Ext. Al: 23.0 Fe: 10.0 Mn: 30.0 SiO2: 0.08

ID: 2C1-007 Name: JOHN LAKE State: WI Date: 09OCT84
Sample Type: REGULAR Latitude: 46-13'45"N Longitude: 89-38'55"W
Elevation: 519 Surface Temp: 11.6 Stratified: STRONG Site Depth: 14.3
Lake Area: 5 Watershed Area: 26 WA/LA: 5.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.9 Turbidity: 0.3 Color: 70
Closed pH: 6.19 Equil. pH: 6.88 ANC: 69.0 DOC: 8.60
Closed DIC: 1.50 Equil. DIC: 0.53 Meas. Cond: 19.6 Cal. Cond: 19.0
Ca: 93.8 Mg: 52.6 Na: 16.1 K: 15.3 NH4: 0.6
SO4: 68.9 HCO3: 39.3 Cl: 13.5 NO3: 1.1 F: 1.0
Sum Cations: 179.0 Sum Anions: 123.9 Cations/Anions: 1.44 Tot. P: 10.0
Tot. Al: 109.0 Ext. Al: 63.0 Fe: 150.0 Mn: 30.0 SiO2: 0.62

ID: 2C1-008 Name: RUSSET LAKE State: WI Date: 09OCT84
Sample Type: REGULAR Latitude: 46-11'50"N Longitude: 89-36'30"W
Elevation: 510 Surface Temp: 12.4 Stratified: WEAK Site Depth: 11.0
Lake Area: 19 Watershed Area: 145 WA/LA: 7.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.6 Turbidity: 0.5 Color: 45
Closed pH: 5.90 Equil. pH: 6.28 ANC: 19.0 DOC: 5.60
Closed DIC: 0.56 Equil. DIC: 0.18 Meas. Cond: 13.8 Cal. Cond: 13.2
Ca: 53.4 Mg: 34.5 Na: 9.6 K: 14.1 NH4: 0.6
SO4: 65.4 HCO3: 9.5 Cl: 5.9 NO3: 0.0 F: 0.9
Sum Cations: 113.5 Sum Anions: 81.7 Cations/Anions: 1.39 Tot. P: 2.0
Tot. Al: 56.0 Ext. Al: 32.0 Fe: 160.0 Mn: 20.0 SiO2: 0.15

(continued)

TABLE 3-1 (continued)

ID: 2C1-010 Name: ISHKOTE LAKE State: MI Date: 10OCT84
Sample Type: REGULAR Latitude: 46-07'25"N Longitude: 88-59'30"W
Elevation: 526 Surface Temp: 12.6 Stratified: MIXED Site Depth: 5.2
Lake Area: 6 Watershed Area: 231 WA/LA: 36.7 Hydro Type: DRAINAGE
Residence Time: 0.24 Secchi Depth: 5.0 Turbidity: 0.2 Color: 20
Closed pH: 6.05 Equil. pH: 6.36 ANC: 22.0 DOC: 3.80
Closed DIC: 0.69 Equil. DIC: 0.34 Meas. Cond: 17.8 Cal. Cond: 18.7
Ca: 76.3 Mg: 40.3 Na: 10.4 K: 14.3 NH4: 0.6
SO4: 109.7 HCO3: 19.3 Cl: 6.5 NO3: 0.0 F: 0.7
Sum Cations: 142.7 Sum Anions: 136.2 Cations/Anions: 1.05 Tot. P: 7.0
Tot. Al: 41.0 Ext. Al: 15.0 Fe: 10.0 Mn: 10.0 SiO2: 0.34

ID: 2C1-011 Name: WARVET LAKE State: WI Date: 10OCT84
Sample Type: REGULAR Latitude: 46-05'15"N Longitude: 89-07'05"W
Elevation: 523 Surface Temp: 12.5 Stratified: MIXED Site Depth: 6.1
Lake Area: 7 Watershed Area: 280 WA/LA: 37.8 Hydro Type: DRAINAGE
Residence Time: 0.28 Secchi Depth: 1.2 Turbidity: 0.6 Color: 55
Closed pH: 5.94 Equil. pH: 6.76 ANC: 44.0 DOC: 7.10
Closed DIC: 1.22 Equil. DIC: 0.34 Meas. Cond: 22.6 Cal. Cond: 23.3
Ca: 69.4 Mg: 43.6 Na: 52.6 K: 19.4 NH4: 2.8
SO4: 80.4 HCO3: 25.5 Cl: 60.7 NO3: 0.1 F: 0.9
Sum Cations: 188.8 Sum Anions: 167.6 Cations/Anions: 1.13 Tot. P: 19.0
Tot. Al: 81.0 Ext. Al: 42.0 Fe: 100.0 Mn: 20.0 SiO2: 0.49

ID: 2C1-013 Name: OSCEOLA LAKE State: WI Date: 06NOV84
Sample Type: REGULAR Latitude: 46-07'32"N Longitude: 89-19'02"W
Elevation: 513 Surface Temp: 2.5 Stratified: MIXED Site Depth: 2.7
Lake Area: 14 Watershed Area: 28 WA/LA: 2.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.7 Turbidity: 1.7 Color: 15
Closed pH: 7.61 Equil. pH: 8.01 ANC: 593.8 DOC: 3.20
Closed DIC: 7.05 Equil. DIC: 7.44 Meas. Cond: 60.0 Cal. Cond: 65.1
Ca: 352.0 Mg: 186.7 Na: 59.2 K: 12.1 NH4: 2.2
SO4: 44.3 HCO3: 575.6 Cl: 10.0 NO3: 0.3 F: 2.3
Sum Cations: 612.3 Sum Anions: 634.8 Cations/Anions: 0.96 Tot. P: 8.0
Tot. Al: 7.0 Ext. Al: 2.0 Fe: 55.0 Mn: 0.0 SiO2: 8.86

ID: 2C1-014 Name: LAKE PLEASANT State: WI Date: 04NOV84
Sample Type: REGULAR Latitude: 46-06'05"N Longitude: 89-13'35"W
Elevation: 509 Surface Temp: 4.2 Stratified: MIXED Site Depth: 11.0
Lake Area: 6 Watershed Area: 16 WA/LA: 2.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.1 Turbidity: 0.6 Color: 25
Closed pH: 5.83 Equil. pH: 6.44 ANC: 12.0 DOC: 4.00
Closed DIC: 0.89 Equil. DIC: 0.30 Meas. Cond: 13.8 Cal. Cond: 14.0
Ca: 43.4 Mg: 28.0 Na: 18.3 K: 12.5 NH4: 7.2
SO4: 62.3 HCO3: 15.6 Cl: 18.1 NO3: 0.5 F: 0.6
Sum Cations: 110.7 Sum Anions: 97.0 Cations/Anions: 1.14 Tot. P: 14.0
Tot. Al: 38.0 Ext. Al: 9.0 Fe: 180.0 Mn: 10.0 SiO2: 0.09

ID: 2C1-015 Name: TORCH LAKE State: WI Date: 30OCT84
Sample Type: REGULAR Latitude: 46-01'25"N Longitude: 89-16'30"W
Elevation: 504 Surface Temp: 7.0 Stratified: MIXED Site Depth: 4.3
Lake Area: 16 Watershed Area: 96 WA/LA: 6.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.2 Turbidity: 0.4 Color: 15
Closed pH: 5.70 Equil. pH: 5.88 ANC: 3.4 DOC: 4.00
Closed DIC: 0.28 Equil. DIC: 0.29 Meas. Cond: 13.4 Cal. Cond: 13.5
Ca: 43.4 Mg: 25.5 Na: 18.3 K: 8.4 NH4: 0.6
SO4: 64.8 HCO3: 4.6 Cl: 19.5 NO3: 0.2 F: 0.9
Sum Cations: 99.2 Sum Anions: 89.9 Cations/Anions: 1.10 Tot. P: 15.0
Tot. Al: 34.0 Ext. Al: 8.0 Fe: 30.0 Mn: 20.0 SiO2: 0.12

(continued)

TABLE 3-1 (continued)

ID: 2C1-016 Name: HONEYSUCKLE LAKE State: WI Date: 30OCT84
Sample Type: REGULAR Latitude: 45-57'45"N Longitude: 89-21'35"W
Elevation: 502 Surface Temp: 6.4 Stratified: MIXED Site Depth: 3.0
Lake Area: 14 Watershed Area: 101 WA/LA: 7.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.0 Turbidity: 0.5 Color: 10
Closed pH: 4.74 Equil. pH: 4.77 ANC: -31.3 DOC: 1.90
Closed DIC: 0.36 Equil. DIC: 0.25 Meas. Cond: 19.7 Cal. Cond: 19.8
Ca: 34.9 Mg: 26.3 Na: 7.0 K: 10.2 NH4: 0.0
SO4: 91.4 HCO3: 0.7 Cl: 6.5 NO3: 0.8 F: 0.8
Sum Cations: 99.3 Sum Anions: 100.1 Cations/Anions: 0.99 Tot. P: 8.0
Tot. Al: 43.0 Ext. Al: 26.0 Fe: 0.0 Mn: 40.0 SiO2: 0.02

ID: 2C1-017 Name: EDITH LAKE State: WI Date: 06NOV84
Sample Type: REGULAR Latitude: 46-05'15"N Longitude: 89-42'25"W
Elevation: 495 Surface Temp: 4.1 Stratified: MIXED Site Depth: 6.4
Lake Area: 24 Watershed Area: 104 WA/LA: 4.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.0 Turbidity: 1.1 Color: 15
Closed pH: 6.12 Equil. pH: 6.63 ANC: 21.1 DOC: 3.00
Closed DIC: 0.43 Equil. DIC: 0.28 Meas. Cond: 11.4 Cal. Cond: 13.6
Ca: 60.4 Mg: 23.9 Na: 9.6 K: 10.7 NH4: 0.5
SO4: 76.6 HCO3: 10.6 Cl: 5.9 NO3: 0.9 F: 0.7
Sum Cations: 105.9 Sum Anions: 94.7 Cations/Anions: 1.12 Tot. P: 7.0
Tot. Al: 28.0 Ext. Al: 14.0 Fe: 20.0 Mn: 10.0 SiO2: 0.13

ID: 2C1-018 Name: LITTLE JOHN JR LAKE State: WI Date: 30OCT84
Sample Type: REGULAR Latitude: 46-00'15"N Longitude: 89-38'20"W
Elevation: 498 Surface Temp: 8.0 Stratified: MIXED Site Depth: 8.8
Lake Area: 9 Watershed Area: 34 WA/LA: 3.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.6 Turbidity: 0.4 Color: 10
Closed pH: 5.31 Equil. pH: 5.27 ANC: 5.0 DOC: 1.90
Closed DIC: 0.32 Equil. DIC: 0.23 Meas. Cond: 13.6 Cal. Cond: 13.9
Ca: 40.9 Mg: 23.0 Na: 6.5 K: 10.7 NH4: 0.0
SO4: 76.0 HCO3: 2.5 Cl: 11.3 NO3: 0.0 F: 0.6
Sum Cations: 87.1 Sum Anions: 90.4 Cations/Anions: 0.96 Tot. P: 12.0
Tot. Al: 26.0 Ext. Al: 6.0 Fe: 0.0 Mn: 20.0 SiO2: 0.02

ID: 2C1-019 Name: FIREFLY LAKE State: WI Date: 30OCT84
Sample Type: REGULAR Latitude: 45-59'57"N Longitude: 89-38'00"W
Elevation: 501 Surface Temp: 9.7 Stratified: MIXED Site Depth: 12.8
Lake Area: 13 Watershed Area: 60 WA/LA: 4.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 6.9 Turbidity: 0.3 Color: 10
Closed pH: 5.97 Equil. pH: 6.27 ANC: 0.5 DOC: 2.10
Closed DIC: 0.52 Equil. DIC: 0.31 Meas. Cond: 12.4 Cal. Cond: 13.6
Ca: 52.4 Mg: 20.6 Na: 7.8 K: 8.7 NH4: 0.6
SO4: 82.4 HCO3: 15.5 Cl: 8.5 NO3: 0.5 F: 0.6
Sum Cations: 90.9 Sum Anions: 107.5 Cations/Anions: 0.85 Tot. P: 12.0
Tot. Al: 14.0 Ext. Al: 1.0 Fe: 0.0 Mn: 0.0 SiO2: 0.00

ID: 2C1-020 Name: TOWANDA LAKE State: WI Date: 01NOV84
Sample Type: REGULAR Latitude: 45-56'30"N Longitude: 89-42'30"W
Elevation: 493 Surface Temp: 6.0 Stratified: MIXED Site Depth: 7.0
Lake Area: 57 Watershed Area: 300 WA/LA: 5.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.3 Turbidity: 1.0 Color: 15
Closed pH: 7.15 Equil. pH: 7.72 ANC: 168.0 DOC: 4.10
Closed DIC: 2.26 Equil. DIC: 2.06 Meas. Cond: 29.1 Cal. Cond: 27.7
Ca: 131.7 Mg: 102.0 Na: 33.1 K: 10.0 NH4: 2.8
SO4: 33.3 HCO3: 146.4 Cl: 33.0 NO3: 0.8 F: 1.7
Sum Cations: 279.7 Sum Anions: 215.4 Cations/Anions: 1.30 Tot. P: 13.0
Tot. Al: 14.0 Ext. Al: 1.0 Fe: 20.0 Mn: 0.0 SiO2: 0.39

(continued)

TABLE 3-1 (continued)

ID: 2C1-021 Name: SUNDAY LAKE State: WI Date: 01NOV84
Sample Type: REGULAR Latitude: 45-53'25"N Longitude: 89-51'20"W
Elevation: 484 Surface Temp: 7.4 Stratified: MIXED Site Depth: 12.5
Lake Area: 36 Watershed Area: 117 WA/LA: 3.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.2 Turbidity: 0.6 Color: 15
Closed pH: 6.67 Equil. pH: 7.15 ANC: 86.0 DOC: 3.70
Closed DIC: 1.44 Equil. DIC: 1.03 Meas. Cond: 22.4 Cal. Cond: 21.7
Ca: 90.3 Mg: 55.9 Na: 30.4 K: 12.0 NH4: 2.2
SO4: 52.3 HCO3: 71.7 Cl: 42.3 NO3: 0.8 F: 1.0
Sum Cations: 191.2 Sum Anions: 168.1 Cations/Anions: 1.14 Tot. P: 14.0
Tot. Al: 10.0 Ext. Al: 0.0 Fe: 20.0 Mn: 0.0 SiO2: 0.00

ID: 2C1-024 Name: EAGLE LAKE State: WI Date: 06NOV84
Sample Type: REGULAR Latitude: 46-01'55"N Longitude: 89-49'35"W
Elevation: 493 Surface Temp: 2.5 Stratified: MIXED Site Depth: 4.3
Lake Area: 7 Watershed Area: 36 WA/LA: 5.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.8 Turbidity: 0.5 Color: 15
Closed pH: 5.56 Equil. pH: 5.78 ANC: 7.2 DOC: 3.30
Closed DIC: 0.37 Equil. DIC: 0.55 Meas. Cond: 9.1 Cal. Cond: 11.1
Ca: 35.4 Mg: 19.7 Na: 4.3 K: 14.1 NH4: 2.2
SO4: 56.8 HCO3: 11.6 Cl: 5.1 NO3: 0.4 F: 0.6
Sum Cations: 78.7 Sum Anions: 74.5 Cations/Anions: 1.06 Tot. P: 26.0
Tot. Al: 22.0 Ext. Al: 11.0 Fe: 20.0 Mn: 30.0 SiO2: 0.11

ID: 2C1-025 Name: WISHOW LAKE State: WI Date: 01NOV84
Sample Type: REGULAR Latitude: 45-57'20"N Longitude: 89-47'30"W
Elevation: 489 Surface Temp: 5.5 Stratified: MIXED Site Depth: 5.8
Lake Area: 33 Watershed Area: 207 WA/LA: 6.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.3 Turbidity: 0.4 Color: 20
Closed pH: 5.78 Equil. pH: 6.04 ANC: -0.1 DOC: 3.40
Closed DIC: 0.53 Equil. DIC: 0.23 Meas. Cond: 11.5 Cal. Cond: 10.8
Ca: 40.4 Mg: 22.2 Na: 5.7 K: 9.7 NH4: 5.5
SO4: 49.8 HCO3: 6.4 Cl: 5.1 NO3: 3.7 F: 3.7
Sum Cations: 85.6 Sum Anions: 68.7 Cations/Anions: 1.25 Tot. P: 9.0
Tot. Al: 22.0 Ext. Al: 7.0 Fe: 30.0 Mn: 20.0 SiO2: 0.21

ID: 2C1-026 Name: CHICKAREE LAKE State: WI Date: 30OCT84
Sample Type: REGULAR Latitude: 45-54'25"N Longitude: 89-21'30"W
Elevation: 491 Surface Temp: 6.4 Stratified: MIXED Site Depth: 2.4
Lake Area: 11 Watershed Area: 57 WA/LA: 5.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.8 Turbidity: 0.8 Color: 55
Closed pH: 5.43 Equil. pH: 5.52 ANC: 7.0 DOC: 6.90
Closed DIC: 0.35 Equil. DIC: 0.24 Meas. Cond: 13.4 Cal. Cond: 12.4
Ca: 37.4 Mg: 26.3 Na: 23.5 K: 8.7 NH4: 0.6
SO4: 55.6 HCO3: 3.3 Cl: 7.6 NO3: 0.0 F: 1.2
Sum Cations: 101.2 Sum Anions: 67.7 Cations/Anions: 1.50 Tot. P: 21.0
Tot. Al: 95.0 Ext. Al: 29.0 Fe: 160.0 Mn: 30.0 SiO2: 1.60

ID: 2C1-027 Name: LITTLE BASS LAKE State: WI Date: 01NOV84
Sample Type: REGULAR Latitude: 45-51'45"N Longitude: 89-36'40"W
Elevation: 486 Surface Temp: 8.3 Stratified: MIXED Site Depth: 19.2
Lake Area: 17 Watershed Area: 67 WA/LA: 3.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 5.3 Turbidity: 0.3 Color: 15
Closed pH: 6.22 Equil. pH: 6.82 ANC: 32.0 DOC: 4.20
Closed DIC: 1.07 Equil. DIC: 0.43 Meas. Cond: 13.0 Cal. Cond: 12.5
Ca: 50.4 Mg: 26.3 Na: 12.2 K: 12.3 NH4: 2.8
SO4: 52.3 HCO3: 33.7 Cl: 5.4 NO3: 0.8 F: 0.7
Sum Cations: 104.5 Sum Anions: 92.8 Cations/Anions: 1.13 Tot. P: 8.0
Tot. Al: 234.0 Ext. Al: 1.0 Fe: 20.0 Mn: 10.0 SiO2: 0.00

(continued)

TABLE 3-1 (continued)

ID: 2C1-028 Name: ALICE LAKE State: WI Date: 01NOV84
Sample Type: REGULAR Latitude: 45-48'10"N Longitude: 89-44'00"W
Elevation: 480 Surface Temp: 6.6 Stratified: MIXED Site Depth: 5.8
Lake Area: 7 Watershed Area: 26 WA/LA: 3.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.1 Turbidity: 0.7 Color: 35
Closed pH: 6.28 Equil. pH: 6.38 ANC: 40.5 DOC: 4.40
Closed DIC: 0.94 Equil. DIC: 0.48 Meas. Cond: 25.3 Cal. Cond: 24.1
Ca: 56.9 Mg: 36.2 Na: 90.3 K: 19.2 NH4: 2.8
SO4: 42.1 HCO3: 32.4 Cl: 98.3 NO3: 1.1 F: 1.2
Sum Cations: 205.8 Sum Anions: 175.1 Cations/Anions: 1.18 Tot. P: 20.5
Tot. Al: 23.5 Ext. Al: 1.0 Fe: 265.0 Mn: 40.0 SiO2: 0.19

ID: 2C1-029 Name: MCGRATH LAKE State: WI Date: 01NOV84
Sample Type: REG/SPC/LTM/ Latitude: 45-47'30"N Longitude: 89-38'40"W
Elevation: 484 Surface Temp: 5.6 Stratified: MIXED Site Depth: 6.7
Lake Area: 21 Watershed Area: 104 WA/LA: 5.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.6 Turbidity: 0.4 Color: 15
Closed pH: 5.45 Equil. pH: 5.57 ANC: 1.0 DOC: 3.30
Closed DIC: 0.29 Equil. DIC: 0.23 Meas. Cond: 15.6 Cal. Cond: 14.5
Ca: 47.4 Mg: 30.4 Na: 12.2 K: 11.8 NH4: 0.0
SO4: 84.1 HCO3: 2.9 Cl: 3.5 NO3: 0.4 F: 0.9
Sum Cations: 105.8 Sum Anions: 91.9 Cations/Anions: 1.15 Tot. P: 15.0
Tot. Al: 29.0 Ext. Al: 9.0 Fe: 20.0 Mn: 20.0 SiO2: 0.00

ID: 2C1-030 Name: GARTH LAKE State: WI Date: 01NOV84
Sample Type: REGULAR Latitude: 45-45'45"N Longitude: 89-45'00"W
Elevation: 478 Surface Temp: 6.4 Stratified: MIXED Site Depth: 4.9
Lake Area: 47 Watershed Area: 140 WA/LA: 3.0 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 3.2 Turbidity: 1.0 Color: 15
Closed pH: 7.84 Equil. pH: 8.38 ANC: 806.0 DOC: 3.80
Closed DIC: 9.08 Equil. DIC: 8.67 Meas. Cond: 83.6 Cal. Cond: 86.2
Ca: 492.5 Mg: 271.5 Na: 83.1 K: 12.8 NH4: 0.6
SO4: 44.3 HCO3: 698.7 Cl: 29.3 NO3: 1.2 F: 3.5
Sum Cations: 860.4 Sum Anions: 780.7 Cations/Anions: 1.10 Tot. P: 10.0
Tot. Al: 1.0 Ext. Al: 2.0 Fe: 50.0 Mn: 0.0 SiO2: 11.00

ID: 2C1-031 Name: MUSKIE LAKE State: WI Date: 27OCT84
Sample Type: REGULAR Latitude: 45-44'00"N Longitude: 89-38'15"W
Elevation: 480 Surface Temp: 9.2 Stratified: MIXED Site Depth: 11.3
Lake Area: 19 Watershed Area: 67 WA/LA: 3.6 Hydro Type: DRAINAGE
Residence Time: 3.38 Secchi Depth: 2.8 Turbidity: 1.0 Color: 20
Closed pH: 7.49 Equil. pH: 8.37 ANC: 971.0 DOC: 3.60
Closed DIC: 12.08 Equil. DIC: 11.25 Meas. Cond: 96.2 Cal. Cond: 103.6
Ca: 622.3 Mg: 288.7 Na: 83.5 K: 17.6 NH4: 2.2
SO4: 27.3 HCO3: 931.8 Cl: 19.5 NO3: 0.4 F: 3.8
Sum Cations: 1014.4 Sum Anions: 986.9 Cations/Anions: 1.03 Tot. P: 9.0
Tot. Al: 12.0 Ext. Al: 1.0 Fe: 70.0 Mn: 0.0 SiO2: 3.24

ID: 2C1-032 Name: ALVA LAKE State: WI Date: 27OCT84
Sample Type: REGULAR Latitude: 45-42'30"N Longitude: 89-35'35"W
Elevation: 484 Surface Temp: 10.1 Stratified: MIXED Site Depth: 10.1
Lake Area: 81 Watershed Area: 378 WA/LA: 4.7 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 4.2 Turbidity: 0.5 Color: 10
Closed pH: 7.34 Equil. pH: 7.28 ANC: 351.2 DOC: 3.60
Closed DIC: 4.46 Equil. DIC: 4.17 Meas. Cond: 42.5 Cal. Cond: 44.1
Ca: 215.1 Mg: 144.8 Na: 55.7 K: 13.8 NH4: 3.3
SO4: 44.1 HCO3: 339.3 Cl: 10.3 NO3: 0.0 F: 2.3
Sum Cations: 432.7 Sum Anions: 396.6 Cations/Anions: 1.09 Tot. P: 9.0
Tot. Al: 13.0 Ext. Al: 1.0 Fe: 10.0 Mn: 0.0 SiO2: 0.17

(continued)

TABLE 3-1 (continued)

ID: 2C1-033 Name: BOBS LAKE State: WI Date: 29OCT84
Sample Type: REGULAR Latitude: 45-41'48"N Longitude: 89-32'05"W
Elevation: 486 Surface Temp: 7.6 Stratified: MIXED Site Depth: 10.7
Lake Area: 8 Watershed Area: 67 WA/LA: 8.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.9 Turbidity: 0.8 Color: 40
Closed pH: 5.70 Equil. pH: 6.41 ANC: 20.0 DOC: 6.10
Closed DIC: 1.19 Equil. DIC: 0.26 Meas. Cond: 15.9 Cal. Cond: 15.0
Ca: 57.4 Mg: 38.7 Na: 11.7 K: 19.9 NH4: 2.8
SO4: 66.0 HCO3: 16.5 Cl: 8.2 NO3: 0.1 F: 0.9
Sum Cations: 132.2 Sum Anions: 91.7 Cations/Anions: 1.44 Tot. P: 12.0
Tot. Al: 44.0 Ext. Al: 23.0 Fe: 90.0 Mn: 40.0 SiO2: 0.89

ID: 2C1-034 Name: WILDWOOD LAKE State: WI Date: 29OCT84
Sample Type: REGULAR Latitude: 45-41'00"N Longitude: 89-27'50"W
Elevation: 480 Surface Temp: 7.4 Stratified: MIXED Site Depth: 3.7
Lake Area: 11 Watershed Area: 39 WA/LA: 3.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.4 Turbidity: 0.9 Color: 15
Closed pH: 5.95 Equil. pH: 6.14 ANC: 8.0 DOC: 3.30
Closed DIC: 0.30 Equil. DIC: 0.25 Meas. Cond: 67.1 Cal. Cond: 70.4
Ca: 121.8 Mg: 92.1 Na: 328.4 K: 17.9 NH4: 1.7
SO4: 55.4 HCO3: 7.2 Cl: 458.1 NO3: 0.0 F: 1.2
Sum Cations: 563.7 Sum Anions: 521.9 Cations/Anions: 1.08 Tot. P: 18.0
Tot. Al: 14.0 Ext. Al: 3.0 Fe: 10.0 Mn: 30.0 SiO2: 0.13

ID: 2C1-035 Name: PRUNE LAKE State: WI Date: 08OCT84
Sample Type: REGULAR Latitude: 45-37'20"N Longitude: 89-30'20"W
Elevation: 483 Surface Temp: 13.1 Stratified: MIXED Site Depth: 4.0
Lake Area: 12 Watershed Area: 49 WA/LA: 4.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.3 Turbidity: 0.9 Color: 20
Closed pH: 6.79 Equil. pH: 7.17 ANC: 63.0 DOC: 7.20
Closed DIC: 1.02 Equil. DIC: 0.70 Meas. Cond: 19.7 Cal. Cond: 18.4
Ca: 61.9 Mg: 44.4 Na: 35.7 K: 24.0 NH4: 0.6
SO4: 47.1 HCO3: 53.4 Cl: 30.7 NO3: 1.5 F: 1.7
Sum Cations: 166.8 Sum Anions: 134.4 Cations/Anions: 1.24 Tot. P: 15.0
Tot. Al: 14.0 Ext. Al: 1.0 Fe: 20.0 Mn: 0.0 SiO2: 0.11

ID: 2C1-037 Name: SQUASH LAKE State: WI Date: 08OCT84
Sample Type: REG/SPC/NRC/ Latitude: 45-36'00"N Longitude: 89-33'00"W
Elevation: 478 Surface Temp: 13.8 Stratified: STRONG Site Depth: 22.3
Lake Area: 162 Watershed Area: 440 WA/LA: 2.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.6 Turbidity: 0.6 Color: 10
Closed pH: 7.60 Equil. pH: 7.82 ANC: 373.0 DOC: 3.40
Closed DIC: 4.92 Equil. DIC: 4.27 Meas. Cond: 53.9 Cal. Cond: 55.3
Ca: 259.5 Mg: 155.5 Na: 78.3 K: 17.4 NH4: 0.6
SO4: 55.6 HCO3: 356.6 Cl: 66.0 NO3: 12.7 F: 0.8
Sum Cations: 511.2 Sum Anions: 492.8 Cations/Anions: 1.04 Tot. P: 3.0
Tot. Al: 3.0 Ext. Al: 0.0 Fe: 0.0 Mn: 0.0 SiO2: 3.22

ID: 2C1-038 Name: BUCK LAKE State: WI Date: 08NOV84
Sample Type: REGULAR Latitude: 45-35'30"N Longitude: 89-25'00"W
Elevation: 477 Surface Temp: 5.1 Stratified: MIXED Site Depth: 9.4
Lake Area: 25 Watershed Area: 101 WA/LA: 4.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 6.2 Turbidity: 0.2 Color: 15
Closed pH: 5.85 Equil. pH: 6.24 ANC: 9.3 DOC: 2.40
Closed DIC: 0.44 Equil. DIC: 0.31 Meas. Cond: 18.3 Cal. Cond: 18.9
Ca: 63.4 Mg: 34.5 Na: 17.8 K: 18.4 NH4: 1.1
SO4: 100.8 HCO3: 11.0 Cl: 24.8 NO3: 1.0 F: 1.1
Sum Cations: 136.3 Sum Anions: 138.6 Cations/Anions: 0.98 Tot. P: 7.0
Tot. Al: 17.0 Ext. Al: 4.0 Fe: 20.0 Mn: 0.0 SiO2: 0.00

(continued)

TABLE 3-1 (continued)

ID: 2C1-039 Name: (NO NAME) State: WI Date: 29OCT84
Sample Type: REGULAR Latitude: 45-29'20"N Longitude: 89-25'30"W
Elevation: 512 Surface Temp: 6.8 Stratified: MIXED Site Depth: 3.0
Lake Area: 5 Watershed Area: 31 WA/LA: 5.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.3 Turbidity: 1.2 Color: 40
Closed pH: 5.85 Equil. pH: 6.40 ANC: 19.7 DOC: 6.40
Closed DIC: 0.64 Equil. DIC: 0.39 Meas. Cond: 11.5 Cal. Cond: 11.0
Ca: 38.9 Mg: 27.1 Na: 8.3 K: 18.7 NH4: 1.7
SO4: 46.2 HCO3: 9.3 Cl: 5.6 NO3: 0.3 F: 0.9
Sum Cations: 96.7 Sum Anions: 62.4 Cations/Anions: 1.55 Tot. P: 25.0
Tot. Al: 45.0 Ext. Al: 18.0 Fe: 50.0 Mn: 20.0 SiO2: 0.75

ID: 2C1-040 Name: LAKE DORIS State: WI Date: 29OCT84
Sample Type: REGULAR Latitude: 45-26'25"N Longitude: 89-29'10"W
Elevation: 524 Surface Temp: 7.5 Stratified: MIXED Site Depth: 6.1
Lake Area: 6 Watershed Area: 23 WA/LA: 4.0 Hydro Type: DRAINAGE
Residence Time: 1.71 Secchi Depth: 1.8 Turbidity: 1.1 Color: 55
Closed pH: 6.07 Equil. pH: 7.14 ANC: 83.0 DOC: 6.80
Closed DIC: 2.65 Equil. DIC: 0.83 Meas. Cond: 19.2 Cal. Cond: 18.7
Ca: 83.8 Mg: 46.1 Na: 14.8 K: 20.5 NH4: 9.4
SO4: 51.6 HCO3: 72.6 Cl: 8.7 NO3: 0.6 F: 0.9
Sum Cations: 175.1 Sum Anions: 134.5 Cations/Anions: 1.30 Tot. P: 27.0
Tot. Al: 46.0 Ext. Al: 18.0 Fe: 300.0 Mn: 70.0 SiO2: 1.70

ID: 2C1-042 Name: HIGH LAKE State: WI Date: 29OCT84
Sample Type: REGULAR Latitude: 45-25'30"N Longitude: 89-32'00"W
Elevation: 515 Surface Temp: 7.8 Stratified: MIXED Site Depth: 6.7
Lake Area: 4 Watershed Area: 26 WA/LA: 6.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.3 Turbidity: 0.6 Color: 30
Closed pH: 5.75 Equil. pH: 6.50 ANC: 32.8 DOC: 5.40
Closed DIC: 1.34 Equil. DIC: 0.38 Meas. Cond: 15.5 Cal. Cond: 15.4
Ca: 55.9 Mg: 33.7 Na: 8.7 K: 22.0 NH4: 5.5
SO4: 70.8 HCO3: 23.1 Cl: 7.6 NO3: 0.6 F: 0.9
Sum Cations: 127.2 Sum Anions: 103.1 Cations/Anions: 1.23 Tot. P: 15.0
Tot. Al: 33.0 Ext. Al: 14.0 Fe: 120.0 Mn: 30.0 SiO2: 1.08

ID: 2C1-043 Name: SEVEN ISLAND LAKE State: WI Date: 29OCT84
Sample Type: REGULAR Latitude: 45-25'30"N Longitude: 89-28'00"W
Elevation: 525 Surface Temp: 8.0 Stratified: MIXED Site Depth: 5.2
Lake Area: 55 Watershed Area: 148 WA/LA: 2.7 Hydro Type: DRAINAGE
Residence Time: 1.84 Secchi Depth: 2.4 Turbidity: 1.8 Color: 20
Closed pH: 7.01 Equil. pH: 7.56 ANC: 262.0 DOC: 4.90
Closed DIC: 3.59 Equil. DIC: 2.90 Meas. Cond: 36.9 Cal. Cond: 37.8
Ca: 174.2 Mg: 115.2 Na: 37.0 K: 17.4 NH4: 20.5
SO4: 60.4 HCO3: 223.3 Cl: 21.7 NO3: 1.9 F: 0.9
Sum Cations: 364.3 Sum Anions: 308.5 Cations/Anions: 1.18 Tot. P: 17.0
Tot. Al: 10.0 Ext. Al: 1.0 Fe: 30.0 Mn: 0.0 SiO2: 0.75

ID: 2C1-044 Name: (NO NAME) State: WI Date: 08NOV84
Sample Type: REGULAR Latitude: 45-25'15"N Longitude: 89-22'10"W
Elevation: 506 Surface Temp: 3.7 Stratified: MIXED Site Depth: 3.4
Lake Area: 4 Watershed Area: 31 WA/LA: 7.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.0 Turbidity: 1.4 Color: 75
Closed pH: 5.15 Equil. pH: 5.27 ANC: 12.0 DOC: 9.10
Closed DIC: 0.76 Equil. DIC: 0.17 Meas. Cond: 17.7 Cal. Cond: 16.6
Ca: 58.9 Mg: 33.7 Na: 12.6 K: 12.5 NH4: 2.2
SO4: 77.9 HCO3: 3.2 Cl: 9.6 NO3: 1.0 F: 1.3
Sum Cations: 126.6 Sum Anions: 92.9 Cations/Anions: 1.36 Tot. P: 22.0
Tot. Al: 108.0 Ext. Al: 49.0 Fe: 210.0 Mn: 50.0 SiO2: 2.79

(continued)

TABLE 3-1 (continued)

ID: 2C1-045 Name: BIRCH LAKE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 45-21'35"N Longitude: 89-13'20"W
Elevation: 511 Surface Temp: 3.0 Stratified: MIXED Site Depth: 3.9
Lake Area: 6 Watershed Area: 41 WA/LA: 7.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.9 Turbidity: 1.0 Color: 35
Closed pH: 7.02 Equil. pH: 7.39 ANC: 192.2 DOC: 6.70
Closed DIC: 2.40 Equil. DIC: 2.58 Meas. Cond: 24.1 Cal. Cond: 26.6
Ca: 121.8 Mg: 102.0 Na: 20.9 K: 17.6 NH4: 7.2
SO4: 42.7 HCO3: 159.3 Cl: 6.5 NO3: 0.0 F: 1.2
Sum Cations: 269.5 Sum Anions: 209.9 Cations/Anions: 1.28 Tot. P: 14.0
Tot. Al: 11.0 Ext. Al: 4.0 Fe: 0.0 Mn: 10.0 SiO2: 0.34

ID: 2C1-046 Name: PARTRIDGE LAKE State: WI Date: 08NOV84
Sample Type: REGULAR Latitude: 45-20'45"N Longitude: 89-16'30"W
Elevation: 512 Surface Temp: 4.6 Stratified: MIXED Site Depth: 8.8
Lake Area: 15 Watershed Area: 119 WA/LA: 8.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.3 Turbidity: 0.4 Color: 30
Closed pH: 6.30 Equil. pH: 7.13 ANC: 68.9 DOC: 4.60
Closed DIC: 1.62 Equil. DIC: 0.85 Meas. Cond: 17.5 Cal. Cond: 17.7
Ca: 59.4 Mg: 54.3 Na: 11.3 K: 23.5 NH4: 6.1
SO4: 58.7 HCO3: 63.3 Cl: 9.6 NO3: 1.3 F: 1.5
Sum Cations: 154.9 Sum Anions: 134.4 Cations/Anions: 1.15 Tot. P: 22.0
Tot. Al: 24.0 Ext. Al: 6.0 Fe: 120.0 Mn: 30.0 SiO2: 0.22

ID: 2C1-047 Name: SNAG LAKE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 45-19'20"N Longitude: 89-13'10"W
Elevation: 504 Surface Temp: 3.8 Stratified: MIXED Site Depth: 6.7
Lake Area: 9 Watershed Area: 67 WA/LA: 7.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.1 Turbidity: 0.5 Color: 45
Closed pH: 6.56 Equil. pH: 7.29 ANC: 140.5 DOC: 6.60
Closed DIC: 2.39 Equil. DIC: 1.95 Meas. Cond: 22.4 Cal. Cond: 25.0
Ca: 106.8 Mg: 92.1 Na: 20.9 K: 16.6 NH4: 8.0
SO4: 55.4 HCO3: 121.7 Cl: 11.6 NO3: 1.5 F: 1.0
Sum Cations: 244.6 Sum Anions: 191.2 Cations/Anions: 1.28 Tot. P: 11.0
Tot. Al: 33.0 Ext. Al: 9.0 Fe: 260.0 Mn: 10.0 SiO2: 1.12

ID: 2C1-049 Name: BORTH LAKE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 45-17'00"N Longitude: 89-10'07"W
Elevation: 489 Surface Temp: 3.4 Stratified: MIXED Site Depth: 3.7
Lake Area: 12 Watershed Area: 70 WA/LA: 6.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.1 Turbidity: 0.3 Color: 25
Closed pH: 6.51 Equil. pH: 7.06 ANC: 78.5 DOC: 5.50
Closed DIC: 1.34 Equil. DIC: 1.23 Meas. Cond: 18.4 Cal. Cond: 19.8
Ca: 68.9 Mg: 51.8 Na: 35.2 K: 20.5 NH4: 5.7
SO4: 38.1 HCO3: 67.9 Cl: 39.2 NO3: 1.7 F: 0.8
Sum Cations: 182.3 Sum Anions: 147.7 Cations/Anions: 1.23 Tot. P: 16.0
Tot. Al: 11.0 Ext. Al: 20.0 Fe: 20.0 Mn: 0.0 SiO2: 0.06

ID: 2C1-050 Name: VENTOR LAKE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 45-18'40"N Longitude: 89-02'55"W
Elevation: 492 Surface Temp: 3.0 Stratified: MIXED Site Depth: 4.6
Lake Area: 5 Watershed Area: 52 WA/LA: 9.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.9 Turbidity: 0.6 Color: 25
Closed pH: 4.75 Equil. pH: 4.75 ANC: 12.1 DOC: 7.60
Closed DIC: 0.58 Equil. DIC: 0.09 Meas. Cond: 21.3 Cal. Cond: 19.9
Ca: 64.9 Mg: 39.5 Na: 11.3 K: 15.3 NH4: 1.3
SO4: 62.5 HCO3: 1.4 Cl: 8.7 NO3: 0.0 F: 1.1
Sum Cations: 150.5 Sum Anions: 73.7 Cations/Anions: 2.04 Tot. P: 3.0
Tot. Al: 125.0 Ext. Al: 75.0 Fe: 360.0 Mn: 80.0 SiO2: 1.05

(continued)

TABLE 3-1 (continued)

ID: 2C1-051 Name: NEWBOLD LAKE State: WI Date: 29OCT84
Sample Type: REGULAR Latitude: 45-42'23"N Longitude: 89-33'12"W
Elevation: 489 Surface Temp: 7.7 Stratified: MIXED Site Depth: 7.6
Lake Area: 6 Watershed Area: 119 WA/LA: 19.8 Hydro Type: DRAINAGE
Residence Time: 0.62 Secchi Depth: 2.9 Turbidity: 0.8 Color: 25
Closed pH: 6.30 Equil. pH: 6.85 ANC: 35.0 DOC: 5.90
Closed DIC: 0.86 Equil. DIC: 0.55 Meas. Cond: 16.3 Cal. Cond: 15.5
Ca: 62.9 Mg: 38.7 Na: 13.5 K: 13.0 NH4: 10.5
SO4: 60.4 HCO3: 33.3 Cl: 9.6 NO3: 0.8 F: 1.2
Sum Cations: 139.1 Sum Anions: 105.2 Cations/Anions: 1.32 Tot. P: 13.0
Tot. Al: 25.0 Ext. Al: 6.0 Fe: 80.0 Mn: 20.0 SiO2: 0.41

ID: 2C1-053 Name: PLYMOUTH LAKE State: WI Date: 10OCT84
Sample Type: REGULAR Latitude: 46-02'26"N Longitude: 88-59'21"W
Elevation: 538 Surface Temp: 12.8 Stratified: MIXED Site Depth: 7.6
Lake Area: 5 Watershed Area: 83 WA/LA: 16.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 5.2 Turbidity: 0.3 Color: 10
Closed pH: 5.00 Equil. pH: 5.04 ANC: -8.2 DOC: 1.90
Closed DIC: 0.53 Equil. DIC: 0.15 Meas. Cond: 11.6 Cal. Cond: 13.4
Ca: 17.5 Mg: 18.9 Na: 4.8 K: 10.7 NH4: 1.1
SO4: 67.9 HCO3: 1.2 Cl: 13.5 NO3: 0.0 F: 0.7
Sum Cations: 63.5 Sum Anions: 83.3 Cations/Anions: 0.76 Tot. P: 6.0
Tot. Al: 10.0 Ext. Al: 6.0 Fe: 10.0 Mn: 40.0 SiO2: 0.20

ID: 2C1-054 Name: PERCH LAKE State: WI Date: 04NOV84
Sample Type: REGULAR Latitude: 46-08'46"N Longitude: 89-15'00"W
Elevation: 515 Surface Temp: 2.1 Stratified: MIXED Site Depth: 3.0
Lake Area: 6 Watershed Area: 85 WA/LA: 13.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.4 Turbidity: 1.4 Color: 10
Closed pH: 5.21 Equil. pH: 5.24 ANC: 6.0 DOC: 2.90
Closed DIC: 0.23 Equil. DIC: 0.18 Meas. Cond: 11.8 Cal. Cond: 11.7
Ca: 30.9 Mg: 23.0 Na: 4.8 K: 7.7 NH4: 2.2
SO4: 57.9 HCO3: 1.4 Cl: 6.2 NO3: 2.2 F: 0.5
Sum Cations: 75.4 Sum Anions: 68.3 Cations/Anions: 1.10 Tot. P: 15.0
Tot. Al: 49.0 Ext. Al: 15.0 Fe: 30.0 Mn: 40.0 SiO2: 0.00

ID: 2C1-055 Name: GROSS LAKE State: WI Date: 08NOV84
Sample Type: REGULAR Latitude: 45-34'43"N Longitude: 89-26'05"W
Elevation: 478 Surface Temp: 3.4 Stratified: MIXED Site Depth: 6.1
Lake Area: 12 Watershed Area: 114 WA/LA: 9.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.9 Turbidity: 0.6 Color: 20
Closed pH: 6.02 Equil. pH: 6.46 ANC: 23.0 DOC: 5.60
Closed DIC: 0.47 Equil. DIC: 0.33 Meas. Cond: 16.8 Cal. Cond: 16.1
Ca: 56.9 Mg: 38.7 Na: 16.5 K: 21.2 NH4: 1.1
SO4: 75.8 HCO3: 13.0 Cl: 13.8 NO3: 1.8 F: 1.1
Sum Cations: 135.4 Sum Anions: 105.5 Cations/Anions: 1.28 Tot. P: 13.0
Tot. Al: 30.0 Ext. Al: 6.0 Fe: 70.0 Mn: 20.0 SiO2: 0.23

ID: 2C1-056 Name: RUDOLPH LAKE State: WI Date: 09OCT84
Sample Type: REGULAR Latitude: 46-12'30"N Longitude: 89-39'33"W
Elevation: 516 Surface Temp: 12.4 Stratified: MIXED Site Depth: 7.3
Lake Area: 34 Watershed Area: 453 WA/LA: 13.4 Hydro Type: DRAINAGE
Residence Time: 0.84 Secchi Depth: 2.5 Turbidity: 0.6 Color: 30
Closed pH: 6.28 Equil. pH: 6.95 ANC: 48.0 DOC: 5.90
Closed DIC: 0.84 Equil. DIC: 0.40 Meas. Cond: 22.6 Cal. Cond: 25.3
Ca: 83.3 Mg: 56.8 Na: 36.1 K: 12.5 NH4: 0.6
SO4: 100.4 HCO3: 28.4 Cl: 66.0 NO3: 0.1 F: 1.1
Sum Cations: 189.8 Sum Anions: 195.9 Cations/Anions: 0.97 Tot. P: 7.0
Tot. Al: 47.0 Ext. Al: 19.0 Fe: 50.0 Mn: 0.0 SiO2: 0.42

(continued)

TABLE 3-1 (continued)

ID: 2C1-057 Name: CASTLE LAKE State: MI Date: 03NOV84
Sample Type: REGULAR Latitude: 46-18'56"N Longitude: 89-04'27"W
Elevation: 483 Surface Temp: 5.2 Stratified: MIXED Site Depth: 18.9
Lake Area: 13 Watershed Area: 332 WA/LA: 25.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.3 Turbidity: 0.7 Color: 85
Closed pH: 5.90 Equil. pH: 6.80 ANC: 54.8 DOC: 9.00
Closed DIC: 1.90 Equil. DIC: 0.48 Meas. Cond: 20.8 Cal. Cond: 21.3
Ca: 89.8 Mg: 49.4 Na: 18.7 K: 22.5 NH4: 3.9
SO4: 76.4 HCO3: 39.8 Cl: 26.0 NO3: 3.7 F: 1.1
Sum Cations: 185.1 Sum Anions: 147.0 Cations/Anions: 1.26 Tot. P: 29.0
Tot. Al: 125.0 Ext. Al: 44.0 Fe: 230.0 Mn: 40.0 SiO2: 2.05

ID: 2C1-058 Name: GAME LAKE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 45-19'12"N Longitude: 89-05'25"W
Elevation: 501 Surface Temp: 4.4 Stratified: MIXED Site Depth: 6.7
Lake Area: 9 Watershed Area: 254 WA/LA: 28.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.0 Turbidity: 0.6 Color: 115
Closed pH: 5.14 Equil. pH: 5.24 ANC: 15.3 DOC: 10.80
Closed DIC: 1.30 Equil. DIC: 0.00 Meas. Cond: 12.7 Cal. Cond: 13.0
Ca: 48.4 Mg: 29.6 Na: 6.5 K: 16.4 NH4: 6.2
SO4: 43.5 HCO3: 3.6 Cl: 5.4 NO3: 1.1 F: 0.8
Sum Cations: 114.0 Sum Anions: 54.3 Cations/Anions: 2.10 Tot. P: 17.0
Tot. Al: 104.0 Ext. Al: 55.0 Fe: 280.0 Mn: 70.0 SiO2: 1.04

ID: 2C1-059 Name: (NO NAME) State: WI Date: 30OCT84
Sample Type: REGULAR Latitude: 46-01'22"N Longitude: 89-42'39"W
Elevation: 494 Surface Temp: 7.6 Stratified: MIXED Site Depth: 5.2
Lake Area: 9 Watershed Area: 57 WA/LA: 6.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 5.2 Turbidity: 0.3 Color: 15
Closed pH: 5.04 Equil. pH: 5.02 ANC: -10.0 DOC: 2.20
Closed DIC: 0.33 Equil. DIC: 0.17 Meas. Cond: 17.7 Cal. Cond: 19.5
Ca: 42.9 Mg: 31.3 Na: 8.3 K: 12.0 NH4: 0.0
SO4: 120.8 HCO3: 1.4 Cl: 6.2 NO3: 1.9 F: 0.7
Sum Cations: 104.9 Sum Anions: 130.9 Cations/Anions: 0.80 Tot. P: 12.0
Tot. Al: 32.0 Ext. Al: 17.0 Fe: 0.0 Mn: 50.0 SiO2: 0.06

ID: 2C1-060 Name: MILLER LAKE State: WI Date: 01NOV84
Sample Type: REGULAR Latitude: 45-49'14"N Longitude: 89-36'11"W
Elevation: 483 Surface Temp: 7.2 Stratified: MIXED Site Depth: 8.2
Lake Area: 6 Watershed Area: 36 WA/LA: 5.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.1 Turbidity: 0.4 Color: 15
Closed pH: 6.21 Equil. pH: 6.84 ANC: 30.0 DOC: 2.60
Closed DIC: 0.98 Equil. DIC: 0.47 Meas. Cond: 14.9 Cal. Cond: 14.3
Ca: 49.4 Mg: 31.3 Na: 14.8 K: 17.1 NH4: 2.8
SO4: 62.3 HCO3: 27.4 Cl: 12.7 NO3: 1.2 F: 0.8
Sum Cations: 115.9 Sum Anions: 104.4 Cations/Anions: 1.11 Tot. P: 10.0
Tot. Al: 17.0 Ext. Al: 2.0 Fe: 80.0 Mn: 20.0 SiO2: 0.00

ID: 2C2-001 Name: HEART LAKE State: MI Date: 06NOV84
Sample Type: REGULAR Latitude: 46-21'20"N Longitude: 89-44'45"W
Elevation: 475 Surface Temp: 1.4 Stratified: MIXED Site Depth: 1.5
Lake Area: 68 Watershed Area: 596 WA/LA: 8.7 Hydro Type: DRAINAGE
Residence Time: 0.24 Secchi Depth: 0.7 Turbidity: 1.5 Color: 120
Closed pH: 6.83 Equil. pH: 7.35 ANC: 212.3 DOC: 18.40
Closed DIC: 1.81 Equil. DIC: 1.37 Meas. Cond: 34.6 Cal. Cond: 34.0
Ca: 194.6 Mg: 129.1 Na: 37.0 K: 8.2 NH4: 2.2
SO4: 93.3 HCO3: 101.4 Cl: 9.6 NO3: 1.5 F: 2.6
Sum Cations: 371.2 Sum Anions: 208.5 Cations/Anions: 1.78 Tot. P: 9.0
Tot. Al: 92.0 Ext. Al: 30.0 Fe: 190.0 Mn: 10.0 SiO2: 3.02

(continued)

TABLE 3-1 (continued)

ID: 2C2-002 Name: HONEYSUCKLE LAKE State: MI Date: 09OCT84
Sample Type: REGULAR Latitude: 46-16'12"N Longitude: 89-43'32"W
Elevation: 514 Surface Temp: 12.2 Stratified: STRONG Site Depth: 16.8
Lake Area: 11 Watershed Area: 54 WA/LA: 5.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.8 Turbidity: 0.9 Color: 35
Closed pH: 6.54 Equil. pH: 7.29 ANC: 106.0 DOC: 6.50
Closed DIC: 1.91 Equil. DIC: 1.11 Meas. Cond: 16.3 Cal. Cond: 14.8
Ca: 80.8 Mg: 48.5 Na: 13.0 K: 15.9 NH4: 0.6
SO4: 14.4 HCO3: 84.5 Cl: 5.9 NO3: 0.0 F: 1.6
Sum Cations: 159.1 Sum Anions: 106.4 Cations/Anions: 1.50 Tot. P: 10.0
Tot. Al: 14.0 Ext. Al: 6.0 Fe: 50.0 Mn: 0.0 SiO2: 0.36

ID: 2C2-003 Name: MINONK LAKE State: WI Date: 06NOV84
Sample Type: REGULAR Latitude: 46-15'00"N Longitude: 89-46'20"W
Elevation: 507 Surface Temp: 2.2 Stratified: MIXED Site Depth: 4.0
Lake Area: 40 Watershed Area: 544 WA/LA: 13.6 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 1.6 Turbidity: 1.0 Color: 30
Closed pH: 5.54 Equil. pH: 5.68 ANC: 15.9 DOC: 7.20
Closed DIC: 0.33 Equil. DIC: 0.01 Meas. Cond: 12.4 Cal. Cond: 13.8
Ca: 48.4 Mg: 31.3 Na: 12.2 K: 12.8 NH4: 2.7
SO4: 68.9 HCO3: 5.6 Cl: 7.1 NO3: 0.0 F: 1.1
Sum Cations: 110.7 Sum Anions: 82.6 Cations/Anions: 1.34 Tot. P: 7.0
Tot. Al: 46.0 Ext. Al: 23.0 Fe: 50.0 Mn: 20.0 SiO2: 0.02

ID: 2C2-004 Name: HORSEHEAD LAKE State: WI Date: 09OCT84
Sample Type: REGULAR Latitude: 46-14'00"N Longitude: 89-43'00"W
Elevation: 500 Surface Temp: 12.4 Stratified: MIXED Site Depth: 6.1
Lake Area: 102 Watershed Area: 298 WA/LA: 2.9 Hydro Type: DRAINAGE
Residence Time: 2.06 Secchi Depth: 5.4 Turbidity: 0.6 Color: 15
Closed pH: 7.40 Equil. pH: 8.28 ANC: 707.0 DOC: 4.90
Closed DIC: 8.73 Equil. DIC: 7.63 Meas. Cond: 79.3 Cal. Cond: 80.8
Ca: 484.5 Mg: 240.2 Na: 47.0 K: 18.7 NH4: 2.2
SO4: 63.1 HCO3: 631.0 Cl: 20.9 NO3: 5.6 F: 2.6
Sum Cations: 792.6 Sum Anions: 725.1 Cations/Anions: 1.09 Tot. P: 19.0
Tot. Al: 3.0 Ext. Al: 2.0 Fe: 30.0 Mn: 20.0 SiO2: 6.91

ID: 2C2-005 Name: CARLIN LAKE State: WI Date: 06NOV84
Sample Type: REGULAR Latitude: 46-12'00"N Longitude: 89-46'35"W
Elevation: 499 Surface Temp: 5.2 Stratified: MIXED Site Depth: 9.1
Lake Area: 62 Watershed Area: 179 WA/LA: 2.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.4 Turbidity: 0.4 Color: 10
Closed pH: 6.60 Equil. pH: 6.99 ANC: 54.3 DOC: 3.40
Closed DIC: 0.84 Equil. DIC: 0.52 Meas. Cond: 12.4 Cal. Cond: 15.5
Ca: 61.9 Mg: 33.7 Na: 18.7 K: 13.0 NH4: 3.8
SO4: 51.4 HCO3: 41.2 Cl: 21.4 NO3: 1.1 F: 1.2
Sum Cations: 131.5 Sum Anions: 116.4 Cations/Anions: 1.13 Tot. P: 16.0
Tot. Al: 5.0 Ext. Al: 2.0 Fe: 30.0 Mn: 10.0 SiO2: 0.10

ID: 2C2-006 Name: NOSEEUM LAKE State: WI Date: 06NOV84
Sample Type: REGULAR Latitude: 46-11'20"N Longitude: 89-49'15"W
Elevation: 498 Surface Temp: 3.8 Stratified: MIXED Site Depth: 8.5
Lake Area: 8 Watershed Area: 49 WA/LA: 6.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.8 Turbidity: 0.7 Color: 75
Closed pH: 6.22 Equil. pH: 6.73 ANC: 69.7 DOC: 8.90
Closed DIC: 1.22 Equil. DIC: 0.45 Meas. Cond: 20.0 Cal. Cond: 22.0
Ca: 104.3 Mg: 56.8 Na: 20.0 K: 8.7 NH4: 9.9
SO4: 91.4 HCO3: 49.0 Cl: 7.3 NO3: 1.7 F: 1.1
Sum Cations: 200.1 Sum Anions: 150.6 Cations/Anions: 1.33 Tot. P: 27.0
Tot. Al: 85.0 Ext. Al: 36.0 Fe: 160.0 Mn: 20.0 SiO2: 2.07

(continued)

TABLE 3-1 (continued)

ID: 2C2-007 Name: (NO NAME) State: WI Date: 06NOV84
Sample Type: REGULAR Latitude: 46-09'55"N Longitude: 89-45'35"W
Elevation: 493 Surface Temp: 4.5 Stratified: MIXED Site Depth: 10.4
Lake Area: 8 Watershed Area: 34 WA/LA: 4.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.2 Turbidity: 0.1 Color: 25
Closed pH: 5.95 Equil. pH: 6.46 ANC: 27.4 DOC: 3.80
Closed DIC: 0.79 Equil. DIC: 0.17 Meas. Cond: 8.9 Cal. Cond: 10.7
Ca: 41.9 Mg: 22.2 Na: 5.4 K: 13.3 NH4: 4.4
SO4: 45.8 HCO3: 21.1 Cl: 6.2 NO3: 1.0 F: 0.8
Sum Cations: 88.0 Sum Anions: 74.9 Cations/Anions: 1.18 Tot. P: 21.0
Tot. Al: 12.0 Ext. Al: 5.0 Fe: 70.0 Mn: 30.0 SiO2: 0.39

ID: 2C2-008 Name: MARION LAKE State: MI Date: 03NOV84
Sample Type: REGULAR Latitude: 46-15'52"N Longitude: 89-05'15"W
Elevation: 496 Surface Temp: 4.6 Stratified: MIXED Site Depth: 9.8
Lake Area: 122 Watershed Area: 619 WA/LA: 5.1 Hydro Type: DRAINAGE
Residence Time: 2.36 Secchi Depth: 4.0 Turbidity: 0.3 Color: 25
Closed pH: 7.11 Equil. pH: 7.43 ANC: 163.0 DOC: 5.50
Closed DIC: 1.95 Equil. DIC: 1.89 Meas. Cond: 30.2 Cal. Cond: 30.1
Ca: 153.2 Mg: 85.5 Na: 25.2 K: 16.1 NH4: 1.7
SO4: 85.6 HCO3: 132.2 Cl: 12.4 NO3: 1.8 F: 1.2
Sum Cations: 281.8 Sum Anions: 233.3 Cations/Anions: 1.21 Tot. P: 19.0
Tot. Al: 24.0 Ext. Al: 6.0 Fe: 50.0 Mn: 0.0 SiO2: 0.37

ID: 2C2-010 Name: HILLTOP LAKE State: MI Date: 04NOV84
Sample Type: REGULAR Latitude: 46-14'22"N Longitude: 89-14'00"W
Elevation: 539 Surface Temp: 4.5 Stratified: MIXED Site Depth: 16.2
Lake Area: 7 Watershed Area: 57 WA/LA: 7.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.9 Turbidity: 0.4 Color: 20
Closed pH: 5.25 Equil. pH: 5.35 ANC: -4.3 DOC: 2.90
Closed DIC: 0.70 Equil. DIC: 0.16 Meas. Cond: 12.8 Cal. Cond: 13.0
Ca: 31.4 Mg: 26.3 Na: 7.4 K: 10.0 NH4: 1.7
SO4: 68.3 HCO3: 3.3 Cl: 9.0 NO3: 0.7 F: 0.6
Sum Cations: 82.8 Sum Anions: 81.9 Cations/Anions: 1.01 Tot. P: 10.0
Tot. Al: 41.0 Ext. Al: 16.0 Fe: 70.0 Mn: 40.0 SiO2: 0.20

ID: 2C2-011 Name: ALLEN LAKE State: MI Date: 04NOV84
Sample Type: REGULAR Latitude: 46-13'30"N Longitude: 89-10'25"W
Elevation: 526 Surface Temp: 4.4 Stratified: MIXED Site Depth: 13.4
Lake Area: 32 Watershed Area: 344 WA/LA: 10.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.7 Turbidity: 0.5 Color: 40
Closed pH: 6.30 Equil. pH: 6.78 ANC: 47.0 DOC: 6.10
Closed DIC: 0.73 Equil. DIC: 0.40 Meas. Cond: 32.2 Cal. Cond: 32.2
Ca: 97.8 Mg: 58.4 Na: 104.4 K: 14.8 NH4: 1.1
SO4: 86.0 HCO3: 26.0 Cl: 112.6 NO3: 1.0 F: 0.9
Sum Cations: 277.0 Sum Anions: 226.5 Cations/Anions: 1.22 Tot. P: 9.0
Tot. Al: 87.0 Ext. Al: 21.0 Fe: 50.0 Mn: 10.0 SiO2: 0.57

ID: 2C2-012 Name: OPAL LAKE State: MI Date: 03NOV84
Sample Type: REGULAR Latitude: 46-15'00"N Longitude: 89-07'45"W
Elevation: 511 Surface Temp: 4.2 Stratified: MIXED Site Depth: 7.9
Lake Area: 4 Watershed Area: 31 WA/LA: 7.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.8 Turbidity: 0.5 Color: 40
Closed pH: 5.99 Equil. pH: 6.53 ANC: 35.0 DOC: 4.60
Closed DIC: 1.22 Equil. DIC: 0.38 Meas. Cond: 19.3 Cal. Cond: 19.7
Ca: 73.9 Mg: 48.5 Na: 16.1 K: 13.8 NH4: 3.3
SO4: 106.6 HCO3: 25.0 Cl: 7.9 NO3: 0.9 F: 0.9
Sum Cations: 156.6 Sum Anions: 141.4 Cations/Anions: 1.11 Tot. P: 11.0
Tot. Al: 63.0 Ext. Al: 27.0 Fe: 80.0 Mn: 30.0 SiO2: 0.75

(continued)

TABLE 3-1 (continued)

ID: 2C2-013 Name: TAYLOR LAKE State: MI Date: 03NOV84
Sample Type: REGULAR Latitude: 46-14'55"N Longitude: 89-02'30"W
Elevation: 500 Surface Temp: 5.8 Stratified: MIXED Site Depth: 12.2
Lake Area: 44 Watershed Area: 875 WA/LA: 19.8 Hydro Type: DRAINAGE
Residence Time: 1.00 Secchi Depth: 1.8 Turbidity: 1.1 Color: 70
Closed pH: 7.26 Equil. pH: 7.91 ANC: 405.0 DOC: 9.40
Closed DIC: 4.40 Equil. DIC: 4.00 Meas. Cond: 48.8 Cal. Cond: 50.8
Ca: 300.9 Mg: 151.4 Na: 34.4 K: 17.4 NH4: 2.2
SO4: 76.4 HCO3: 330.1 Cl: 7.6 NO3: 2.5 F: 1.8
Sum Cations: 506.3 Sum Anions: 419.2 Cations/Anions: 1.21 Tot. P: 13.0
Tot. Al: 45.0 Ext. Al: 9.0 Fe: 160.0 Mn: 10.0 SiO2: 3.71

ID: 2C2-014 Name: BIG DONAHUE LAKE State: WI Date: 04NOV84
Sample Type: REGULAR Latitude: 46-10'16"N Longitude: 89-18'47"W
Elevation: 522 Surface Temp: 3.6 Stratified: MIXED Site Depth: 9.1
Lake Area: 37 Watershed Area: 267 WA/LA: 7.2 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 2.2 Turbidity: 0.8 Color: 25
Closed pH: 5.58 Equil. pH: 5.66 ANC: 8.0 DOC: 3.00
Closed DIC: 0.28 Equil. DIC: 0.25 Meas. Cond: 11.5 Cal. Cond: 11.7
Ca: 36.9 Mg: 25.5 Na: 7.4 K: 10.5 NH4: 0.0
SO4: 63.7 HCO3: 3.9 Cl: 7.6 NO3: 0.0 F: 0.6
Sum Cations: 83.5 Sum Anions: 75.8 Cations/Anions: 1.10 Tot. P: 16.0
Tot. Al: 46.0 Ext. Al: 9.0 Fe: 70.0 Mn: 10.0 SiO2: 0.00

ID: 2C2-015 Name: MARSH LAKE State: MI Date: 04NOV84
Sample Type: REGULAR Latitude: 46-11'20"N Longitude: 89-15'00"W
Elevation: 523 Surface Temp: 4.5 Stratified: MIXED Site Depth: 10.1
Lake Area: 25 Watershed Area: 282 WA/LA: 11.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.4 Turbidity: 0.7 Color: 65
Closed pH: 5.65 Equil. pH: 5.94 ANC: 13.0 DOC: 6.60
Closed DIC: 0.53 Equil. DIC: 0.18 Meas. Cond: 13.0 Cal. Cond: 12.0
Ca: 46.9 Mg: 31.3 Na: 8.3 K: 13.6 NH4: 3.9
SO4: 50.8 HCO3: 5.9 Cl: 6.8 NO3: 3.4 F: 0.7
Sum Cations: 106.0 Sum Anions: 67.5 Cations/Anions: 1.57 Tot. P: 16.0
Tot. Al: 113.0 Ext. Al: 35.0 Fe: 260.0 Mn: 30.0 SiO2: 0.84

ID: 2C2-016 Name: GUDEGAST LAKE State: MI Date: 04NOV84
Sample Type: REGULAR Latitude: 46-10'08"N Longitude: 89-09'27"W
Elevation: 518 Surface Temp: 3.3 Stratified: MIXED Site Depth: 6.1
Lake Area: 5 Watershed Area: 13 WA/LA: 2.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.3 Turbidity: 0.8 Color: 25
Closed pH: 6.11 Equil. pH: 6.89 ANC: 41.0 DOC: 5.00
Closed DIC: 1.11 Equil. DIC: 0.49 Meas. Cond: 7.8 Cal. Cond: 7.3
Ca: 34.9 Mg: 22.2 Na: 6.1 K: 7.4 NH4: 0.0
SO4: 12.5 HCO3: 34.4 Cl: 5.1 NO3: 0.0 F: 0.5
Sum Cations: 71.2 Sum Anions: 52.5 Cations/Anions: 1.36 Tot. P: 14.0
Tot. Al: 21.0 Ext. Al: 3.0 Fe: 40.0 Mn: 10.0 SiO2: 0.03

ID: 2C2-017 Name: DINNER LAKE State: MI Date: 04NOV84
Sample Type: REGULAR Latitude: 46-12'00"N Longitude: 89-08'00"W
Elevation: 513 Surface Temp: 3.8 Stratified: MIXED Site Depth: 4.6
Lake Area: 47 Watershed Area: 132 WA/LA: 2.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.0 Turbidity: 0.5 Color: 15
Closed pH: 7.63 Equil. pH: 8.08 ANC: 374.0 DOC: 3.60
Closed DIC: 4.61 Equil. DIC: 4.30 Meas. Cond: 48.4 Cal. Cond: 49.7
Ca: 267.0 Mg: 157.1 Na: 47.8 K: 10.0 NH4: 0.0
SO4: 77.2 HCO3: 335.9 Cl: 13.5 NO3: 0.0 F: 1.5
Sum Cations: 481.9 Sum Anions: 429.1 Cations/Anions: 1.12 Tot. P: 10.0
Tot. Al: 11.0 Ext. Al: 0.0 Fe: 0.0 Mn: 0.0 SiO2: 1.08

(continued)

TABLE 3-1 (continued)

ID: 2C2-018 Name: SIME LAKE State: WI Date: 09OCT84
Sample Type: REGULAR Latitude: 46-09'30"N Longitude: 89-31'15"W
Elevation: 507 Surface Temp: 12.7 Stratified: MIXED Site Depth: 4.3
Lake Area: 15 Watershed Area: 67 WA/LA: 4.5 Hydro Type: DRAINAGE
Residence Time: 1.13 Secchi Depth: 2.6 Turbidity: 0.4 Color: 18
Closed pH: 6.49 Equil. pH: 6.88 ANC: 41.0 DOC: 3.65
Closed DIC: 0.68 Equil. DIC: 0.44 Meas. Cond: 12.3 Cal. Cond: 11.7
Ca: 50.2 Mg: 33.3 Na: 10.2 K: 9.6 NH4: 0.6
SO4: 48.3 HCO3: 28.7 Cl: 4.1 NO3: 0.8 F: 1.0
Sum Cations: 104.3 Sum Anions: 82.9 Cations/Anions: 1.26 Tot. P: 4.5
Tot. Al: 12.5 Ext. Al: 6.5 Fe: 15.0 Mn: 0.0 SiO2: 0.08

ID: 2C2-019 Name: NELLIE LAKE State: WI Date: 09OCT84
Sample Type: REGULAR Latitude: 46-05'45"N Longitude: 89-35'00"W
Elevation: 501 Surface Temp: 11.6 Stratified: MIXED Site Depth: 4.0
Lake Area: 5 Watershed Area: 21 WA/LA: 4.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.7 Turbidity: 0.9 Color: 80
Closed pH: 5.58 Equil. pH: 6.46 ANC: 32.0 DOC: 7.50
Closed DIC: 2.41 Equil. DIC: 0.32 Meas. Cond: 9.3 Cal. Cond: 8.1
Ca: 39.4 Mg: 18.1 Na: 5.2 K: 17.6 NH4: 0.6
SO4: 12.7 HCO3: 27.0 Cl: 4.8 NO3: 2.1 F: 0.9
Sum Cations: 82.1 Sum Anions: 47.5 Cations/Anions: 1.73 Tot. P: 15.0
Tot. Al: 44.0 Ext. Al: 31.0 Fe: 300.0 Mn: 30.0 SiO2: 0.06

ID: 2C2-020 Name: WHITE BIRCH LAKE State: WI Date: 09OCT84
Sample Type: REGULAR Latitude: 46-03'45"N Longitude: 89-31'25"W
Elevation: 515 Surface Temp: 12.3 Stratified: MIXED Site Depth: 6.1
Lake Area: 46 Watershed Area: 528 WA/LA: 11.5 Hydro Type: DRAINAGE
Residence Time: 0.80 Secchi Depth: 3.2 Turbidity: 0.6 Color: 5
Closed pH: 8.01 Equil. pH: 7.94 ANC: 519.0 DOC: 4.10
Closed DIC: 5.95 Equil. DIC: 5.60 Meas. Cond: 58.6 Cal. Cond: 59.2
Ca: 328.3 Mg: 192.5 Na: 45.7 K: 13.3 NH4: 0.6
SO4: 62.5 HCO3: 454.2 Cl: 7.9 NO3: 0.7 F: 2.5
Sum Cations: 580.4 Sum Anions: 529.5 Cations/Anions: 1.10 Tot. P: 2.0
Tot. Al: 1.0 Ext. Al: 3.0 Fe: 10.0 Mn: 0.0 SiO2: 1.23

ID: 2C2-021 Name: STARRETT LAKE State: WI Date: 31OCT84
Sample Type: REGULAR Latitude: 46-01'40"N Longitude: 89-34'25"W
Elevation: 502 Surface Temp: 6.4 Stratified: MIXED Site Depth: 4.6
Lake Area: 27 Watershed Area: 85 WA/LA: 3.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.1 Turbidity: 1.4 Color: 8
Closed pH: 6.49 Equil. pH: 6.62 ANC: 34.0 DOC: 3.25
Closed DIC: 0.65 Equil. DIC: 0.59 Meas. Cond: 14.2 Cal. Cond: 14.3
Ca: 63.1 Mg: 33.7 Na: 15.7 K: 7.7 NH4: 1.7
SO4: 62.8 HCO3: 31.7 Cl: 7.3 NO3: 0.4 F: 1.0
Sum Cations: 122.4 Sum Anions: 103.2 Cations/Anions: 1.19 Tot. P: 20.5
Tot. Al: 44.0 Ext. Al: 0.0 Fe: 5.0 Mn: 0.0 SiO2: 0.14

ID: 2C2-022 Name: TOWER LAKE State: WI Date: 04NOV84
Sample Type: REGULAR Latitude: 46-07'32"N Longitude: 89-26'15"W
Elevation: 519 Surface Temp: 3.1 Stratified: MIXED Site Depth: 7.9
Lake Area: 12 Watershed Area: 52 WA/LA: 4.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.1 Turbidity: 1.5 Color: 35
Closed pH: 7.36 Equil. pH: 7.74 ANC: 326.0 DOC: 2.90
Closed DIC: 4.25 Equil. DIC: 3.80 Meas. Cond: 39.8 Cal. Cond: 40.3
Ca: 205.1 Mg: 134.9 Na: 45.2 K: 14.8 NH4: 0.0
SO4: 46.6 HCO3: 289.8 Cl: 10.4 NO3: 0.0 F: 1.9
Sum Cations: 400.1 Sum Anions: 349.2 Cations/Anions: 1.15 Tot. P: 10.0
Tot. Al: 5.0 Ext. Al: 0.0 Fe: 300.0 Mn: 0.0 SiO2: 8.22

(continued)

TABLE 3-1 (continued)

ID: 2C2-024 Name: STONE LAKE State: WI Date: 07NOV84
Sample Type: REGULAR Latitude: 46-01'30"N Longitude: 90-07'15"W
Elevation: 486 Surface Temp: 2.4 Stratified: MIXED Site Depth: 6.1
Lake Area: 32 Watershed Area: 199 WA/LA: 6.3 Hydro Type: DRAINAGE
Residence Time: 1.27 Secchi Depth: 1.6 Turbidity: 1.7 Color: 40
Closed pH: 7.39 Equil. pH: 7.95 ANC: 342.8 DOC: 7.50
Closed DIC: 4.04 Equil. DIC: 3.89 Meas. Cond: 44.2 Cal. Cond: 44.4
Ca: 264.5 Mg: 119.3 Na: 49.2 K: 12.5 NH4: 0.6
SO4: 47.1 HCO3: 288.3 Cl: 28.2 NO3: 0.6 F: 1.8
Sum Cations: 446.1 Sum Anions: 366.4 Cations/Anions: 1.22 Tot. P: 18.0
Tot. Al: 12.0 Ext. Al: 1.0 Fe: 190.0 Mn: 0.0 SiO2: 1.51

ID: 2C2-025 Name: CHARNLEY LAKE State: WI Date: 07NOV84
Sample Type: REGULAR Latitude: 46-01'15"N Longitude: 90-09'00"W
Elevation: 488 Surface Temp: 3.8 Stratified: MIXED Site Depth: 3.7
Lake Area: 27 Watershed Area: 129 WA/LA: 4.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.0 Turbidity: 0.5 Color: 13
Closed pH: 6.46 Equil. pH: 6.88 ANC: 38.4 DOC: 3.00
Closed DIC: 0.79 Equil. DIC: 0.57 Meas. Cond: 14.3 Cal. Cond: 14.0
Ca: 60.4 Mg: 32.9 Na: 14.8 K: 11.0 NH4: 0.6
SO4: 55.5 HCO3: 37.4 Cl: 10.2 NO3: 0.0 F: 0.9
Sum Cations: 120.1 Sum Anions: 104.0 Cations/Anions: 1.15 Tot. P: 11.5
Tot. Al: 15.5 Ext. Al: 2.0 Fe: 30.0 Mn: 0.0 SiO2: 0.00

ID: 2C2-026 Name: CAP HENRY LAKE State: WI Date: 07NOV84
Sample Type: REGULAR Latitude: 46-00'45"N Longitude: 90-01'15"W
Elevation: 487 Surface Temp: 4.3 Stratified: MIXED Site Depth: 14.6
Lake Area: 17 Watershed Area: 52 WA/LA: 3.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.7 Turbidity: 0.4 Color: 15
Closed pH: 6.12 Equil. pH: 6.81 ANC: 23.8 DOC: 3.10
Closed DIC: 0.76 Equil. DIC: 0.42 Meas. Cond: 14.6 Cal. Cond: 14.8
Ca: 57.9 Mg: 31.3 Na: 6.5 K: 16.1 NH4: 2.8
SO4: 72.7 HCO3: 21.3 Cl: 6.2 NO3: 6.0 F: 1.4
Sum Cations: 115.4 Sum Anions: 107.5 Cations/Anions: 1.07 Tot. P: 13.0
Tot. Al: 17.0 Ext. Al: 3.0 Fe: 30.0 Mn: 10.0 SiO2: 0.00

ID: 2C2-028 Name: LONG INTERLAKEN LAKE State: WI Date: 01NOV84
Sample Type: REGULAR Latitude: 45-57'45"N Longitude: 89-54'00"W
Elevation: 483 Surface Temp: 8.3 Stratified: MIXED Site Depth: 19.2
Lake Area: 144 Watershed Area: 7047 WA/LA: 48.8 Hydro Type: DRAINAGE
Residence Time: 0.68 Secchi Depth: 2.5 Turbidity: 1.2 Color: 10
Closed pH: 7.52 Equil. pH: 8.25 ANC: 584.4 DOC: 2.50
Closed DIC: 7.29 Equil. DIC: 6.55 Meas. Cond: 73.1 Cal. Cond: 75.2
Ca: 433.6 Mg: 190.0 Na: 83.1 K: 15.9 NH4: 1.7
SO4: 57.5 HCO3: 550.6 Cl: 57.3 NO3: 1.1 F: 2.7
Sum Cations: 724.3 Sum Anions: 671.4 Cations/Anions: 1.08 Tot. P: 13.0
Tot. Al: 16.0 Ext. Al: 0.0 Fe: 40.0 Mn: 0.0 SiO2: 4.28

ID: 2C2-029 Name: (NO NAME) State: WI Date: 01NOV84
Sample Type: REGULAR Latitude: 45-56'05"N Longitude: 89-54'55"W
Elevation: 483 Surface Temp: 8.2 Stratified: MIXED Site Depth: 8.8
Lake Area: 5 Watershed Area: 98 WA/LA: 18.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 6.3 Turbidity: 0.2 Color: 15
Closed pH: 6.01 Equil. pH: 6.60 ANC: 17.0 DOC: 2.30
Closed DIC: 0.86 Equil. DIC: 0.36 Meas. Cond: 11.3 Cal. Cond: 11.1
Ca: 42.4 Mg: 24.7 Na: 4.8 K: 13.3 NH4: 1.1
SO4: 51.4 HCO3: 17.9 Cl: 8.2 NO3: 0.6 F: 0.7
Sum Cations: 87.1 Sum Anions: 78.8 Cations/Anions: 1.11 Tot. P: 10.0
Tot. Al: 16.0 Ext. Al: 0.0 Fe: 60.0 Mn: 10.0 SiO2: 0.00

(continued)

TABLE 3-1 (continued)

ID: 2C2-030 Name: KASOMO LAKE State: WI Date: 31OCT84
Sample Type: REGULAR Latitude: 45-57'05"N Longitude: 89-31'50"W
Elevation: 486 Surface Temp: 5.6 Stratified: MIXED Site Depth: 4.3
Lake Area: 9 Watershed Area: 54 WA/LA: 5.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.6 Turbidity: 0.8 Color: 15
Closed pH: 5.02 Equil. pH: 4.97 ANC: 13.0 DOC: 4.10
Closed DIC: 0.26 Equil. DIC: 0.21 Meas. Cond: 14.6 Cal. Cond: 14.2
Ca: 38.9 Mg: 23.0 Na: 7.4 K: 7.4 NH4: 1.7
SO4: 60.2 HCO3: 1.6 Cl: 8.2 NO3: 0.0 F: 0.7
Sum Cations: 90.2 Sum Anions: 70.7 Cations/Anions: 1.28 Tot. P: 16.0
Tot. Al: 39.0 Ext. Al: 24.0 Fe: 20.0 Mn: 30.0 SiO2: 0.12

ID: 2C2-031 Name: MUSKELLUNGE LAKE State: WI Date: 30OCT84
Sample Type: REGULAR Latitude: 45-57'00"N Longitude: 89-22'45"W
Elevation: 494 Surface Temp: 6.7 Stratified: MIXED Site Depth: 4.9
Lake Area: 109 Watershed Area: 394 WA/LA: 3.6 Hydro Type: DRAINAGE
Residence Time: 1.47 Secchi Depth: 1.3 Turbidity: 3.9 Color: 30
Closed pH: 7.55 Equil. pH: 8.22 ANC: 688.0 DOC: 4.80
Closed DIC: 7.84 Equil. DIC: 7.51 Meas. Cond: 72.8 Cal. Cond: 73.0
Ca: 410.7 Mg: 249.2 Na: 77.0 K: 14.3 NH4: 0.6
SO4: 35.0 HCO3: 592.4 Cl: 10.2 NO3: 2.3 F: 2.7
Sum Cations: 751.8 Sum Anions: 644.4 Cations/Anions: 1.17 Tot. P: 36.0
Tot. Al: 10.0 Ext. Al: 0.0 Fe: 100.0 Mn: 0.0 SiO2: 22.60

ID: 2C2-032 Name: BRAGONIER LAKE State: WI Date: 30OCT84
Sample Type: REGULAR Latitude: 45-54'30"N Longitude: 89-24'20"W
Elevation: 492 Surface Temp: 7.8 Stratified: MIXED Site Depth: 5.2
Lake Area: 17 Watershed Area: 73 WA/LA: 4.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.9 Turbidity: 0.7 Color: 40
Closed pH: 6.32 Equil. pH: 7.09 ANC: 54.0 DOC: 4.40
Closed DIC: 1.09 Equil. DIC: 0.71 Meas. Cond: 14.9 Cal. Cond: 14.8
Ca: 58.9 Mg: 37.0 Na: 22.2 K: 7.9 NH4: 2.2
SO4: 55.8 HCO3: 39.8 Cl: 10.2 NO3: 3.5 F: 1.1
Sum Cations: 128.7 Sum Anions: 110.3 Cations/Anions: 1.17 Tot. P: 25.0
Tot. Al: 29.0 Ext. Al: 2.0 Fe: 220.0 Mn: 20.0 SiO2: 1.92

ID: 2C2-033 Name: RAINBOW FLOWAGE (S. END) State: WI Date: 29OCT84
Sample Type: REGULAR Latitude: 45-49'30"N Longitude: 89-29'15"W
Elevation: 486 Surface Temp: 6.5 Stratified: MIXED Site Depth: 0.9
Lake Area: 40 Watershed Area: 3818 WA/LA: 96.4 Hydro Type: DRAINAGE
Residence Time: 0.02 Secchi Depth: 1.1 Turbidity: 3.3 Color: 125
Closed pH: 6.81 Equil. pH: 7.41 ANC: 302.0 DOC: 10.60
Closed DIC: 4.29 Equil. DIC: 2.97 Meas. Cond: 42.9 Cal. Cond: 45.1
Ca: 226.0 Mg: 152.2 Na: 58.3 K: 20.5 NH4: 1.7
SO4: 57.5 HCO3: 241.5 Cl: 45.1 NO3: 0.0 F: 2.7
Sum Cations: 458.8 Sum Anions: 347.1 Cations/Anions: 1.32 Tot. P: 28.0
Tot. Al: 40.0 Ext. Al: 10.0 Fe: 880.0 Mn: 10.0 SiO2: 12.86

ID: 2C2-034 Name: LONG LAKE (NORTH END) State: WI Date: 27OCT84
Sample Type: REGULAR Latitude: 45-47'37"N Longitude: 89-29'35"W
Elevation: 489 Surface Temp: 8.0 Stratified: MIXED Site Depth: 3.5
Lake Area: 18 Watershed Area: 272 WA/LA: 14.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.3 Turbidity: 0.3 Color: 20
Closed pH: 5.61 Equil. pH: 5.93 ANC: 6.0 DOC: 3.80
Closed DIC: 0.67 Equil. DIC: 0.21 Meas. Cond: 11.5 Cal. Cond: 10.8
Ca: 38.4 Mg: 23.0 Na: 5.7 K: 10.2 NH4: 3.3
SO4: 53.5 HCO3: 7.5 Cl: 4.9 NO3: 0.6 F: 0.7
Sum Cations: 83.4 Sum Anions: 67.2 Cations/Anions: 1.24 Tot. P: 7.0
Tot. Al: 25.0 Ext. Al: 7.0 Fe: 40.0 Mn: 20.0 SiO2: 0.05

(continued)

TABLE 3-1 (continued)

ID: 2C2-035 Name: MILL LAKE State: WI Date: 31OCT84
Sample Type: REGULAR Latitude: 45-48'00"N Longitude: 89-19'30"W
Elevation: 504 Surface Temp: 4.9 Stratified: MIXED Site Depth: 2.4
Lake Area: 22 Watershed Area: 293 WA/LA: 13.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.1 Turbidity: 0.9 Color: 40
Closed pH: 5.16 Equil. pH: 5.14 ANC: -8.1 DOC: 4.50
Closed DIC: 0.28 Equil. DIC: 0.17 Meas. Cond: 20.7 Cal. Cond: 21.0
Ca: 49.4 Mg: 29.6 Na: 34.8 K: 14.6 NH4: 1.7
SO4: 81.0 HCO3: 1.5 Cl: 44.3 NO3: 0.0 F: 1.0
Sum Cations: 140.3 Sum Anions: 127.8 Cations/Anions: 1.10 Tot. P: 17.0
Tot. Al: 44.0 Ext. Al: 26.0 Fe: 120.0 Mn: 50.0 SiO2: 0.52

ID: 2C2-036 Name: LITTLE SPIDER LAKE State: WI Date: 29OCT84
Sample Type: REGULAR Latitude: 45-45'40"N Longitude: 89-25'55"W
Elevation: 492 Surface Temp: 7.3 Stratified: MIXED Site Depth: 4.0
Lake Area: 5 Watershed Area: 26 WA/LA: 5.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.4 Turbidity: 24.0 Color: 145
Closed pH: 6.87 Equil. pH: 7.61 ANC: 254.0 DOC: 11.40
Closed DIC: 3.41 Equil. DIC: 2.46 Meas. Cond: 38.0 Cal. Cond: 39.1
Ca: 212.6 Mg: 114.3 Na: 41.3 K: 12.8 NH4: 27.2
SO4: 49.3 HCO3: 217.4 Cl: 13.0 NO3: 8.1 F: 2.2
Sum Cations: 408.3 Sum Anions: 290.3 Cations/Anions: 1.41 Tot. P: 47.0
Tot. Al: 32.0 Ext. Al: 2.0 Fe: 2290.0 Mn: 80.0 SiO2: 11.33

ID: 2C2-037 Name: LOST LAKE State: WI Date: 29OCT84
Sample Type: REGULAR Latitude: 45-45'05"N Longitude: 89-24'40"W
Elevation: 490 Surface Temp: 6.1 Stratified: MIXED Site Depth: 1.3
Lake Area: 21 Watershed Area: 135 WA/LA: 6.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.3 Turbidity: 1.5 Color: 85
Closed pH: 6.83 Equil. pH: 7.27 ANC: 152.0 DOC: 11.80
Closed DIC: 1.73 Equil. DIC: 1.30 Meas. Cond: 35.1 Cal. Cond: 35.2
Ca: 165.2 Mg: 130.8 Na: 53.9 K: 14.1 NH4: 1.7
SO4: 90.4 HCO3: 101.9 Cl: 32.7 NO3: 1.7 F: 1.9
Sum Cations: 365.8 Sum Anions: 228.8 Cations/Anions: 1.60 Tot. P: 15.0
Tot. Al: 37.0 Ext. Al: 10.0 Fe: 310.0 Mn: 10.0 SiO2: 3.32

ID: 2C2-038 Name: LOST LAKE State: WI Date: 31OCT84
Sample Type: REG/SPC/NRC/ Latitude: 45-46'10"N Longitude: 89-19'10"W
Elevation: 490 Surface Temp: 5.3 Stratified: MIXED Site Depth: 4.0
Lake Area: 65 Watershed Area: 347 WA/LA: 5.3 Hydro Type: DRAINAGE
Residence Time: 0.94 Secchi Depth: 1.1 Turbidity: 3.3 Color: 45
Closed pH: 7.65 Equil. pH: 7.98 ANC: 477.0 DOC: 9.30
Closed DIC: 5.25 Equil. DIC: 5.08 Meas. Cond: 79.8 Cal. Cond: 82.3
Ca: 362.3 Mg: 268.2 Na: 121.8 K: 21.5 NH4: 2.2
SO4: 103.7 HCO3: 403.5 Cl: 161.1 NO3: 0.0 F: 2.2
Sum Cations: 776.0 Sum Anions: 671.2 Cations/Anions: 1.16 Tot. P: 27.0
Tot. Al: 19.0 Ext. Al: 0.0 Fe: 260.0 Mn: 20.0 SiO2: 6.69

ID: 2C2-039 Name: BASS LAKE State: WI Date: 29OCT84
Sample Type: REGULAR Latitude: 45-42'55"N Longitude: 89-23'05"W
Elevation: 480 Surface Temp: 7.7 Stratified: MIXED Site Depth: 4.3
Lake Area: 5 Watershed Area: 16 WA/LA: 3.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.6 Turbidity: 0.6 Color: 30
Closed pH: 5.62 Equil. pH: 5.89 ANC: 8.0 DOC: 5.90
Closed DIC: 0.50 Equil. DIC: 0.22 Meas. Cond: 10.9 Cal. Cond: 10.0
Ca: 34.4 Mg: 22.2 Na: 10.4 K: 17.1 NH4: 0.6
SO4: 36.2 HCO3: 5.6 Cl: 10.4 NO3: 0.0 F: 1.2
Sum Cations: 87.5 Sum Anions: 53.4 Cations/Anions: 1.64 Tot. P: 13.0
Tot. Al: 19.0 Ext. Al: 6.0 Fe: 70.0 Mn: 40.0 SiO2: 0.56

(continued)

TABLE 3-1 (continued)

ID: 2C2-040 Name: LAKE MARIE State: WI Date: 01NOV84
Sample Type: REGULAR Latitude: 45-47'20"N Longitude: 89-54'35"W
Elevation: 483 Surface Temp: 5.7 Stratified: MIXED Site Depth: 7.0
Lake Area: 17 Watershed Area: 75 WA/LA: 4.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.1 Turbidity: 1.8 Color: 40
Closed pH: 6.77 Equil. pH: 7.23 ANC: 101.0 DOC: 0.10
Closed DIC: 1.27 Equil. DIC: 0.97 Meas. Cond: 16.3 Cal. Cond: 13.9
Ca: 68.9 Mg: 45.2 Na: 15.2 K: 23.8 NH4: 0.0
SO4: 17.3 HCO3: 61.9 Cl: 7.9 NO3: 0.0 F: 1.3
Sum Cations: 153.4 Sum Anions: 88.4 Cations/Anions: 1.74 Tot. P: 15.0
Tot. Al: 16.0 Ext. Al: 3.0 Fe: 70.0 Mn: 0.0 SiO2: 0.14

ID: 2C2-041 Name: TAYLOR LAKE State: WI Date: 31OCT84
Sample Type: REGULAR Latitude: 45-54'30"N Longitude: 89-12'55"W
Elevation: 497 Surface Temp: 6.8 Stratified: MIXED Site Depth: 6.7
Lake Area: 7 Watershed Area: 34 WA/LA: 5.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.6 Turbidity: 0.5 Color: 10
Closed pH: 6.54 Equil. pH: 6.87 ANC: 41.0 DOC: 2.70
Closed DIC: 0.79 Equil. DIC: 0.65 Meas. Cond: 17.0 Cal. Cond: 17.4
Ca: 56.4 Mg: 36.2 Na: 33.5 K: 15.3 NH4: 2.2
SO4: 64.8 HCO3: 40.5 Cl: 26.0 NO3: 0.1 F: 1.0
Sum Cations: 144.1 Sum Anions: 132.3 Cations/Anions: 1.09 Tot. P: 6.0
Tot. Al: 16.0 Ext. Al: 0.0 Fe: 0.0 Mn: 0.0 SiO2: 0.37

ID: 2C2-042 Name: MUD MINNOW LAKE State: WI Date: 31OCT84
Sample Type: REGULAR Latitude: 45-52'45"N Longitude: 89-15'30"W
Elevation: 498 Surface Temp: 5.7 Stratified: MIXED Site Depth: 6.1
Lake Area: 5 Watershed Area: 44 WA/LA: 8.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.0 Turbidity: 1.6 Color: 115
Closed pH: 6.88 Equil. pH: 7.59 ANC: 292.0 DOC: 8.30
Closed DIC: 4.25 Equil. DIC: 3.26 Meas. Cond: 44.9 Cal. Cond: 46.4
Ca: 221.6 Mg: 162.9 Na: 63.1 K: 15.6 NH4: 7.8
SO4: 86.4 HCO3: 261.5 Cl: 11.8 NO3: 1.5 F: 2.3
Sum Cations: 471.0 Sum Anions: 363.7 Cations/Anions: 1.29 Tot. P: 6.0
Tot. Al: 62.0 Ext. Al: 11.0 Fe: 650.0 Mn: 30.0 SiO2: 12.20

ID: 2C2-043 Name: QUARTZ LAKE State: WI Date: 10OCT84
Sample Type: REGULAR Latitude: 45-56'55"N Longitude: 88-57'30"W
Elevation: 517 Surface Temp: 13.1 Stratified: MIXED Site Depth: 4.3
Lake Area: 18 Watershed Area: 272 WA/LA: 15.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.1 Turbidity: 0.6 Color: 10
Closed pH: 6.42 Equil. pH: 6.58 ANC: 26.0 DOC: 2.40
Closed DIC: 0.61 Equil. DIC: 0.38 Meas. Cond: 10.4 Cal. Cond: 11.1
Ca: 43.4 Mg: 24.7 Na: 10.4 K: 9.2 NH4: 0.6
SO4: 50.4 HCO3: 21.6 Cl: 9.3 NO3: 0.0 F: 0.9
Sum Cations: 88.8 Sum Anions: 82.2 Cations/Anions: 1.08 Tot. P: 13.0
Tot. Al: 11.0 Ext. Al: 3.0 Fe: 0.0 Mn: 0.0 SiO2: 0.33

ID: 2C2-044 Name: FOUR DUCKS LAKE State: WI Date: 10OCT84
Sample Type: REGULAR Latitude: 45-53'40"N Longitude: 88-59'15"W
Elevation: 516 Surface Temp: 12.9 Stratified: MIXED Site Depth: 4.9
Lake Area: 8 Watershed Area: 60 WA/LA: 8.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.8 Turbidity: 0.3 Color: 15
Closed pH: 5.22 Equil. pH: 5.32 ANC: 5.0 DOC: 1.90
Closed DIC: 0.56 Equil. DIC: 0.14 Meas. Cond: 12.7 Cal. Cond: 13.3
Ca: 39.4 Mg: 21.4 Na: 2.6 K: 9.7 NH4: 1.7
SO4: 76.6 HCO3: 2.4 Cl: 5.6 NO3: 1.9 F: 0.6
Sum Cations: 80.5 Sum Anions: 87.1 Cations/Anions: 0.92 Tot. P: 7.0
Tot. Al: 18.0 Ext. Al: 9.0 Fe: 60.0 Mn: 40.0 SiO2: 0.40

(continued)

TABLE 3-1 (continued)

ID: 2C2-045 Name: MUD LAKE State: WI Date: 08OCT84
Sample Type: REGULAR Latitude: 45-31'00"N Longitude: 89-33'28"W
Elevation: 459 Surface Temp: 12.9 Stratified: MIXED Site Depth: 3.4
Lake Area: 4 Watershed Area: 23 WA/LA: 5.6 Hydro Type: DRAINAGE
Residence Time: 0.77 Secchi Depth: 1.6 Turbidity: 3.0 Color: 50
Closed pH: 7.66 Equil. pH: 8.34 ANC: 854.0 DOC: 7.70
Closed DIC: 10.30 Equil. DIC: 9.56 Meas. Cond: 132.0 Cal. Cond: 136.5
Ca: 649.2 Mg: 408.0 Na: 182.3 K: 19.9 NH4: 8.3
SO4: 86.6 HCO3: 785.8 Cl: 221.7 NO3: 81.5 F: 2.3
Sum Cations: 1267.8 Sum Anions: 1181.4 Cations/Anions: 1.07 Tot. P: 21.0
Tot. Al: 7.0 Ext. Al: 0.0 Fe: 700.0 Mn: 0.0 SiO2: 11.92

ID: 2C2-046 Name: GERBICK LAKE State: WI Date: 08OCT84
Sample Type: REGULAR Latitude: 45-27'35"N Longitude: 89-36'05"W
Elevation: 449 Surface Temp: 13.2 Stratified: MIXED Site Depth: 4.2
Lake Area: 14 Watershed Area: 47 WA/LA: 3.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.8 Turbidity: 2.1 Color: 25
Closed pH: 7.09 Equil. pH: 7.36 ANC: 142.0 DOC: 10.10
Closed DIC: 1.89 Equil. DIC: 1.36 Meas. Cond: 25.9 Cal. Cond: 25.6
Ca: 99.3 Mg: 80.6 Na: 30.9 K: 18.2 NH4: 15.5
SO4: 48.3 HCO3: 116.0 Cl: 14.7 NO3: 13.7 F: 4.8
Sum Cations: 244.6 Sum Anions: 197.6 Cations/Anions: 1.24 Tot. P: 42.0
Tot. Al: 19.0 Ext. Al: 3.0 Fe: 30.0 Mn: 0.0 SiO2: 0.05

ID: 2C2-047 Name: HORSESHOE LAKE State: WI Date: 29OCT84
Sample Type: REGULAR Latitude: 45-18'45"N Longitude: 89-37'50"W
Elevation: 465 Surface Temp: 7.9 Stratified: MIXED Site Depth: 11.0
Lake Area: 6 Watershed Area: 31 WA/LA: 5.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.0 Turbidity: 0.7 Color: 25
Closed pH: 6.12 Equil. pH: 7.08 ANC: 52.0 DOC: 5.60
Closed DIC: 1.13 Equil. DIC: 0.56 Meas. Cond: 20.9 Cal. Cond: 21.4
Ca: 74.4 Mg: 54.3 Na: 14.4 K: 31.5 NH4: 2.2
SO4: 98.3 HCO3: 33.2 Cl: 15.0 NO3: 1.0 F: 1.2
Sum Cations: 177.4 Sum Anions: 148.7 Cations/Anions: 1.19 Tot. P: 13.0
Tot. Al: 24.0 Ext. Al: 6.0 Fe: 60.0 Mn: 20.0 SiO2: 0.41

ID: 2C2-048 Name: MIDGET LAKE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 45-30'00"N Longitude: 88-47'40"W
Elevation: 495 Surface Temp: 3.8 Stratified: MIXED Site Depth: 4.3
Lake Area: 6 Watershed Area: 67 WA/LA: 11.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.4 Turbidity: 0.6 Color: 20
Closed pH: 6.90 Equil. pH: 7.13 ANC: 69.3 DOC: 6.60
Closed DIC: 0.81 Equil. DIC: 0.62 Meas. Cond: 14.9 Cal. Cond: 15.8
Ca: 66.9 Mg: 48.5 Na: 9.6 K: 11.5 NH4: 4.8
SO4: 54.8 HCO3: 57.9 Cl: 5.4 NO3: 1.2 F: 0.7
Sum Cations: 141.5 Sum Anions: 120.0 Cations/Anions: 1.18 Tot. P: 7.0
Tot. Al: 4.0 Ext. Al: 3.0 Fe: 0.0 Mn: 10.0 SiO2: 0.16

ID: 2C2-049 Name: LITTLE SAND LAKE State: WI Date: 08NOV84
Sample Type: REGULAR Latitude: 45-28'15"N Longitude: 88-55'15"W
Elevation: 485 Surface Temp: 3.1 Stratified: MIXED Site Depth: 4.6
Lake Area: 97 Watershed Area: 352 WA/LA: 3.6 Hydro Type: DRAINAGE
Residence Time: 1.37 Secchi Depth: 3.4 Turbidity: 0.4 Color: 23
Closed pH: 5.74 Equil. pH: 5.96 ANC: 10.3 DOC: 4.05
Closed DIC: 0.25 Equil. DIC: 0.19 Meas. Cond: 21.9 Cal. Cond: 22.6
Ca: 75.6 Mg: 54.3 Na: 18.5 K: 19.4 NH4: 0.0
SO4: 133.6 HCO3: 7.2 Cl: 12.3 NO3: 0.0 F: 1.3
Sum Cations: 170.2 Sum Anions: 154.4 Cations/Anions: 1.10 Tot. P: 12.5
Tot. Al: 29.0 Ext. Al: 18.5 Fe: 20.0 Mn: 0.0 SiO2: 0.00

(continued)

TABLE 3-1 (continued)

ID: 2C2-050 Name: JUNGLE LAKE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 45-27'15"N Longitude: 88-50'00"W
Elevation: 485 Surface Temp: 2.2 Stratified: MIXED Site Depth: 3.7
Lake Area: 73 Watershed Area: 246 WA/LA: 3.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.7 Turbidity: 1.1 Color: 15
Closed pH: 8.05 Equil. pH: 8.31 ANC: 1096.4 DOC: 7.40
Closed DIC: 12.51 Equil. DIC: 13.19 Meas. Cond: 106.6 Cal. Cond: 120.9
Ca: 584.8 Mg: 463.9 Na: 48.3 K: 13.6 NH4: 4.9
SO4: 50.6 HCO3: 1163.1 Cl: 14.1 NO3: 0.8 F: 2.1
Sum Cations: 1115.6 Sum Anions: 1241.0 Cations/Anions: 0.90 Tot. P: 15.0
Tot. Al: 4.0 Ext. Al: 4.0 Fe: 0.0 Mn: 0.0 SiO2: 0.90

ID: 2C2-051 Name: LOIS LAKE State: MI Date: 04NOV84
Sample Type: REGULAR Latitude: 46-11'52"N Longitude: 89-15'00"W
Elevation: 523 Surface Temp: 3.9 Stratified: MIXED Site Depth: 7.9
Lake Area: 8 Watershed Area: 163 WA/LA: 20.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.8 Turbidity: 0.7 Color: 125
Closed pH: 4.81 Equil. pH: 4.88 ANC: 0.1 DOC: 15.20
Closed DIC: 0.91 Equil. DIC: 0.17 Meas. Cond: 18.2 Cal. Cond: 16.4
Ca: 55.9 Mg: 35.4 Na: 10.0 K: 8.9 NH4: 2.2
SO4: 41.4 HCO3: 1.5 Cl: 8.2 NO3: 0.5 F: 0.7
Sum Cations: 129.0 Sum Anions: 52.3 Cations/Anions: 2.47 Tot. P: 13.0
Tot. Al: 120.4 Ext. Al: 64.0 Fe: 380.0 Mn: 40.0 SiO2: 1.40

ID: 2C2-052 Name: KNIFE LAKE State: WI Date: 09OCT84
Sample Type: REGULAR Latitude: 46-13'25"N Longitude: 89-40'04"W
Elevation: 517 Surface Temp: 12.1 Stratified: STRONG Site Depth: 11.9
Lake Area: 10 Watershed Area: 52 WA/LA: 5.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.9 Turbidity: 0.5 Color: 100
Closed pH: 5.38 Equil. pH: 5.61 ANC: 26.0 DOC: 12.30
Closed DIC: 1.12 Equil. DIC: 0.17 Meas. Cond: 19.2 Cal. Cond: 18.5
Ca: 82.3 Mg: 49.4 Na: 13.9 K: 12.8 NH4: 1.7
SO4: 75.8 HCO3: 5.7 Cl: 14.4 NO3: 2.3 F: 1.0
Sum Cations: 164.5 Sum Anions: 99.1 Cations/Anions: 1.66 Tot. P: 10.0
Tot. Al: 196.0 Ext. Al: 160.0 Fe: 420.0 Mn: 40.0 SiO2: 1.86

ID: 2C2-053 Name: SHALLOW POND State: WI Date: 29OCT84
Sample Type: REGULAR Latitude: 45-46'29"N Longitude: 89-28'39"W
Elevation: 492 Surface Temp: 7.4 Stratified: MIXED Site Depth: 7.0
Lake Area: 11 Watershed Area: 44 WA/LA: 4.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.3 Turbidity: 0.5 Color: 25
Closed pH: 5.40 Equil. pH: 5.59 ANC: 5.5 DOC: 3.80
Closed DIC: 0.55 Equil. DIC: 0.17 Meas. Cond: 11.9 Cal. Cond: 11.8
Ca: 34.9 Mg: 21.8 Na: 5.0 K: 13.3 NH4: 4.7
SO4: 56.1 HCO3: 4.9 Cl: 7.5 NO3: 1.5 F: 0.9
Sum Cations: 84.1 Sum Anions: 70.8 Cations/Anions: 1.19 Tot. P: 9.5
Tot. Al: 22.0 Ext. Al: 8.5 Fe: 45.0 Mn: 30.0 SiO2: 0.19

ID: 2C2-054 Name: PINE LAKE State: WI Date: 01NOV84
Sample Type: REGULAR Latitude: 45-49'29"N Longitude: 89-55'24"W
Elevation: 484 Surface Temp: 6.7 Stratified: MIXED Site Depth: 6.1
Lake Area: 84 Watershed Area: 290 WA/LA: 3.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.5 Turbidity: 0.5 Color: 15
Closed pH: 7.32 Equil. pH: 7.64 ANC: 213.0 DOC: 4.00
Closed DIC: 2.74 Equil. DIC: 2.41 Meas. Cond: 28.2 Cal. Cond: 27.2
Ca: 145.7 Mg: 94.6 Na: 27.4 K: 8.4 NH4: 0.6
SO4: 35.8 HCO3: 174.6 Cl: 8.7 NO3: 0.5 F: 1.5
Sum Cations: 276.8 Sum Anions: 221.4 Cations/Anions: 1.25 Tot. P: 12.0
Tot. Al: 36.0 Ext. Al: 0.0 Fe: 10.0 Mn: 0.0 SiO2: 0.02

(continued)

TABLE 3-1 (continued)

ID: 2C2-055 Name: SPRUCE LAKE State: WI Date: 09OCT84
Sample Type: REGULAR Latitude: 46-03'12"N Longitude: 89-34'00"W
Elevation: 507 Surface Temp: 12.7 Stratified: MIXED Site Depth: 4.0
Lake Area: 7 Watershed Area: 148 WA/LA: 22.1 Hydro Type: DRAINAGE
Residence Time: 0.30 Secchi Depth: 3.1 Turbidity: 0.3 Color: 35
Closed pH: 5.41 Equil. pH: 5.55 ANC: 7.0 DOC: 4.20
Closed DIC: 0.55 Equil. DIC: 0.21 Meas. Cond: 9.9 Cal. Cond: 9.1
Ca: 36.4 Mg: 18.9 Na: 5.2 K: 5.9 NH4: 0.6
SO4: 41.2 HCO3: 4.2 Cl: 5.9 NO3: 0.0 F: 0.9
Sum Cations: 70.4 Sum Anions: 52.3 Cations/Anions: 1.35 Tot. P: 2.0
Tot. Al: 23.0 Ext. Al: 19.0 Fe: 140.0 Mn: 10.0 SiO2: 0.12

ID: 2C2-056 Name: CRAWFORD LAKE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 45-25'53"N Longitude: 88-51'26"W
Elevation: 483 Surface Temp: 4.8 Stratified: MIXED Site Depth: 5.2
Lake Area: 9 Watershed Area: 80 WA/LA: 8.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.5 Turbidity: 1.2 Color: 20
Closed pH: 6.52 Equil. pH: 7.03 ANC: 76.9 DOC: 5.40
Closed DIC: 1.23 Equil. DIC: 0.71 Meas. Cond: 11.8 Cal. Cond: 14.0
Ca: 64.4 Mg: 38.7 Na: 5.2 K: 23.8 NH4: 6.8
SO4: 34.6 HCO3: 50.3 Cl: 4.8 NO3: 0.8 F: 0.8
Sum Cations: 139.1 Sum Anions: 91.3 Cations/Anions: 1.52 Tot. P: 10.0
Tot. Al: 16.0 Ext. Al: 5.0 Fe: 0.0 Mn: 0.0 SiO2: 0.29

ID: 2C2-057 Name: DEVILS HEAD LAKE State: MI Date: 04NOV84
Sample Type: REGULAR Latitude: 46-12'55"N Longitude: 89-14'30"W
Elevation: 525 Surface Temp: 5.0 Stratified: MIXED Site Depth: 13.4
Lake Area: 40 Watershed Area: 249 WA/LA: 6.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.5 Turbidity: 0.3 Color: 20
Closed pH: 5.72 Equil. pH: 6.07 ANC: 11.0 DOC: 3.60
Closed DIC: 0.49 Equil. DIC: 0.21 Meas. Cond: 18.8 Cal. Cond: 19.9
Ca: 71.9 Mg: 43.6 Na: 15.7 K: 13.0 NH4: 0.6
SO4: 107.4 HCO3: 8.3 Cl: 24.3 NO3: 0.7 F: 0.6
Sum Cations: 146.5 Sum Anions: 141.3 Cations/Anions: 1.04 Tot. P: 9.0
Tot. Al: 41.0 Ext. Al: 12.0 Fe: 50.0 Mn: 0.0 SiO2: 0.12

ID: 2C2-058 Name: LAKE CLARA State: WI Date: 08OCT84
Sample Type: REG/SPC/LTM/ Latitude: 45-30'44"N Longitude: 89-34'15"W
Elevation: 462 Surface Temp: 14.0 Stratified: MIXED Site Depth: 10.1
Lake Area: 34 Watershed Area: 111 WA/LA: 3.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 5.3 Turbidity: 0.7 Color: 15
Closed pH: 6.46 Equil. pH: 6.77 ANC: 36.0 DOC: 3.60
Closed DIC: 0.84 Equil. DIC: 0.43 Meas. Cond: 32.7 Cal. Cond: 33.0
Ca: 85.3 Mg: 49.4 Na: 100.9 K: 19.4 NH4: 0.6
SO4: 101.8 HCO3: 29.7 Cl: 114.3 NO3: 5.7 F: 1.9
Sum Cations: 256.0 Sum Anions: 253.4 Cations/Anions: 1.01 Tot. P: 6.0
Tot. Al: 6.0 Ext. Al: 0.0 Fe: 40.0 Mn: 0.0 SiO2: 0.02

ID: 2C2-060 Name: STEWART LAKE State: WI Date: 30OCT84
Sample Type: REGULAR Latitude: 46-00'55"N Longitude: 89-23'53"W
Elevation: 509 Surface Temp: 7.0 Stratified: MIXED Site Depth: 4.0
Lake Area: 16 Watershed Area: 47 WA/LA: 2.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.4 Turbidity: 0.7 Color: 20
Closed pH: 6.37 Equil. pH: 6.62 ANC: 28.0 DOC: 3.90
Closed DIC: 0.41 Equil. DIC: 0.45 Meas. Cond: 13.9 Cal. Cond: 14.4
Ca: 50.4 Mg: 35.4 Na: 17.0 K: 7.7 NH4: 0.6
SO4: 78.3 HCO3: 14.5 Cl: 6.2 NO3: 3.7 F: 1.2
Sum Cations: 111.9 Sum Anions: 103.9 Cations/Anions: 1.08 Tot. P: 17.0
Tot. Al: 16.0 Ext. Al: 1.0 Fe: 10.0 Mn: 0.0 SiO2: 0.42

(continued)

TABLE 3-1 (continued)

ID: 2C3-001 Name: LAKE GOGEBIC State: MI Date: 04NOV84
Sample Type: REGULAR Latitude: 46-30'00"N Longitude: 89-35'00"W
Elevation: 395 Surface Temp: 4.9 Stratified: MIXED Site Depth: 7.9
Lake Area: 5015 Watershed Area: 42093 WA/LA: 8.4 Hydro Type: DRAINAGE
Residence Time: 0.99 Secchi Depth: 2.0 Turbidity: 1.4 Color: 40
Closed pH: 7.58 Equil. pH: 7.92 ANC: 421.0 DOC: 8.60
Closed DIC: 4.89 Equil. DIC: 4.57 Meas. Cond: 61.7 Cal. Cond: 63.2
Ca: 370.3 Mg: 182.6 Na: 66.1 K: 13.6 NH4: 0.0
SO4: 96.4 HCO3: 354.1 Cl: 45.1 NO3: 0.0 F: 2.8
Sum Cations: 632.6 Sum Anions: 499.4 Cations/Anions: 1.27 Tot. P: 10.0
Tot. Al: 44.0 Ext. Al: 2.0 Fe: 40.0 Mn: 0.0 SiO2: 0.40

ID: 2C3-002 Name: HAWK LAKE State: MI Date: 06NOV84
Sample Type: REGULAR Latitude: 46-19'10"N Longitude: 89-44'15"W
Elevation: 474 Surface Temp: 1.7 Stratified: MIXED Site Depth: 1.8
Lake Area: 27 Watershed Area: 65 WA/LA: 2.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.0 Turbidity: 1.0 Color: 15
Closed pH: 7.63 Equil. pH: 7.90 ANC: 486.1 DOC: 5.70
Closed DIC: 5.71 Equil. DIC: 6.14 Meas. Cond: 48.3 Cal. Cond: 55.6
Ca: 387.2 Mg: 124.2 Na: 32.2 K: 12.0 NH4: 2.7
SO4: 30.8 HCO3: 457.7 Cl: 2.8 NO3: 0.0 F: 1.8
Sum Cations: 558.4 Sum Anions: 494.5 Cations/Anions: 1.13 Tot. P: 26.0
Tot. Al: 6.0 Ext. Al: 3.0 Fe: 50.0 Mn: 10.0 SiO2: 1.95

ID: 2C3-003 Name: PAINT LAKE State: MI Date: 03NOV84
Sample Type: REGULAR Latitude: 46-21'00"N Longitude: 88-53'15"W
Elevation: 486 Surface Temp: 3.4 Stratified: MIXED Site Depth: 5.5
Lake Area: 97 Watershed Area: 2088 WA/LA: 21.6 Hydro Type: DRAINAGE
Residence Time: 0.38 Secchi Depth: 1.3 Turbidity: 4.1 Color: 30
Closed pH: 7.69 Equil. pH: 8.46 ANC: 1023.0 DOC: 4.80
Closed DIC: 11.73 Equil. DIC: 11.64 Meas. Cond: 100.9 Cal. Cond: 107.8
Ca: 674.6 Mg: 313.4 Na: 51.3 K: 14.3 NH4: 1.7
SO4: 55.8 HCO3: 930.2 Cl: 12.1 NO3: 1.1 F: 2.1
Sum Cations: 1055.4 Sum Anions: 1005.5 Cations/Anions: 1.05 Tot. P: 27.0
Tot. Al: 12.0 Ext. Al: 0.0 Fe: 70.0 Mn: 10.0 SiO2: 5.87

ID: 2C3-004 Name: BASS LAKE State: WI Date: 06NOV84
Sample Type: REGULAR Latitude: 46-17'10"N Longitude: 90-02'45"W
Elevation: 510 Surface Temp: 3.1 Stratified: MIXED Site Depth: 3.0
Lake Area: 6 Watershed Area: 54 WA/LA: 9.1 Hydro Type: DRAINAGE
Residence Time: 0.47 Secchi Depth: 0.4 Turbidity: 0.7 Color: 130
Closed pH: 5.06 Equil. pH: 5.11 ANC: 23.8 DOC: 17.00
Closed DIC: 0.83 Equil. DIC: 0.16 Meas. Cond: 20.9 Cal. Cond: 19.1
Ca: 77.3 Mg: 53.5 Na: 19.1 K: 6.4 NH4: 9.4
SO4: 73.9 HCO3: 2.9 Cl: 5.9 NO3: 2.0 F: 1.2
Sum Cations: 173.8 Sum Anions: 86.0 Cations/Anions: 2.02 Tot. P: 9.0
Tot. Al: 262.0 Ext. Al: 120.0 Fe: 470.0 Mn: 30.0 SiO2: 4.42

ID: 2C3-005 Name: BENA LAKE State: WI Date: 06NOV84
Sample Type: REGULAR Latitude: 46-17'30"N Longitude: 89-53'55"W
Elevation: 500 Surface Temp: 2.6 Stratified: MIXED Site Depth: 3.4
Lake Area: 5 Watershed Area: 34 WA/LA: 6.8 Hydro Type: DRAINAGE
Residence Time: 0.67 Secchi Depth: 1.7 Turbidity: 1.1 Color: 120
Closed pH: 7.03 Equil. pH: 7.74 ANC: 326.1 DOC: 12.70
Closed DIC: 3.88 Equil. DIC: 3.19 Meas. Cond: 41.3 Cal. Cond: 43.1
Ca: 235.5 Mg: 123.4 Na: 67.9 K: 17.9 NH4: 8.8
SO4: 32.9 HCO3: 240.2 Cl: 47.1 NO3: 1.8 F: 1.9
Sum Cations: 453.6 Sum Anions: 324.3 Cations/Anions: 1.40 Tot. P: 25.0
Tot. Al: 69.0 Ext. Al: 18.0 Fe: 460.0 Mn: 10.0 SiO2: 4.06

(continued)

TABLE 3-1 (continued)

ID: 2C3-006 Name: CORNELIA LAKE State: MI Date: 04NOV84
Sample Type: REGULAR Latitude: 46-16'05"N Longitude: 89-30'10"W
Elevation: 516 Surface Temp: 3.7 Stratified: MIXED Site Depth: 7.0
Lake Area: 6 Watershed Area: 28 WA/LA: 4.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.5 Turbidity: 0.4 Color: 45
Closed pH: 6.05 Equil. pH: 6.59 ANC: 37.0 DOC: 5.90
Closed DIC: 0.70 Equil. DIC: 0.29 Meas. Cond: 16.1 Cal. Cond: 15.5
Ca: 69.4 Mg: 42.0 Na: 14.4 K: 10.0 NH4: 4.4
SO4: 72.0 HCO3: 17.3 Cl: 4.5 NO3: 1.8 F: 0.6
Sum Cations: 141.0 Sum Anions: 96.3 Cations/Anions: 1.46 Tot. P: 13.0
Tot. Al: 66.0 Ext. Al: 19.0 Fe: 110.0 Mn: 10.0 SiO2: 0.43

ID: 2C3-007 Name: KETCHUM LAKE State: MI Date: 03NOV84
Sample Type: REGULAR Latitude: 46-16'10"N Longitude: 88-49'50"W
Elevation: 471 Surface Temp: 0.7 Stratified: MIXED Site Depth: 3.0
Lake Area: 6 Watershed Area: 852 WA/LA: 133.1 Hydro Type: DRAINAGE
Residence Time: 0.04 Secchi Depth: 1.3 Turbidity: 1.8 Color: 115
Closed pH: 6.99 Equil. pH: 7.95 ANC: 368.0 DOC: 16.40
Closed DIC: 4.20 Equil. DIC: 3.98 Meas. Cond: 49.1 Cal. Cond: 49.9
Ca: 302.9 Mg: 175.2 Na: 42.2 K: 14.6 NH4: 1.7
SO4: 60.8 HCO3: 281.8 Cl: 20.0 NO3: 2.3 F: 1.9
Sum Cations: 536.6 Sum Anions: 367.1 Cations/Anions: 1.46 Tot. P: 19.0
Tot. Al: 68.0 Ext. Al: 17.0 Fe: 330.0 Mn: 20.0 SiO2: 7.81

ID: 2C3-008 Name: CEDAR LAKE State: WI Date: 06NOV84
Sample Type: REGULAR Latitude: 46-12'30"N Longitude: 89-57'15"W
Elevation: 491 Surface Temp: 1.8 Stratified: MIXED Site Depth: 5.8
Lake Area: 75 Watershed Area: 7630 WA/LA: 102.1 Hydro Type: DRAINAGE
Residence Time: 0.10 Secchi Depth: 1.6 Turbidity: 1.9 Color: 50
Closed pH: 7.53 Equil. pH: 8.18 ANC: 784.2 DOC: 8.20
Closed DIC: 9.13 Equil. DIC: 9.00 Meas. Cond: 80.9 Cal. Cond: 92.2
Ca: 558.9 Mg: 239.4 Na: 77.4 K: 17.6 NH4: 2.2
SO4: 62.3 HCO3: 746.8 Cl: 28.5 NO3: 1.0 F: 3.1
Sum Cations: 895.5 Sum Anions: 845.8 Cations/Anions: 1.06 Tot. P: 19.0
Tot. Al: 16.0 Ext. Al: 3.0 Fe: 120.0 Mn: 10.0 SiO2: 4.34

ID: 2C3-009 Name: PRESQUE ISLE LAKE State: WI Date: 06NOV84
Sample Type: REGULAR Latitude: 46-13'30"N Longitude: 89-47'00"W
Elevation: 497 Surface Temp: 6.1 Stratified: MIXED Site Depth: 22.6
Lake Area: 433 Watershed Area: 1645 WA/LA: 3.8 Hydro Type: DRAINAGE
Residence Time: 6.57 Secchi Depth: 4.6 Turbidity: 0.4 Color: 10
Closed pH: 8.02 Equil. pH: 8.40 ANC: 1168.2 DOC: 3.50
Closed DIC: 13.53 Equil. DIC: 14.39 Meas. Cond: 119.4 Cal. Cond: 136.5
Ca: 794.4 Mg: 338.1 Na: 75.3 K: 18.9 NH4: 1.1
SO4: 62.5 HCO3: 1283.3 Cl: 38.4 NO3: 0.0 F: 3.3
Sum Cations: 1227.7 Sum Anions: 1400.0 Cations/Anions: 0.88 Tot. P: 5.0
Tot. Al: 4.0 Ext. Al: 4.0 Fe: 20.0 Mn: 40.0 SiO2: 9.77

ID: 2C3-010 Name: MOCCASIN LAKE State: MI Date: 04NOV84
Sample Type: REGULAR Latitude: 46-14'06"N Longitude: 89-30'45"W
Elevation: 505 Surface Temp: 4.2 Stratified: MIXED Site Depth: 8.8
Lake Area: 6 Watershed Area: 124 WA/LA: 19.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.1 Turbidity: 2.3 Color: 78
Closed pH: 7.06 Equil. pH: 7.93 ANC: 359.5 DOC: 10.15
Closed DIC: 4.85 Equil. DIC: 3.89 Meas. Cond: 44.9 Cal. Cond: 45.3
Ca: 286.7 Mg: 140.3 Na: 34.6 K: 16.2 NH4: 5.0
SO4: 33.2 HCO3: 315.7 Cl: 8.6 NO3: 0.8 F: 1.6
Sum Cations: 482.8 Sum Anions: 360.3 Cations/Anions: 1.34 Tot. P: 22.0
Tot. Al: 59.0 Ext. Al: 1.5 Fe: 175.0 Mn: 0.0 SiO2: 3.24

(continued)

TABLE 3-1 (continued)

ID: 2C3-011 Name: GUIDES LAKE State: MI Date: 04NOV84
Sample Type: REGULAR Latitude: 46-14'20"N Longitude: 89-27'40"W
Elevation: 514 Surface Temp: 3.0 Stratified: MIXED Site Depth: 8.8
Lake Area: 10 Watershed Area: 54 WA/LA: 5.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.2 Turbidity: 0.9 Color: 115
Closed pH: 6.23 Equil. pH: 7.12 ANC: 82.0 DOC: 10.50
Closed DIC: 1.51 Equil. DIC: 0.62 Meas. Cond: 20.7 Cal. Cond: 19.3
Ca: 90.8 Mg: 55.9 Na: 20.0 K: 23.0 NH4: 9.4
SO4: 53.5 HCO3: 48.6 Cl: 9.3 NO3: 2.3 F: 1.0
Sum Cations: 199.8 Sum Anions: 114.7 Cations/Anions: 1.74 Tot. P: 20.0
Tot. Al: 173.0 Ext. Al: 50.0 Fe: 400.0 Mn: 40.0 SiO2: 0.96

ID: 2C3-012 Name: CROOKED LAKE State: MI Date: 04NOV84
Sample Type: REGULAR Latitude: 46-13'53"N Longitude: 89-17'17"W
Elevation: 519 Surface Temp: 5.8 Stratified: MIXED Site Depth: 18.3
Lake Area: 250 Watershed Area: 1554 WA/LA: 6.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.2 Turbidity: 0.6 Color: 20
Closed pH: 7.59 Equil. pH: 8.46 ANC: 1082.4 DOC: 3.30
Closed DIC: 13.02 Equil. DIC: 12.21 Meas. Cond: 108.5 Cal. Cond: 116.4
Ca: 734.0 Mg: 319.2 Na: 60.9 K: 19.2 NH4: 7.2
SO4: 57.9 HCO3: 1007.2 Cl: 10.4 NO3: 0.3 F: 3.7
Sum Cations: 1140.5 Sum Anions: 1084.1 Cations/Anions: 1.05 Tot. P: 27.0
Tot. Al: 5.0 Ext. Al: 1.0 Fe: 80.0 Mn: 160.0 SiO2: 5.32

ID: 2C3-013 Name: FEELY LAKE State: WI Date: 07NOV84
Sample Type: REGULAR Latitude: 46-10'00"N Longitude: 90-07'10"W
Elevation: 484 Surface Temp: 5.2 Stratified: MIXED Site Depth: 10.1
Lake Area: 8 Watershed Area: 28 WA/LA: 3.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.7 Turbidity: 0.6 Color: 20
Closed pH: 6.21 Equil. pH: 6.92 ANC: 41.7 DOC: 2.20
Closed DIC: 1.12 Equil. DIC: 0.54 Meas. Cond: 12.8 Cal. Cond: 12.3
Ca: 47.9 Mg: 25.5 Na: 7.0 K: 17.9 NH4: 1.1
SO4: 50.4 HCO3: 30.5 Cl: 9.3 NO3: 0.3 F: 0.6
Sum Cations: 100.0 Sum Anions: 91.1 Cations/Anions: 1.10 Tot. P: 20.0
Tot. Al: 15.0 Ext. Al: 1.0 Fe: 10.0 Mn: 20.0 SiO2: 0.00

ID: 2C3-014 Name: TURTLE FLAMBEAU FLOWAGE State: WI Date: 07NOV84
Sample Type: REGULAR Latitude: 46-05'00"N Longitude: 90-12'00"W
Elevation: 479 Surface Temp: 1.0 Stratified: MIXED Site Depth: 2.4
Lake Area: 5263 Watershed Area: 169319 WA/LA: 32.2 Hydro Type: DRAINAGE
Residence Time: 0.13 Secchi Depth: 1.4 Turbidity: 2.7 Color: 40
Closed pH: 7.59 Equil. pH: 8.18 ANC: 599.8 DOC: 6.10
Closed DIC: 7.12 Equil. DIC: 7.08 Meas. Cond: 71.2 Cal. Cond: 76.1
Ca: 428.1 Mg: 209.8 Na: 67.0 K: 16.1 NH4: 3.3
SO4: 57.9 HCO3: 556.0 Cl: 59.2 NO3: 7.1 F: 2.8
Sum Cations: 724.4 Sum Anions: 685.1 Cations/Anions: 1.06 Tot. P: 16.0
Tot. Al: 70.0 Ext. Al: 1.0 Fe: 250.0 Mn: 10.0 SiO2: 3.92

ID: 2C3-015 Name: HIAWATHA LAKE State: WI Date: 06NOV84
Sample Type: REGULAR Latitude: 46-11'20"N Longitude: 89-49'50"W
Elevation: 499 Surface Temp: 5.0 Stratified: MIXED Site Depth: 17.4
Lake Area: 15 Watershed Area: 246 WA/LA: 17.0 Hydro Type: DRAINAGE
Residence Time: 1.63 Secchi Depth: 1.7 Turbidity: 1.1 Color: 115
Closed pH: 6.98 Equil. pH: 7.67 ANC: 407.4 DOC: 12.50
Closed DIC: 5.11 Equil. DIC: 4.18 Meas. Cond: 49.1 Cal. Cond: 53.9
Ca: 344.8 Mg: 153.8 Na: 35.2 K: 14.6 NH4: 1.6
SO4: 84.1 HCO3: 319.0 Cl: 12.4 NO3: 3.4 F: 1.7
Sum Cations: 550.1 Sum Anions: 421.3 Cations/Anions: 1.31 Tot. P: 5.0
Tot. Al: 75.0 Ext. Al: 21.0 Fe: 240.0 Mn: 20.0 SiO2: 6.69

(continued)

TABLE 3-1 (continued)

ID: 2C3-016 Name: ERWIN LAKE State: WI Date: 04NOV84
Sample Type: REGULAR Latitude: 46-09'50"N Longitude: 89-26'55"W
Elevation: 518 Surface Temp: 3.1 Stratified: MIXED Site Depth: 6.1
Lake Area: 6 Watershed Area: 62 WA/LA: 10.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.1 Turbidity: 0.6 Color: 25
Closed pH: 5.91 Equil. pH: 6.20 ANC: 16.0 DOC: 4.30
Closed DIC: 0.50 Equil. DIC: 0.22 Meas. Cond: 8.9 Cal. Cond: 8.2
Ca: 34.9 Mg: 22.2 Na: 5.2 K: 9.7 NH4: 0.0
SO4: 33.3 HCO3: 9.5 Cl: 4.5 NO3: 0.0 F: 0.5
Sum Cations: 73.5 Sum Anions: 47.9 Cations/Anions: 1.53 Tot. P: 15.0
Tot. Al: 22.0 Ext. Al: 6.0 Fe: 40.0 Mn: 10.0 SiO2: 0.17

ID: 2C3-018 Name: BIG GIBSON LAKE State: WI Date: 06NOV84
Sample Type: REGULAR Latitude: 46-08'15"N Longitude: 89-33'15"W
Elevation: 500 Surface Temp: 1.3 Stratified: MIXED Site Depth: 4.3
Lake Area: 49 Watershed Area: 205 WA/LA: 4.2 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 2.4 Turbidity: 0.8 Color: 30
Closed pH: 7.00 Equil. pH: 7.05 ANC: 155.1 DOC: 8.00
Closed DIC: 1.82 Equil. DIC: 1.39 Meas. Cond: 19.7 Cal. Cond: 21.7
Ca: 122.8 Mg: 65.8 Na: 24.8 K: 8.7 NH4: 3.3
SO4: 38.3 HCO3: 115.9 Cl: 5.9 NO3: 0.3 F: 1.5
Sum Cations: 225.4 Sum Anions: 162.0 Cations/Anions: 1.39 Tot. P: 8.0
Tot. Al: 13.0 Ext. Al: 4.0 Fe: 40.0 Mn: 0.0 SiO2: 0.46

ID: 2C3-020 Name: BOLIN LAKE State: WI Date: 06NOV84
Sample Type: REGULAR Latitude: 46-05'07"N Longitude: 89-51'05"W
Elevation: 490 Surface Temp: 2.3 Stratified: MIXED Site Depth: 12.2
Lake Area: 27 Watershed Area: 303 WA/LA: 11.2 Hydro Type: DRAINAGE
Residence Time: 1.63 Secchi Depth: 2.3 Turbidity: 0.9 Color: 40
Closed pH: 6.74 Equil. pH: 7.11 ANC: 89.5 DOC: 6.50
Closed DIC: 1.04 Equil. DIC: 0.74 Meas. Cond: 18.3 Cal. Cond: 18.1
Ca: 101.3 Mg: 48.5 Na: 16.1 K: 11.5 NH4: 4.9
SO4: 53.9 HCO3: 52.7 Cl: 7.6 NO3: 1.0 F: 1.1
Sum Cations: 182.6 Sum Anions: 116.4 Cations/Anions: 1.57 Tot. P: 8.0
Tot. Al: 16.0 Ext. Al: 4.0 Fe: 230.0 Mn: 0.0 SiO2: 0.25

ID: 2C3-021 Name: LAKE LAURA State: WI Date: 09OCT84
Sample Type: REGULAR Latitude: 46-03'30"N Longitude: 89-26'15"W
Elevation: 520 Surface Temp: 12.9 Stratified: MIXED Site Depth: 11.0
Lake Area: 255 Watershed Area: 531 WA/LA: 2.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.7 Turbidity: 0.5 Color: 5
Closed pH: 7.66 Equil. pH: 8.07 ANC: 502.0 DOC: 2.30
Closed DIC: 6.05 Equil. DIC: 5.30 Meas. Cond: 57.3 Cal. Cond: 59.4
Ca: 326.8 Mg: 181.0 Na: 39.6 K: 13.0 NH4: 0.6
SO4: 71.8 HCO3: 454.3 Cl: 8.7 NO3: 6.4 F: 2.3
Sum Cations: 561.0 Sum Anions: 545.8 Cations/Anions: 1.03 Tot. P: 2.0
Tot. Al: 5.0 Ext. Al: 1.0 Fe: 10.0 Mn: 0.0 SiO2: 0.28

ID: 2C3-022 Name: BASS LAKE State: MI Date: 25OCT84
Sample Type: REGULAR Latitude: 46-02'45"N Longitude: 88-46'15"W
Elevation: 473 Surface Temp: 7.1 Stratified: MIXED Site Depth: 2.7
Lake Area: 40 Watershed Area: 666 WA/LA: 16.6 Hydro Type: DRAINAGE
Residence Time: 0.26 Secchi Depth: 1.3 Turbidity: 1.0 Color: 45
Closed pH: 7.08 Equil. pH: 7.76 ANC: 298.6 DOC: 7.69
Closed DIC: 3.31 Equil. DIC: 3.05 Meas. Cond: 37.2 Cal. Cond: 44.7
Ca: 208.6 Mg: 148.1 Na: 62.6 K: 14.1 NH4: 6.1
SO4: 58.3 HCO3: 244.5 Cl: 41.8 NO3: 13.9 F: 1.4
Sum Cations: 439.5 Sum Anions: 360.2 Cations/Anions: 1.22 Tot. P: 17.0
Tot. Al: 37.0 Ext. Al: 5.0 Fe: 60.0 Mn: 10.0 SiO2: 4.81

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TABLE 3-1 (continued)

ID: 2C3-024 Name: COCHRAM LAKE State: WI Date: 07NOV84
Sample Type: REGULAR Latitude: 45-57'52"N Longitude: 90-06'30"W
Elevation: 480 Surface Temp: 2.9 Stratified: MIXED Site Depth: 3.7
Lake Area: 45 Watershed Area: 104 WA/LA: 2.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.4 Turbidity: 0.3 Color: 15
Closed pH: 7.65 Equil. pH: 8.15 ANC: 482.8 DOC: 3.90
Closed DIC: 5.75 Equil. DIC: 5.46 Meas. Cond: 52.5 Cal. Cond: 54.3
Ca: 297.9 Mg: 182.6 Na: 38.3 K: 6.9 NH4: 0.6
SO4: 49.1 HCO3: 438.5 Cl: 7.6 NO3: 3.1 F: 1.8
Sum Cations: 526.3 Sum Anions: 501.5 Cations/Anions: 1.05 Tot. P: 8.0
Tot. Al: 10.0 Ext. Al: 2.0 Fe: 10.0 Mn: 0.0 SiO2: 0.06

ID: 2C3-025 Name: MIDDLE SUGARBUSH LAKE State: WI Date: 07NOV84
Sample Type: REGULAR Latitude: 46-01'35"N Longitude: 89-53'45"W
Elevation: 487 Surface Temp: 4.3 Stratified: MIXED Site Depth: 15.2
Lake Area: 104 Watershed Area: 627 WA/LA: 6.0 Hydro Type: DRAINAGE
Residence Time: 3.26 Secchi Depth: 3.8 Turbidity: 0.8 Color: 25
Closed pH: 7.75 Equil. pH: 8.46 ANC: 1069.0 DOC: 5.00
Closed DIC: 12.54 Equil. DIC: 12.69 Meas. Cond: 109.4 Cal. Cond: 116.4
Ca: 727.5 Mg: 306.0 Na: 67.9 K: 23.5 NH4: 3.9
SO4: 52.9 HCO3: 1009.2 Cl: 21.7 NO3: 0.9 F: 3.6
Sum Cations: 1128.8 Sum Anions: 1095.2 Cations/Anions: 1.03 Tot. P: 11.0
Tot. Al: 9.0 Ext. Al: 1.0 Fe: 220.0 Mn: 120.0 SiO2: 0.05

ID: 2C3-026 Name: ROACH LAKE State: WI Date: 30OCT84
Sample Type: REGULAR Latitude: 45-57'37"N Longitude: 89-37'15"W
Elevation: 499 Surface Temp: 9.6 Stratified: MIXED Site Depth: 14.0
Lake Area: 19 Watershed Area: 62 WA/LA: 3.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.8 Turbidity: 0.6 Color: 15
Closed pH: 6.78 Equil. pH: 7.22 ANC: 102.0 DOC: 2.40
Closed DIC: 1.60 Equil. DIC: 1.30 Meas. Cond: 18.6 Cal. Cond: 19.0
Ca: 91.8 Mg: 46.9 Na: 14.4 K: 10.2 NH4: 1.7
SO4: 57.7 HCO3: 94.9 Cl: 7.1 NO3: 0.0 F: 0.9
Sum Cations: 165.1 Sum Anions: 160.6 Cations/Anions: 1.03 Tot. P: 14.0
Tot. Al: 10.0 Ext. Al: 1.0 Fe: 10.0 Mn: 0.0 SiO2: 0.00

ID: 2C3-027 Name: SPIRIT LAKE State: WI Date: 31OCT84
Sample Type: REGULAR Latitude: 45-58'00"N Longitude: 89-12'00"W
Elevation: 504 Surface Temp: 6.5 Stratified: MIXED Site Depth: 7.0
Lake Area: 30 Watershed Area: 88 WA/LA: 3.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.6 Turbidity: 0.9 Color: 15
Closed pH: 6.15 Equil. pH: 6.39 ANC: 21.0 DOC: 3.30
Closed DIC: 0.46 Equil. DIC: 0.36 Meas. Cond: 14.8 Cal. Cond: 15.3
Ca: 34.9 Mg: 31.3 Na: 27.0 K: 23.0 NH4: 2.2
SO4: 57.0 HCO3: 14.0 Cl: 35.8 NO3: 0.0 F: 1.0
Sum Cations: 119.6 Sum Anions: 107.9 Cations/Anions: 1.11 Tot. P: 18.0
Tot. Al: 27.0 Ext. Al: 2.0 Fe: 10.0 Mn: 10.0 SiO2: 0.07

ID: 2C3-029 Name: GUNLOCK LAKE State: WI Date: 07NOV84
Sample Type: REGULAR Latitude: 45-54'50"N Longitude: 89-49'15"W
Elevation: 480 Surface Temp: 3.2 Stratified: MIXED Site Depth: 4.9
Lake Area: 106 Watershed Area: 347 WA/LA: 3.3 Hydro Type: DRAINAGE
Residence Time: 1.55 Secchi Depth: 2.8 Turbidity: 1.7 Color: 20
Closed pH: 7.58 Equil. pH: 8.33 ANC: 783.5 DOC: 4.00
Closed DIC: 9.31 Equil. DIC: 9.12 Meas. Cond: 87.8 Cal. Cond: 92.7
Ca: 564.4 Mg: 224.6 Na: 81.8 K: 15.1 NH4: 1.7
SO4: 51.4 HCO3: 736.3 Cl: 56.4 NO3: 4.9 F: 2.8
Sum Cations: 887.5 Sum Anions: 855.2 Cations/Anions: 1.04 Tot. P: 24.0
Tot. Al: 9.0 Ext. Al: 1.0 Fe: 40.0 Mn: 10.0 SiO2: 11.60

(continued)

TABLE 3-1 (continued)

ID: 2C3-030 Name: LITTLE ST GERMAIN LAKE State: WI Date: 31OCT84
Sample Type: REGULAR Latitude: 45-55'35"N Longitude: 89-27'00"W
Elevation: 492 Surface Temp: 8.0 Stratified: MIXED Site Depth: 15.8
Lake Area: 395 Watershed Area: 3429 WA/LA: 8.7 Hydro Type: DRAINAGE
Residence Time: 2.58 Secchi Depth: 2.6 Turbidity: 1.6 Color: 20
Closed pH: 7.40 Equil. pH: 8.03 ANC: 608.0 DOC: 3.40
Closed DIC: 7.69 Equil. DIC: 7.10 Meas. Cond: 70.1 Cal. Cond: 74.6
Ca: 395.2 Mg: 221.3 Na: 77.0 K: 13.8 NH4: 10.5
SO4: 50.0 HCO3: 585.3 Cl: 41.5 NO3: 4.2 F: 2.5
Sum Cations: 717.9 Sum Anions: 685.0 Cations/Anions: 1.05 Tot. P: 23.0
Tot. Al: 805.0 Ext. Al: 0.0 Fe: 300.0 Mn: 90.0 SiO2: 9.45

ID: 2C3-033 Name: COLUMBUS LAKE State: WI Date: 31OCT84
Sample Type: REG/SPC/LTM/ Latitude: 45-50'15"N Longitude: 89-15'00"W
Elevation: 496 Surface Temp: 6.5 Stratified: MIXED Site Depth: 6.1
Lake Area: 274 Watershed Area: 7011 WA/LA: 25.6 Hydro Type: DRAINAGE
Residence Time: 0.40 Secchi Depth: 1.1 Turbidity: 4.0 Color: 115
Closed pH: 7.20 Equil. pH: 7.72 ANC: 262.0 DOC: 13.80
Closed DIC: 2.93 Equil. DIC: 2.68 Meas. Cond: 40.7 Cal. Cond: 41.4
Ca: 235.0 Mg: 149.7 Na: 46.5 K: 12.5 NH4: 5.0
SO4: 51.6 HCO3: 214.7 Cl: 21.7 NO3: 5.5 F: 2.3
Sum Cations: 448.9 Sum Anions: 296.1 Cations/Anions: 1.52 Tot. P: 30.0
Tot. Al: 34.0 Ext. Al: 3.0 Fe: 1090.0 Mn: 50.0 SiO2: 7.14

ID: 2C3-034 Name: LOWER KAUBASHINE LAKE State: WI Date: 01NOV84
Sample Type: REGULAR Latitude: 45-48'35"N Longitude: 89-45'00"W
Elevation: 479 Surface Temp: 7.1 Stratified: MIXED Site Depth: 8.2
Lake Area: 81 Watershed Area: 458 WA/LA: 5.6 Hydro Type: DRAINAGE
Residence Time: 1.84 Secchi Depth: 3.0 Turbidity: 1.6 Color: 20
Closed pH: 7.61 Equil. pH: 8.37 ANC: 795.0 DOC: 3.20
Closed DIC: 9.57 Equil. DIC: 8.91 Meas. Cond: 90.3 Cal. Cond: 94.4
Ca: 521.0 Mg: 288.7 Na: 91.8 K: 17.1 NH4: 3.3
SO4: 53.9 HCO3: 727.9 Cl: 63.2 NO3: 1.6 F: 3.1
Sum Cations: 922.0 Sum Anions: 853.2 Cations/Anions: 1.08 Tot. P: 12.0
Tot. Al: 4.0 Ext. Al: 2.0 Fe: 140.0 Mn: 20.0 SiO2: 7.87

ID: 2C3-035 Name: DEER LAKE State: WI Date: 31OCT84
Sample Type: REGULAR Latitude: 45-49'10"N Longitude: 89-16'45"W
Elevation: 497 Surface Temp: 4.0 Stratified: MIXED Site Depth: 1.5
Lake Area: 13 Watershed Area: 106 WA/LA: 8.1 Hydro Type: DRAINAGE
Residence Time: 0.26 Secchi Depth: 0.6 Turbidity: 5.7 Color: 95
Closed pH: 7.40 Equil. pH: 8.08 ANC: 593.0 DOC: 12.80
Closed DIC: 6.70 Equil. DIC: 6.38 Meas. Cond: 68.6 Cal. Cond: 72.2
Ca: 382.7 Mg: 273.1 Na: 77.0 K: 17.6 NH4: 15.0
SO4: 56.4 HCO3: 492.5 Cl: 24.5 NO3: 2.0 F: 3.7
Sum Cations: 765.5 Sum Anions: 580.0 Cations/Anions: 1.32 Tot. P: 53.0
Tot. Al: 10.0 Ext. Al: 1.0 Fe: 1280.0 Mn: 50.0 SiO2: 19.40

ID: 2C3-037 Name: BEARSKIN LAKE State: WI Date: 27OCT84
Sample Type: REGULAR Latitude: 45-44'00"N Longitude: 89-41'00"W
Elevation: 469 Surface Temp: 8.4 Stratified: MIXED Site Depth: 6.7
Lake Area: 163 Watershed Area: 1039 WA/LA: 6.4 Hydro Type: DRAINAGE
Residence Time: 1.38 Secchi Depth: 2.3 Turbidity: 2.5 Color: 10
Closed pH: 7.52 Equil. pH: 8.41 ANC: 899.0 DOC: 2.50
Closed DIC: 10.94 Equil. DIC: 10.34 Meas. Cond: 93.2 Cal. Cond: 97.6
Ca: 563.4 Mg: 301.9 Na: 87.0 K: 19.2 NH4: 0.0
SO4: 27.5 HCO3: 855.6 Cl: 18.1 NO3: 3.2 F: 3.8
Sum Cations: 971.5 Sum Anions: 911.7 Cations/Anions: 1.07 Tot. P: 26.0
Tot. Al: 12.0 Ext. Al: 1.0 Fe: 30.0 Mn: 0.0 SiO2: 3.44

(continued)

TABLE 3-1 (continued)

ID: 2C3-038 Name: ELM LAKE State: WI Date: 10OCT84
Sample Type: REGULAR Latitude: 45-46'10"N Longitude: 89-03'30"W
Elevation: 498 Surface Temp: 12.8 Stratified: MIXED Site Depth: 4.3
Lake Area: 14 Watershed Area: 596 WA/LA: 42.0 Hydro Type: DRAINAGE
Residence Time: 0.18 Secchi Depth: 0.9 Turbidity: 1.3 Color: 130
Closed pH: 6.47 Equil. pH: 7.09 ANC: 117.5 DOC: 18.35
Closed DIC: 1.71 Equil. DIC: 0.92 Meas. Cond: 27.2 Cal. Cond: 25.1
Ca: 140.0 Mg: 119.7 Na: 25.2 K: 6.6 NH4: 6.7
SO4: 49.4 HCO3: 75.6 Cl: 8.5 NO3: 0.7 F: 1.5
Sum Cations: 298.5 Sum Anions: 135.7 Cations/Anions: 2.20 Tot. P: 18.5
Tot. Al: 56.0 Ext. Al: 26.0 Fe: 680.0 Mn: 40.0 SiO2: 2.95

ID: 2C3-039 Name: TENDERFOOT LAKE State: WI Date: 08NOV84
Sample Type: REGULAR Latitude: 45-40'20"N Longitude: 89-15'30"W
Elevation: 480 Surface Temp: 4.3 Stratified: MIXED Site Depth: 7.3
Lake Area: 9 Watershed Area: 23 WA/LA: 2.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.6 Turbidity: 1.6 Color: 35
Closed pH: 7.16 Equil. pH: 7.92 ANC: 320.1 DOC: 4.40
Closed DIC: 4.28 Equil. DIC: 3.60 Meas. Cond: 46.0 Cal. Cond: 46.5
Ca: 200.6 Mg: 168.6 Na: 60.9 K: 18.4 NH4: 4.4
SO4: 22.7 HCO3: 274.9 Cl: 86.9 NO3: 0.4 F: 2.2
Sum Cations: 453.0 Sum Anions: 387.5 Cations/Anions: 1.17 Tot. P: 13.0
Tot. Al: 9.0 Ext. Al: 2.0 Fe: 530.0 Mn: 0.0 SiO2: 1.51

ID: 2C3-041 Name: LAKE NOKOMIS State: WI Date: 07NOV84
Sample Type: REGULAR Latitude: 45-33'15"N Longitude: 89-44'00"W
Elevation: 446 Surface Temp: 3.4 Stratified: MIXED Site Depth: 6.1
Lake Area: 1213 Watershed Area: 131209 WA/LA: 108.2 Hydro Type: RESERVOIR
Residence Time: 0.10 Secchi Depth: 1.8 Turbidity: 1.3 Color: 25
Closed pH: 7.57 Equil. pH: 8.16 ANC: 626.5 DOC: 4.00
Closed DIC: 7.36 Equil. DIC: 7.18 Meas. Cond: 73.7 Cal. Cond: 77.5
Ca: 364.8 Mg: 250.9 Na: 109.2 K: 14.6 NH4: 0.0
SO4: 71.4 HCO3: 579.4 Cl: 50.2 NO3: 3.9 F: 3.4
Sum Cations: 739.4 Sum Anions: 710.5 Cations/Anions: 1.04 Tot. P: 20.0
Tot. Al: 30.0 Ext. Al: 0.0 Fe: 60.0 Mn: 10.0 SiO2: 11.50

ID: 2C3-042 Name: WHITEYE LAKE State: WI Date: 08NOV84
Sample Type: REGULAR Latitude: 45-34'55"N Longitude: 89-00'00"W
Elevation: 521 Surface Temp: 2.6 Stratified: MIXED Site Depth: 3.9
Lake Area: 29 Watershed Area: 101 WA/LA: 3.5 Hydro Type: DRAINAGE
Residence Time: 1.19 Secchi Depth: 3.4 Turbidity: 0.5 Color: 15
Closed pH: 5.76 Equil. pH: 6.04 ANC: 7.9 DOC: 3.10
Closed DIC: 0.39 Equil. DIC: 0.30 Meas. Cond: 29.5 Cal. Cond: 29.9
Ca: 101.8 Mg: 64.2 Na: 37.4 K: 18.9 NH4: 0.0
SO4: 169.7 HCO3: 5.3 Cl: 31.3 NO3: 0.4 F: 1.1
Sum Cations: 224.8 Sum Anions: 207.8 Cations/Anions: 1.08 Tot. P: 18.0
Tot. Al: 39.0 Ext. Al: 11.0 Fe: 10.0 Mn: 0.0 SiO2: 0.00

ID: 2C3-043 Name: CLEAR LAKE State: WI Date: 29OCT84
Sample Type: REGULAR Latitude: 45-32'00"N Longitude: 89-43'25"W
Elevation: 444 Surface Temp: 9.1 Stratified: MIXED Site Depth: 9.8
Lake Area: 105 Watershed Area: 231 WA/LA: 2.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.6 Turbidity: 0.9 Color: 5
Closed pH: 7.47 Equil. pH: 7.96 ANC: 449.5 DOC: 2.10
Closed DIC: 5.40 Equil. DIC: 5.06 Meas. Cond: 112.5 Cal. Cond: 124.2
Ca: 433.6 Mg: 257.5 Na: 341.9 K: 17.4 NH4: 2.2
SO4: 136.6 HCO3: 407.9 Cl: 483.5 NO3: 0.1 F: 1.9
Sum Cations: 1052.7 Sum Anions: 1031.2 Cations/Anions: 1.02 Tot. P: 11.0
Tot. Al: 7.0 Ext. Al: 0.0 Fe: 20.0 Mn: 0.0 SiO2: 11.43

(continued)

TABLE 3-1 (continued)

ID: 2C3-044 Name: LAKE LUCERNE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 45-31'45"N Longitude: 88-51'00"W
Elevation: 501 Surface Temp: 7.2 Stratified: MIXED Site Depth: 20.7
Lake Area: 430 Watershed Area: 2613 WA/LA: 6.1 Hydro Type: DRAINAGE
Residence Time: 4.42 Secchi Depth: 3.4 Turbidity: 0.3 Color: 10
Closed pH: 7.84 Equil. pH: 8.11 ANC: 652.2 DOC: 4.60
Closed DIC: 7.63 Equil. DIC: 8.37 Meas. Cond: 73.3 Cal. Cond: 83.2
Ca: 403.2 Mg: 329.0 Na: 30.4 K: 15.9 NH4: 4.1
SO4: 91.2 HCO3: 668.8 Cl: 17.8 NO3: 0.0 F: 1.3
Sum Cations: 782.6 Sum Anions: 783.6 Cations/Anions: 1.00 Tot. P: 24.0
Tot. Al: 4.0 Ext. Al: 9.0 Fe: 0.0 Mn: 0.0 SiO2: 0.45

ID: 2C3-046 Name: EUGENE LAKE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 45-28'05"N Longitude: 88-40'00"W
Elevation: 477 Surface Temp: 1.8 Stratified: MIXED Site Depth: 0.9
Lake Area: 8 Watershed Area: 546 WA/LA: 68.3 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 1.2 Turbidity: 0.4 Color: 30
Closed pH: 7.36 Equil. pH: 7.91 ANC: 421.4 DOC: 5.60
Closed DIC: 5.14 Equil. DIC: 5.26 Meas. Cond: 44.6 Cal. Cond: 50.5
Ca: 240.0 Mg: 188.4 Na: 34.4 K: 17.9 NH4: 11.3
SO4: 28.7 HCO3: 402.6 Cl: 22.8 NO3: 3.1 F: 1.7
Sum Cations: 492.0 Sum Anions: 460.0 Cations/Anions: 1.07 Tot. P: 9.0
Tot. Al: 5.0 Ext. Al: 4.0 Fe: 30.0 Mn: 0.0 SiO2: 0.78

ID: 2C3-047 Name: HINDU LAKE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 45-22'30"N Longitude: 88-59'07"W
Elevation: 468 Surface Temp: 4.4 Stratified: MIXED Site Depth: 6.1
Lake Area: 4 Watershed Area: 155 WA/LA: 36.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.4 Turbidity: 0.5 Color: 20
Closed pH: 6.10 Equil. pH: 6.50 ANC: 24.8 DOC: 5.60
Closed DIC: 0.55 Equil. DIC: 0.24 Meas. Cond: 12.3 Cal. Cond: 14.4
Ca: 46.9 Mg: 30.4 Na: 8.7 K: 25.1 NH4: 2.1
SO4: 70.2 HCO3: 18.7 Cl: 9.9 NO3: 0.0 F: 1.0
Sum Cations: 114.0 Sum Anions: 99.8 Cations/Anions: 1.14 Tot. P: 2.0
Tot. Al: 18.0 Ext. Al: 5.0 Fe: 20.0 Mn: 20.0 SiO2: 0.28

ID: 2C3-049 Name: LITTLE TWIN LAKE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 45-21'40"N Longitude: 88-54'05"W
Elevation: 463 Surface Temp: 4.2 Stratified: MIXED Site Depth: 5.5
Lake Area: 10 Watershed Area: 220 WA/LA: 21.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.4 Turbidity: 0.7 Color: 30
Closed pH: 7.40 Equil. pH: 8.08 ANC: 732.5 DOC: 4.90
Closed DIC: 8.88 Equil. DIC: 9.40 Meas. Cond: 85.5 Cal. Cond: 91.9
Ca: 417.7 Mg: 350.4 Na: 52.6 K: 44.7 NH4: 15.8
SO4: 42.1 HCO3: 726.6 Cl: 69.7 NO3: 1.4 F: 1.3
Sum Cations: 881.3 Sum Anions: 843.3 Cations/Anions: 1.05 Tot. P: 3.0
Tot. Al: 0.0 Ext. Al: 2.0 Fe: 130.0 Mn: 0.0 SiO2: 0.58

ID: 2C3-050 Name: SETTING LAKE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 45-15'50"N Longitude: 88-41'25"W
Elevation: 410 Surface Temp: 3.3 Stratified: MIXED Site Depth: 3.1
Lake Area: 10 Watershed Area: 1399 WA/LA: 144.2 Hydro Type: DRAINAGE
Residence Time: 0.04 Secchi Depth: 0.8 Turbidity: 1.5 Color: 120
Closed pH: 7.27 Equil. pH: 8.08 ANC: 804.0 DOC: 18.20
Closed DIC: 9.06 Equil. DIC: 8.88 Meas. Cond: 82.7 Cal. Cond: 88.0
Ca: 441.6 Mg: 372.6 Na: 47.0 K: 43.7 NH4: 18.0
SO4: 16.2 HCO3: 715.4 Cl: 15.8 NO3: 4.1 F: 5.2
Sum Cations: 923.0 Sum Anions: 758.7 Cations/Anions: 1.22 Tot. P: 54.0
Tot. Al: 41.0 Ext. Al: 7.0 Fe: 370.0 Mn: 20.0 SiO2: 6.56

(continued)

TABLE 3-1 (continued)

ID: 2C3-051 Name: MINNOW LAKE State: WI Date: 31OCT84
Sample Type: REGULAR Latitude: 45-48'38"N Longitude: 89-16'31"W
Elevation: 501 Surface Temp: 5.9 Stratified: MIXED Site Depth: 3.7
Lake Area: 4 Watershed Area: 57 WA/LA: 12.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.6 Turbidity: 4.2 Color: 140
Closed pH: 6.90 Equil. pH: 7.95 ANC: 396.0 DOC: 13.50
Closed DIC: 5.27 Equil. DIC: 3.97 Meas. Cond: 44.9 Cal. Cond: 44.4
Ca: 225.0 Mg: 145.6 Na: 46.5 K: 23.3 NH4: 46.0
SO4: 11.7 HCO3: 314.0 Cl: 9.6 NO3: 1.2 F: 2.3
Sum Cations: 486.6 Sum Anions: 339.0 Cations/Anions: 1.44 Tot. P: 36.0
Tot. Al: 23.0 Ext. Al: 0.0 Fe: 1750.0 Mn: 90.0 SiO2: 14.30

ID: 2C3-052 Name: MUSKESIN LAKE State: WI Date: 07NOV84
Sample Type: REGULAR Latitude: 46-01'06"N Longitude: 89-54'48"W
Elevation: 488 Surface Temp: 3.4 Stratified: MIXED Site Depth: 6.4
Lake Area: 44 Watershed Area: 106 WA/LA: 2.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 5.5 Turbidity: 0.3 Color: 10
Closed pH: 5.87 Equil. pH: 6.23 ANC: 11.1 DOC: 3.50
Closed DIC: 0.44 Equil. DIC: 0.39 Meas. Cond: 16.4 Cal. Cond: 15.8
Ca: 48.9 Mg: 27.1 Na: 31.3 K: 13.3 NH4: 1.1
SO4: 64.3 HCO3: 8.3 Cl: 35.3 NO3: 1.5 F: 0.6
Sum Cations: 123.3 Sum Anions: 110.0 Cations/Anions: 1.12 Tot. P: 13.0
Tot. Al: 35.0 Ext. Al: 5.0 Fe: 10.0 Mn: 30.0 SiO2: 6.48

ID: 2C3-053 Name: INKPOT LAKE State: MI Date: 04NOV84
Sample Type: REGULAR Latitude: 46-13'44"N Longitude: 89-30'21"W
Elevation: 505 Surface Temp: 2.9 Stratified: MIXED Site Depth: 4.6
Lake Area: 7 Watershed Area: 26 WA/LA: 3.8 Hydro Type: DRAINAGE
Residence Time: 1.34 Secchi Depth: 1.4 Turbidity: 2.6 Color: 45
Closed pH: 7.58 Equil. pH: 8.45 ANC: 989.0 DOC: 7.30
Closed DIC: 11.99 Equil. DIC: 11.30 Meas. Cond: 99.2 Cal. Cond: 104.2
Ca: 675.1 Mg: 307.7 Na: 63.5 K: 16.1 NH4: 0.6
SO4: 21.7 HCO3: 906.7 Cl: 10.4 NO3: 1.2 F: 3.0
Sum Cations: 1063.0 Sum Anions: 945.6 Cations/Anions: 1.12 Tot. P: 38.0
Tot. Al: 12.0 Ext. Al: 0.0 Fe: 50.0 Mn: 0.0 SiO2: 10.10

ID: 2C3-054 Name: SILVER LAKE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 45-28'23"N Longitude: 89-12'07"W
Elevation: 501 Surface Temp: 4.1 Stratified: MIXED Site Depth: 6.1
Lake Area: 9 Watershed Area: 78 WA/LA: 8.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.3 Turbidity: 0.2 Color: 25
Closed pH: 5.65 Equil. pH: 6.04 ANC: 12.3 DOC: 0.00
Closed DIC: 0.70 Equil. DIC: 0.11 Meas. Cond: 11.4 Cal. Cond: 13.9
Ca: 50.4 Mg: 25.5 Na: 6.1 K: 17.6 NH4: 7.1
SO4: 70.8 HCO3: 10.5 Cl: 6.5 NO3: 4.3 F: 0.7
Sum Cations: 108.1 Sum Anions: 92.8 Cations/Anions: 1.17 Tot. P: 0.0
Tot. Al: 23.0 Ext. Al: 9.0 Fe: 10.0 Mn: 10.0 SiO2: 0.01

ID: 2C3-056 Name: EAGLE LAKE State: WI Date: 31OCT84
Sample Type: REGULAR Latitude: 45-56'00"N Longitude: 89-12'30"W
Elevation: 493 Surface Temp: 6.5 Stratified: MIXED Site Depth: 7.9
Lake Area: 233 Watershed Area: 58384 WA/LA: 250.7 Hydro Type: DRAINAGE
Residence Time: 0.06 Secchi Depth: 1.6 Turbidity: 2.3 Color: 30
Closed pH: 7.36 Equil. pH: 7.97 ANC: 460.0 DOC: 5.80
Closed DIC: 5.56 Equil. DIC: 5.06 Meas. Cond: 61.7 Cal. Cond: 66.4
Ca: 317.4 Mg: 242.7 Na: 68.3 K: 15.3 NH4: 2.8
SO4: 89.9 HCO3: 406.0 Cl: 55.3 NO3: 2.7 F: 2.1
Sum Cations: 646.5 Sum Anions: 556.9 Cations/Anions: 1.16 Tot. P: 87.0
Tot. Al: 13.0 Ext. Al: 0.0 Fe: 120.0 Mn: 10.0 SiO2: 11.40

(continued)

TABLE 3-1 (continued)

ID: 2C3-057 Name: CRESCENT LAKE State: WI Date: 08OCT84
Sample Type: REGULAR Latitude: 45-36'08"N Longitude: 89-31'20"W
Elevation: 479 Surface Temp: 13.4 Stratified: MIXED Site Depth: 9.4
Lake Area: 253 Watershed Area: 761 WA/LA: 3.0 Hydro Type: DRAINAGE
Residence Time: 3.12 Secchi Depth: 1.9 Turbidity: 2.2 Color: 15
Closed pH: 7.73 Equil. pH: 8.25 ANC: 682.0 DOC: 3.20
Closed DIC: 8.46 Equil. DIC: 7.80 Meas. Cond: 89.1 Cal. Cond: 94.5
Ca: 463.1 Mg: 273.1 Na: 127.0 K: 22.8 NH4: 0.6
SO4: 86.2 HCO3: 632.7 Cl: 114.8 NO3: 3.2 F: 3.1
Sum Cations: 886.5 Sum Anions: 842.7 Cations/Anions: 1.05 Tot. P: 21.0
Tot. Al: 2.0 Ext. Al: 0.0 Fe: 20.0 Mn: 0.0 SiO2: 16.70

ID: 2C3-058 Name: WILD RICE LAKE State: WI Date: 07NOV84
Sample Type: REGULAR Latitude: 46-03'55"N Longitude: 89-47'45"W
Elevation: 488 Surface Temp: 1.4 Stratified: MIXED Site Depth: 4.5
Lake Area: 158 Watershed Area: 16177 WA/LA: 102.5 Hydro Type: DRAINAGE
Residence Time: 0.08 Secchi Depth: 1.9 Turbidity: 3.1 Color: 40
Closed pH: 7.65 Equil. pH: 8.38 ANC: 749.4 DOC: 4.30
Closed DIC: 8.94 Equil. DIC: 8.76 Meas. Cond: 83.1 Cal. Cond: 88.2
Ca: 518.5 Mg: 232.0 Na: 72.6 K: 19.2 NH4: 0.0
SO4: 61.2 HCO3: 700.6 Cl: 46.8 NO3: 0.0 F: 3.5
Sum Cations: 842.3 Sum Anions: 814.9 Cations/Anions: 1.03 Tot. P: 14.0
Tot. Al: 14.0 Ext. Al: 1.0 Fe: 210.0 Mn: 0.0 SiO2: 6.28

ID: 2C3-059 Name: LITTLE PAPOOSE LAKE State: WI Date: 06NOV84
Sample Type: REGULAR Latitude: 46-11'03"N Longitude: 89-49'15"W
Elevation: 497 Surface Temp: 3.5 Stratified: MIXED Site Depth: 7.0
Lake Area: 18 Watershed Area: 1008 WA/LA: 56.3 Hydro Type: DRAINAGE
Residence Time: 0.22 Secchi Depth: 2.1 Turbidity: 0.9 Color: 40
Closed pH: 7.53 Equil. pH: 8.29 ANC: 1001.5 DOC: 6.70
Closed DIC: 11.90 Equil. DIC: 11.77 Meas. Cond: 104.4 Cal. Cond: 114.3
Ca: 686.6 Mg: 270.6 Na: 65.7 K: 19.2 NH4: 5.5
SO4: 55.4 HCO3: 1049.7 Cl: 29.6 NO3: 1.2 F: 2.8
Sum Cations: 1047.6 Sum Anions: 1143.9 Cations/Anions: 0.92 Tot. P: 17.0
Tot. Al: 11.0 Ext. Al: 5.0 Fe: 270.0 Mn: 90.0 SiO2: 7.28

ID: 2C3-060 Name: FANNY LAKE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 45-16'03"N Longitude: 88-39'58"W
Elevation: 399 Surface Temp: 4.8 Stratified: MIXED Site Depth: 4.0
Lake Area: 7 Watershed Area: 31 WA/LA: 4.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.5 Turbidity: 2.2 Color: 30
Closed pH: 6.47 Equil. pH: 6.55 ANC: 39.8 DOC: 8.70
Closed DIC: 0.32 Equil. DIC: 0.37 Meas. Cond: 10.2 Cal. Cond: 11.5
Ca: 52.9 Mg: 32.9 Na: 7.0 K: 13.8 NH4: 7.1
SO4: 38.9 HCO3: 18.9 Cl: 6.8 NO3: 0.3 F: 1.1
Sum Cations: 114.3 Sum Anions: 65.9 Cations/Anions: 1.73 Tot. P: 29.0
Tot. Al: 5.0 Ext. Al: 4.0 Fe: 0.0 Mn: 0.0 SiO2: 0.16

ID: 2D1-001 Name: DEER LAKE State: WI Date: 08NOV84
Sample Type: REGULAR Latitude: 46-29'43"N Longitude: 91-42'50"W
Elevation: 344 Surface Temp: 3.2 Stratified: MIXED Site Depth: 1.5
Lake Area: 19 Watershed Area: 145 WA/LA: 7.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.5 Turbidity: 0.8 Color: 37
Closed pH: 5.65 Equil. pH: 5.83 ANC: 11.0 DOC: 6.10
Closed DIC: 0.34 Equil. DIC: 0.28 Meas. Cond: 13.7 Cal. Cond: 12.8
Ca: 42.4 Mg: 32.9 Na: 13.0 K: 12.5 NH4: 0.0
SO4: 61.0 HCO3: 3.9 Cl: 9.0 NO3: 0.9 F: 1.1
Sum Cations: 104.1 Sum Anions: 75.9 Cations/Anions: 1.37 Tot. P: 10.0
Tot. Al: 98.0 Ext. Al: 42.0 Fe: 40.0 Mn: 10.0 SiO2: 0.00

(continued)

TABLE 3-1 (continued)

ID: 2D1-004 Name: COFFEE LAKE State: WI Date: 07NOV84
Sample Type: REGULAR Latitude: 46-27'28"N Longitude: 91-43'27"W
Elevation: 344 Surface Temp: 3.7 Stratified: MIXED Site Depth: 7.6
Lake Area: 4 Watershed Area: 70 WA/LA: 16.7 Hydro Type: DRAINAGE
Residence Time: 0.73 Secchi Depth: 0.5 Turbidity: 0.7 Color: 210
Closed pH: 5.38 Equil. pH: 5.63 ANC: 34.0 DOC: 19.00
Closed DIC: 1.17 Equil. DIC: 0.17 Meas. Cond: 20.7 Cal. Cond: 18.9
Ca: 85.3 Mg: 55.1 Na: 20.4 K: 14.1 NH4: 10.0
SO4: 56.8 HCO3: 9.6 Cl: 21.4 NO3: 3.7 F: 1.3
Sum Cations: 188.4 Sum Anions: 92.8 Cations/Anions: 2.03 Tot. P: 29.0
Tot. Al: 399.0 Ext. Al: 181.0 Fe: 950.0 Mn: 60.0 SiO2: 4.11

ID: 2D1-007 Name: SMITH LAKE State: WI Date: 08NOV84
Sample Type: REGULAR Latitude: 46-23'53"N Longitude: 91-42'30"W
Elevation: 337 Surface Temp: 3.9 Stratified: MIXED Site Depth: 1.2
Lake Area: 14 Watershed Area: 181 WA/LA: 13.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.0 Turbidity: 0.9 Color: 41
Closed pH: 6.38 Equil. pH: 7.12 ANC: 73.5 DOC: 9.55
Closed DIC: 1.17 Equil. DIC: 0.75 Meas. Cond: 18.6 Cal. Cond: 18.0
Ca: 66.9 Mg: 81.4 Na: 19.8 K: 5.1 NH4: 0.0
SO4: 62.9 HCO3: 51.1 Cl: 9.9 NO3: 0.1 F: 1.1
Sum Cations: 173.7 Sum Anions: 125.0 Cations/Anions: 1.39 Tot. P: 17.5
Tot. Al: 27.0 Ext. Al: 7.5 Fe: 40.0 Mn: 0.0 SiO2: 0.65

ID: 2D1-009 Name: (NO NAME) State: WI Date: 12NOV84
Sample Type: REGULAR Latitude: 46-22'38"N Longitude: 91-36'25"W
Elevation: 351 Surface Temp: 3.2 Stratified: MIXED Site Depth: 1.6
Lake Area: 4 Watershed Area: 106 WA/LA: 25.2 Hydro Type: SEEPAGE
Residence Time: * Secchj Depth: 1.6 Turbidity: 0.9 Color: 55
Closed pH: 6.54 Equil. pH: 7.46 ANC: 171.9 DOC: 6.70
Closed DIC: 3.08 Equil. DIC: 1.54 Meas. Cond: 23.3 Cal. Cond: 22.8
Ca: 99.8 Mg: 66.6 Na: 24.4 K: 42.2 NH4: 1.7
SO4: 24.8 HCO3: 132.2 Cl: 11.3 NO3: 0.0 F: 1.2
Sum Cations: 234.8 Sum Anions: 169.6 Cations/Anions: 1.38 Tot. P: 10.0
Tot. Al: 22.0 Ext. Al: 7.0 Fe: 70.0 Mn: 10.0 SiO2: 0.88

ID: 2D1-010 Name: HIGH LIFE LAKE State: WI Date: 13NOV84
Sample Type: REGULAR Latitude: 46-22'27"N Longitude: 91-34'40"W
Elevation: 351 Surface Temp: 3.8 Stratified: MIXED Site Depth: 1.2
Lake Area: 8 Watershed Area: 31 WA/LA: 3.9 Hydro Type: DRAINAGE
Residence Time: 0.35 Secchi Depth: 1.2 Turbidity: 1.1 Color: 35
Closed pH: 7.38 Equil. pH: 7.69 ANC: 244.2 DOC: 5.00
Closed DIC: 2.80 Equil. DIC: 2.54 Meas. Cond: 34.7 Cal. Cond: 35.7
Ca: 159.7 Mg: 116.0 Na: 48.3 K: 13.0 NH4: 1.1
SO4: 69.5 HCO3: 215.0 Cl: 18.1 NO3: 0.0 F: 1.7
Sum Cations: 338.1 Sum Anions: 304.6 Cations/Anions: 1.11 Tot. P: 22.0
Tot. Al: 8.0 Ext. Al: 3.0 Fe: 240.0 Mn: 10.0 SiO2: 3.81

ID: 2D1-012 Name: MUSKRAT LAKE State: WI Date: 12NOV84
Sample Type: REGULAR Latitude: 46-20'45"N Longitude: 91-45'15"W
Elevation: 331 Surface Temp: 2.7 Stratified: MIXED Site Depth: 1.5
Lake Area: 9 Watershed Area: 135 WA/LA: 14.4 Hydro Type: DRAINAGE
Residence Time: 0.16 Secchi Depth: 0.6 Turbidity: 1.1 Color: 70
Closed pH: 6.76 Equil. pH: 7.39 ANC: 150.0 DOC: 7.50
Closed DIC: 1.98 Equil. DIC: 1.22 Meas. Cond: 24.3 Cal. Cond: 19.5
Ca: 104.3 Mg: 63.3 Na: 28.7 K: 5.9 NH4: 1.1
SO4: 22.1 HCO3: 122.2 Cl: 8.2 NO3: 0.4 F: 1.2
Sum Cations: 203.5 Sum Anions: 154.1 Cations/Anions: 1.32 Tot. P: 2.0
Tot. Al: 21.0 Ext. Al: 5.0 Fe: 320.0 Mn: 0.0 SiO2: 3.73

(continued)

TABLE 3-1 (continued)

ID: 2D1-014 Name: TWIN LAKES (SOUTHWEST) State: WI Date: 08NOV84
Sample Type: REGULAR Latitude: 46-20'45"N Longitude: 91-44'20"W
Elevation: 333 Surface Temp: 4.0 Stratified: MIXED Site Depth: 1.2
Lake Area: 28 Watershed Area: 104 WA/LA: 3.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.2 Turbidity: 0.8 Color: 14
Closed pH: 7.18 Equil. pH: 7.58 ANC: 131.5 DOC: 6.10
Closed DIC: 1.86 Equil. DIC: 1.80 Meas. Cond: 23.9 Cal. Cond: 23.4
Ca: 112.8 Mg: 74.0 Na: 27.4 K: 9.5 NH4: 0.0
SO4: 44.6 HCO3: 139.8 Cl: 9.3 NO3: 0.6 F: 1.2
Sum Cations: 223.8 Sum Anions: 195.6 Cations/Anions: 1.14 Tot. P: 13.0
Tot. Al: 6.0 Ext. Al: 1.0 Fe: 20.0 Mn: 0.0 SiO2: 1.81

ID: 2D1-017 Name: METZGER LAKE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 46-19'08"N Longitude: 91-41'17"W
Elevation: 333 Surface Temp: 4.7 Stratified: MIXED Site Depth: 7.3
Lake Area: 5 Watershed Area: 62 WA/LA: 11.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.8 Turbidity: 0.6 Color: 15
Closed pH: 6.84 Equil. pH: 7.25 ANC: 119.5 DOC: 3.45
Closed DIC: 1.63 Equil. DIC: 1.67 Meas. Cond: 16.6 Cal. Cond: 21.2
Ca: 91.3 Mg: 58.4 Na: 28.5 K: 9.6 NH4: 0.6
SO4: 55.5 HCO3: 116.1 Cl: 9.6 NO3: 0.0 F: 1.2
Sum Cations: 188.5 Sum Anions: 182.5 Cations/Anions: 1.03 Tot. P: 16.0
Tot. Al: 12.0 Ext. Al: 3.0 Fe: 30.0 Mn: 10.0 SiO2: 0.82

ID: 2D1-018 Name: ROCK LAKE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 46-20'35"N Longitude: 91-37'00"W
Elevation: 352 Surface Temp: 2.4 Stratified: MIXED Site Depth: 3.0
Lake Area: 11 Watershed Area: 47 WA/LA: 4.1 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 1.1 Turbidity: 1.1 Color: 140
Closed pH: 5.46 Equil. pH: 5.62 ANC: 36.2 DOC: 12.90
Closed DIC: 0.58 Equil. DIC: 0.00 Meas. Cond: 13.7 Cal. Cond: 13.5
Ca: 54.4 Mg: 41.1 Na: 20.4 K: 13.3 NH4: 5.2
SO4: 34.4 HCO3: 5.1 Cl: 11.3 NO3: 7.2 F: 1.1
Sum Cations: 138.1 Sum Anions: 59.0 Cations/Anions: 2.34 Tot. P: 19.0
Tot. Al: 143.0 Ext. Al: 67.0 Fe: 460.0 Mn: 30.0 SiO2: 1.96

ID: 2D1-020 Name: (NO NAME) State: WI Date: 12NOV84
Sample Type: REGULAR Latitude: 46-22'05"N Longitude: 91-36'55"W
Elevation: 344 Surface Temp: 3.2 Stratified: MIXED Site Depth: 1.2
Lake Area: 6 Watershed Area: 21 WA/LA: 3.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: * Turbidity: 1.0 Color: 55
Closed pH: 6.60 Equil. pH: 7.27 ANC: 112.1 DOC: 6.70
Closed DIC: 1.85 Equil. DIC: 1.00 Meas. Cond: 19.4 Cal. Cond: 20.3
Ca: 73.9 Mg: 58.4 Na: 34.4 K: 21.7 NH4: 1.7
SO4: 55.0 HCO3: 91.0 Cl: 9.9 NO3: 0.1 F: 1.2
Sum Cations: 190.2 Sum Anions: 157.2 Cations/Anions: 1.21 Tot. P: 18.0
Tot. Al: 16.0 Ext. Al: 5.0 Fe: 340.0 Mn: 10.0 SiO2: 2.91

ID: 2D1-022 Name: BLACK FOX LAKE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 46-21'45"N Longitude: 91-36'38"W
Elevation: 351 Surface Temp: 2.6 Stratified: MIXED Site Depth: 1.8
Lake Area: 16 Watershed Area: 52 WA/LA: 3.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.6 Turbidity: 1.0 Color: 37
Closed pH: 7.18 Equil. pH: 7.49 ANC: 288.1 DOC: 5.80
Closed DIC: 3.45 Equil. DIC: 3.64 Meas. Cond: 30.5 Cal. Cond: 32.6
Ca: 144.7 Mg: 116.8 Na: 38.7 K: 12.5 NH4: 0.6
SO4: 32.7 HCO3: 261.7 Cl: 7.1 NO3: 0.0 F: 1.5
Sum Cations: 313.4 Sum Anions: 303.4 Cations/Anions: 1.03 Tot. P: 19.0
Tot. Al: 11.0 Ext. Al: 2.0 Fe: 220.0 Mn: 10.0 SiO2: 1.86

(continued)

TABLE 3-1 (continued)

ID: 2D1-025 Name: BEAUREGARD LAKE State: WI Date: 07NOV84
Sample Type: REGULAR Latitude: 46'20'30"N Longitude: 91-35'30"W
Elevation: 366 Surface Temp: 3.3 Stratified: MIXED Site Depth: 4.8
Lake Area: 35 Watershed Area: 166 WA/LA: 4.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.0 Turbidity: 1.1 Color: 26
Closed pH: 6.36 Equil. pH: 6.85 ANC: 47.0 DOC: 5.10
Closed DIC: 0.74 Equil. DIC: 0.47 Meas. Cond: 18.1 Cal. Cond: 17.0
Ca: 59.1 Mg: 53.1 Na: 23.7 K: 14.7 NH4: 0.3
SO4: 68.9 HCO3: 32.8 Cl: 14.0 NO3: 1.2 F: 1.1
Sum Cations: 151.3 Sum Anions: 118.0 Cations/Anions: 1.28 Tot. P: 15.0
Tot. Al: 38.5 Ext. Al: 5.0 Fe: 20.0 Mn: 0.0 SiO2: 0.29

ID: 2D1-026 Name: MIRROR LAKE State: WI Date: 13NOV84
Sample Type: REGULAR Latitude: 46-21'25"N Longitude: 91-34'45"W
Elevation: 357 Surface Temp: 3.9 Stratified: MIXED Site Depth: 1.6
Lake Area: 10 Watershed Area: 73 WA/LA: 7.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.6 Turbidity: 0.7 Color: 60
Closed pH: 5.55 Equil. pH: 5.86 ANC: 27.2 DOC: 9.90
Closed DIC: 0.74 Equil. DIC: 0.07 Meas. Cond: 12.1 Cal. Cond: 12.1
Ca: 44.9 Mg: 42.0 Na: 14.8 K: 10.5 NH4: 1.9
SO4: 49.6 HCO3: 6.5 Cl: 4.8 NO3: 1.0 F: 0.8
Sum Cations: 116.5 Sum Anions: 62.6 Cations/Anions: 1.86 Tot. P: 10.0
Tot. Al: 64.5 Ext. Al: 35.5 Fe: 105.0 Mn: 30.0 SiO2: 0.19

ID: 2D1-030 Name: BASS LAKE State: WI Date: 06NOV84
Sample Type: REGULAR Latitude: 46-13'00"N Longitude: 91-51'15"W
Elevation: 316 Surface Temp: 3.5 Stratified: MIXED Site Depth: 6.4
Lake Area: 51 Watershed Area: 109 WA/LA: 2.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.8 Turbidity: 0.9 Color: 13
Closed pH: 6.72 Equil. pH: 6.91 ANC: 49.0 DOC: 3.95
Closed DIC: 0.68 Equil. DIC: 0.61 Meas. Cond: 18.1 Cal. Cond: 17.9
Ca: 74.1 Mg: 44.4 Na: 22.8 K: 10.0 NH4: 0.0
SO4: 80.3 HCO3: 40.4 Cl: 11.1 NO3: 0.0 F: 1.2
Sum Cations: 151.6 Sum Anions: 133.0 Cations/Anions: 1.14 Tot. P: 17.5
Tot. Al: 19.0 Ext. Al: 0.0 Fe: 5.0 Mn: 0.0 SiO2: 0.01

ID: 2D1-037 Name: HALFWAY LAKE State: WI Date: 06NOV84
Sample Type: REGULAR Latitude: 46-13'00"N Longitude: 91-48'15"W
Elevation: 319 Surface Temp: 4.5 Stratified: MIXED Site Depth: 5.5
Lake Area: 39 Watershed Area: 101 WA/LA: 2.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.3 Turbidity: 0.6 Color: 13
Closed pH: 6.69 Equil. pH: 6.99 ANC: 53.0 DOC: 5.10
Closed DIC: 0.78 Equil. DIC: 0.66 Meas. Cond: 22.0 Cal. Cond: 21.6
Ca: 80.3 Mg: 49.4 Na: 41.3 K: 9.5 NH4: 1.1
SO4: 79.1 HCO3: 47.8 Cl: 35.8 NO3: 0.3 F: 1.2
Sum Cations: 181.8 Sum Anions: 164.2 Cations/Anions: 1.11 Tot. P: 13.0
Tot. Al: 13.0 Ext. Al: 2.0 Fe: 0.0 Mn: 0.0 SiO2: 0.00

ID: 2D1-038 Name: (NO NAME) State: WI Date: 06NOV84
Sample Type: REGULAR Latitude: 46-14'10"N Longitude: 91-46'52"W
Elevation: 319 Surface Temp: 3.4 Stratified: MIXED Site Depth: 0.9
Lake Area: 24 Watershed Area: 15820 WA/LA: 659.2 Hydro Type: RESERVOIR
Residence Time: 0.00 Secchi Depth: 0.9 Turbidity: 1.0 Color: 13
Closed pH: 7.98 Equil. pH: 8.46 ANC: 1136.0 DOC: 1.90
Closed DIC: 12.27 Equil. DIC: 12.26 Meas. Cond: 114.6 Cal. Cond: 120.9
Ca: 742.0 Mg: 329.0 Na: 80.5 K: 11.3 NH4: 1.1
SO4: 82.7 HCO3: 1009.1 Cl: 25.1 NO3: 4.9 F: 2.4
Sum Cations: 1163.9 Sum Anions: 1131.5 Cations/Anions: 1.03 Tot. P: 14.0
Tot. Al: 37.0 Ext. Al: 1.0 Fe: 70.0 Mn: 0.0 SiO2: 10.00

(continued)

TABLE 3-1 (continued)

ID: 2D1-041 Name: MULLIGAN LAKE State: WI Date: 12NOV84
Sample Type: REGULAR Latitude: 46-12'30"N Longitude: 91-41'40"W
Elevation: 327 Surface Temp: 2.6 Stratified: MIXED Site Depth: 1.0
Lake Area: 30 Watershed Area: 251 WA/LA: 8.4 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 0.8 Turbidity: 3.1 Color: 120
Closed pH: 7.18 Equil. pH: 7.89 ANC: 401.7 DOC: 8.20
Closed DIC: 5.03 Equil. DIC: 4.78 Meas. Cond: 47.4 Cal. Cond: 49.8
Ca: 232.5 Mg: 144.0 Na: 73.1 K: 19.2 NH4: 1.7
SO4: 45.0 HCO3: 399.2 Cl: 20.6 NO3: 0.6 F: 1.9
Sum Cations: 470.4 Sum Anions: 468.8 Cations/Anions: 1.00 Tot. P: 18.0
Tot. Al: 20.0 Ext. Al: 5.0 Fe: 670.0 Mn: 10.0 SiO2: 10.85

ID: 2D1-042 Name: HAUGEN LAKE State: WI Date: 07NOV84
Sample Type: REGULAR Latitude: 46-13'22"N Longitude: 91-39'55"W
Elevation: 335 Surface Temp: 4.6 Stratified: MIXED Site Depth: 7.0
Lake Area: 11 Watershed Area: 70 WA/LA: 6.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.9 Turbidity: 0.5 Color: 15
Closed pH: 6.55 Equil. pH: 7.16 ANC: 54.0 DOC: 4.50
Closed DIC: 0.87 Equil. DIC: 0.62 Meas. Cond: 16.1 Cal. Cond: 14.9
Ca: 70.9 Mg: 37.8 Na: 17.4 K: 7.7 NH4: 1.7
SO4: 56.4 HCO3: 43.3 Cl: 6.8 NO3: 0.0 F: 0.9
Sum Cations: 135.8 Sum Anions: 107.4 Cations/Anions: 1.26 Tot. P: 10.0
Tot. Al: 10.0 Ext. Al: 2.0 Fe: 20.0 Mn: 0.0 SiO2: 0.43

ID: 2D1-043 Name: THORN LAKE State: WI Date: 12NOV84
Sample Type: REGULAR Latitude: 46-13'30"N Longitude: 91-39'20"W
Elevation: 336 Surface Temp: 3.7 Stratified: MIXED Site Depth: 2.4
Lake Area: 14 Watershed Area: 109 WA/LA: 8.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.1 Turbidity: 0.3 Color: 30
Closed pH: 6.14 Equil. pH: 6.81 ANC: 46.4 DOC: 6.80
Closed DIC: 1.09 Equil. DIC: 0.52 Meas. Cond: 11.8 Cal. Cond: 11.2
Ca: 57.1 Mg: 30.8 Na: 10.0 K: 5.2 NH4: 1.9
SO4: 36.2 HCO3: 34.2 Cl: 5.6 NO3: 1.1 F: 0.9
Sum Cations: 105.7 Sum Anions: 78.1 Cations/Anions: 1.35 Tot. P: 6.0
Tot. Al: 18.5 Ext. Al: 9.0 Fe: 80.0 Mn: 10.0 SiO2: 0.85

ID: 2D1-045 Name: CROOKED LAKE State: WI Date: 12NOV84
Sample Type: REGULAR Latitude: 46-12'00"N Longitude: 91-39'00"W
Elevation: 334 Surface Temp: 2.9 Stratified: MIXED Site Depth: 2.4
Lake Area: 13 Watershed Area: 280 WA/LA: 21.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.9 Turbidity: 0.9 Color: 130
Closed pH: 6.23 Equil. pH: 6.95 ANC: 108.0 DOC: 13.50
Closed DIC: 1.44 Equil. DIC: 0.71 Meas. Cond: 18.7 Cal. Cond: 16.5
Ca: 89.3 Mg: 55.9 Na: 14.8 K: 11.3 NH4: 23.3
SO4: 25.4 HCO3: 46.0 Cl: 7.1 NO3: 1.8 F: 1.1
Sum Cations: 195.0 Sum Anions: 81.3 Cations/Anions: 2.40 Tot. P: 6.0
Tot. Al: 91.0 Ext. Al: 23.0 Fe: 710.0 Mn: 10.0 SiO2: 3.70

ID: 2D1-047 Name: SULLIVAN LAKE State: WI Date: 13NOV84
Sample Type: REGULAR Latitude: 46-11'15"N Longitude: 91-46'30"W
Elevation: 325 Surface Temp: 4.0 Stratified: MIXED Site Depth: 1.4
Lake Area: 33 Watershed Area: 194 WA/LA: 5.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.4 Turbidity: 0.7 Color: 25
Closed pH: 6.56 Equil. pH: 6.91 ANC: 58.4 DOC: 6.80
Closed DIC: 0.71 Equil. DIC: 0.46 Meas. Cond: 18.4 Cal. Cond: 20.0
Ca: 95.8 Mg: 49.4 Na: 14.4 K: 9.5 NH4: 1.6
SO4: 85.2 HCO3: 52.1 Cl: 9.9 NO3: 1.2 F: 1.2
Sum Cations: 171.0 Sum Anions: 149.6 Cations/Anions: 1.14 Tot. P: 12.0
Tot. Al: 16.0 Ext. Al: 5.0 Fe: 10.0 Mn: 0.0 SiO2: 0.04

(continued)

TABLE 3-1 (continued)

ID: 2D1-048 Name: CHAIN LAKES (NORTHWEST) State: WI Date: 12NOV84
Sample Type: REGULAR Latitude: 46-11'55"N Longitude: 91-44'20"W
Elevation: 328 Surface Temp: 3.0 Stratified: MIXED Site Depth: 1.3
Lake Area: 31 Watershed Area: 580 WA/LA: 18.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.3 Turbidity: 0.5 Color: 70
Closed pH: 5.69 Equil. pH: 6.00 ANC: 33.2 DOC: 10.70
Closed DIC: 0.65 Equil. DIC: 0.06 Meas. Cond: 9.8 Cal. Cond: 9.2
Ca: 44.9 Mg: 29.6 Na: 9.6 K: 8.9 NH4: 5.0
SO4: 23.3 HCO3: 7.0 Cl: 6.5 NO3: 2.7 F: 1.0
Sum Cations: 99.6 Sum Anions: 40.4 Cations/Anions: 2.46 Tot. P: 5.0
Tot. Al: 61.0 Ext. Al: 17.0 Fe: 370.0 Mn: 20.0 SiO2: 1.92

ID: 2D1-049 Name: (NO NAME) State: WI Date: 12NOV84
Sample Type: REGULAR Latitude: 46-11'02"N Longitude: 91-42'20"W
Elevation: 327 Surface Temp: 3.0 Stratified: MIXED Site Depth: 1.6
Lake Area: 8 Watershed Area: 85 WA/LA: 11.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.6 Turbidity: 0.7 Color: 30
Closed pH: 5.97 Equil. pH: 6.17 ANC: 26.4 DOC: 6.40
Closed DIC: 0.36 Equil. DIC: 0.33 Meas. Cond: 10.5 Cal. Cond: 10.4
Ca: 51.9 Mg: 25.5 Na: 7.0 K: 9.7 NH4: 1.7
SO4: 40.6 HCO3: 11.1 Cl: 5.6 NO3: 1.2 F: 1.1
Sum Cations: 97.2 Sum Anions: 59.6 Cations/Anions: 1.63 Tot. P: 16.0
Tot. Al: 19.0 Ext. Al: 15.0 Fe: 50.0 Mn: 10.0 SiO2: 0.16

ID: 2D1-050 Name: SNAKE LAKE State: WI Date: 07NOV84
Sample Type: REGULAR Latitude: 46-11'43"N Longitude: 91-40'05"W
Elevation: 329 Surface Temp: 4.9 Stratified: MIXED Site Depth: 10.4
Lake Area: 36 Watershed Area: 254 WA/LA: 7.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.1 Turbidity: 4.1 Color: 48
Closed pH: 7.16 Equil. pH: 7.94 ANC: 359.0 DOC: 4.50
Closed DIC: 4.54 Equil. DIC: 4.00 Meas. Cond: 42.4 Cal. Cond: 42.6
Ca: 237.0 Mg: 132.4 Na: 44.8 K: 8.7 NH4: 3.3
SO4: 32.7 HCO3: 334.3 Cl: 7.9 NO3: 0.9 F: 1.6
Sum Cations: 426.4 Sum Anions: 378.0 Cations/Anions: 1.13 Tot. P: 12.0
Tot. Al: 4.0 Ext. Al: 1.0 Fe: 580.0 Mn: 0.0 SiO2: 7.34

ID: 2D1-052 Name: ISLAND LAKE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 46-21'12"N Longitude: 91-46'04"W
Elevation: 328 Surface Temp: 2.9 Stratified: MIXED Site Depth: 2.8
Lake Area: 19 Watershed Area: 129 WA/LA: 7.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.8 Turbidity: 0.4 Color: 20
Closed pH: 6.89 Equil. pH: 7.13 ANC: 85.6 DOC: 4.50
Closed DIC: 1.08 Equil. DIC: 1.17 Meas. Cond: 16.4 Cal. Cond: 19.0
Ca: 86.3 Mg: 51.0 Na: 23.1 K: 8.7 NH4: 1.8
SO4: 66.0 HCO3: 70.7 Cl: 8.5 NO3: 0.0 F: 1.2
Sum Cations: 171.1 Sum Anions: 146.4 Cations/Anions: 1.17 Tot. P: 1.0
Tot. Al: 6.0 Ext. Al: 1.0 Fe: 0.0 Mn: 0.0 SiO2: 2.21

ID: 2D1-055 Name: DEER PRINT LAKE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 46-21'35"N Longitude: 91-37'09"W
Elevation: 344 Surface Temp: 2.5 Stratified: MIXED Site Depth: 2.7
Lake Area: 8 Watershed Area: 36 WA/LA: 4.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.6 Turbidity: 0.7 Color: 26
Closed pH: 6.66 Equil. pH: 6.81 ANC: 65.5 DOC: 4.70
Closed DIC: 0.87 Equil. DIC: 0.92 Meas. Cond: 12.9 Cal. Cond: 16.6
Ca: 62.9 Mg: 55.9 Na: 17.4 K: 9.2 NH4: 0.2
SO4: 55.2 HCO3: 73.3 Cl: 7.1 NO3: 0.0 F: 1.2
Sum Cations: 145.9 Sum Anions: 136.7 Cations/Anions: 1.07 Tot. P: 5.0
Tot. Al: 13.0 Ext. Al: 3.0 Fe: 10.0 Mn: 10.0 SiO2: 0.45

(continued)

TABLE 3-1 (continued)

ID: 2D1-056 Name: BLUEGILL LAKE State: WI Date: 06NOV84
Sample Type: REGULAR Latitude: 46-12'40"N Longitude: 91-51'38"W
Elevation: 315 Surface Temp: 5.8 Stratified: MIXED Site Depth: 23.2
Lake Area: 8 Watershed Area: 34 WA/LA: 4.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.4 Turbidity: 0.6 Color: 20
Closed pH: 6.29 Equil. pH: 7.21 ANC: 72.0 DOC: 3.30
Closed DIC: 2.09 Equil. DIC: 0.92 Meas. Cond: 16.4 Cal. Cond: 16.2
Ca: 62.9 Mg: 39.5 Na: 22.2 K: 10.7 NH4: 5.0
SO4: 46.0 HCO3: 78.2 Cl: 9.6 NO3: 0.2 F: 0.9
Sum Cations: 140.7 Sum Anions: 135.0 Cations/Anions: 1.04 Tot. P: 12.0
Tot. Al: 13.0 Ext. Al: 0.0 Fe: 160.0 Mn: 30.0 SiO2: 0.08

ID: 2D1-061 Name: GANDER LAKE State: WI Date: 07NOV84
Sample Type: REGULAR Latitude: 46-27'15"N Longitude: 91-43'45"W
Elevation: 344 Surface Temp: 3.3 Stratified: MIXED Site Depth: 7.9
Lake Area: 21 Watershed Area: 236 WA/LA: 11.5 Hydro Type: DRAINAGE
Residence Time: 1.04 Secchi Depth: 0.9 Turbidity: 5.6 Color: 120
Closed pH: 7.18 Equil. pH: 7.94 ANC: 379.0 DOC: 11.60
Closed DIC: 4.39 Equil. DIC: 3.93 Meas. Cond: 48.0 Cal. Cond: 48.0
Ca: 324.8 Mg: 136.6 Na: 32.6 K: 13.8 NH4: 5.0
SO4: 39.3 HCO3: 319.2 Cl: 7.9 NO3: 4.0 F: 1.8
Sum Cations: 512.9 Sum Anions: 372.8 Cations/Anions: 1.38 Tot. P: 21.0
Tot. Al: 75.0 Ext. Al: 6.0 Fe: 1120.0 Mn: 70.0 SiO2: 4.81

ID: 2D1-063 Name: BOOT LAKE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 46-20'18"N Longitude: 91-37'48"W
Elevation: 347 Surface Temp: 2.7 Stratified: MIXED Site Depth: 1.8
Lake Area: 9 Watershed Area: 109 WA/LA: 12.4 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 1.8 Turbidity: 0.5 Color: 38
Closed pH: 6.74 Equil. pH: 7.20 ANC: 145.0 DOC: 5.70
Closed DIC: 2.06 Equil. DIC: 1.87 Meas. Cond: 17.7 Cal. Cond: 21.1
Ca: 91.3 Mg: 62.5 Na: 29.6 K: 17.9 NH4: 1.6
SO4: 29.6 HCO3: 138.7 Cl: 9.6 NO3: 1.0 F: 1.3
Sum Cations: 203.1 Sum Anions: 180.3 Cations/Anions: 1.13 Tot. P: 18.0
Tot. Al: 10.0 Ext. Al: 3.0 Fe: 100.0 Mn: 10.0 SiO2: 2.46

ID: 2D1-065 Name: LUND LAKE State: WI Date: 07NOV84
Sample Type: REGULAR Latitude: 46-19'05"N Longitude: 91-34'45"W
Elevation: 355 Surface Temp: 3.9 Stratified: MIXED Site Depth: 8.8
Lake Area: 23 Watershed Area: 119 WA/LA: 5.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.7 Turbidity: 0.8 Color: 47
Closed pH: 6.33 Equil. pH: 6.91 ANC: 62.0 DOC: 6.40
Closed DIC: 1.02 Equil. DIC: 0.53 Meas. Cond: 16.1 Cal. Cond: 14.9
Ca: 67.9 Mg: 49.4 Na: 16.1 K: 11.0 NH4: 1.1
SO4: 48.9 HCO3: 41.0 Cl: 7.1 NO3: 0.7 F: 0.9
Sum Cations: 145.9 Sum Anions: 98.6 Cations/Anions: 1.48 Tot. P: 14.0
Tot. Al: 59.0 Ext. Al: 13.0 Fe: 290.0 Mn: 10.0 SiO2: 0.30

ID: 2D1-067 Name: BEGLINGER LAKE State: WI Date: 06NOV84
Sample Type: REGULAR Latitude: 46-13'13"N Longitude: 91-50'54"W
Elevation: 315 Surface Temp: 3.3 Stratified: MIXED Site Depth: 5.4
Lake Area: 8 Watershed Area: 39 WA/LA: 4.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.0 Turbidity: 0.6 Color: 27
Closed pH: 6.28 Equil. pH: 7.00 ANC: 46.0 DOC: 5.10
Closed DIC: 1.11 Equil. DIC: 0.61 Meas. Cond: 12.8 Cal. Cond: 12.1
Ca: 59.4 Mg: 38.7 Na: 8.7 K: 2.3 NH4: 0.6
SO4: 37.9 HCO3: 42.9 Cl: 9.0 NO3: 0.0 F: 0.8
Sum Cations: 110.1 Sum Anions: 90.6 Cations/Anions: 1.21 Tot. P: 13.0
Tot. Al: 20.0 Ext. Al: 1.0 Fe: 90.0 Mn: 10.0 SiO2: 0.02

(continued)

TABLE 3-1 (continued)

ID: 2D1-068 Name: (NO NAME) State: WI Date: 08NOV84
Sample Type: REGULAR Latitude: 46-15'14"N Longitude: 91-40'09"W
Elevation: 332 Surface Temp: 3.8 Stratified: MIXED Site Depth: 3.7
Lake Area: 6 Watershed Area: 23 WA/LA: 4.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.7 Turbidity: 0.8 Color: 25
Closed pH: 6.77 Equil. pH: 7.15 ANC: 72.0 DOC: 5.90
Closed DIC: 0.80 Equil. DIC: 1.02 Meas. Cond: 14.2 Cal. Cond: 13.0
Ca: 71.4 Mg: 37.8 Na: 10.9 K: 7.7 NH4: 1.7
SO4: 33.9 HCO3: 47.9 Cl: 7.1 NO3: 0.0 F: 1.1
Sum Cations: 129.7 Sum Anions: 90.0 Cations/Anions: 1.44 Tot. P: 16.0
Tot. Al: 14.0 Ext. Al: 2.0 Fe: 40.0 Mn: 0.0 SiO2: 0.07

ID: 2D1-072 Name: ALEXANDER LAKE State: WI Date: 07NOV84
Sample Type: REGULAR Latitude: 46-13'06"N Longitude: 91-40'50"W
Elevation: 331 Surface Temp: 3.1 Stratified: MIXED Site Depth: 2.4
Lake Area: 20 Watershed Area: 91 WA/LA: 4.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.2 Turbidity: 0.4 Color: 30
Closed pH: 6.21 Equil. pH: 6.50 ANC: 26.0 DOC: 5.70
Closed DIC: 0.37 Equil. DIC: 0.29 Meas. Cond: 14.4 Cal. Cond: 12.6
Ca: 48.9 Mg: 42.8 Na: 16.1 K: 9.2 NH4: 0.6
SO4: 56.0 HCO3: 12.0 Cl: 5.9 NO3: 0.5 F: 1.0
Sum Cations: 118.5 Sum Anions: 75.3 Cations/Anions: 1.57 Tot. P: 11.0
Tot. Al: 16.0 Ext. Al: 8.0 Fe: 60.0 Mn: 0.0 SiO2: 0.42

ID: 2D1-076 Name: CHENEY LAKE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 46-22'54"N Longitude: 91-42'02"W
Elevation: 340 Surface Temp: 3.4 Stratified: MIXED Site Depth: 2.7
Lake Area: 8 Watershed Area: 62 WA/LA: 7.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.6 Turbidity: 0.5 Color: 25
Closed pH: 7.02 Equil. pH: 7.35 ANC: 155.5 DOC: 5.70
Closed DIC: 1.85 Equil. DIC: 1.56 Meas. Cond: 18.7 Cal. Cond: 26.3
Ca: 125.2 Mg: 78.1 Na: 28.3 K: 11.0 NH4: 1.6
SO4: 76.4 HCO3: 120.4 Cl: 8.7 NO3: 1.1 F: 1.2
Sum Cations: 244.3 Sum Anions: 207.9 Cations/Anions: 1.18 Tot. P: 19.0
Tot. Al: 13.0 Ext. Al: 2.0 Fe: 10.0 Mn: 10.0 SiO2: 1.01

ID: 2D1-077 Name: LONG LAKE State: WI Date: 12NOV84
Sample Type: REGULAR Latitude: 46-20'08"N Longitude: 91-46'49"W
Elevation: 328 Surface Temp: 3.2 Stratified: MIXED Site Depth: 7.0
Lake Area: 19 Watershed Area: 124 WA/LA: 6.7 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 2.1 Turbidity: 2.2 Color: 35
Closed pH: 7.47 Equil. pH: 8.06 ANC: 628.3 DOC: 3.80
Closed DIC: 7.71 Equil. DIC: 7.71 Meas. Cond: 75.6 Cal. Cond: 75.9
Ca: 428.6 Mg: 192.5 Na: 49.2 K: 11.5 NH4: 2.2
SO4: 74.7 HCO3: 661.6 Cl: 9.9 NO3: 2.9 F: 1.8
Sum Cations: 684.0 Sum Anions: 754.3 Cations/Anions: 0.91 Tot. P: 7.0
Tot. Al: 6.0 Ext. Al: 3.0 Fe: 470.0 Mn: 0.0 SiO2: 15.48

ID: 2D1-078 Name: TWIN LAKES (NORTHERN) State: WI Date: 08NOV84
Sample Type: REGULAR Latitude: 46-21'12"N Longitude: 91-44'00"W
Elevation: 334 Surface Temp: 4.0 Stratified: MIXED Site Depth: 1.2
Lake Area: 49 Watershed Area: 1184 WA/LA: 24.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.2 Turbidity: 1.0 Color: 21
Closed pH: 6.89 Equil. pH: 7.24 ANC: 79.0 DOC: 5.60
Closed DIC: 0.79 Equil. DIC: 1.05 Meas. Cond: 21.9 Cal. Cond: 20.7
Ca: 83.8 Mg: 76.5 Na: 22.2 K: 8.2 NH4: 0.0
SO4: 82.7 HCO3: 48.7 Cl: 13.3 NO3: 0.4 F: 1.3
Sum Cations: 191.0 Sum Anions: 146.3 Cations/Anions: 1.31 Tot. P: 15.0
Tot. Al: 17.0 Ext. Al: 2.0 Fe: 10.0 Mn: 0.0 SiO2: 0.44

(continued)

TABLE 3-1 (continued)

ID: 2D1-081 Name: HARRIET LAKE State: WI Date: 06NOV84
Sample Type: REGULAR Latitude: 46-13'07"N Longitude: 91-47'30"W
Elevation: 319 Surface Temp: 3.2 Stratified: MIXED Site Depth: 2.7
Lake Area: 6 Watershed Area: 52 WA/LA: 9.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.3 Turbidity: 0.7 Color: 30
Closed pH: 6.28 Equil. pH: 6.95 ANC: 51.0 DOC: 8.20
Closed DIC: 1.11 Equil. DIC: 0.56 Meas. Cond: 12.6 Cal. Cond: 12.6
Ca: 61.4 Mg: 39.5 Na: 15.2 K: 5.9 NH4: 2.8
SO4: 31.4 HCO3: 47.8 Cl: 7.3 NO3: 0.7 F: 0.8
Sum Cations: 125.2 Sum Anions: 88.0 Cations/Anions: 1.42 Tot. P: 13.0
Tot. Al: 28.0 Ext. Al: 4.0 Fe: 70.0 Mn: 0.0 SiO2: 0.05

ID: 2D1-082 Name: PINE LAKE State: WI Date: 07NOV84
Sample Type: REGULAR Latitude: 46-30'29"N Longitude: 91-39'10"W
Elevation: 348 Surface Temp: 3.9 Stratified: MIXED Site Depth: 2.5
Lake Area: 7 Watershed Area: 67 WA/LA: 10.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.5 Turbidity: 0.6 Color: 26
Closed pH: 6.11 Equil. pH: 6.62 ANC: 22.0 DOC: 4.60
Closed DIC: 0.63 Equil. DIC: 0.34 Meas. Cond: 10.9 Cal. Cond: 11.2
Ca: 28.4 Mg: 28.8 Na: 7.0 K: 18.4 NH4: 0.0
SO4: 50.8 HCO3: 22.0 Cl: 11.3 NO3: 0.0 F: 0.7
Sum Cations: 83.5 Sum Anions: 84.8 Cations/Anions: 0.98 Tot. P: 11.0
Tot. Al: 28.0 Ext. Al: 8.0 Fe: 40.0 Mn: 0.0 SiO2: 0.07

ID: 2D1-084 Name: FLAT LAKE State: WI Date: 08NOV84
Sample Type: REGULAR Latitude: 46-19'30"N Longitude: 91-43'53"W
Elevation: 331 Surface Temp: 4.3 Stratified: MIXED Site Depth: 1.2
Lake Area: 26 Watershed Area: 1181 WA/LA: 44.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.2 Turbidity: 1.2 Color: 32
Closed pH: 6.45 Equil. pH: 6.96 ANC: 61.0 DOC: 10.70
Closed DIC: 0.97 Equil. DIC: 0.71 Meas. Cond: 15.4 Cal. Cond: 14.8
Ca: 62.4 Mg: 48.5 Na: 20.4 K: 8.2 NH4: 0.6
SO4: 47.9 HCO3: 38.1 Cl: 13.3 NO3: 0.7 F: 1.1
Sum Cations: 140.6 Sum Anions: 101.1 Cations/Anions: 1.39 Tot. P: 13.0
Tot. Al: 26.0 Ext. Al: 6.0 Fe: 50.0 Mn: 0.0 SiO2: 0.70

ID: 2D1-088 Name: (NO NAME) State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 46-22'14"N Longitude: 91-36'29"W
Elevation: 351 Surface Temp: 3.2 Stratified: MIXED Site Depth: 3.8
Lake Area: 6 Watershed Area: 26 WA/LA: 4.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.7 Turbidity: 0.6 Color: 15
Closed pH: 7.09 Equil. pH: 7.29 ANC: 134.0 DOC: 4.20
Closed DIC: 1.64 Equil. DIC: 1.60 Meas. Cond: 19.5 Cal. Cond: 22.5
Ca: 94.3 Mg: 68.3 Na: 32.6 K: 9.7 NH4: 0.7
SO4: 56.8 HCO3: 124.7 Cl: 8.7 NO3: 0.0 F: 1.3
Sum Cations: 205.7 Sum Anions: 191.6 Cations/Anions: 1.07 Tot. P: 3.0
Tot. Al: 4.0 Ext. Al: 1.0 Fe: 20.0 Mn: 0.0 SiO2: 2.66

ID: 2D2-001 Name: BALLON LAKE State: MN Date: 28OCT84
Sample Type: REGULAR Latitude: 47-29'00"N Longitude: 93-40'00"W
Elevation: 414 Surface Temp: 8.0 Stratified: MIXED Site Depth: 11.0
Lake Area: 10 Watershed Area: 41 WA/LA: 4.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.9 Turbidity: 1.8 Color: 43
Closed pH: 7.50 Equil. pH: 8.83 ANC: 2015.0 DOC: 6.60
Closed DIC: 24.38 Equil. DIC: 22.56 Meas. Cond: 184.7 Cal. Cond: 202.9
Ca: 1305.4 Mg: 557.7 Na: 88.7 K: 35.5 NH4: 19.4
SO4: 11.5 HCO3: 1899.7 Cl: 13.3 NO3: 0.1 F: 3.6
Sum Cations: 2006.8 Sum Anions: 1936.2 Cations/Anions: 1.04 Tot. P: 32.0
Tot. Al: 8.0 Ext. Al: 0.0 Fe: 380.0 Mn: 90.0 SiO2: 4.13

(continued)

TABLE 3-1 (continued)

ID: 2D2-006 Name: EVELYN LAKE State: WI Date: 01NOV84
Sample Type: REGULAR Latitude: 46-09'15"N Longitude: 91-02'00"W
Elevation: 441 Surface Temp: 5.5 Stratified: MIXED Site Depth: 4.0
Lake Area: 7 Watershed Area: 28 WA/LA: 3.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.3 Turbidity: 0.6 Color: 17
Closed pH: 5.73 Equil. pH: 5.91 ANC: 6.0 DOC: 3.70
Closed DIC: 0.34 Equil. DIC: 0.20 Meas. Cond: 10.6 Cal. Cond: 10.5
Ca: 35.4 Mg: 21.4 Na: 5.2 K: 11.8 NH4: 1.7
SO4: 53.9 HCO3: 4.3 Cl: 6.2 NO3: 0.0 F: 0.7
Sum Cations: 78.3 Sum Anions: 65.1 Cations/Anions: 1.20 Tot. P: 18.0
Tot. Al: 23.0 Ext. Al: 5.0 Fe: 20.0 Mn: 20.0 SiO2: 0.02

ID: 2D2-008 Name: (NO NAME) State: MN Date: 28OCT84
Sample Type: REGULAR Latitude: 46-19'30"N Longitude: 92-51'45"W
Elevation: 322 Surface Temp: 8.4 Stratified: MIXED Site Depth: 1.8
Lake Area: 7 Watershed Area: 36 WA/LA: 5.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.0 Turbidity: 1.5 Color: 58
Closed pH: 6.79 Equil. pH: 7.34 ANC: 153.0 DOC: 8.60
Closed DIC: 2.19 Equil. DIC: 1.61 Meas. Cond: 22.9 Cal. Cond: 21.5
Ca: 92.3 Mg: 85.5 Na: 27.4 K: 22.5 NH4: 2.8
SO4: 17.9 HCO3: 120.4 Cl: 17.2 NO3: 0.2 F: 1.4
Sum Cations: 230.8 Sum Anions: 157.1 Cations/Anions: 1.47 Tot. P: 29.0
Tot. Al: 58.0 Ext. Al: 7.0 Fe: 130.0 Mn: 0.0 SiO2: 1.27

ID: 2D2-010 Name: GRASS LAKE State: MN Date: 28OCT84
Sample Type: REGULAR Latitude: 46-09'55"N Longitude: 92-58'20"W
Elevation: 342 Surface Temp: 8.0 Stratified: MIXED Site Depth: 1.5
Lake Area: 30 Watershed Area: 106 WA/LA: 3.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.4 Turbidity: 1.2 Color: 60
Closed pH: 6.34 Equil. pH: 7.11 ANC: 78.0 DOC: 11.70
Closed DIC: 1.06 Equil. DIC: 0.63 Meas. Cond: 15.3 Cal. Cond: 12.8
Ca: 47.9 Mg: 59.2 Na: 27.4 K: 15.1 NH4: 2.8
SO4: 18.3 HCO3: 36.1 Cl: 10.2 NO3: 0.5 F: 1.3
Sum Cations: 153.0 Sum Anions: 66.4 Cations/Anions: 2.30 Tot. P: 17.0
Tot. Al: 52.0 Ext. Al: 15.0 Fe: 100.0 Mn: 10.0 SiO2: 0.28

ID: 2D2-011 Name: (NO NAME) State: MN Date: 28OCT84
Sample Type: REGULAR Latitude: 46-07'40"N Longitude: 92-55'05"W
Elevation: 336 Surface Temp: 7.8 Stratified: MIXED Site Depth: 3.7
Lake Area: 5 Watershed Area: 16 WA/LA: 3.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.7 Turbidity: 0.6 Color: 32
Closed pH: 7.12 Equil. pH: 7.96 ANC: 495.0 DOC: 4.30
Closed DIC: 6.49 Equil. DIC: 5.62 Meas. Cond: 59.3 Cal. Cond: 63.4
Ca: 281.4 Mg: 223.7 Na: 80.9 K: 20.5 NH4: 3.3
SO4: 72.7 HCO3: 462.9 Cl: 29.6 NO3: 0.8 F: 4.2
Sum Cations: 609.9 Sum Anions: 570.9 Cations/Anions: 1.07 Tot. P: 14.0
Tot. Al: 25.0 Ext. Al: 1.0 Fe: 110.0 Mn: 0.0 SiO2: 2.84

ID: 2D2-012 Name: CROOKED LAKE State: MN Date: 28OCT84
Sample Type: REGULAR Latitude: 46-07'15"N Longitude: 92-33'00"W
Elevation: 319 Surface Temp: 7.8 Stratified: MIXED Site Depth: 1.2
Lake Area: 39 Watershed Area: 5954 WA/LA: 153.8 Hydro Type: DRAINAGE
Residence Time: 0.03 Secchi Depth: 0.4 Turbidity: 4.1 Color: 150
Closed pH: 7.25 Equil. pH: 7.98 ANC: 503.0 DOC: 15.70
Closed DIC: 5.36 Equil. DIC: 4.76 Meas. Cond: 61.1 Cal. Cond: 64.7
Ca: 343.3 Mg: 252.5 Na: 78.7 K: 16.1 NH4: 2.8
SO4: 70.0 HCO3: 397.7 Cl: 22.8 NO3: 4.5 F: 2.1
Sum Cations: 693.5 Sum Anions: 497.9 Cations/Anions: 1.39 Tot. P: 38.0
Tot. Al: 132.0 Ext. Al: 22.0 Fe: 450.0 Mn: 10.0 SiO2: 8.90

(continued)

TABLE 3-1 (continued)

ID: 2D2-016 Name: GULL LAKE State: WI Date: 04NOV84
Sample Type: REGULAR Latitude: 45-59'22"N Longitude: 91-44'59"W
Elevation: 335 Surface Temp: 4.1 Stratified: MIXED Site Depth: 5.2
Lake Area: 208 Watershed Area: 1564 WA/LA: 7.5 Hydro Type: DRAINAGE
Residence Time: 0.96 Secchi Depth: 2.4 Turbidity: 1.1 Color: 26
Closed pH: 7.85 Equil. pH: 8.44 ANC: 944.3 DOC: 5.90
Closed DIC: 11.07 Equil. DIC: 10.80 Meas. Cond: 99.2 Cal. Cond: 105.4
Ca: 616.3 Mg: 324.9 Na: 76.1 K: 10.7 NH4: 0.6
SO4: 59.5 HCO3: 903.8 Cl: 19.7 NO3: 0.0 F: 2.3
Sum Cations: 1028.6 Sum Anions: 989.9 Cations/Anions: 1.04 Tot. P: 17.0
Tot. Al: 3.0 Ext. Al: 2.0 Fe: 20.0 Mn: 0.0 SiO2: 2.43

ID: 2D2-017 Name: (NO NAME) State: WI Date: 04NOV84
Sample Type: REGULAR Latitude: 45-58'37"N Longitude: 91-49'50"W
Elevation: 332 Surface Temp: 4.7 Stratified: MIXED Site Depth: 6.1
Lake Area: 6 Watershed Area: 18 WA/LA: 2.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.9 Turbidity: 0.8 Color: 32
Closed pH: 6.64 Equil. pH: 7.24 ANC: 77.0 DOC: 3.60
Closed DIC: 1.49 Equil. DIC: 0.90 Meas. Cond: 34.5 Cal. Cond: 35.0
Ca: 55.9 Mg: 62.5 Na: 143.5 K: 19.9 NH4: 6.7
SO4: 25.6 HCO3: 67.5 Cl: 182.2 NO3: 1.7 F: 1.0
Sum Cations: 288.9 Sum Anions: 278.0 Cations/Anions: 1.04 Tot. P: 21.0
Tot. Al: 10.0 Ext. Al: 2.0 Fe: 220.0 Mn: 0.0 SiO2: 0.27

ID: 2D2-019 Name: TANDA LAKE State: WI Date: 28OCT84
Sample Type: REGULAR Latitude: 45-56'48"N Longitude: 92-16'22"W
Elevation: 296 Surface Temp: 8.5 Stratified: MIXED Site Depth: 1.8
Lake Area: 15 Watershed Area: 75 WA/LA: 4.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.9 Turbidity: 4.8 Color: 115
Closed pH: 7.05 Equil. pH: 7.76 ANC: 312.0 DOC: 9.90
Closed DIC: 3.76 Equil. DIC: 3.24 Meas. Cond: 36.2 Cal. Cond: 34.9
Ca: 181.1 Mg: 130.8 Na: 53.1 K: 10.7 NH4: 5.5
SO4: 18.5 HCO3: 248.1 Cl: 7.6 NO3: 0.3 F: 2.3
Sum Cations: 381.4 Sum Anions: 277.1 Cations/Anions: 1.38 Tot. P: 32.0
Tot. Al: 35.0 Ext. Al: 2.0 Fe: 410.0 Mn: 0.0 SiO2: 7.18

ID: 2D2-022 Name: (NO NAME) State: WI Date: 03NOV84
Sample Type: REGULAR Latitude: 45-55'45"N Longitude: 92-03'33"W
Elevation: 303 Surface Temp: 2.4 Stratified: MIXED Site Depth: 3.4
Lake Area: 10 Watershed Area: 60 WA/LA: 6.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.7 Turbidity: 1.1 Color: 123
Closed pH: 6.75 Equil. pH: 7.91 ANC: 433.5 DOC: 15.00
Closed DIC: 5.77 Equil. DIC: 3.92 Meas. Cond: 48.2 Cal. Cond: 48.6
Ca: 251.0 Mg: 161.2 Na: 55.2 K: 30.3 NH4: 14.1
SO4: 26.9 HCO3: 334.5 Cl: 23.8 NO3: 1.2 F: 1.8
Sum Cations: 512.1 Sum Anions: 388.5 Cations/Anions: 1.32 Tot. P: 18.5
Tot. Al: 76.0 Ext. Al: 19.0 Fe: 550.0 Mn: 0.0 SiO2: 7.00

ID: 2D2-023 Name: VIOLA LAKE State: WI Date: 03NOV84
Sample Type: REGULAR Latitude: 45-49'04"N Longitude: 92-15'00"W
Elevation: 299 Surface Temp: 5.8 Stratified: MIXED Site Depth: 11.0
Lake Area: 108 Watershed Area: 225 WA/LA: 2.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.1 Turbidity: 0.4 Color: 12
Closed pH: 7.11 Equil. pH: 7.31 ANC: 161.0 DOC: 4.10
Closed DIC: 2.11 Equil. DIC: 2.06 Meas. Cond: 28.5 Cal. Cond: 28.1
Ca: 139.2 Mg: 80.6 Na: 25.2 K: 18.9 NH4: 0.6
SO4: 45.6 HCO3: 158.0 Cl: 19.2 NO3: 8.7 F: 1.5
Sum Cations: 264.6 Sum Anions: 233.2 Cations/Anions: 1.14 Tot. P: 9.0
Tot. Al: 13.0 Ext. Al: 1.0 Fe: 20.0 Mn: 0.0 SiO2: 0.14

(continued)

TABLE 3-1 (continued)

ID: 2D2-024 Name: ALDER LAKE State: WI Date: 04NOV84
Sample Type: REGULAR Latitude: 45-46'52"N Longitude: 91-45'45"W
Elevation: 386 Surface Temp: 4.4 Stratified: MIXED Site Depth: 7.0
Lake Area: 5 Watershed Area: 83 WA/LA: 15.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.5 Turbidity: 0.8 Color: 60
Closed pH: 6.26 Equil. pH: 7.40 ANC: 143.0 DOC: 7.40
Closed DIC: 3.54 Equil. DIC: 1.47 Meas. Cond: 21.4 Cal. Cond: 21.6
Ca: 97.8 Mg: 64.2 Na: 24.4 K: 19.9 NH4: 5.5
SO4: 26.4 HCO3: 140.6 Cl: 9.6 NO3: 0.6 F: 1.2
Sum Cations: 212.1 Sum Anions: 178.4 Cations/Anions: 1.19 Tot. P: 17.0
Tot. Al: 29.0 Ext. Al: 7.0 Fe: 480.0 Mn: 0.0 SiO2: 0.73

ID: 2D2-025 Name: HARMON LAKE State: WI Date: 04NOV84
Sample Type: REGULAR Latitude: 45-46'42"N Longitude: 91-39'50"W
Elevation: 379 Surface Temp: 4.6 Stratified: MIXED Site Depth: 5.1
Lake Area: 40 Watershed Area: 285 WA/LA: 7.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.4 Turbidity: 0.8 Color: 38
Closed pH: 6.77 Equil. pH: 7.28 ANC: 113.0 DOC: 6.40
Closed DIC: 1.55 Equil. DIC: 1.23 Meas. Cond: 20.1 Cal. Cond: 18.9
Ca: 85.8 Mg: 55.1 Na: 22.6 K: 18.7 NH4: 2.2
SO4: 45.0 HCO3: 85.5 Cl: 7.6 NO3: 1.2 F: 1.0
Sum Cations: 184.7 Sum Anions: 140.3 Cations/Anions: 1.32 Tot. P: 22.0
Tot. Al: 15.0 Ext. Al: 3.0 Fe: 50.0 Mn: 0.0 SiO2: 0.08

ID: 2D2-026 Name: (NO NAME) State: WI Date: 04NOV84
Sample Type: REGULAR Latitude: 45-46'50"N Longitude: 91-34'17"W
Elevation: 408 Surface Temp: 3.9 Stratified: MIXED Site Depth: 7.0
Lake Area: 13 Watershed Area: 83 WA/LA: 6.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.2 Turbidity: 0.7 Color: 66
Closed pH: 6.42 Equil. pH: 7.17 ANC: 120.0 DOC: 8.50
Closed DIC: 2.04 Equil. DIC: 1.16 Meas. Cond: 18.0 Cal. Cond: 16.6
Ca: 78.3 Mg: 55.9 Na: 18.3 K: 21.5 NH4: 5.0
SO4: 15.0 HCO3: 94.0 Cl: 7.1 NO3: 0.9 F: 0.9
Sum Cations: 179.3 Sum Anions: 117.9 Cations/Anions: 1.52 Tot. P: 21.0
Tot. Al: 35.0 Ext. Al: 12.0 Fe: 150.0 Mn: 0.0 SiO2: 1.00

ID: 2D2-027 Name: (NO NAME) State: WI Date: 04NOV84
Sample Type: REGULAR Latitude: 45-43'47"N Longitude: 91-49'55"W
Elevation: 404 Surface Temp: 2.6 Stratified: MIXED Site Depth: 2.7
Lake Area: 8 Watershed Area: 67 WA/LA: 8.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.6 Turbidity: 1.2 Color: 42
Closed pH: 6.70 Equil. pH: 6.37 ANC: 27.0 DOC: 8.90
Closed DIC: 0.53 Equil. DIC: 0.28 Meas. Cond: 12.7 Cal. Cond: 11.5
Ca: 37.9 Mg: 38.7 Na: 11.3 K: 23.0 NH4: 0.6
SO4: 42.1 HCO3: 11.6 Cl: 5.6 NO3: 0.7 F: 1.2
Sum Cations: 112.7 Sum Anions: 61.3 Cations/Anions: 1.84 Tot. P: 25.0
Tot. Al: 44.0 Ext. Al: 18.0 Fe: 40.0 Mn: 0.0 SiO2: 0.09

ID: 2D2-030 Name: (NO NAME) State: WI Date: 04NOV84
Sample Type: REGULAR Latitude: 45-44'44"N Longitude: 91-34'40"W
Elevation: 405 Surface Temp: 4.0 Stratified: MIXED Site Depth: 5.5
Lake Area: 4 Watershed Area: 16 WA/LA: 3.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.1 Turbidity: 0.5 Color: 26
Closed pH: 6.15 Equil. pH: 6.89 ANC: 36.0 DOC: 4.80
Closed DIC: 0.84 Equil. DIC: 0.44 Meas. Cond: 15.1 Cal. Cond: 14.4
Ca: 46.9 Mg: 40.3 Na: 15.7 K: 17.1 NH4: 1.7
SO4: 63.9 HCO3: 24.9 Cl: 8.5 NO3: 2.1 F: 0.9
Sum Cations: 122.5 Sum Anions: 100.3 Cations/Anions: 1.22 Tot. P: 20.0
Tot. Al: 32.0 Ext. Al: 12.0 Fe: 670.0 Mn: 20.0 SiO2: 0.01

(continued)

TABLE 3-1 (continued)

ID: 2D2-031 Name: SAWMILL LAKE State: WI Date: 04NOV84
Sample Type: REGULAR Latitude: 45-45'12"N Longitude: 91-33'22"W
Elevation: 421 Surface Temp: 6.2 Stratified: MIXED Site Depth: 7.6
Lake Area: 6 Watershed Area: 18 WA/LA: 3.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.9 Turbidity: 0.5 Color: 16
Closed pH: 6.21 Equil. pH: 6.87 ANC: 43.0 DOC: 3.40
Closed DIC: 0.97 Equil. DIC: 0.52 Meas. Cond: 16.8 Cal. Cond: 16.6
Ca: 56.9 Mg: 44.4 Na: 15.7 K: 19.2 NH4: 0.6
SO4: 75.6 HCO3: 36.3 Cl: 9.6 NO3: 0.0 F: 0.9
Sum Cations: 137.2 Sum Anions: 122.3 Cations/Anions: 1.12 Tot. P: 14.0
Tot. Al: 14.0 Ext. Al: 3.0 Fe: 60.0 Mn: 0.0 SiO2: 0.02

ID: 2D2-033 Name: SHALLOW LAKE State: WI Date: 04NOV84
Sample Type: REGULAR Latitude: 45-41'00"N Longitude: 91-52'54"W
Elevation: 389 Surface Temp: 2.7 Stratified: MIXED Site Depth: 2.7
Lake Area: 26 Watershed Area: 492 WA/LA: 19.3 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 0.9 Turbidity: 2.5 Color: 59
Closed pH: 6.68 Equil. pH: 7.18 ANC: 85.0 DOC: 9.50
Closed DIC: 1.04 Equil. DIC: 0.77 Meas. Cond: 17.4 Cal. Cond: 14.9
Ca: 58.9 Mg: 42.8 Na: 21.3 K: 27.9 NH4: 7.2
SO4: 28.3 HCO3: 48.5 Cl: 8.5 NO3: 3.2 F: 1.1
Sum Cations: 158.4 Sum Anions: 89.6 Cations/Anions: 1.77 Tot. P: 38.0
Tot. Al: 47.0 Ext. Al: 9.0 Fe: 60.0 Mn: 0.0 SiO2: 0.23

ID: 2D2-035 Name: (NO NAME) State: WI Date: 04NOV84
Sample Type: REGULAR Latitude: 45-42'21"N Longitude: 91-36'25"W
Elevation: 398 Surface Temp: 4.7 Stratified: MIXED Site Depth: 4.6
Lake Area: 9 Watershed Area: 28 WA/LA: 3.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.5 Turbidity: 0.4 Color: 24
Closed pH: 6.09 Equil. pH: 6.79 ANC: 25.4 DOC: 4.60
Closed DIC: 0.97 Equil. DIC: 0.42 Meas. Cond: 14.3 Cal. Cond: 13.9
Ca: 46.4 Mg: 37.8 Na: 10.9 K: 20.5 NH4: 1.1
SO4: 60.2 HCO3: 26.2 Cl: 7.3 NO3: 2.0 F: 0.7
Sum Cations: 117.4 Sum Anions: 96.4 Cations/Anions: 1.22 Tot. P: 13.0
Tot. Al: 12.0 Ext. Al: 6.0 Fe: 50.0 Mn: 0.0 SiO2: 0.06

ID: 2D2-036 Name: (NO NAME) State: WI Date: 04NOV84
Sample Type: REGULAR Latitude: 45-41'32"N Longitude: 91-35'22"W
Elevation: 394 Surface Temp: 4.8 Stratified: MIXED Site Depth: 7.6
Lake Area: 5 Watershed Area: 13 WA/LA: 2.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.1 Turbidity: 0.8 Color: 77
Closed pH: 5.57 Equil. pH: 6.35 ANC: 28.0 DOC: 7.90
Closed DIC: 1.34 Equil. DIC: 0.21 Meas. Cond: 14.3 Cal. Cond: 13.1
Ca: 50.9 Mg: 36.2 Na: 8.3 K: 16.1 NH4: 3.9
SO4: 49.3 HCO3: 14.2 Cl: 10.7 NO3: 0.1 F: 1.1
Sum Cations: 117.5 Sum Anions: 75.4 Cations/Anions: 1.56 Tot. P: 25.0
Tot. Al: 57.0 Ext. Al: 32.0 Fe: 370.0 Mn: 60.0 SiO2: 0.34

ID: 2D2-038 Name: PICKEREL LAKE State: WI Date: 07NOV84
Sample Type: REGULAR Latitude: 45-37'47"N Longitude: 91-36'00"W
Elevation: 364 Surface Temp: 3.9 Stratified: MIXED Site Depth: 5.2
Lake Area: 15 Watershed Area: 736 WA/LA: 48.4 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 1.4 Turbidity: 2.3 Color: 55
Closed pH: 6.89 Equil. pH: 7.44 ANC: 145.0 DOC: 8.90
Closed DIC: 1.99 Equil. DIC: 1.65 Meas. Cond: 30.9 Cal. Cond: 28.7
Ca: 114.3 Mg: 67.5 Na: 57.4 K: 26.1 NH4: 22.7
SO4: 37.1 HCO3: 119.0 Cl: 36.7 NO3: 10.0 F: 1.2
Sum Cations: 288.1 Sum Anions: 203.9 Cations/Anions: 1.41 Tot. P: 46.0
Tot. Al: 46.0 Ext. Al: 4.0 Fe: 370.0 Mn: 20.0 SiO2: 0.30

(continued)

TABLE 3-1 (continued)

ID: 2D2-040 Name: WARD LAKE State: WI Date: 28OCT84
Sample Type: REGULAR Latitude: 45-45'25"N Longitude: 92-25'06"W
Elevation: 310 Surface Temp: 9.9 Stratified: MIXED Site Depth: 7.6
Lake Area: 7 Watershed Area: 54 WA/LA: 7.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.3 Turbidity: 0.6 Color: 29
Closed pH: 6.49 Equil. pH: 7.35 ANC: 134.5 DOC: 5.25
Closed DIC: 2.57 Equil. DIC: 1.62 Meas. Cond: 27.1 Cal. Cond: 28.0
Ca: 101.0 Mg: 83.1 Na: 35.2 K: 22.4 NH4: 8.9
SO4: 84.7 HCO3: 127.6 Cl: 11.4 NO3: 0.5 F: 1.3
Sum Cations: 250.8 Sum Anions: 225.7 Cations/Anions: 1.11 Tot. P: 15.5
Tot. Al: 24.0 Ext. Al: 3.0 Fe: 220.0 Mn: 0.0 SiO2: 0.51

ID: 2D2-041 Name: (NO NAME) State: WI Date: 03NOV84
Sample Type: REGULAR Latitude: 45-41'14"N Longitude: 92-01'26"W
Elevation: 376 Surface Temp: 2.4 Stratified: MIXED Site Depth: 1.4
Lake Area: 6 Watershed Area: 101 WA/LA: 18.0 Hydro Type: DRAINAGE
Residence Time: 0.22 Secchi Depth: 0.5 Turbidity: 5.0 Color: 62
Closed pH: 7.30 Equil. pH: 7.39 ANC: 371.0 DOC: 9.80
Closed DIC: 4.23 Equil. DIC: 3.88 Meas. Cond: 62.2 Cal. Cond: 60.5
Ca: 204.1 Mg: 165.3 Na: 67.4 K: 126.8 NH4: 0.6
SO4: 9.6 HCO3: 269.0 Cl: 182.2 NO3: 0.0 F: 2.3
Sum Cations: 564.4 Sum Anions: 463.2 Cations/Anions: 1.22 Tot. P: 101.0
Tot. Al: 42.0 Ext. Al: 2.0 Fe: 160.0 Mn: 10.0 SiO2: 0.76

ID: 2D2-044 Name: SPRING LAKE State: WI Date: 03NOV84
Sample Type: REGULAR Latitude: 45-35'00"N Longitude: 92-02'30"W
Elevation: 392 Surface Temp: 6.0 Stratified: MIXED Site Depth: 22.9
Lake Area: 23 Watershed Area: 287 WA/LA: 12.3 Hydro Type: DRAINAGE
Residence Time: 4.69 Secchi Depth: 1.1 Turbidity: 1.5 Color: 64
Closed pH: 6.40 Equil. pH: 7.40 ANC: 113.0 DOC: 9.20
Closed DIC: 1.68 Equil. DIC: 0.97 Meas. Cond: 25.6 Cal. Cond: 23.6
Ca: 98.8 Mg: 71.6 Na: 21.3 K: 40.7 NH4: 1.7
SO4: 58.7 HCO3: 70.3 Cl: 19.5 NO3: 3.8 F: 1.2
Sum Cations: 234.4 Sum Anions: 153.4 Cations/Anions: 1.53 Tot. P: 23.0
Tot. Al: 78.0 Ext. Al: 19.0 Fe: 210.0 Mn: 0.0 SiO2: 0.68

ID: 2D2-046 Name: CRANBERRY LAKE State: WI Date: 03NOV84
Sample Type: REGULAR Latitude: 45-33'33"N Longitude: 92-04'56"W
Elevation: 381 Surface Temp: 3.5 Stratified: MIXED Site Depth: 5.8
Lake Area: 4 Watershed Area: 161 WA/LA: 39.3 Hydro Type: DRAINAGE
Residence Time: 0.47 Secchi Depth: 0.9 Turbidity: 1.2 Color: 71
Closed pH: 6.59 Equil. pH: 7.48 ANC: 166.0 DOC: 9.90
Closed DIC: 2.45 Equil. DIC: 1.59 Meas. Cond: 30.5 Cal. Cond: 28.3
Ca: 103.8 Mg: 73.2 Na: 56.5 K: 43.7 NH4: 12.2
SO4: 22.3 HCO3: 119.7 Cl: 51.9 NO3: 1.0 F: 1.3
Sum Cations: 289.7 Sum Anions: 196.2 Cations/Anions: 1.48 Tot. P: 28.0
Tot. Al: 54.0 Ext. Al: 15.0 Fe: 330.0 Mn: 0.0 SiO2: 4.13

ID: 2D2-047 Name: LOON LAKE State: WI Date: 03NOV84
Sample Type: REGULAR Latitude: 45-28'10"N Longitude: 92-07'43"W
Elevation: 375 Surface Temp: 4.0 Stratified: MIXED Site Depth: 6.7
Lake Area: 36 Watershed Area: 145 WA/LA: 4.0 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 1.8 Turbidity: 1.1 Color: 24
Closed pH: 6.89 Equil. pH: 7.43 ANC: 139.0 DOC: 6.00
Closed DIC: 1.81 Equil. DIC: 1.57 Meas. Cond: 25.3 Cal. Cond: 24.1
Ca: 99.3 Mg: 73.2 Na: 27.8 K: 30.7 NH4: 2.8
SO4: 50.4 HCO3: 99.1 Cl: 18.9 NO3: 5.9 F: 1.2
Sum Cations: 234.0 Sum Anions: 175.5 Cations/Anions: 1.33 Tot. P: 21.0
Tot. Al: 29.0 Ext. Al: 4.0 Fe: 20.0 Mn: 0.0 SiO2: 0.23

(continued)

TABLE 3-1 (continued)

ID: 2D2-048 Name: GOOSE LAKE State: WI Date: 07NOV84
Sample Type: REGULAR Latitude: 45-18'22"N Longitude: 91-21'08"W
Elevation: 328 Surface Temp: 5.8 Stratified: MIXED Site Depth: 15.2
Lake Area: 8 Watershed Area: 513 WA/LA: 64.9 Hydro Type: DRAINAGE
Residence Time: 0.79 Secchi Depth: 2.2 Turbidity: 0.9 Color: 24
Closed pH: 7.43 Equil. pH: 8.50 ANC: 1061.0 DOC: 6.30
Closed DIC: 12.82 Equil. DIC: 11.57 Meas. Cond: 106.6 Cal. Cond: 112.1
Ca: 650.2 Mg: 348.0 Na: 70.9 K: 25.6 NH4: 6.1
SO4: 40.4 HCO3: 967.0 Cl: 31.6 NO3: 0.5 F: 2.6
Sum Cations: 1100.8 Sum Anions: 1045.6 Cations/Anions: 1.05 Tot. P: 30.0
Tot. Al: 34.0 Ext. Al: 1.0 Fe: 110.0 Mn: 0.0 SiO2: 2.33

ID: 2D2-049 Name: LOON LAKE State: WI Date: 07NOV84
Sample Type: REGULAR Latitude: 45-14'48"N Longitude: 91-28'00"W
Elevation: 328 Surface Temp: 2.9 Stratified: MIXED Site Depth: 1.8
Lake Area: 54 Watershed Area: 212 WA/LA: 3.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.4 Turbidity: 0.7 Color: 22
Closed pH: 6.02 Equil. pH: 6.31 ANC: 23.0 DOC: 5.50
Closed DIC: 0.40 Equil. DIC: 0.25 Meas. Cond: 13.2 Cal. Cond: 12.1
Ca: 40.9 Mg: 36.2 Na: 10.0 K: 13.0 NH4: 0.6
SO4: 62.5 HCO3: 10.5 Cl: 4.5 NO3: 0.0 F: 1.1
Sum Cations: 101.9 Sum Anions: 78.5 Cations/Anions: 1.30 Tot. P: 23.0
Tot. Al: 5.0 Ext. Al: 6.0 Fe: 30.0 Mn: 0.0 SiO2: 0.00

ID: 2D2-050 Name: LOWLAND LAKE State: WI Date: 07NOV84
Sample Type: REGULAR Latitude: 45-12'24"N Longitude: 91-21'44"W
Elevation: 328 Surface Temp: 3.9 Stratified: MIXED Site Depth: 4.6
Lake Area: 5 Watershed Area: 47 WA/LA: 9.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.3 Turbidity: 1.0 Color: 43
Closed pH: 6.40 Equil. pH: 7.04 ANC: 72.0 DOC: 5.70
Closed DIC: 1.13 Equil. DIC: 0.73 Meas. Cond: 15.8 Cal. Cond: 14.2
Ca: 56.4 Mg: 41.1 Na: 19.1 K: 21.2 NH4: 0.0
SO4: 42.9 HCO3: 46.5 Cl: 5.1 NO3: 0.8 F: 1.1
Sum Cations: 138.4 Sum Anions: 96.4 Cations/Anions: 1.44 Tot. P: 18.0
Tot. Al: 29.0 Ext. Al: 6.0 Fe: 50.0 Mn: 0.0 SiO2: 0.01

ID: 2D2-051 Name: (NO NAME) State: WI Date: 28OCT84
Sample Type: REGULAR Latitude: 45-45'13"N Longitude: 92-25'47"W
Elevation: 306 Surface Temp: 9.2 Stratified: MIXED Site Depth: 3.0
Lake Area: 6 Watershed Area: 34 WA/LA: 5.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.3 Turbidity: 1.4 Color: 48
Closed pH: 7.11 Equil. pH: 7.72 ANC: 486.0 DOC: 8.20
Closed DIC: 6.11 Equil. DIC: 5.39 Meas. Cond: 55.0 Cal. Cond: 57.2
Ca: 259.0 Mg: 213.1 Na: 64.8 K: 27.6 NH4: 1.7
SO4: 46.2 HCO3: 445.7 Cl: 18.6 NO3: 0.0 F: 1.8
Sum Cations: 566.2 Sum Anions: 513.1 Cations/Anions: 1.10 Tot. P: 30.0
Tot. Al: 13.0 Ext. Al: 0.0 Fe: 150.0 Mn: 0.0 SiO2: 1.60

ID: 2D2-053 Name: ROUND LAKE State: WI Date: 03NOV84
Sample Type: REGULAR Latitude: 45-53'41"N Longitude: 92-12'29"W
Elevation: 297 Surface Temp: 1.9 Stratified: MIXED Site Depth: 1.7
Lake Area: 11 Watershed Area: 101 WA/LA: 9.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.4 Turbidity: 0.5 Color: 74
Closed pH: 5.91 Equil. pH: 6.41 ANC: 30.0 DOC: 9.80
Closed DIC: 0.64 Equil. DIC: 0.29 Meas. Cond: 17.7 Cal. Cond: 16.9
Ca: 47.9 Mg: 34.5 Na: 7.4 K: 26.6 NH4: 28.3
SO4: 67.0 HCO3: 14.4 Cl: 12.1 NO3: 4.8 F: 1.0
Sum Cations: 146.0 Sum Anions: 99.4 Cations/Anions: 1.47 Tot. P: 20.0
Tot. Al: 103.0 Ext. Al: 36.0 Fe: 210.0 Mn: 30.0 SiO2: 0.45

(continued)

TABLE 3-1 (continued)

ID: 2D2-054 Name: LAKE THIRTY State: WI Date: 07NOV84
Sample Type: REGULAR Latitude: 45-34'50"N Longitude: 91-54'04"W
Elevation: 386 Surface Temp: 4.4 Stratified: MIXED Site Depth: 7.0
Lake Area: 31 Watershed Area: 484 WA/LA: 15.8 Hydro Type: DRAINAGE
Residence Time: 1.19 Secchi Depth: 1.5 Turbidity: 1.5 Color: 54
Closed pH: 6.82 Equil. pH: 7.34 ANC: 126.0 DOC: 8.90
Closed DIC: 1.40 Equil. DIC: 1.08 Meas. Cond: 25.9 Cal. Cond: 23.8
Ca: 125.7 Mg: 69.9 Na: 28.7 K: 23.5 NH4: 1.1
SO4: 56.4 HCO3: 86.6 Cl: 9.6 NO3: 2.1 F: 1.2
Sum Cations: 249.2 Sum Anions: 155.9 Cations/Anions: 1.60 Tot. P: 19.0
Tot. Al: 66.0 Ext. Al: 8.0 Fe: 70.0 Mn: 0.0 SiO2: 0.05

ID: 2D2-055 Name: BUFF LAKE State: WI Date: 04NOV84
Sample Type: REGULAR Latitude: 45-45'18"N Longitude: 91-29'24"W
Elevation: 402 Surface Temp: 3.3 Stratified: MIXED Site Depth: 2.7
Lake Area: 9 Watershed Area: 174 WA/LA: 19.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.9 Turbidity: 1.6 Color: 75
Closed pH: 7.01 Equil. pH: 7.61 ANC: 265.0 DOC: 8.60
Closed DIC: 3.64 Equil. DIC: 3.03 Meas. Cond: 33.9 Cal. Cond: 32.9
Ca: 164.2 Mg: 112.7 Na: 49.6 K: 22.0 NH4: 0.6
SO4: 14.4 HCO3: 251.2 Cl: 6.5 NO3: 0.0 F: 1.8
Sum Cations: 349.1 Sum Anions: 274.1 Cations/Anions: 1.27 Tot. P: 26.0
Tot. Al: 12.0 Ext. Al: 3.0 Fe: 320.0 Mn: 0.0 SiO2: 0.00

ID: 2D2-057 Name: BASS LAKE State: WI Date: 07NOV84
Sample Type: REGULAR Latitude: 45-36'40"N Longitude: 91-49'56"W
Elevation: 373 Surface Temp: 4.1 Stratified: MIXED Site Depth: 5.2
Lake Area: 12 Watershed Area: 54 WA/LA: 4.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.9 Turbidity: 0.4 Color: 25
Closed pH: 6.46 Equil. pH: 7.15 ANC: 67.0 DOC: 5.20
Closed DIC: 1.20 Equil. DIC: 0.67 Meas. Cond: 17.5 Cal. Cond: 16.4
Ca: 63.9 Mg: 46.1 Na: 19.1 K: 18.2 NH4: 7.2
SO4: 49.1 HCO3: 58.6 Cl: 7.3 NO3: 1.6 F: 1.1
Sum Cations: 154.8 Sum Anions: 117.7 Cations/Anions: 1.31 Tot. P: 10.0
Tot. Al: 21.0 Ext. Al: 4.0 Fe: 100.0 Mn: 0.0 SiO2: 0.09

ID: 2D2-058 Name: ADELE LAKE State: MN Date: 28OCT84
Sample Type: REGULAR Latitude: 47-28'14"N Longitude: 93-39'14"W
Elevation: 416 Surface Temp: 7.1 Stratified: MIXED Site Depth: 3.0
Lake Area: 7 Watershed Area: 28 WA/LA: 4.3 Hydro Type: DRAINAGE
Residence Time: 1.14 Secchi Depth: 1.9 Turbidity: 0.8 Color: 27
Closed pH: 6.78 Equil. pH: 7.41 ANC: 129.0 DOC: 4.70
Closed DIC: 1.83 Equil. DIC: 1.43 Meas. Cond: 16.6 Cal. Cond: 15.9
Ca: 64.4 Mg: 49.4 Na: 13.9 K: 31.2 NH4: 0.6
SO4: 11.5 HCO3: 105.1 Cl: 7.3 NO3: 1.4 F: 1.2
Sum Cations: 159.6 Sum Anions: 126.5 Cations/Anions: 1.26 Tot. P: 17.0
Tot. Al: 17.0 Ext. Al: 1.0 Fe: 50.0 Mn: 10.0 SiO2: 0.75

ID: 2D2-059 Name: CLEAR LAKE State: MN Date: 28OCT84
Sample Type: REGULAR Latitude: 46-18'09"N Longitude: 92-52'49"W
Elevation: 322 Surface Temp: 9.3 Stratified: MIXED Site Depth: 10.7
Lake Area: 10 Watershed Area: 36 WA/LA: 3.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.6 Turbidity: 1.1 Color: 25
Closed pH: 6.61 Equil. pH: 7.36 ANC: 131.0 DOC: 4.40
Closed DIC: 2.16 Equil. DIC: 1.50 Meas. Cond: 20.0 Cal. Cond: 20.3
Ca: 78.8 Mg: 61.7 Na: 18.3 K: 23.5 NH4: 2.8
SO4: 36.6 HCO3: 117.3 Cl: 14.1 NO3: 1.3 F: 1.3
Sum Cations: 185.3 Sum Anions: 170.7 Cations/Anions: 1.09 Tot. P: 17.0
Tot. Al: 28.0 Ext. Al: 0.0 Fe: 70.0 Mn: 0.0 SiO2: 0.17

(continued)

TABLE 3-1 (continued)

ID: 2D2-060 Name: OAK LAKE State: WI Date: 04NOV84
Sample Type: REGULAR Latitude: 45-47'00"N Longitude: 91-46'17"W
Elevation: 389 Surface Temp: 5.9 Stratified: MIXED Site Depth: 14.3
Lake Area: 12 Watershed Area: 109 WA/LA: 9.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.5 Turbidity: 0.9 Color: 23
Closed pH: 6.48 Equil. pH: 7.09 ANC: 80.0 DOC: 4.30
Closed DIC: 1.66 Equil. DIC: 1.04 Meas. Cond: 22.8 Cal. Cond: 22.6
Ca: 86.3 Mg: 57.6 Na: 20.0 K: 30.4 NH4: 3.3
SO4: 80.8 HCO3: 76.7 Cl: 11.8 NO3: 0.1 F: 0.9
Sum Cations: 198.0 Sum Anions: 170.5 Cations/Anions: 1.16 Tot. P: 18.0
Tot. Al: 19.0 Ext. Al: 4.0 Fe: 40.0 Mn: 20.0 SiO2: 0.20

ID: 2D2-062 Name: (NO NAME) State: WI Date: 03NOV84
Sample Type: REGULAR Latitude: 45-57'00"N Longitude: 92-04'45"W
Elevation: 303 Surface Temp: 3.7 Stratified: MIXED Site Depth: 7.0
Lake Area: 6 Watershed Area: 36 WA/LA: 6.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.2 Turbidity: 0.5 Color: 37
Closed pH: 6.11 Equil. pH: 6.82 ANC: 93.2 DOC: 7.20
Closed DIC: 1.64 Equil. DIC: 0.66 Meas. Cond: 9.1 Cal. Cond: 8.5
Ca: 46.4 Mg: 26.3 Na: 3.9 K: 9.2 NH4: 0.6
SO4: 4.6 HCO3: 46.7 Cl: 8.7 NO3: 0.0 F: 0.6
Sum Cations: 87.2 Sum Anions: 60.6 Cations/Anions: 1.44 Tot. P: 12.0
Tot. Al: 22.0 Ext. Al: 4.0 Fe: 220.0 Mn: 20.0 SiO2: 0.14

ID: 2D2-064 Name: LOON LAKE State: WI Date: 04NOV84
Sample Type: REGULAR Latitude: 45-41'07"N Longitude: 91-36'53"W
Elevation: 401 Surface Temp: 5.2 Stratified: MIXED Site Depth: 12.8
Lake Area: 17 Watershed Area: 80 WA/LA: 4.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.9 Turbidity: 1.4 Color: 37
Closed pH: 6.29 Equil. pH: 7.19 ANC: 84.0 DOC: 5.30
Closed DIC: 1.89 Equil. DIC: 0.89 Meas. Cond: 22.7 Cal. Cond: 22.8
Ca: 76.8 Mg: 55.9 Na: 14.4 K: 43.2 NH4: 8.3
SO4: 75.8 HCO3: 66.9 Cl: 16.4 NO3: 4.2 F: 1.0
Sum Cations: 199.1 Sum Anions: 164.3 Cations/Anions: 1.21 Tot. P: 25.0
Tot. Al: 47.0 Ext. Al: 9.0 Fe: 130.0 Mn: 10.0 SiO2: 0.23

ID: 2D2-065 Name: (NO NAME) State: WI Date: 04NOV84
Sample Type: REGULAR Latitude: 45-44'42"N Longitude: 91-35'51"W
Elevation: 395 Surface Temp: 4.8 Stratified: MIXED Site Depth: 7.6
Lake Area: 5 Watershed Area: 31 WA/LA: 6.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.4 Turbidity: 0.9 Color: 43
Closed pH: 6.13 Equil. pH: 7.13 ANC: 71.0 DOC: 6.60
Closed DIC: 2.01 Equil. DIC: 0.76 Meas. Cond: 17.8 Cal. Cond: 16.4
Ca: 73.9 Mg: 49.4 Na: 15.7 K: 14.8 NH4: 3.3
SO4: 48.7 HCO3: 54.4 Cl: 7.1 NO3: 2.3 F: 0.9
Sum Cations: 157.7 Sum Anions: 113.4 Cations/Anions: 1.39 Tot. P: 21.0
Tot. Al: 31.0 Ext. Al: 15.0 Fe: 120.0 Mn: 20.0 SiO2: 0.57

ID: 2D2-067 Name: KINNY LAKE State: WI Date: 03NOV84
Sample Type: REGULAR Latitude: 45-40'57"N Longitude: 92-00'49"W
Elevation: 395 Surface Temp: 3.6 Stratified: MIXED Site Depth: 4.0
Lake Area: 4 Watershed Area: 18 WA/LA: 4.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.1 Turbidity: 1.2 Color: 68
Closed pH: 6.51 Equil. pH: 7.41 ANC: 159.0 DOC: 8.50
Closed DIC: 2.84 Equil. DIC: 1.66 Meas. Cond: 25.4 Cal. Cond: 23.9
Ca: 101.3 Mg: 65.0 Na: 31.8 K: 33.0 NH4: 10.0
SO4: 31.0 HCO3: 128.9 Cl: 14.7 NO3: 2.8 F: 0.9
Sum Cations: 241.3 Sum Anions: 178.4 Cations/Anions: 1.35 Tot. P: 39.0
Tot. Al: 42.0 Ext. Al: 8.0 Fe: 270.0 Mn: 0.0 SiO2: 0.79

(continued)

TABLE 3-1 (continued)

ID: 2D2-068 Name: MOODY LAKE State: WI Date: 04NOV84
Sample Type: REGULAR Latitude: 45-45'43"N Longitude: 91-44'42"W
Elevation: 375 Surface Temp: 5.0 Stratified: MIXED Site Depth: 8.8
Lake Area: 20 Watershed Area: 119 WA/LA: 6.0 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 2.1 Turbidity: 0.8 Color: 43
Closed pH: 6.36 Equil. pH: 7.20 ANC: 85.0 DOC: 6.00
Closed DIC: 1.66 Equil. DIC: 0.84 Meas. Cond: 15.8 Cal. Cond: 15.5
Ca: 53.9 Mg: 42.8 Na: 12.2 K: 28.4 NH4: 10.5
SO4: 33.3 HCO3: 64.3 Cl: 10.4 NO3: 1.2 F: 0.9
Sum Cations: 148.1 Sum Anions: 110.1 Cations/Anions: 1.35 Tot. P: 20.0
Tot. Al: 26.0 Ext. Al: 5.0 Fe: 290.0 Mn: 20.0 SiO2: 0.19

ID: 2D2-069 Name: BRICHER LAKE State: WI Date: 28OCT84
Sample Type: REGULAR Latitude: 45-57'54"N Longitude: 92-20'35"W
Elevation: 289 Surface Temp: 9.5 Stratified: MIXED Site Depth: 5.2
Lake Area: 11 Watershed Area: 52 WA/LA: 4.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.3 Turbidity: 1.0 Color: 27
Closed pH: 6.37 Equil. pH: 7.41 ANC: 70.7 DOC: 5.20
Closed DIC: 1.58 Equil. DIC: 0.89 Meas. Cond: 14.4 Cal. Cond: 14.1
Ca: 57.4 Mg: 45.2 Na: 13.9 K: 12.8 NH4: 0.0
SO4: 33.3 HCO3: 73.3 Cl: 6.8 NO3: 0.0 F: 0.9
Sum Cations: 129.7 Sum Anions: 114.3 Cations/Anions: 1.13 Tot. P: 24.0
Tot. Al: 13.0 Ext. Al: 1.0 Fe: 50.0 Mn: 0.0 SiO2: 0.35

ID: 2D2-070 Name: (NO NAME) State: WI Date: 03NOV84
Sample Type: REGULAR Latitude: 45-38'35"N Longitude: 92-01'09"W
Elevation: 408 Surface Temp: 3.1 Stratified: MIXED Site Depth: 4.0
Lake Area: 8 Watershed Area: 70 WA/LA: 8.8 Hydro Type: DRAINAGE
Residence Time: 1.02 Secchi Depth: 0.7 Turbidity: 1.6 Color: 91
Closed pH: 6.36 Equil. pH: 7.03 ANC: 81.0 DOC: 11.40
Closed DIC: 0.92 Equil. DIC: 0.55 Meas. Cond: 19.1 Cal. Cond: 16.5
Ca: 54.4 Mg: 50.2 Na: 21.3 K: 46.0 NH4: 5.0
SO4: 30.0 HCO3: 32.2 Cl: 21.7 NO3: 1.1 F: 0.9
Sum Cations: 177.4 Sum Anions: 85.9 Cations/Anions: 2.06 Tot. P: 31.0
Tot. Al: 99.0 Ext. Al: 25.0 Fe: 110.0 Mn: 0.0 SiO2: 0.57

ID: 2D2-071 Name: LOGGER LAKE State: WI Date: 07NOV84
Sample Type: REGULAR Latitude: 45-14'21"N Longitude: 91-22'50"W
Elevation: 346 Surface Temp: 3.8 Stratified: MIXED Site Depth: 2.7
Lake Area: 10 Watershed Area: 21 WA/LA: 2.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.9 Turbidity: 0.8 Color: 39
Closed pH: 6.27 Equil. pH: 6.98 ANC: 66.0 DOC: 7.00
Closed DIC: 1.08 Equil. DIC: 0.54 Meas. Cond: 15.3 Cal. Cond: 13.6
Ca: 55.4 Mg: 44.4 Na: 17.4 K: 16.1 NH4: 0.6
SO4: 41.4 HCO3: 40.4 Cl: 5.4 NO3: 0.6 F: 1.0
Sum Cations: 134.5 Sum Anions: 88.8 Cations/Anions: 1.51 Tot. P: 17.0
Tot. Al: 40.0 Ext. Al: 7.0 Fe: 60.0 Mn: 0.0 SiO2: 0.04

ID: 2D2-072 Name: PIKE LAKE State: WI Date: 28OCT84
Sample Type: REGULAR Latitude: 45-49'53"N Longitude: 92-17'28"W
Elevation: 295 Surface Temp: 8.9 Stratified: MIXED Site Depth: 5.2
Lake Area: 30 Watershed Area: 161 WA/LA: 5.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.8 Turbidity: 1.2 Color: 28
Closed pH: 7.00 Equil. pH: 7.82 ANC: 291.0 DOC: 6.70
Closed DIC: 3.72 Equil. DIC: 3.26 Meas. Cond: 46.0 Cal. Cond: 46.1
Ca: 186.1 Mg: 138.2 Na: 84.4 K: 27.6 NH4: 11.6
SO4: 31.0 HCO3: 248.3 Cl: 89.7 NO3: 1.4 F: 1.5
Sum Cations: 448.1 Sum Anions: 372.2 Cations/Anions: 1.20 Tot. P: 25.0
Tot. Al: 41.0 Ext. Al: 3.0 Fe: 60.0 Mn: 0.0 SiO2: 0.21

(continued)

TABLE 3-1 (continued)

ID: 2D2-074 Name: (NO NAME) State: WI Date: 03NOV84
Sample Type: REGULAR Latitude: 45-29'26"N Longitude: 92-05'08"W
Elevation: 386 Surface Temp: 3.1 Stratified: MIXED Site Depth: 2.1
Lake Area: 9 Watershed Area: 70 WA/LA: 8.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.8 Turbidity: 0.9 Color: 63
Closed pH: 6.27 Equil. pH: 7.23 ANC: 120.0 DOC: 10.12
Closed DIC: 2.70 Equil. DIC: 1.12 Meas. Cond: 20.6 Cal. Cond: 19.0
Ca: 75.8 Mg: 65.8 Na: 17.4 K: 37.1 NH4: 3.3
SO4: 12.7 HCO3: 92.0 Cl: 24.3 NO3: 0.0 F: 1.1
Sum Cations: 199.9 Sum Anions: 130.1 Cations/Anions: 1.54 Tot. P: 22.0
Tot. Al: 42.0 Ext. Al: 2.0 Fe: 110.0 Mn: 0.0 SiO2: 0.67

ID: 2D2-075 Name: SNOWSHOE LAKE State: MN Date: 28OCT84
Sample Type: REGULAR Latitude: 46-04'56"N Longitude: 93-15'00"W
Elevation: 341 Surface Temp: 7.6 Stratified: MIXED Site Depth: 3.4
Lake Area: 18 Watershed Area: 212 WA/LA: 12.0 Hydro Type: DRAINAGE
Residence Time: 0.73 Secchi Depth: 1.1 Turbidity: 3.2 Color: 115
Closed pH: 7.35 Equil. pH: 8.32 ANC: 740.0 DOC: 13.30
Closed DIC: 8.22 Equil. DIC: 7.64 Meas. Cond: 81.3 Cal. Cond: 88.0
Ca: 479.0 Mg: 304.4 Na: 69.2 K: 37.3 NH4: 10.5
SO4: 59.5 HCO3: 628.5 Cl: 37.5 NO3: 6.9 F: 2.5
Sum Cations: 900.5 Sum Anions: 736.6 Cations/Anions: 1.22 Tot. P: 47.0
Tot. Al: 125.0 Ext. Al: 16.0 Fe: 170.0 Mn: 0.0 SiO2: 2.91

ID: 2D2-076 Name: LOST LAKE State: WI Date: 04NOV84
Sample Type: REGULAR Latitude: 45-43'01"N Longitude: 91-50'54"W
Elevation: 373 Surface Temp: 4.9 Stratified: MIXED Site Depth: 7.6
Lake Area: 4 Watershed Area: 28 WA/LA: 6.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.4 Turbidity: 1.3 Color: 79
Closed pH: 6.01 Equil. pH: 7.72 ANC: 272.0 DOC: 8.30
Closed DIC: 3.96 Equil. DIC: 2.67 Meas. Cond: 30.5 Cal. Cond: 30.1
Ca: 131.2 Mg: 81.4 Na: 18.7 K: 66.5 NH4: 2.2
SO4: 5.6 HCO3: 223.8 Cl: 18.9 NO3: 0.6 F: 1.2
Sum Cations: 300.3 Sum Anions: 250.2 Cations/Anions: 1.20 Tot. P: 47.0
Tot. Al: 15.0 Ext. Al: 2.0 Fe: 960.0 Mn: 40.0 SiO2: 0.74

ID: 2D2-079 Name: RAINY LAKE State: WI Date: 04NOV84
Sample Type: REGULAR Latitude: 46-03'36"N Longitude: 91-43'27"W
Elevation: 367 Surface Temp: 3.0 Stratified: MIXED Site Depth: 2.4
Lake Area: 5 Watershed Area: 28 WA/LA: 5.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.4 Turbidity: 0.4 Color: 23
Closed pH: 6.23 Equil. pH: 6.84 ANC: 36.0 DOC: 4.40
Closed DIC: 0.75 Equil. DIC: 0.29 Meas. Cond: 15.3 Cal. Cond: 14.7
Ca: 52.1 Mg: 40.7 Na: 12.8 K: 16.7 NH4: 0.3
SO4: 67.0 HCO3: 25.3 Cl: 10.4 NO3: 0.1 F: 0.7
Sum Cations: 123.3 Sum Anions: 103.6 Cations/Anions: 1.19 Tot. P: 21.0
Tot. Al: 24.5 Ext. Al: 9.0 Fe: 30.0 Mn: 0.0 SiO2: 0.01

ID: 2D2-080 Name: (NO NAME) State: MN Date: 28OCT84
Sample Type: REGULAR Latitude: 46-11'42"N Longitude: 92-59'02"W
Elevation: 376 Surface Temp: 7.7 Stratified: MIXED Site Depth: 2.1
Lake Area: 5 Watershed Area: 62 WA/LA: 11.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.4 Turbidity: 1.4 Color: 67
Closed pH: 6.58 Equil. pH: 7.72 ANC: 171.0 DOC: 8.70
Closed DIC: 2.45 Equil. DIC: 1.72 Meas. Cond: 24.4 Cal. Cond: 22.8
Ca: 68.9 Mg: 69.9 Na: 31.8 K: 63.4 NH4: 5.0
SO4: 10.6 HCO3: 132.6 Cl: 13.8 NO3: 6.0 F: 1.2
Sum Cations: 239.1 Sum Anions: 164.4 Cations/Anions: 1.45 Tot. P: 28.0
Tot. Al: 61.0 Ext. Al: 10.0 Fe: 150.0 Mn: 0.0 SiO2: 1.37

(continued)

TABLE 3-1 (continued)

ID: 2D2-082 Name: LITTLE PINE LAKE State: WI Date: 07NOV84
Sample Type: REGULAR Latitude: 45-17'02"N Longitude: 91-28'57"W
Elevation: 334 Surface Temp: 5.8 Stratified: MIXED Site Depth: 4.6
Lake Area: 4 Watershed Area: 13 WA/LA: 3.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.0 Turbidity: 0.9 Color: 26
Closed pH: 6.32 Equil. pH: 7.38 ANC: 119.0 DOC: 4.10
Closed DIC: 2.58 Equil. DIC: 1.03 Meas. Cond: 22.8 Cal. Cond: 21.7
Ca: 86.8 Mg: 60.9 Na: 25.7 K: 18.9 NH4: 5.5
SO4: 59.1 HCO3: 104.4 Cl: 8.7 NO3: 0.0 F: 1.5
Sum Cations: 198.2 Sum Anions: 173.8 Cations/Anions: 1.14 Tot. P: 16.0
Tot. Al: 16.0 Ext. Al: 4.0 Fe: 40.0 Mn: 0.0 SiO2: 0.10

ID: 2D2-084 Name: TWIN LAKES (SOUTH) State: WI Date: 01NOV84
Sample Type: REGULAR Latitude: 46-11'59"N Longitude: 91-08'30"W
Elevation: 431 Surface Temp: 5.3 Stratified: MIXED Site Depth: 3.0
Lake Area: 6 Watershed Area: 39 WA/LA: 6.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.7 Turbidity: 0.9 Color: 24
Closed pH: 6.36 Equil. pH: 6.63 ANC: 36.0 DOC: 4.30
Closed DIC: 0.87 Equil. DIC: 0.51 Meas. Cond: 20.5 Cal. Cond: 19.0
Ca: 41.9 Mg: 38.7 Na: 64.4 K: 16.1 NH4: 2.2
SO4: 16.0 HCO3: 27.7 Cl: 92.5 NO3: 0.4 F: 0.8
Sum Cations: 164.0 Sum Anions: 137.4 Cations/Anions: 1.19 Tot. P: 30.0
Tot. Al: 16.0 Ext. Al: 1.0 Fe: 60.0 Mn: 0.0 SiO2: 0.15

ID: 2D3-001 Name: MCDONALD LAKE State: MN Date: 13OCT84
Sample Type: REGULAR Latitude: 47-39'45"N Longitude: 93-37'00"W
Elevation: 409 Surface Temp: 14.6 Stratified: MIXED Site Depth: 4.3
Lake Area: 11 Watershed Area: 57 WA/LA: 5.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.2 Turbidity: 0.4 Color: 55
Closed pH: 7.05 Equil. pH: 8.27 ANC: 881.0 DOC: 15.80
Closed DIC: 10.29 Equil. DIC: 9.64 Meas. Cond: 86.7 Cal. Cond: 92.2
Ca: 561.4 Mg: 354.5 Na: 34.8 K: 12.5 NH4: 9.4
SO4: 8.5 HCO3: 786.3 Cl: 7.6 NO3: 0.5 F: 2.8
Sum Cations: 972.7 Sum Anions: 808.4 Cations/Anions: 1.20 Tot. P: 14.0
Tot. Al: 8.0 Ext. Al: 4.0 Fe: 70.0 Mn: 10.0 SiO2: 2.00

ID: 2D3-002 Name: RANIER LAKE State: MN Date: 14OCT84
Sample Type: REGULAR Latitude: 47-35'30"N Longitude: 93-41'10"W
Elevation: 422 Surface Temp: 13.1 Stratified: WEAK Site Depth: 12.8
Lake Area: 35 Watershed Area: 104 WA/LA: 3.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.3 Turbidity: 0.5 Color: 6
Closed pH: 7.44 Equil. pH: 8.47 ANC: 1362.0 DOC: 6.40
Closed DIC: 14.65 Equil. DIC: 14.29 Meas. Cond: 145.0 Cal. Cond: 151.2
Ca: 846.8 Mg: 402.3 Na: 166.2 K: 70.6 NH4: 0.0
SO4: 20.6 HCO3: 1170.8 Cl: 149.5 NO3: 0.0 F: 2.4
Sum Cations: 1485.8 Sum Anions: 1354.2 Cations/Anions: 1.10 Tot. P: 18.0
Tot. Al: 8.0 Ext. Al: 4.0 Fe: 0.0 Mn: 0.0 SiO2: 0.17

ID: 2D3-003 Name: MOON LAKE State: MN Date: 14OCT84
Sample Type: REG/SPC/LTM/ Latitude: 47-32'20"N Longitude: 93-29'40"W
Elevation: 430 Surface Temp: 13.2 Stratified: MIXED Site Depth: 6.4
Lake Area: 10 Watershed Area: 26 WA/LA: 2.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.5 Turbidity: 0.8 Color: 12
Closed pH: 7.02 Equil. pH: 7.41 ANC: 75.0 DOC: 5.00
Closed DIC: 1.05 Equil. DIC: 0.82 Meas. Cond: 19.2 Cal. Cond: 19.8
Ca: 66.9 Mg: 54.3 Na: 18.7 K: 31.2 NH4: 0.0
SO4: 66.8 HCO3: 62.7 Cl: 19.2 NO3: 0.0 F: 1.6
Sum Cations: 171.2 Sum Anions: 150.4 Cations/Anions: 1.14 Tot. P: 10.0
Tot. Al: 20.0 Ext. Al: 6.0 Fe: 10.0 Mn: 0.0 SiO2: 0.26

(continued)

TABLE 3-1 (continued)

ID: 2D3-004 Name: LONG LAKE State: MN Date: 28OCT84
Sample Type: REGULAR Latitude: 47-24'50"N Longitude: 93-36'50"W
Elevation: 412 Surface Temp: 7.5 Stratified: MIXED Site Depth: 12.5
Lake Area: 17 Watershed Area: 109 WA/LA: 6.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.8 Turbidity: 3.1 Color: 60
Closed pH: 6.73 Equil. pH: 7.47 ANC: 316.0 DOC: 9.10
Closed DIC: 4.93 Equil. DIC: 3.41 Meas. Cond: 41.5 Cal. Cond: 42.2
Ca: 238.5 Mg: 130.8 Na: 23.5 K: 35.8 NH4: 8.3
SO4: 34.6 HCO3: 284.7 Cl: 13.3 NO3: 1.0 F: 1.5
Sum Cations: 437.1 Sum Anions: 335.2 Cations/Anions: 1.30 Tot. P: 20.0
Tot. Al: 23.0 Ext. Al: 2.0 Fe: 140.0 Mn: 10.0 SiO2: 2.32

ID: 2D3-006 Name: MURPHY LAKE State: MN Date: 07OCT84
Sample Type: REGULAR Latitude: 47-18'00"N Longitude: 92-29'45"W
Elevation: 411 Surface Temp: 11.4 Stratified: MIXED Site Depth: 6.1
Lake Area: 142 Watershed Area: 1870 WA/LA: 13.2 Hydro Type: DRAINAGE
Residence Time: 1.21 Secchi Depth: 0.9 Turbidity: 6.2 Color: 55
Closed pH: 7.41 Equil. pH: 8.32 ANC: 801.0 DOC: 13.10
Closed DIC: 9.92 Equil. DIC: 9.86 Meas. Cond: 107.0 Cal. Cond: 112.7
Ca: 509.9 Mg: 441.7 Na: 158.3 K: 24.5 NH4: 0.6
SO4: 42.1 HCO3: 815.4 Cl: 115.7 NO3: 2.4 F: 5.4
Sum Cations: 1135.1 Sum Anions: 984.8 Cations/Anions: 1.15 Tot. P: 28.0
Tot. Al: 10.0 Ext. Al: 1.0 Fe: 60.0 Mn: 0.0 SiO2: 2.79

ID: 2D3-007 Name: WASHUSK LAKE #1 State: MN Date: 13OCT84
Sample Type: REGULAR Latitude: 47-14'55"N Longitude: 92-16'52"W
Elevation: 427 Surface Temp: * Stratified: MIXED Site Depth: 0.9
Lake Area: 13 Watershed Area: 420 WA/LA: 33.6 Hydro Type: DRAINAGE
Residence Time: 0.05 Secchi Depth: 0.6 Turbidity: 1.0 Color: 160
Closed pH: 6.78 Equil. pH: 7.82 ANC: 327.0 DOC: 20.00
Closed DIC: 3.35 Equil. DIC: 2.50 Meas. Cond: 40.0 Cal. Cond: 39.4
Ca: 217.6 Mg: 187.6 Na: 56.5 K: 9.5 NH4: 1.7
SO4: 26.6 HCO3: 217.4 Cl: 5.9 NO3: 5.6 F: 3.5
Sum Cations: 472.9 Sum Anions: 259.4 Cations/Anions: 1.82 Tot. P: 22.0
Tot. Al: 123.0 Ext. Al: 36.0 Fe: 400.0 Mn: 0.0 SiO2: 3.18

ID: 2D3-008 Name: SPRING LAKE State: MN Date: 14OCT84
Sample Type: REGULAR Latitude: 47-07'25"N Longitude: 93-52'45"W
Elevation: 402 Surface Temp: 13.6 Stratified: WEAK Site Depth: 13.1
Lake Area: 35 Watershed Area: 2942 WA/LA: 84.8 Hydro Type: DRAINAGE
Residence Time: 0.53 Secchi Depth: 3.1 Turbidity: 0.6 Color: 34
Closed pH: 8.12 Equil. pH: 8.84 ANC: 3189.0 DOC: 12.10
Closed DIC: 34.90 Equil. DIC: 32.87 Meas. Cond: 285.0 Cal. Cond: 312.7
Ca: 2085.3 Mg: 947.6 Na: 117.9 K: 28.4 NH4: 1.7
SO4: 53.3 HCO3: 2739.4 Cl: 17.2 NO3: 0.0 F: 4.9
Sum Cations: 3180.9 Sum Anions: 2852.7 Cations/Anions: 1.12 Tot. P: 8.0
Tot. Al: 18.0 Ext. Al: 4.0 Fe: 0.0 Mn: 30.0 SiO2: 11.99

ID: 2D3-010 Name: BERGEN LAKE State: MN Date: 07OCT84
Sample Type: REGULAR Latitude: 46-59'36"N Longitude: 92-19'15"W
Elevation: 407 Surface Temp: 11.3 Stratified: MIXED Site Depth: 6.7
Lake Area: 29 Watershed Area: 922 WA/LA: 31.4 Hydro Type: DRAINAGE
Residence Time: 0.37 Secchi Depth: 1.1 Turbidity: 2.1 Color: 96
Closed pH: 7.53 Equil. pH: 8.61 ANC: 1433.0 DOC: 12.90
Closed DIC: 16.19 Equil. DIC: 15.82 Meas. Cond: 143.0 Cal. Cond: 156.3
Ca: 821.4 Mg: 636.7 Na: 101.4 K: 16.9 NH4: 7.2
SO4: 57.5 HCO3: 1334.5 Cl: 20.0 NO3: 6.5 F: 6.5
Sum Cations: 1583.5 Sum Anions: 1432.6 Cations/Anions: 1.11 Tot. P: 50.0
Tot. Al: 9.0 Ext. Al: 2.0 Fe: 550.0 Mn: 10.0 SiO2: 11.76

(continued)

TABLE 3-1 (continued)

ID: 2D3-011 Name: WREN LAKE State: MN Date: 14OCT84
Sample Type: REGULAR Latitude: 46-52'20"N Longitude: 93-53'45"W
Elevation: 417 Surface Temp: 14.1 Stratified: MIXED Site Depth: 0.9
Lake Area: 19 Watershed Area: 161 WA/LA: 8.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.9 Turbidity: 0.8 Color: 71
Closed pH: 5.83 Equil. pH: 6.71 ANC: 49.0 DOC: 14.50
Closed DIC: 1.89 Equil. DIC: 0.28 Meas. Cond: 10.8 Cal. Cond: 8.2
Ca: 42.9 Mg: 41.1 Na: 12.2 K: 11.5 NH4: 0.0
SO4: 2.1 HCO3: 23.3 Cl: 2.8 NO3: 0.0 F: 1.3
Sum Cations: 109.1 Sum Anions: 29.5 Cations/Anions: 3.70 Tot. P: 20.0
Tot. Al: 74.0 Ext. Al: 31.0 Fe: 130.0 Mn: 70.0 SiO2: 0.38

ID: 2D3-012 Name: PRAIRIE LAKE State: MN Date: 13OCT84
Sample Type: REGULAR Latitude: 46-47'30"N Longitude: 92-54'15"W
Elevation: 388 Surface Temp: 12.4 Stratified: MIXED Site Depth: 11.6
Lake Area: 315 Watershed Area: 9161 WA/LA: 29.1 Hydro Type: DRAINAGE
Residence Time: 1.23 Secchi Depth: 1.1 Turbidity: 3.1 Color: 93
Closed pH: 7.35 Equil. pH: 8.43 ANC: 1129.0 DOC: 17.20
Closed DIC: 12.32 Equil. DIC: 11.98 Meas. Cond: 113.0 Cal. Cond: 123.0
Ca: 693.1 Mg: 465.6 Na: 102.7 K: 16.4 NH4: 3.3
SO4: 34.6 HCO3: 985.5 Cl: 38.1 NO3: 3.7 F: 4.1
Sum Cations: 1281.1 Sum Anions: 1073.6 Cations/Anions: 1.19 Tot. P: 30.0
Tot. Al: 26.0 Ext. Al: 2.0 Fe: 180.0 Mn: 30.0 SiO2: 5.33

ID: 2D3-013 Name: LITTLE PINE LAKE State: MN Date: 14OCT84
Sample Type: REGULAR Latitude: 46-42'15"N Longitude: 94-04'00"W
Elevation: 375 Surface Temp: 14.2 Stratified: MIXED Site Depth: 10.7
Lake Area: 128 Watershed Area: 34475 WA/LA: 268.9 Hydro Type: DRAINAGE
Residence Time: 0.14 Secchi Depth: 2.6 Turbidity: 1.3 Color: 25
Closed pH: 8.08 Equil. pH: 8.79 ANC: 2531.0 DOC: 6.10
Closed DIC: 27.34 Equil. DIC: 26.39 Meas. Cond: 226.0 Cal. Cond: 227.6
Ca: 1511.5 Mg: 403.9 Na: 160.1 K: 28.9 NH4: 5.0
SO4: 44.1 HCO3: 2206.1 Cl: 22.0 NO3: 3.2 F: 6.5
Sum Cations: 2109.3 Sum Anions: 2308.5 Cations/Anions: 0.91 Tot. P: 17.0
Tot. Al: 5.0 Ext. Al: 6.0 Fe: 50.0 Mn: 10.0 SiO2: 10.33

ID: 2D3-014 Name: LONG LAKE State: MN Date: 13OCT84
Sample Type: REGULAR Latitude: 46-38'50"N Longitude: 93-27'30"W
Elevation: 379 Surface Temp: 13.5 Stratified: MIXED Site Depth: 6.7
Lake Area: 13 Watershed Area: 57 WA/LA: 4.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.1 Turbidity: 0.7 Color: 35
Closed pH: 6.48 Equil. pH: 6.85 ANC: 105.0 DOC: 11.30
Closed DIC: 1.21 Equil. DIC: 0.88 Meas. Cond: 27.8 Cal. Cond: 26.1
Ca: 64.9 Mg: 70.7 Na: 95.7 K: 30.7 NH4: 0.6
SO4: 35.4 HCO3: 64.2 Cl: 72.5 NO3: 0.0 F: 1.8
Sum Cations: 262.7 Sum Anions: 174.0 Cations/Anions: 1.51 Tot. P: 15.0
Tot. Al: 36.0 Ext. Al: 13.0 Fe: 40.0 Mn: 0.0 SiO2: 0.07

ID: 2D3-017 Name: (NO NAME) State: MN Date: 14OCT84
Sample Type: REGULAR Latitude: 46-23'30"N Longitude: 93-58'00"W
Elevation: 378 Surface Temp: 16.0 Stratified: MIXED Site Depth: 1.5
Lake Area: 12 Watershed Area: 57 WA/LA: 4.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.9 Turbidity: 2.3 Color: 25
Closed pH: 7.88 Equil. pH: 8.10 ANC: 360.0 DOC: 10.40
Closed DIC: 3.64 Equil. DIC: 3.62 Meas. Cond: 44.0 Cal. Cond: 43.6
Ca: 258.0 Mg: 125.9 Na: 36.1 K: 22.2 NH4: 0.0
SO4: 42.7 HCO3: 287.5 Cl: 22.3 NO3: 0.0 F: 2.5
Sum Cations: 442.2 Sum Anions: 355.6 Cations/Anions: 1.24 Tot. P: 19.0
Tot. Al: 47.0 Ext. Al: 30.0 Fe: 20.0 Mn: 0.0 SiO2: 0.32

(continued)

TABLE 3-1 (continued)

ID: 2D3-018 Name: STAR LAKE State: WI Date: 01NOV84
Sample Type: REGULAR Latitude: 46-23'15"N Longitude: 91-13'15"W
Elevation: 340 Surface Temp: 6.8 Stratified: MIXED Site Depth: 14.3
Lake Area: 85 Watershed Area: 368 WA/LA: 4.3 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 4.8 Turbidity: 0.5 Color: 18
Closed pH: 7.55 Equil. pH: 8.09 ANC: 614.0 DOC: 5.80
Closed DIC: 7.43 Equil. DIC: 6.96 Meas. Cond: 65.1 Cal. Cond: 66.6
Ca: 402.2 Mg: 214.7 Na: 30.9 K: 13.0 NH4: 5.5
SO4: 33.7 HCO3: 553.8 Cl: 7.9 NO3: 2.0 F: 1.7
Sum Cations: 666.4 Sum Anions: 601.3 Cations/Anions: 1.11 Tot. P: 52.0
Tot. Al: 10.0 Ext. Al: 2.0 Fe: 20.0 Mn: 0.0 SiO2: 8.29

ID: 2D3-019 Name: TANK LAKE State: WI Date: 01NOV84
Sample Type: REGULAR Latitude: 46-22'07"N Longitude: 91-08'10"W
Elevation: 331 Surface Temp: 4.2 Stratified: MIXED Site Depth: 2.1
Lake Area: 10 Watershed Area: 344 WA/LA: 34.8 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 1.6 Turbidity: 1.1 Color: 105
Closed pH: 6.12 Equil. pH: 6.45 ANC: 50.0 DOC: 13.20
Closed DIC: 0.60 Equil. DIC: 0.32 Meas. Cond: 36.3 Cal. Cond: 34.0
Ca: 84.3 Mg: 60.9 Na: 143.5 K: 19.7 NH4: 2.2
SO4: 51.2 HCO3: 12.5 Cl: 155.2 NO3: 0.0 F: 1.1
Sum Cations: 311.8 Sum Anions: 219.9 Cations/Anions: 1.42 Tot. P: 37.0
Tot. Al: 294.0 Ext. Al: 74.0 Fe: 200.0 Mn: 0.0 SiO2: 0.50

ID: 2D3-020 Name: NORTHEAST LAKE State: WI Date: 01NOV84
Sample Type: REGULAR Latitude: 46-16'10"N Longitude: 91-12'30"W
Elevation: 420 Surface Temp: 7.0 Stratified: MIXED Site Depth: 15.5
Lake Area: 36 Watershed Area: 106 WA/LA: 3.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.3 Turbidity: 0.6 Color: 29
Closed pH: 7.20 Equil. pH: 7.98 ANC: 516.0 DOC: 6.00
Closed DIC: 6.67 Equil. DIC: 5.90 Meas. Cond: 58.5 Cal. Cond: 59.6
Ca: 377.2 Mg: 163.7 Na: 34.8 K: 7.9 NH4: 5.5
SO4: 48.9 HCO3: 464.2 Cl: 11.8 NO3: 1.7 F: 1.3
Sum Cations: 589.3 Sum Anions: 528.9 Cations/Anions: 1.11 Tot. P: 18.0
Tot. Al: 22.0 Ext. Al: 1.0 Fe: 70.0 Mn: 0.0 SiO2: 0.64

ID: 2D3-022 Name: PARLEMEE LAKE State: MI Date: 13OCT84
Sample Type: REGULAR Latitude: 46-13'40"N Longitude: 88-00'45"W
Elevation: 426 Surface Temp: 12.9 Stratified: MIXED Site Depth: 6.1
Lake Area: 8 Watershed Area: 41 WA/LA: 5.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.9 Turbidity: 0.6 Color: 10
Closed pH: 8.69 Equil. pH: 8.82 ANC: 2161.0 DOC: 3.90
Closed DIC: 22.06 Equil. DIC: 23.34 Meas. Cond: 248.0 Cal. Cond: 278.3
Ca: 1065.4 Mg: 1158.2 Na: 456.8 K: 22.5 NH4: 0.0
SO4: 110.3 HCO3: 1904.7 Cl: 420.3 NO3: 0.1 F: 1.9
Sum Cations: 2702.8 Sum Anions: 2484.1 Cations/Anions: 1.09 Tot. P: 4.0
Tot. Al: 15.0 Ext. Al: 8.0 Fe: 0.0 Mn: 0.0 SiO2: 2.37

ID: 2D3-023 Name: GIBSON LAKE State: MI Date: 03NOV84
Sample Type: REGULAR Latitude: 46-11'59"N Longitude: 88-26'35"W
Elevation: 443 Surface Temp: 4.3 Stratified: MIXED Site Depth: 5.5
Lake Area: 38 Watershed Area: 184 WA/LA: 4.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.3 Turbidity: 1.2 Color: 20
Closed pH: 7.03 Equil. pH: 7.14 ANC: 119.0 DOC: 5.10
Closed DIC: 1.42 Equil. DIC: 1.29 Meas. Cond: 34.0 Cal. Cond: 34.0
Ca: 109.3 Mg: 89.7 Na: 67.4 K: 23.8 NH4: 0.6
SO4: 45.4 HCO3: 103.1 Cl: 121.3 NO3: 0.3 F: 1.2
Sum Cations: 290.8 Sum Anions: 271.4 Cations/Anions: 1.07 Tot. P: 15.0
Tot. Al: 32.0 Ext. Al: 1.0 Fe: 10.0 Mn: 0.0 SiO2: 0.13

(continued)

TABLE 3-1 (continued)

ID: 2D3-028 Name: TRIPP LAKE State: WI Date: 04NOV84
Sample Type: REGULAR Latitude: 45-54'05"N Longitude: 91-32'15"W
Elevation: 392 Surface Temp: 2.9 Stratified: MIXED Site Depth: 5.2
Lake Area: 18 Watershed Area: 329 WA/LA: 18.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.9 Turbidity: 1.5 Color: 100
Closed pH: 7.07 Equil. pH: 7.85 ANC: 360.0 DOC: 13.30
Closed DIC: 4.73 Equil. DIC: 3.82 Meas. Cond: 43.6 Cal. Cond: 42.8
Ca: 233.5 Mg: 167.8 Na: 43.9 K: 17.1 NH4: 10.0
SO4: 6.9 HCO3: 316.5 Cl: 12.1 NO3: 1.4 F: 1.8
Sum Cations: 472.5 Sum Anions: 339.1 Cations/Anions: 1.39 Tot. P: 21.0
Tot. Al: 20.0 Ext. Al: 4.0 Fe: 330.0 Mn: 0.0 SiO2: 4.15

ID: 2D3-029 Name: DIKE 4&5 FLOWAGE State: WI Date: 28OCT84
Sample Type: REGULAR Latitude: 45-50'39"N Longitude: 92-39'37"W
Elevation: 285 Surface Temp: 7.4 Stratified: MIXED Site Depth: 0.9
Lake Area: 46 Watershed Area: 790 WA/LA: 17.1 Hydro Type: RESERVOIR
Residence Time: 0.15 Secchi Depth: 0.6 Turbidity: 5.6 Color: 110
Closed pH: 6.97 Equil. pH: 7.50 ANC: 184.0 DOC: 10.20
Closed DIC: 1.97 Equil. DIC: 1.81 Meas. Cond: 27.2 Cal. Cond: 25.3
Ca: 101.8 Mg: 91.3 Na: 45.2 K: 21.0 NH4: 11.6
SO4: 20.6 HCO3: 127.3 Cl: 17.2 NO3: 13.7 F: 2.2
Sum Cations: 271.1 Sum Anions: 181.1 Cations/Anions: 1.50 Tot. P: 32.0
Tot. Al: 52.0 Ext. Al: 2.0 Fe: 430.0 Mn: 0.0 SiO2: 1.37

ID: 2D3-031 Name: WEST BASS LAKE State: WI Date: 25OCT84
Sample Type: REGULAR Latitude: 45-46'45"N Longitude: 88-20'10"W
Elevation: 395 Surface Temp: 7.0 Stratified: MIXED Site Depth: 4.7
Lake Area: 22 Watershed Area: 332 WA/LA: 15.1 Hydro Type: DRAINAGE
Residence Time: 0.49 Secchi Depth: 3.3 Turbidity: 0.6 Color: 15
Closed pH: 8.34 Equil. pH: 8.58 ANC: 1807.5 DOC: 2.54
Closed DIC: 20.51 Equil. DIC: 19.15 Meas. Cond: 198.0 Cal. Cond: 223.0
Ca: 1157.7 Mg: 871.1 Na: 83.5 K: 27.6 NH4: 0.6
SO4: 292.7 HCO3: 1610.7 Cl: 59.0 NO3: 0.5 F: 6.1
Sum Cations: 2140.5 Sum Anions: 1993.8 Cations/Anions: 1.07 Tot. P: 12.0
Tot. Al: 7.0 Ext. Al: 2.0 Fe: 10.0 Mn: 0.0 SiO2: 9.87

ID: 2D3-035 Name: HEADQUARTERS LAKE State: WI Date: 25OCT84
Sample Type: REGULAR Latitude: 45-36'05"N Longitude: 87-57'37"W
Elevation: 285 Surface Temp: 7.0 Stratified: MIXED Site Depth: 2.2
Lake Area: 16 Watershed Area: 179 WA/LA: 11.0 Hydro Type: DRAINAGE
Residence Time: 0.48 Secchi Depth: 2.2 Turbidity: 0.4 Color: 15
Closed pH: 8.18 Equil. pH: 8.48 ANC: 1472.9 DOC: 8.98
Closed DIC: 16.62 Equil. DIC: 17.55 Meas. Cond: 144.7 Cal. Cond: 158.1
Ca: 964.1 Mg: 575.8 Na: 20.4 K: 5.1 NH4: 6.1
SO4: 50.0 HCO3: 1398.4 Cl: 11.3 NO3: 0.6 F: 1.9
Sum Cations: 1571.5 Sum Anions: 1478.9 Cations/Anions: 1.06 Tot. P: 6.0
Tot. Al: 13.0 Ext. Al: 9.0 Fe: 0.0 Mn: 10.0 SiO2: 0.38

ID: 2D3-036 Name: WINTERGREEN LAKE State: WI Date: 03NOV84
Sample Type: REGULAR Latitude: 45-35'40"N Longitude: 92-11'13"W
Elevation: 387 Surface Temp: 2.1 Stratified: MIXED Site Depth: 3.0
Lake Area: 17 Watershed Area: 83 WA/LA: 5.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.8 Turbidity: 2.2 Color: 125
Closed pH: 6.61 Equil. pH: 7.20 ANC: 120.0 DOC: 15.20
Closed DIC: 1.24 Equil. DIC: 0.98 Meas. Cond: 25.8 Cal. Cond: 22.8
Ca: 87.3 Mg: 68.3 Na: 25.2 K: 51.1 NH4: 16.6
SO4: 29.1 HCO3: 67.5 Cl: 26.8 NO3: 3.4 F: 0.9
Sum Cations: 248.9 Sum Anions: 127.8 Cations/Anions: 1.95 Tot. P: 54.0
Tot. Al: 166.0 Ext. Al: 30.0 Fe: 180.0 Mn: 0.0 SiO2: 0.46

(continued)

TABLE 3-1 (continued)

ID: 2D3-039 Name: JOEL FLOWAGE State: WI Date: 03NOV84
Sample Type: REGULAR Latitude: 45-23'29"N Longitude: 92-13'02"W
Elevation: 351 Surface Temp: 1.7 Stratified: MIXED Site Depth: 1.2
Lake Area: 28 Watershed Area: 2201 WA/LA: 78.9 Hydro Type: DRAINAGE
Residence Time: 0.05 Secchi Depth: 1.2 Turbidity: 2.0 Color: 52
Closed pH: 8.00 Equil. pH: 8.72 ANC: 1722.0 DOC: 9.50
Closed DIC: 20.10 Equil. DIC: 19.52 Meas. Cond: 188.4 Cal. Cond: 204.5
Ca: 1068.9 Mg: 690.2 Na: 135.7 K: 64.4 NH4: 1.7
SO4: 58.5 HCO3: 1594.4 Cl: 200.3 NO3: 8.4 F: 4.5
Sum Cations: 1960.8 Sum Anions: 1879.4 Cations/Anions: 1.04 Tot. P: 31.0
Tot. Al: 28.0 Ext. Al: 19.0 Fe: 160.0 Mn: 0.0 SiO2: 2.78

ID: 2D3-040 Name: MOOSE EAR LAKE State: WI Date: 07NOV84
Sample Type: REGULAR Latitude: 45-19'50"N Longitude: 91-34'24"W
Elevation: 319 Surface Temp: 3.2 Stratified: MIXED Site Depth: 1.2
Lake Area: 8 Watershed Area: 12012 WA/LA: 1501.5 Hydro Type: DRAINAGE
Residence Time: 0.00 Secchi Depth: 0.7 Turbidity: 5.0 Color: 64
Closed pH: 7.17 Equil. pH: 8.38 ANC: 765.0 DOC: 5.90
Closed DIC: 9.46 Equil. DIC: 8.21 Meas. Cond: 101.2 Cal. Cond: 104.7
Ca: 523.9 Mg: 341.4 Na: 109.2 K: 24.5 NH4: 3.3
SO4: 93.3 HCO3: 705.1 Cl: 91.1 NO3: 24.8 F: 3.3
Sum Cations: 1002.4 Sum Anions: 919.3 Cations/Anions: 1.09 Tot. P: 107.0
Tot. Al: 173.0 Ext. Al: 9.0 Fe: 440.0 Mn: 60.0 SiO2: 13.40

ID: 2D3-041 Name: SOUTH TWIN LAKE State: WI Date: 07NOV84
Sample Type: REGULAR Latitude: 45-16'22"N Longitude: 90-26'16"W
Elevation: 440 Surface Temp: 5.3 Stratified: MIXED Site Depth: 14.3
Lake Area: 10 Watershed Area: 31 WA/LA: 3.1 Hydro Type: DRAINAGE
Residence Time: 4.71 Secchi Depth: 4.5 Turbidity: 0.3 Color: 15
Closed pH: 6.65 Equil. pH: 7.51 ANC: 109.6 DOC: 4.60
Closed DIC: 1.77 Equil. DIC: 1.29 Meas. Cond: 23.8 Cal. Cond: 24.4
Ca: 104.3 Mg: 65.0 Na: 23.1 K: 16.1 NH4: 4.4
SO4: 75.2 HCO3: 103.8 Cl: 16.9 NO3: 1.1 F: 1.1
Sum Cations: 213.1 Sum Anions: 198.2 Cations/Anions: 1.08 Tot. P: 8.0
Tot. Al: 18.0 Ext. Al: 1.0 Fe: 20.0 Mn: 0.0 SiO2: 0.42

ID: 2D3-042 Name: ANDERSON LAKE State: WI Date: 07NOV84
Sample Type: REGULAR Latitude: 45-12'15"N Longitude: 90-35'23"W
Elevation: 431 Surface Temp: 3.7 Stratified: MIXED Site Depth: 8.8
Lake Area: 17 Watershed Area: 679 WA/LA: 39.0 Hydro Type: DRAINAGE
Residence Time: 0.39 Secchi Depth: 1.7 Turbidity: 1.3 Color: 90
Closed pH: 7.41 Equil. pH: 8.43 ANC: 935.8 DOC: 11.90
Closed DIC: 14.38 Equil. DIC: 10.35 Meas. Cond: 100.3 Cal. Cond: 109.7
Ca: 571.9 Mg: 333.2 Na: 109.2 K: 31.7 NH4: 24.4
SO4: 51.8 HCO3: 870.8 Cl: 62.9 NO3: 4.2 F: 3.5
Sum Cations: 1070.3 Sum Anions: 997.3 Cations/Anions: 1.07 Tot. P: 95.0
Tot. Al: 50.0 Ext. Al: 4.0 Fe: 490.0 Mn: 10.0 SiO2: 6.28

ID: 2D3-044 Name: EATON LAKE State: MI Date: 22OCT84
Sample Type: REGULAR Latitude: 45-10'00"N Longitude: 85-16'15"W
Elevation: 233 Surface Temp: 11.1 Stratified: MIXED Site Depth: 12.2
Lake Area: 8 Watershed Area: 127 WA/LA: 15.1 Hydro Type: DRAINAGE
Residence Time: 1.32 Secchi Depth: 1.7 Turbidity: 1.3 Color: 40
Closed pH: 7.82 Equil. pH: 8.85 ANC: 2927.0 DOC: 8.85
Closed DIC: 32.37 Equil. DIC: 31.06 Meas. Cond: 300.1 Cal. Cond: 329.0
Ca: 1996.0 Mg: 930.4 Na: 120.3 K: 92.3 NH4: 6.4
SO4: 167.3 HCO3: 2601.4 Cl: 219.5 NO3: 2.8 F: 5.5
Sum Cations: 3145.3 Sum Anions: 3015.5 Cations/Anions: 1.04 Tot. P: 47.0
Tot. Al: 12.0 Ext. Al: 0.0 Fe: 0.0 Mn: 0.0 SiO2: 4.81

(continued)

TABLE 3-1 (continued)

ID: 2D3-045 Name: JACKSON LAKE State: MI Date: 22OCT84
Sample Type: REGULAR Latitude: 45-05'10"N Longitude: 84-09'40"W
Elevation: 272 Surface Temp: 11.4 Stratified: MIXED Site Depth: 6.1
Lake Area: 11 Watershed Area: 246 WA/LA: 22.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.6 Turbidity: 0.4 Color: 15
Closed pH: 8.07 Equil. pH: 8.69 ANC: 1665.0 DOC: 8.00
Closed DIC: 19.02 Equil. DIC: 19.21 Meas. Cond: 177.2 Cal. Cond: 194.5
Ca: 1235.5 Mg: 554.4 Na: 38.7 K: 14.7 NH4: 3.3
SO4: 185.3 HCO3: 1585.4 Cl: 20.6 NO3: 0.0 F: 3.3
Sum Cations: 1846.7 Sum Anions: 1812.3 Cations/Anions: 1.02 Tot. P: 2.0
Tot. Al: 22.0 Ext. Al: 5.0 Fe: 20.0 Mn: 0.0 SiO2: 2.40

ID: 2D3-046 Name: CLIFFORD LAKE State: MI Date: 22OCT84
Sample Type: REGULAR Latitude: 45-01'40"N Longitude: 84-38'10"W
Elevation: 375 Surface Temp: 11.6 Stratified: MIXED Site Depth: 7.6
Lake Area: 5 Watershed Area: 83 WA/LA: 16.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.7 Turbidity: 0.5 Color: 10
Closed pH: 8.16 Equil. pH: 8.84 ANC: 2716.0 DOC: 4.00
Closed DIC: 27.32 Equil. DIC: 28.07 Meas. Cond: 304.3 Cal. Cond: 340.2
Ca: 1707.9 Mg: 997.0 Na: 379.3 K: 16.1 NH4: 5.5
SO4: 204.2 HCO3: 2306.1 Cl: 573.2 NO3: 0.4 F: 2.7
Sum Cations: 3105.9 Sum Anions: 3120.8 Cations/Anions: 1.00 Tot. P: 2.0
Tot. Al: 11.0 Ext. Al: 0.0 Fe: 0.0 Mn: 0.0 SiO2: 3.87

ID: 2D3-047 Name: GINSEL LAKE State: MI Date: 22OCT84
Sample Type: REGULAR Latitude: 44-59'32"N Longitude: 84-29'52"W
Elevation: 377 Surface Temp: 10.6 Stratified: WEAK Site Depth: 10.4
Lake Area: 5 Watershed Area: 44 WA/LA: 9.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.1 Turbidity: 2.3 Color: 40
Closed pH: 5.65 Equil. pH: 5.98 ANC: 23.0 DOC: 9.40
Closed DIC: 0.68 Equil. DIC: 0.15 Meas. Cond: 18.7 Cal. Cond: 18.1
Ca: 77.8 Mg: 40.3 Na: 13.0 K: 21.4 NH4: 1.7
SO4: 80.4 HCO3: 7.8 Cl: 16.9 NO3: 0.0 F: 1.2
Sum Cations: 156.7 Sum Anions: 106.3 Cations/Anions: 1.47 Tot. P: 20.0
Tot. Al: 31.0 Ext. Al: 5.0 Fe: 20.0 Mn: 40.0 SiO2: 0.29

ID: 2D3-048 Name: SAGE LAKES (LG CENTRAL) State: MI Date: 22OCT84
Sample Type: REGULAR Latitude: 44-53'30"N Longitude: 84-09'10"W
Elevation: 290 Surface Temp: 10.9 Stratified: MIXED Site Depth: 10.0
Lake Area: 8 Watershed Area: 231 WA/LA: 30.8 Hydro Type: DRAINAGE
Residence Time: 0.56 Secchi Depth: 9.0 Turbidity: 0.3 Color: 10
Closed pH: 8.07 Equil. pH: 8.90 ANC: 4002.0 DOC: 2.30
Closed DIC: 44.23 Equil. DIC: 43.47 Meas. Cond: 372.6 Cal. Cond: 425.1
Ca: 2770.0 Mg: 1260.4 Na: 78.3 K: 13.9 NH4: 0.0
SO4: 222.8 HCO3: 3700.5 Cl: 31.0 NO3: 0.0 F: 4.9
Sum Cations: 4122.5 Sum Anions: 4010.2 Cations/Anions: 1.03 Tot. P: 2.0
Tot. Al: 8.0 Ext. Al: 0.0 Fe: 0.0 Mn: 0.0 SiO2: 5.37

ID: 2D3-049 Name: BASS LAKE State: MI Date: 22OCT84
Sample Type: REGULAR Latitude: 44-48'06"N Longitude: 84-53'01"W
Elevation: 367 Surface Temp: 11.5 Stratified: MIXED Site Depth: 11.9
Lake Area: 21 Watershed Area: 515 WA/LA: 24.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.7 Turbidity: 0.4 Color: 10
Closed pH: 8.08 Equil. pH: 8.84 ANC: 2670.0 DOC: 3.30
Closed DIC: 29.11 Equil. DIC: 29.22 Meas. Cond: 251.6 Cal. Cond: 275.5
Ca: 1790.4 Mg: 742.8 Na: 60.9 K: 16.5 NH4: 4.4
SO4: 79.9 HCO3: 2434.2 Cl: 102.4 NO3: 0.5 F: 2.3
Sum Cations: 2615.1 Sum Anions: 2652.9 Cations/Anions: 0.99 Tot. P: 5.0
Tot. Al: 9.0 Ext. Al: 0.0 Fe: 10.0 Mn: 0.0 SiO2: 6.21

(continued)

TABLE 3-1 (continued)

ID: 2D3-051 Name: NIOBE LAKE State: WI Date: 05NOV84
Sample Type: REGULAR Latitude: 45-07'20"N Longitude: 88-54'14"W
Elevation: 399 Surface Temp: 3.3 Stratified: MIXED Site Depth: 4.9
Lake Area: 13 Watershed Area: 186 WA/LA: 14.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.3 Turbidity: 0.7 Color: 20
Closed pH: 8.20 Equil. pH: 8.58 ANC: 2123.7 DOC: 6.30
Closed DIC: 23.89 Equil. DIC: 25.00 Meas. Cond: 208.5 Cal. Cond: 234.3
Ca: 1050.9 Mg: 1064.4 Na: 51.8 K: 33.0 NH4: 18.7
SO4: 118.0 HCO3: 2138.5 Cl: 21.7 NO3: 1.5 F: 8.9
Sum Cations: 2218.8 Sum Anions: 2319.0 Cations/Anions: 0.96 Tot. P: 11.0
Tot. Al: 2.0 Ext. Al: 9.0 Fe: 0.0 Mn: 0.0 SiO2: 3.03

ID: 2D3-052 Name: COMSTOCK LAKE State: MN Date: 13OCT84
Sample Type: REGULAR Latitude: 47-13'15"N Longitude: 92-13'30"W
Elevation: 425 Surface Temp: 13.3 Stratified: MIXED Site Depth: 7.6
Lake Area: 108 Watershed Area: 5548 WA/LA: 51.4 Hydro Type: DRAINAGE
Residence Time: 0.26 Secchi Depth: 1.5 Turbidity: 1.9 Color: 92
Closed pH: 7.39 Equil. pH: 8.31 ANC: 853.5 DOC: 14.80
Closed DIC: 9.15 Equil. DIC: 9.46 Meas. Cond: 90.6 Cal. Cond: 98.1
Ca: 522.5 Mg: 388.3 Na: 91.3 K: 16.4 NH4: 0.0
SO4: 59.3 HCO3: 762.2 Cl: 18.3 NO3: 0.0 F: 5.9
Sum Cations: 1018.4 Sum Anions: 850.5 Cations/Anions: 1.20 Tot. P: 22.0
Tot. Al: 20.0 Ext. Al: 4.0 Fe: 190.0 Mn: 0.0 SiO2: 5.22

ID: 2D3-053 Name: BIG ROUND LAKE State: WI Date: 03NOV84
Sample Type: REGULAR Latitude: 45-31'34"N Longitude: 92-18'00"W
Elevation: 351 Surface Temp: 3.3 Stratified: MIXED Site Depth: 4.3
Lake Area: 413 Watershed Area: 5488 WA/LA: 13.3 Hydro Type: DRAINAGE
Residence Time: 0.84 Secchi Depth: 1.9 Turbidity: 1.5 Color: 13
Closed pH: 7.98 Equil. pH: 8.76 ANC: 1949.0 DOC: 4.10
Closed DIC: 22.51 Equil. DIC: 22.20 Meas. Cond: 194.2 Cal. Cond: 210.2
Ca: 1184.1 Mg: 709.9 Na: 116.3 K: 21.5 NH4: 0.6
SO4: 89.1 HCO3: 1787.6 Cl: 77.9 NO3: 13.2 F: 3.8
Sum Cations: 2032.3 Sum Anions: 1985.8 Cations/Anions: 1.02 Tot. P: 27.0
Tot. Al: 10.0 Ext. Al: 10.0 Fe: 20.0 Mn: 0.0 SiO2: 22.60

ID: 2D3-055 Name: STEVENS LAKE State: MN Date: 28OCT84
Sample Type: REGULAR Latitude: 47-20'00"N Longitude: 93-42'30"W
Elevation: 390 Surface Temp: 5.1 Stratified: MIXED Site Depth: 1.2
Lake Area: 93 Watershed Area: 1637 WA/LA: 17.7 Hydro Type: DRAINAGE
Residence Time: 0.19 Secchi Depth: 1.0 Turbidity: 1.6 Color: 73
Closed pH: 7.86 Equil. pH: 8.67 ANC: 1451.0 DOC: 14.60
Closed DIC: 15.30 Equil. DIC: 15.07 Meas. Cond: 137.7 Cal. Cond: 153.7
Ca: 942.6 Mg: 525.6 Na: 90.5 K: 26.6 NH4: 0.6
SO4: 70.4 HCO3: 1234.2 Cl: 23.4 NO3: 2.0 F: 3.2
Sum Cations: 1585.9 Sum Anions: 1341.2 Cations/Anions: 1.18 Tot. P: 19.0
Tot. Al: 29.0 Ext. Al: 1.0 Fe: 40.0 Mn: 0.0 SiO2: 2.27

ID: 2D3-056 Name: BLUE LAKE State: MI Date: 22OCT84
Sample Type: REGULAR Latitude: 44-44'47"N Longitude: 85-09'30"W
Elevation: 312 Surface Temp: 9.8 Stratified: MIXED Site Depth: 3.1
Lake Area: 11 Watershed Area: 181 WA/LA: 17.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.1 Turbidity: 0.6 Color: 15
Closed pH: 8.32 Equil. pH: 8.70 ANC: 1687.0 DOC: 6.10
Closed DIC: 19.06 Equil. DIC: 19.39 Meas. Cond: 191.9 Cal. Cond: 210.1
Ca: 1399.7 Mg: 437.6 Na: 88.7 K: 18.0 NH4: 3.3
SO4: 130.1 HCO3: 1576.8 Cl: 200.0 NO3: 0.0 F: 1.3
Sum Cations: 1947.4 Sum Anions: 1933.3 Cations/Anions: 1.01 Tot. P: 2.0
Tot. Al: 8.0 Ext. Al: 1.0 Fe: 0.0 Mn: 0.0 SiO2: 5.00

(continued)

TABLE 3-1 (continued)

ID: 2D3-057 Name: LAKE NINETEEN State: WI Date: 07NOV84
Sample Type: REGULAR Latitude: 45-14'27"N Longitude: 90-32'10"W
Elevation: 446 Surface Temp: 4.8 Stratified: MIXED Site Depth: 14.3
Lake Area: 7 Watershed Area: 18 WA/LA: 2.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.9 Turbidity: 0.7 Color: 50
Closed pH: 6.33 Equil. pH: 7.24 ANC: 90.5 DOC: 7.60
Closed DIC: 2.16 Equil. DIC: 1.08 Meas. Cond: 24.8 Cal. Cond: 23.8
Ca: 105.3 Mg: 72.4 Na: 31.3 K: 15.9 NH4: 0.0
SO4: 76.2 HCO3: 71.5 Cl: 18.6 NO3: 0.5 F: 0.8
Sum Cations: 225.3 Sum Anions: 167.6 Cations/Anions: 1.34 Tot. P: 17.0
Tot. Al: 45.0 Ext. Al: 10.0 Fe: 150.0 Mn: 40.0 SiO2: 0.75

ID: 2D3-059 Name: KELLEYS LAKE State: WI Date: 03NOV84
Sample Type: REGULAR Latitude: 45-36'59"N Longitude: 92-08'50"W
Elevation: 401 Surface Temp: 1.6 Stratified: MIXED Site Depth: 1.5
Lake Area: 7 Watershed Area: 67 WA/LA: 9.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.5 Turbidity: 1.0 Color: 59
Closed pH: 6.25 Equil. pH: 6.81 ANC: 50.0 DOC: 10.20
Closed DIC: 0.60 Equil. DIC: 0.40 Meas. Cond: 13.5 Cal. Cond: 10.7
Ca: 49.4 Mg: 40.3 Na: 12.2 K: 11.0 NH4: 0.6
SO4: 25.4 HCO3: 19.9 Cl: 11.8 NO3: 0.0 F: 0.7
Sum Cations: 114.3 Sum Anions: 57.8 Cations/Anions: 1.98 Tot. P: 26.0
Tot. Al: 65.0 Ext. Al: 19.0 Fe: 50.0 Mn: 0.0 SiO2: 0.32

ID: 2D3-060 Name: LOWER HOLLY LAKE State: WI Date: 04NOV84
Sample Type: REGULAR Latitude: 45-50'28"N Longitude: 91-28'08"W
Elevation: 397 Surface Temp: 2.3 Stratified: MIXED Site Depth: 3.4
Lake Area: 19 Watershed Area: 78 WA/LA: 4.1 Hydro Type: DRAINAGE
Residence Time: 0.96 Secchi Depth: 1.4 Turbidity: 1.2 Color: 56
Closed pH: 6.68 Equil. pH: 7.24 ANC: 91.0 DOC: 9.70
Closed DIC: 1.11 Equil. DIC: 0.94 Meas. Cond: 21.5 Cal. Cond: 19.3
Ca: 88.8 Mg: 56.8 Na: 37.0 K: 16.9 NH4: 1.1
SO4: 38.3 HCO3: 51.7 Cl: 29.6 NO3: 0.0 F: 0.9
Sum Cations: 200.9 Sum Anions: 120.6 Cations/Anions: 1.67 Tot. P: 29.0
Tot. Al: 47.0 Ext. Al: 13.0 Fe: 200.0 Mn: 0.0 SiO2: 0.00

ID: 2D3-062 Name: CHIPPANAZIE LAKE State: WI Date: 04NOV84
Sample Type: REGULAR Latitude: 46-02'21"N Longitude: 91-33'34"W
Elevation: 358 Surface Temp: 3.3 Stratified: MIXED Site Depth: 8.3
Lake Area: 23 Watershed Area: 2802 WA/LA: 120.3 Hydro Type: DRAINAGE
Residence Time: 0.12 Secchi Depth: 1.0 Turbidity: 1.9 Color: 120
Closed pH: 7.47 Equil. pH: 8.47 ANC: 978.0 DOC: 15.30
Closed DIC: 11.61 Equil. DIC: 10.22 Meas. Cond: 106.7 Cal. Cond: 117.5
Ca: 693.6 Mg: 370.2 Na: 83.1 K: 15.3 NH4: 5.0
SO4: 56.2 HCO3: 894.8 Cl: 76.2 NO3: 6.7 F: 2.4
Sum Cations: 1167.2 Sum Anions: 1039.0 Cations/Anions: 1.12 Tot. P: 37.0
Tot. Al: 49.0 Ext. Al: 14.0 Fe: 500.0 Mn: 20.0 SiO2: 12.00

ID: 2D3-064 Name: BLACKWOOD LAKE State: MN Date: 13OCT84
Sample Type: REGULAR Latitude: 46-46'48"N Longitude: 92-53'10"W
Elevation: 392 Surface Temp: 12.5 Stratified: WEAK Site Depth: 7.9
Lake Area: 11 Watershed Area: 142 WA/LA: 13.0 Hydro Type: DRAINAGE
Residence Time: 1.58 Secchi Depth: 2.4 Turbidity: 0.7 Color: 45
Closed pH: 7.35 Equil. pH: 8.39 ANC: 1152.0 DOC: 10.70
Closed DIC: 12.72 Equil. DIC: 12.49 Meas. Cond: 119.3 Cal. Cond: 130.7
Ca: 723.1 Mg: 395.3 Na: 140.5 K: 16.1 NH4: 0.0
SO4: 36.3 HCO3: 1016.3 Cl: 126.0 NO3: 0.6 F: 3.8
Sum Cations: 1274.9 Sum Anions: 1190.5 Cations/Anions: 1.07 Tot. P: 13.0
Tot. Al: 5.5 Ext. Al: 3.0 Fe: 60.0 Mn: 20.0 SiO2: 11.21

(continued)

TABLE 3-1 (continued)

ID: 2D3-065 Name: PERCH LAKE State: WI Date: 25OCT84
Sample Type: REGULAR Latitude: 45-22'19"N Longitude: 87-59'19"W
Elevation: 233 Surface Temp: 9.2 Stratified: MIXED Site Depth: 5.5
Lake Area: 11 Watershed Area: 163 WA/LA: 14.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.7 Turbidity: 0.4 Color: 10
Closed pH: 8.57 Equil. pH: 8.73 ANC: 2859.3 DOC: 5.59
Closed DIC: 31.22 Equil. DIC: 32.92 Meas. Cond: 304.0 Cal. Cond: 328.5
Ca: 1214.6 Mg: 1748.0 Na: 80.0 K: 25.6 NH4: 15.0
SO4: 223.6 HCO3: 2757.2 Cl: 121.3 NO3: 3.4 F: 2.2
Sum Cations: 3083.2 Sum Anions: 3201.1 Cations/Anions: 0.96 Tot. P: 12.0
Tot. Al: 0.0 Ext. Al: 0.0 Fe: 10.0 Mn: 0.0 SiO2: 12.00

ID: 2D3-066 Name: KUJAWA LAKE State: MI Date: 22OCT84
Sample Type: REGULAR Latitude: 44-59'29"N Longitude: 84-26'47"W
Elevation: 377 Surface Temp: 11.0 Stratified: MIXED Site Depth: 3.7
Lake Area: 5 Watershed Area: 73 WA/LA: 14.3 Hydro Type: DRAINAGE
Residence Time: 0.42 Secchi Depth: 3.5 Turbidity: 0.7 Color: 15
Closed pH: 7.97 Equil. pH: 8.34 ANC: 680.3 DOC: 7.60
Closed DIC: 7.64 Equil. DIC: 7.50 Meas. Cond: 75.4 Cal. Cond: 78.7
Ca: 416.2 Mg: 324.9 Na: 9.6 K: 25.4 NH4: 0.6
SO4: 72.0 HCO3: 610.2 Cl: 13.3 NO3: 0.0 F: 1.8
Sum Cations: 776.7 Sum Anions: 701.5 Cations/Anions: 1.11 Tot. P: 11.0
Tot. Al: 62.0 Ext. Al: 28.0 Fe: 20.0 Mn: 0.0 SiO2: 0.30

ID: 2D3-068 Name: NOKAY LAKE State: MN Date: 14OCT84
Sample Type: REGULAR Latitude: 46-22'30"N Longitude: 93-58'00"W
Elevation: 374 Surface Temp: 14.1 Stratified: MIXED Site Depth: 8.8
Lake Area: 280 Watershed Area: 3253 WA/LA: 11.6 Hydro Type: DRAINAGE
Residence Time: 1.92 Secchi Depth: 1.4 Turbidity: 2.2 Color: 20
Closed pH: 8.53 Equil. pH: 8.84 ANC: 2465.0 DOC: 5.80
Closed DIC: 26.66 Equil. DIC: 26.35 Meas. Cond: 226.0 Cal. Cond: 246.4
Ca: 1622.2 Mg: 700.0 Na: 124.6 K: 28.6 NH4: 0.0
SO4: 34.5 HCO3: 2165.3 Cl: 30.3 NO3: 0.3 F: 5.4
Sum Cations: 2475.5 Sum Anions: 2275.3 Cations/Anions: 1.09 Tot. P: 19.5
Tot. Al: 7.5 Ext. Al: 4.0 Fe: 0.0 Mn: 0.0 SiO2: 11.60

ID: 2D3-069 Name: NORTH STAR LAKE State: MN Date: 14OCT84
Sample Type: REGULAR Latitude: 47-33'30"N Longitude: 93-39'40"W
Elevation: 414 Surface Temp: 12.7 Stratified: WEAK Site Depth: 18.6
Lake Area: 417 Watershed Area: 1137 WA/LA: 2.7 Hydro Type: DRAINAGE
Residence Time: 8.49 Secchi Depth: 3.3 Turbidity: 0.7 Color: 12
Closed pH: 7.99 Equil. pH: 8.75 ANC: 2372.0 DOC: 5.60
Closed DIC: 27.25 Equil. DIC: 26.15 Meas. Cond: 231.0 Cal. Cond: 252.0
Ca: 1460.1 Mg: 807.8 Na: 198.8 K: 49.1 NH4: 0.0
SO4: 22.5 HCO3: 2163.7 Cl: 93.1 NO3: 0.0 F: 4.7
Sum Cations: 2515.8 Sum Anions: 2332.4 Cations/Anions: 1.08 Tot. P: 10.0
Tot. Al: 8.0 Ext. Al: 4.0 Fe: 0.0 Mn: 0.0 SiO2: 8.03

ID: 2D3-070 Name: HERON LAKE State: WI Date: 04NOV84
Sample Type: REGULAR Latitude: 45-44'43"N Longitude: 91-29'18"W
Elevation: 377 Surface Temp: 4.2 Stratified: MIXED Site Depth: 5.8
Lake Area: 12 Watershed Area: 383 WA/LA: 31.6 Hydro Type: DRAINAGE
Residence Time: 0.56 Secchi Depth: 1.5 Turbidity: 1.2 Color: 64
Closed pH: 7.45 Equil. pH: 8.60 ANC: 1332.0 DOC: 9.50
Closed DIC: 16.42 Equil. DIC: 14.72 Meas. Cond: 128.8 Cal. Cond: 141.1
Ca: 814.9 Mg: 445.8 Na: 83.1 K: 17.6 NH4: 23.8
SO4: 31.0 HCO3: 1279.5 Cl: 16.1 NO3: 8.1 F: 3.1
Sum Cations: 1385.3 Sum Anions: 1343.7 Cations/Anions: 1.03 Tot. P: 89.0
Tot. Al: 13.0 Ext. Al: 5.0 Fe: 420.0 Mn: 140.0 SiO2: 13.20

(continued)

TABLE 3-1 (continued)

ID: 3A1-002 Name: CALDERWOOD LAKE State: TN Date: 20NOV84
Sample Type: REGULAR Latitude: 35-29'45"N Longitude: 83-58'00"W
Elevation: 331 Surface Temp: 15.1 Stratified: WEAK Site Depth: 45.1
Lake Area: 231 Watershed Area: 482670 WA/LA: 2089.5 Hydro Type: RESERVOIR
Residence Time: 0.02 Secchi Depth: 3.3 Turbidity: 1.4 Color: 20
Closed pH: 6.71 Equil. pH: 7.51 ANC: 148.2 DOC: 1.40
Closed DIC: 2.74 Equil. DIC: 1.97 Meas. Cond: 22.7 Cal. Cond: 25.3
Ca: 79.8 Mg: 46.1 Na: 61.8 K: 17.9 NH4: 1.4
SO4: 34.1 HCO3: 182.7 Cl: 26.2 NO3: 8.5 F: 1.3
Sum Cations: 207.1 Sum Anions: 253.0 Cations/Anions: 0.82 Tot. P: 4.0
Tot. Al: 38.0 Ext. Al: 2.0 Fe: 0.0 Mn: 113.0 SiO2: 7.54

ID: 3A1-004 Name: LAKE CHEOAH State: NC Date: 20NOV84
Sample Type: REGULAR Latitude: 35-27'00"N Longitude: 83-55'45"W
Elevation: 389 Surface Temp: 15.0 Stratified: MIXED Site Depth: 51.2
Lake Area: 234 Watershed Area: 416521 WA/LA: 1777.7 Hydro Type: RESERVOIR
Residence Time: 0.02 Secchi Depth: 2.3 Turbidity: 2.2 Color: 30
Closed pH: 6.68 Equil. pH: 7.50 ANC: 153.6 DOC: 1.00
Closed DIC: 2.74 Equil. DIC: 2.01 Meas. Cond: 23.0 Cal. Cond: 24.1
Ca: 80.3 Mg: 46.1 Na: 62.2 K: 27.4 NH4: 4.6
SO4: 33.9 HCO3: 136.3 Cl: 26.5 NO3: 6.9 F: 1.3
Sum Cations: 220.7 Sum Anions: 205.1 Cations/Anions: 1.08 Tot. P: 5.0
Tot. Al: 62.0 Ext. Al: 2.0 Fe: 29.0 Mn: 134.0 SiO2: 7.52

ID: 3A1-005 Name: INDIAN BOUNDARY LAKE State: TN Date: 20NOV84
Sample Type: REGULAR Latitude: 35-23'52"N Longitude: 84-06'50"W
Elevation: 543 Surface Temp: 10.0 Stratified: MIXED Site Depth: 4.6
Lake Area: 37 Watershed Area: 1116 WA/LA: 30.5 Hydro Type: RESERVOIR
Residence Time: 0.11 Secchi Depth: 1.8 Turbidity: 3.1 Color: 20
Closed pH: 7.26 Equil. pH: 7.76 ANC: 297.2 DOC: 2.60
Closed DIC: 3.77 Equil. DIC: 3.55 Meas. Cond: 35.3 Cal. Cond: 35.9
Ca: 190.1 Mg: 69.9 Na: 42.2 K: 3.8 NH4: 6.2
SO4: 25.0 HCO3: 315.4 Cl: 15.5 NO3: 9.8 F: 1.6
Sum Cations: 312.3 Sum Anions: 368.2 Cations/Anions: 0.85 Tot. P: 8.0
Tot. Al: 56.0 Ext. Al: 1.0 Fe: 43.0 Mn: 14.0 SiO2: 0.89

ID: 3A1-006 Name: ENKA LAKE State: NC Date: 21NOV84
Sample Type: REGULAR Latitude: 35-32'00"N Longitude: 82-39'20"W
Elevation: 639 Surface Temp: 6.8 Stratified: MIXED Site Depth: 7.3
Lake Area: 27 Watershed Area: 1528 WA/LA: 56.4 Hydro Type: RESERVOIR
Residence Time: 0.09 Secchi Depth: 3.0 Turbidity: 2.7 Color: 40
Closed pH: 7.20 Equil. pH: 7.69 ANC: 270.4 DOC: 1.30
Closed DIC: 3.67 Equil. DIC: 3.37 Meas. Cond: 38.3 Cal. Cond: 38.7
Ca: 125.2 Mg: 85.5 Na: 92.7 K: 38.6 NH4: 9.5
SO4: 41.4 HCO3: 248.1 Cl: 48.8 NO3: 4.3 F: 2.1
Sum Cations: 351.7 Sum Anions: 345.2 Cations/Anions: 1.02 Tot. P: 7.0
Tot. Al: 54.0 Ext. Al: 1.0 Fe: 180.0 Mn: 20.0 SiO2: 11.27

ID: 3A1-008 Name: THE LAGOON State: NC Date: 21NOV84
Sample Type: REGULAR Latitude: 35-32'28"N Longitude: 82-33'45"W
Elevation: 604 Surface Temp: 7.3 Stratified: MIXED Site Depth: 1.5
Lake Area: 4 Watershed Area: 166 WA/LA: 39.5 Hydro Type: DRAINAGE
Residence Time: 0.03 Secchi Depth: * Turbidity: 1.1 Color: 30
Closed pH: 7.30 Equil. pH: 7.81 ANC: 341.5 DOC: 2.50
Closed DIC: 4.53 Equil. DIC: 3.86 Meas. Cond: 45.1 Cal. Cond: 47.2
Ca: 145.7 Mg: 137.4 Na: 99.2 K: 46.8 NH4: 1.0
SO4: 33.3 HCO3: 347.2 Cl: 57.5 NO3: 0.6 F: 2.4
Sum Cations: 430.1 Sum Anions: 441.8 Cations/Anions: 0.97 Tot. P: 13.0
Tot. Al: 27.0 Ext. Al: 1.0 Fe: 170.0 Mn: 50.0 SiO2: 4.93

(continued)

TABLE 3-1 (continued)

ID: 3A1-010 Name: LAKE LOGAN State: NC Date: 29NOV84
Sample Type: REG/SPC/LTM/ Latitude: 35-25'00"N Longitude: 82-55'40"W
Elevation: 887 Surface Temp: 6.6 Stratified: MIXED Site Depth: 12.2
Lake Area: 35 Watershed Area: 8348 WA/LA: 237.2 Hydro Type: RESERVOIR
Residence Time: 0.03 Secchi Depth: 1.4 Turbidity: 2.8 Color: 40
Closed pH: 6.38 Equil. pH: 6.83 ANC: 39.7 DOC: 2.90
Closed DIC: 0.89 Equil. DIC: 0.49 Meas. Cond: 13.4 Cal. Cond: 14.0
Ca: 42.4 Mg: 26.3 Na: 30.4 K: 15.1 NH4: 0.9
SO4: 42.3 HCO3: 36.3 Cl: 18.3 NO3: 11.5 F: 0.6
Sum Cations: 115.6 Sum Anions: 109.1 Cations/Anions: 1.06 Tot. P: 6.0
Tot. Al: 280.0 Ext. Al: 37.0 Fe: 50.0 Mn: 10.0 SiO2: 5.04

ID: 3A1-012 Name: LAKE TOXAWAY State: NC Date: 29NOV84
Sample Type: REGULAR Latitude: 35-08'00"N Longitude: 82-56'30"W
Elevation: 914 Surface Temp: 8.6 Stratified: MIXED Site Depth: 13.7
Lake Area: 200 Watershed Area: 2023 WA/LA: 10.1 Hydro Type: RESERVOIR
Residence Time: 0.61 Secchi Depth: 1.6 Turbidity: 4.7 Color: 60
Closed pH: 6.60 Equil. pH: 7.17 ANC: 65.3 DOC: 1.30
Closed DIC: 1.24 Equil. DIC: 1.17 Meas. Cond: 11.2 Cal. Cond: 11.8
Ca: 39.9 Mg: 20.6 Na: 30.9 K: 9.5 NH4: 2.3
SO4: 21.7 HCO3: 60.1 Cl: 17.2 NO3: 1.0 F: 0.6
Sum Cations: 103.3 Sum Anions: 100.6 Cations/Anions: 1.03 Tot. P: 7.0
Tot. Al: 36.0 Ext. Al: 2.0 Fe: 60.0 Mn: 120.0 SiO2: 4.28

ID: 3A1-014 Name: CASHIERS LAKE State: NC Date: 25NOV84
Sample Type: REGULAR Latitude: 35-06'25"N Longitude: 83-06'03"W
Elevation: 1055 Surface Temp: 4.6 Stratified: MIXED Site Depth: 1.8
Lake Area: 11 Watershed Area: 290 WA/LA: 26.4 Hydro Type: RESERVOIR
Residence Time: 0.03 Secchi Depth: 1.6 Turbidity: 5.1 Color: 60
Closed pH: 6.73 Equil. pH: 7.39 ANC: 130.2 DOC: 3.40
Closed DIC: 1.84 Equil. DIC: 1.46 Meas. Cond: 33.7 Cal. Cond: 34.8
Ca: 88.8 Mg: 38.7 Na: 135.7 K: 33.5 NH4: 0.3
SO4: 42.5 HCO3: 127.7 Cl: 115.7 NO3: 3.2 F: 0.5
Sum Cations: 297.1 Sum Anions: 289.6 Cations/Anions: 1.03 Tot. P: 10.0
Tot. Al: 383.0 Ext. Al: 3.0 Fe: 170.0 Mn: 80.0 SiO2: 4.64

ID: 3A1-015 Name: HAMPTON LAKE State: NC Date: 25NOV84
Sample Type: REGULAR Latitude: 35-06'05"N Longitude: 83-04'45"W
Elevation: 1042 Surface Temp: 5.9 Stratified: MIXED Site Depth: 4.9
Lake Area: 7 Watershed Area: 199 WA/LA: 29.7 Hydro Type: RESERVOIR
Residence Time: 0.07 Secchi Depth: 2.6 Turbidity: 2.0 Color: 35
Closed pH: 6.47 Equil. pH: 7.19 ANC: 77.3 DOC: 1.70
Closed DIC: 1.47 Equil. DIC: 0.93 Meas. Cond: 14.1 Cal. Cond: 17.7
Ca: 45.9 Mg: 20.6 Na: 53.9 K: 12.3 NH4: 0.4
SO4: 33.7 HCO3: 69.5 Cl: 54.4 NO3: 2.3 F: 0.5
Sum Cations: 133.3 Sum Anions: 160.5 Cations/Anions: 0.83 Tot. P: 6.0
Tot. Al: 135.0 Ext. Al: 2.0 Fe: 110.0 Mn: 60.0 SiO2: 5.89

ID: 3A1-018 Name: LUPTIN LAKE State: NC Date: 25NOV84
Sample Type: REGULAR Latitude: 35-06'45"N Longitude: 83-01'15"W
Elevation: 945 Surface Temp: 4.2 Stratified: MIXED Site Depth: 4.9
Lake Area: 19 Watershed Area: 3875 WA/LA: 209.5 Hydro Type: RESERVOIR
Residence Time: 0.01 Secchi Depth: 1.4 Turbidity: 4.4 Color: 40
Closed pH: 6.25 Equil. pH: 7.28 ANC: 90.5 DOC: 0.90
Closed DIC: 2.48 Equil. DIC: 1.26 Meas. Cond: 15.7 Cal. Cond: 18.1
Ca: 47.9 Mg: 22.2 Na: 57.4 K: 11.0 NH4: 6.4
SO4: 25.2 HCO3: 116.0 Cl: 29.3 NO3: 5.5 F: 0.4
Sum Cations: 145.1 Sum Anions: 176.5 Cations/Anions: 0.82 Tot. P: 13.0
Tot. Al: 181.0 Ext. Al: 2.0 Fe: 30.0 Mn: 110.0 SiO2: 6.78

(continued)

TABLE 3-1 (continued)

ID: 3A1-019 Name: (NO NAME) State: NC Date: 29NOV84
Sample Type: REGULAR Latitude: 35-06'21"N Longitude: 83-00'15"W
Elevation: 963 Surface Temp: 6.0 Stratified: MIXED Site Depth: 3.0
Lake Area: 12 Watershed Area: 192 WA/LA: 16.3 Hydro Type: RESERVOIR
Residence Time: 0.08 Secchi Depth: 1.4 Turbidity: 3.6 Color: 45
Closed pH: 5.90 Equil. pH: 6.42 ANC: 20.2 DOC: 3.20
Closed DIC: 0.80 Equil. DIC: 0.27 Meas. Cond: 7.8 Cal. Cond: 8.0
Ca: 16.5 Mg: 18.9 Na: 23.9 K: 8.7 NH4: 0.3
SO4: 25.0 HCO3: 11.9 Cl: 16.1 NO3: 0.5 F: 0.4
Sum Cations: 69.3 Sum Anions: 53.8 Cations/Anions: 1.29 Tot. P: 8.0
Tot. Al: 345.0 Ext. Al: 21.0 Fe: 130.0 Mn: 10.0 SiO2: 3.70

ID: 3A2-001 Name: FAIRY STONE LAKE State: VA Date: 21NOV84
Sample Type: REGULAR Latitude: 36-48'04"N Longitude: 80-06'37"W
Elevation: 301 Surface Temp: 9.3 Stratified: MIXED Site Depth: 8.2
Lake Area: 52 Watershed Area: 4913 WA/LA: 94.3 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 2.3 Turbidity: 2.8 Color: 25
Closed pH: 7.23 Equil. pH: 7.83 ANC: 371.7 DOC: 1.60
Closed DIC: 5.09 Equil. DIC: 4.38 Meas. Cond: 47.2 Cal. Cond: 47.6
Ca: 169.4 Mg: 143.5 Na: 81.1 K: 30.8 NH4: 3.9
SO4: 51.9 HCO3: 358.6 Cl: 37.9 NO3: 1.3 F: 2.1
Sum Cations: 428.8 Sum Anions: 452.9 Cations/Anions: 0.95 Tot. P: 5.0
Tot. Al: 73.0 Ext. Al: 1.5 Fe: 110.0 Mn: 20.0 SiO2: 14.52

ID: 3A2-002 Name: (NO NAME) State: NC Date: 29NOV84
Sample Type: REGULAR Latitude: 36-26'41"N Longitude: 80-55'48"W
Elevation: 457 Surface Temp: 8.8 Stratified: MIXED Site Depth: 18.8
Lake Area: 14 Watershed Area: 596 WA/LA: 43.2 Hydro Type: RESERVOIR
Residence Time: 0.39 Secchi Depth: 3.9 Turbidity: 2.0 Color: 25
Closed pH: 6.39 Equil. pH: 7.28 ANC: 81.9 DOC: 1.10
Closed DIC: 1.98 Equil. DIC: 1.05 Meas. Cond: 12.2 Cal. Cond: 12.3
Ca: 31.4 Mg: 33.7 Na: 40.9 K: 9.2 NH4: 0.3
SO4: 16.4 HCO3: 66.1 Cl: 20.3 NO3: 0.0 F: 0.6
Sum Cations: 115.8 Sum Anions: 103.5 Cations/Anions: 1.12 Tot. P: 5.0
Tot. Al: 12.0 Ext. Al: 2.0 Fe: 80.0 Mn: 50.0 SiO2: 6.33

ID: 3A2-003 Name: (NO NAME) State: NC Date: 29NOV84
Sample Type: REGULAR Latitude: 36-24'05"N Longitude: 80-58'55"W
Elevation: 877 Surface Temp: 6.1 Stratified: MIXED Site Depth: 11.5
Lake Area: 20 Watershed Area: 269 WA/LA: 13.6 Hydro Type: RESERVOIR
Residence Time: 0.72 Secchi Depth: 3.7 Turbidity: 2.6 Color: 40
Closed pH: 6.79 Equil. pH: 7.36 ANC: 104.8 DOC: 1.50
Closed DIC: 1.73 Equil. DIC: 1.44 Meas. Cond: 21.1 Cal. Cond: 21.5
Ca: 53.9 Mg: 43.6 Na: 70.0 K: 14.3 NH4: 9.0
SO4: 13.3 HCO3: 86.7 Cl: 72.5 NO3: 2.2 F: 0.8
Sum Cations: 191.0 Sum Anions: 175.6 Cations/Anions: 1.09 Tot. P: 3.0
Tot. Al: 26.0 Ext. Al: 2.0 Fe: 300.0 Mn: 30.0 SiO2: 3.84

ID: 3A2-004 Name: CHETOLA LAKE State: NC Date: 21NOV84
Sample Type: REGULAR Latitude: 36-08'16"N Longitude: 81-40'20"W
Elevation: 1061 Surface Temp: 0.9 Stratified: MIXED Site Depth: 2.1
Lake Area: 3 Watershed Area: 570 WA/LA: 167.6 Hydro Type: RESERVOIR
Residence Time: 0.01 Secchi Depth: 1.5 Turbidity: 5.7 Color: 45
Closed pH: 6.94 Equil. pH: 7.66 ANC: 244.9 DOC: 2.30
Closed DIC: 3.74 Equil. DIC: 3.18 Meas. Cond: 56.2 Cal. Cond: 58.2
Ca: 231.0 Mg: 89.7 Na: 158.8 K: 28.6 NH4: 6.0
SO4: 47.7 HCO3: 206.8 Cl: 185.1 NO3: 26.7 F: 1.5
Sum Cations: 514.3 Sum Anions: 468.0 Cations/Anions: 1.10 Tot. P: 12.0
Tot. Al: 89.0 Ext. Al: 2.0 Fe: 210.0 Mn: 80.0 SiO2: 6.45

(continued)

TABLE 3-1 (continued)

ID: 3A2-005 Name: LAKE IN THE SKY State: TN Date: 20NOV84
Sample Type: REGULAR Latitude: 35-39'15"N Longitude: 83-54'28"W
Elevation: 613 Surface Temp: 9.8 Stratified: MIXED Site Depth: 6.4
Lake Area: 21 Watershed Area: 461 WA/LA: 22.3 Hydro Type: RESERVOIR
Residence Time: 0.25 Secchi Depth: 1.3 Turbidity: 6.0 Color: 30
Closed pH: 6.98 Equil. pH: 7.53 ANC: 159.7 DOC: 3.00
Closed DIC: 2.35 Equil. DIC: 1.98 Meas. Cond: 24.7 Cal. Cond: 25.9
Ca: 110.8 Mg: 82.3 Na: 16.1 K: 18.4 NH4: 2.4
SO4: 51.4 HCO3: 159.0 Cl: 16.9 NO3: 0.8 F: 1.3
Sum Cations: 230.0 Sum Anions: 229.7 Cations/Anions: 1.00 Tot. P: 2.0
Tot. Al: 143.0 Ext. Al: 2.0 Fe: 81.0 Mn: 25.0 SiO2: 2.37

ID: 3A2-006 Name: WALTERS LAKE State: NC Date: 29NOV84
Sample Type: REGULAR Latitude: 35-41'35"N Longitude: 83-02'45"W
Elevation: 688 Surface Temp: 8.9 Stratified: MIXED Site Depth: 32.3
Lake Area: 129 Watershed Area: 117153 WA/LA: 911.7 Hydro Type: RESERVOIR
Residence Time: 0.03 Secchi Depth: 0.3 Turbidity: 16.2 Color: 175
Closed pH: 7.15 Equil. pH: 8.08 ANC: 713.3 DOC: 14.90
Closed DIC: 8.86 Equil. DIC: 8.09 Meas. Cond: 475.2 Cal. Cond: 502.0
Ca: 1173.6 Mg: 162.9 Na: 2546.9 K: 111.7 NH4: 13.5
SO4: 638.1 HCO3: 644.0 Cl: 2671.5 NO3: 40.7 F: 3.0
Sum Cations: 4008.7 Sum Anions: 3999.2 Cations/Anions: 1.00 Tot. P: 286.0
Tot. Al: 1090.0 Ext. Al: 42.0 Fe: 290.0 Mn: 160.0 SiO2: 11.08

ID: 3A2-007 Name: FONTANA LAKE State: NC Date: 20NOV84
Sample Type: REGULAR Latitude: 35-27'00"N Longitude: 83-47'30"W
Elevation: 521 Surface Temp: 16.6 Stratified: MIXED Site Depth: 103.0
Lake Area: 4195 Watershed Area: 407006 WA/LA: 97.0 Hydro Type: RESERVOIR
Residence Time: 0.77 Secchi Depth: 3.8 Turbidity: 0.9 Color: 15
Closed pH: 6.67 Equil. pH: 7.47 ANC: 139.5 DOC: 0.90
Closed DIC: 2.34 Equil. DIC: 1.96 Meas. Cond: 21.4 Cal. Cond: 24.0
Ca: 73.4 Mg: 46.9 Na: 63.1 K: 27.6 NH4: 1.3
SO4: 33.1 HCO3: 149.0 Cl: 25.7 NO3: 7.1 F: 1.3
Sum Cations: 212.3 Sum Anions: 216.4 Cations/Anions: 0.98 Tot. P: 3.0
Tot. Al: 21.0 Ext. Al: 2.0 Fe: 0.0 Mn: 37.0 SiO2: 7.66

ID: 3A2-008 Name: (NO NAME) State: NC Date: 29NOV84
Sample Type: REGULAR Latitude: 35-16'38"N Longitude: 83-39'16"W
Elevation: 908 Surface Temp: 7.7 Stratified: MIXED Site Depth: 14.6
Lake Area: 8 Watershed Area: 904 WA/LA: 108.9 Hydro Type: RESERVOIR
Residence Time: 0.08 Secchi Depth: 3.3 Turbidity: 1.5 Color: 25
Closed pH: 7.21 Equil. pH: 7.71 ANC: 239.8 DOC: 1.40
Closed DIC: 3.12 Equil. DIC: 2.88 Meas. Cond: 28.0 Cal. Cond: 29.4
Ca: 152.7 Mg: 59.2 Na: 53.9 K: 15.3 NH4: 0.2
SO4: 22.9 HCO3: 224.4 Cl: 16.4 NO3: 2.2 F: 1.1
Sum Cations: 281.4 Sum Anions: 267.6 Cations/Anions: 1.05 Tot. P: 7.0
Tot. Al: 49.0 Ext. Al: 2.0 Fe: 60.0 Mn: 0.0 SiO2: 7.08

ID: 3A2-009 Name: NANTAHALA LAKE State: NC Date: 29NOV84
Sample Type: REGULAR Latitude: 35-11'00"N Longitude: 83-40'00"W
Elevation: 918 Surface Temp: 12.1 Stratified: WEAK Site Depth: 45.7
Lake Area: 632 Watershed Area: 23401 WA/LA: 37.0 Hydro Type: RESERVOIR
Residence Time: 0.73 Secchi Depth: 4.4 Turbidity: 1.0 Color: 15
Closed pH: 6.79 Equil. pH: 7.29 ANC: 93.7 DOC: 0.80
Closed DIC: 1.57 Equil. DIC: 1.18 Meas. Cond: 13.2 Cal. Cond: 13.6
Ca: 49.9 Mg: 30.4 Na: 36.1 K: 10.0 NH4: 0.7
SO4: 18.3 HCO3: 82.0 Cl: 15.8 NO3: 1.0 F: 0.6
Sum Cations: 127.2 Sum Anions: 117.7 Cations/Anions: 1.08 Tot. P: 2.0
Tot. Al: 68.0 Ext. Al: 2.0 Fe: 20.0 Mn: 30.0 SiO2: 6.76

(continued)

TABLE 3-1 (continued)

ID: 3A2-011 Name: APALACHIA LAKE State: NC Date: 20NOV84
Sample Type: REGULAR Latitude: 35-10'13"N Longitude: 84-15'30"W
Elevation: 390 Surface Temp: 15.3 Stratified: MIXED Site Depth: 32.0
Lake Area: 412 Watershed Area: 247464 WA/LA: 600.8 Hydro Type: RESERVOIR
Residence Time: 0.04 Secchi Depth: 3.2 Turbidity: 1.7 Color: 20
Closed pH: 6.78 Equil. pH: 7.50 ANC: 155.8 DOC: 0.90
Closed DIC: 2.69 Equil. DIC: 1.97 Meas. Cond: 24.3 Cal. Cond: 25.7
Ca: 78.8 Mg: 55.9 Na: 57.4 K: 33.0 NH4: 3.4
SO4: 34.6 HCO3: 149.2 Cl: 30.7 NO3: 9.2 F: 1.3
Sum Cations: 228.7 Sum Anions: 225.3 Cations/Anions: 1.02 Tot. P: 4.0
Tot. Al: 39.0 Ext. Al: 2.0 Fe: 0.0 Mn: 73.0 SiO2: 6.97

ID: 3A2-012 Name: LAKE OCOEE State: TN Date: 20NOV84
Sample Type: REGULAR Latitude: 35-05'42"N Longitude: 84-36'59"W
Elevation: 255 Surface Temp: 13.4 Stratified: WEAK Site Depth: 29.9
Lake Area: 751 Watershed Area: 150456 WA/LA: 200.3 Hydro Type: RESERVOIR
Residence Time: 0.11 Secchi Depth: 1.8 Turbidity: 5.6 Color: 20
Closed pH: 6.94 Equil. pH: 7.43 ANC: 140.6 DOC: 0.80
Closed DIC: 2.06 Equil. DIC: 1.60 Meas. Cond: 129.4 Cal. Cond: 138.9
Ca: 767.5 Mg: 116.0 Na: 133.1 K: 37.6 NH4: 7.5
SO4: 828.6 HCO3: 144.5 Cl: 50.8 NO3: 5.5 F: 2.4
Sum Cations: 1061.7 Sum Anions: 1032.1 Cations/Anions: 1.03 Tot. P: 3.0
Tot. Al: 135.0 Ext. Al: 2.0 Fe: 0.0 Mn: 74.0 SiO2: 8.54

ID: 3A2-014 Name: CONASAUGA LAKE State: GA Date: 24NOV84
Sample Type: REGULAR Latitude: 34-51'35"N Longitude: 84-39'04"W
Elevation: 957 Surface Temp: 5.7 Stratified: MIXED Site Depth: 6.1
Lake Area: 5 Watershed Area: 96 WA/LA: 20.0 Hydro Type: RESERVOIR
Residence Time: 0.21 Secchi Depth: 2.3 Turbidity: 2.0 Color: 35
Closed pH: 6.75 Equil. pH: 7.27 ANC: 90.3 DOC: 1.80
Closed DIC: 1.44 Equil. DIC: 1.15 Meas. Cond: 15.8 Cal. Cond: 15.4
Ca: 68.9 Mg: 31.3 Na: 26.5 K: 12.5 NH4: 0.3
SO4: 33.3 HCO3: 69.8 Cl: 19.7 NO3: 0.0 F: 0.6
Sum Cations: 139.6 Sum Anions: 123.5 Cations/Anions: 1.13 Tot. P: 9.0
Tot. Al: 60.0 Ext. Al: 3.0 Fe: 140.0 Mn: 20.0 SiO2: 3.05

ID: 3A2-015 Name: (NO NAME) State: GA Date: 24NOV84
Sample Type: REGULAR Latitude: 34-47'13"N Longitude: 84-23'58"W
Elevation: 457 Surface Temp: 5.5 Stratified: MIXED Site Depth: 2.7
Lake Area: 11 Watershed Area: 3699 WA/LA: 330.3 Hydro Type: RESERVOIR
Residence Time: 0.00 Secchi Depth: 1.5 Turbidity: 5.4 Color: 40
Closed pH: 7.11 Equil. pH: 7.67 ANC: 221.5 DOC: 0.90
Closed DIC: 2.93 Equil. DIC: 2.63 Meas. Cond: 30.9 Cal. Cond: 33.3
Ca: 136.7 Mg: 69.9 Na: 60.5 K: 19.2 NH4: 1.8
SO4: 44.6 HCO3: 206.6 Cl: 48.5 NO3: 3.9 F: 1.2
Sum Cations: 288.2 Sum Anions: 305.1 Cations/Anions: 0.94 Tot. P: 9.0
Tot. Al: 60.0 Ext. Al: 3.0 Fe: 70.0 Mn: 14.0 SiO2: 8.55

ID: 3A2-016 Name: NOTTELY LAKE State: GA Date: 20NOV84
Sample Type: REGULAR Latitude: 34-55'56"N Longitude: 84-04'32"W
Elevation: 542 Surface Temp: 14.8 Stratified: MIXED Site Depth: 38.1
Lake Area: 1649 Watershed Area: 39966 WA/LA: 24.2 Hydro Type: RESERVOIR
Residence Time: 1.08 Secchi Depth: 1.7 Turbidity: 3.4 Color: 30
Closed pH: 6.82 Equil. pH: 7.50 ANC: 153.2 DOC: 1.30
Closed DIC: 2.39 Equil. DIC: 2.09 Meas. Cond: 24.2 Cal. Cond: 25.7
Ca: 69.4 Mg: 47.7 Na: 72.6 K: 32.2 NH4: 6.8
SO4: 31.6 HCO3: 143.9 Cl: 42.3 NO3: 3.0 F: 1.5
Sum Cations: 228.8 Sum Anions: 222.5 Cations/Anions: 1.03 Tot. P: 2.0
Tot. Al: 137.0 Ext. Al: 3.0 Fe: 26.0 Mn: 5.0 SiO2: 7.82

(continued)

TABLE 3-1 (continued)

ID: 3A2-017 Name: LAKE BURTON State: GA Date: 24NOV84
Sample Type: REGULAR Latitude: 34-49'38"N Longitude: 83-33'18"W
Elevation: 567 Surface Temp: 12.6 Stratified: MIXED Site Depth: 31.7
Lake Area: 1036 Watershed Area: 27343 WA/LA: 26.4 Hydro Type: RESERVOIR
Residence Time: 0.70 Secchi Depth: 3.0 Turbidity: 1.4 Color: 15
Closed pH: 6.73 Equil. pH: 7.44 ANC: 130.2 DOC: 0.60
Closed DIC: 2.27 Equil. DIC: 1.61 Meas. Cond: 16.5 Cal. Cond: 16.8
Ca: 54.9 Mg: 38.7 Na: 47.4 K: 13.0 NH4: 2.1
SO4: 15.6 HCO3: 117.8 Cl: 18.3 NO3: 0.2 F: 0.6
Sum Cations: 156.2 Sum Anions: 152.7 Cations/Anions: 1.02 Tot. P: 4.0
Tot. Al: 17.0 Ext. Al: 2.0 Fe: 0.0 Mn: 0.0 SiO2: 8.74

ID: 3A2-018 Name: LAKE RABUN State: GA Date: 24NOV84
Sample Type: REGULAR Latitude: 34-46'13"N Longitude: 83-25'44"W
Elevation: 513 Surface Temp: 12.0 Stratified: WEAK Site Depth: 27.4
Lake Area: 261 Watershed Area: 36483 WA/LA: 139.9 Hydro Type: RESERVOIR
Residence Time: 0.14 Secchi Depth: 2.0 Turbidity: 1.7 Color: 20
Closed pH: 6.55 Equil. pH: 7.43 ANC: 131.2 DOC: 1.10
Closed DIC: 2.68 Equil. DIC: 1.63 Meas. Cond: 16.3 Cal. Cond: 16.6
Ca: 51.4 Mg: 37.0 Na: 45.2 K: 13.6 NH4: 4.0
SO4: 15.0 HCO3: 117.1 Cl: 18.9 NO3: 0.7 F: 0.6
Sum Cations: 151.3 Sum Anions: 152.4 Cations/Anions: 0.99 Tot. P: 2.0
Tot. Al: 16.0 Ext. Al: 2.0 Fe: 20.0 Mn: 170.0 SiO2: 8.17

ID: 3A2-019 Name: CARTERS LAKE State: GA Date: 24NOV84
Sample Type: REGULAR Latitude: 34-36'26"N Longitude: 84-38'04"W
Elevation: 327 Surface Temp: 14.8 Stratified: WEAK Site Depth: 119.0
Lake Area: 1161 Watershed Area: 95978 WA/LA: 82.7 Hydro Type: RESERVOIR
Residence Time: 1.29 Secchi Depth: 2.9 Turbidity: 1.8 Color: 15
Closed pH: 6.83 Equil. pH: 7.58 ANC: 185.8 DOC: 0.80
Closed DIC: 2.75 Equil. DIC: 2.41 Meas. Cond: 29.3 Cal. Cond: 30.0
Ca: 114.3 Mg: 64.2 Na: 60.5 K: 27.4 NH4: 1.1
SO4: 48.1 HCO3: 171.6 Cl: 30.7 NO3: 10.8 F: 1.4
Sum Cations: 267.5 Sum Anions: 262.9 Cations/Anions: 1.02 Tot. P: 10.0
Tot. Al: 60.0 Ext. Al: 3.0 Fe: 0.0 Mn: 7.0 SiO2: 7.98

ID: 3A2-020 Name: TWIN LAKES (WESTERN) State: GA Date: 26NOV84
Sample Type: REGULAR Latitude: 34-37'18"N Longitude: 83-49'29"W
Elevation: 457 Surface Temp: 9.6 Stratified: MIXED Site Depth: 7.3
Lake Area: 6 Watershed Area: 168 WA/LA: 27.1 Hydro Type: RESERVOIR
Residence Time: 0.19 Secchi Depth: 4.4 Turbidity: 1.9 Color: 25
Closed pH: 6.94 Equil. pH: 7.42 ANC: 134.4 DOC: 1.30
Closed DIC: 1.88 Equil. DIC: 1.62 Meas. Cond: 19.2 Cal. Cond: 19.6
Ca: 66.4 Mg: 44.4 Na: 53.5 K: 19.7 NH4: 0.7
SO4: 21.0 HCO3: 113.0 Cl: 28.2 NO3: 2.0 F: 1.1
Sum Cations: 184.8 Sum Anions: 165.3 Cations/Anions: 1.12 Tot. P: 4.0
Tot. Al: 51.0 Ext. Al: 2.0 Fe: 50.0 Mn: 40.0 SiO2: 7.57

ID: 3A2-021 Name: TWIN LAKES (EASTERN) State: GA Date: 26NOV84
Sample Type: REGULAR Latitude: 34-37'21"N Longitude: 83-49'13"W
Elevation: 448 Surface Temp: 7.4 Stratified: MIXED Site Depth: 4.0
Lake Area: 12 Watershed Area: 811 WA/LA: 66.5 Hydro Type: RESERVOIR
Residence Time: 0.04 Secchi Depth: 2.9 Turbidity: 3.1 Color: 35
Closed pH: 6.95 Equil. pH: 7.61 ANC: 198.6 DOC: 1.20
Closed DIC: 2.82 Equil. DIC: 2.37 Meas. Cond: 27.1 Cal. Cond: 27.0
Ca: 99.3 Mg: 59.2 Na: 66.6 K: 24.0 NH4: 0.4
SO4: 26.6 HCO3: 180.5 Cl: 32.7 NO3: 0.6 F: 1.2
Sum Cations: 249.6 Sum Anions: 241.9 Cations/Anions: 1.03 Tot. P: 5.0
Tot. Al: 45.0 Ext. Al: 3.0 Fe: 90.0 Mn: 40.0 SiO2: 9.07

(continued)

TABLE 3-1 (continued)

ID: 3A2-022 Name: LAKE TAMARACK State: GA Date: 24NOV84
Sample Type: REGULAR Latitude: 34-29'23"N Longitude: 84-22'18"W
Elevation: 454 Surface Temp: 10.8 Stratified: MIXED Site Depth: 15.2
Lake Area: 37 Watershed Area: 2085 WA/LA: 56.7 Hydro Type: RESERVOIR
Residence Time: 0.19 Secchi Depth: 3.1 Turbidity: 2.0 Color: 25
Closed pH: 6.79 Equil. pH: 7.60 ANC: 179.7 DOC: 0.90
Closed DIC: 2.90 Equil. DIC: 2.02 Meas. Cond: 25.0 Cal. Cond: 25.7
Ca: 91.8 Mg: 51.0 Na: 63.1 K: 22.5 NH4: 0.9
SO4: 29.4 HCO3: 178.5 Cl: 29.9 NO3: 0.0 F: 0.9
Sum Cations: 229.4 Sum Anions: 238.9 Cations/Anions: 0.96 Tot. P: 2.0
Tot. Al: 26.0 Ext. Al: 2.0 Fe: 30.0 Mn: 108.0 SiO2: 0.16

ID: 3A2-023 Name: SEQUOYAH LAKE State: GA Date: 24NOV84
Sample Type: REGULAR Latitude: 34-32'41"N Longitude: 84-22'04"W
Elevation: 844 Surface Temp: 7.8 Stratified: MIXED Site Depth: 10.1
Lake Area: 17 Watershed Area: 339 WA/LA: 19.5 Hydro Type: RESERVOIR
Residence Time: 0.35 Secchi Depth: 3.4 Turbidity: 1.6 Color: 15
Closed pH: 6.98 Equil. pH: 7.36 ANC: 108.4 DOC: 1.00
Closed DIC: 1.49 Equil. DIC: 1.20 Meas. Cond: 20.4 Cal. Cond: 21.2
Ca: 67.4 Mg: 39.5 Na: 59.2 K: 16.1 NH4: 0.3
SO4: 18.5 HCO3: 101.2 Cl: 63.5 NO3: 0.5 F: 0.6
Sum Cations: 182.5 Sum Anions: 184.5 Cations/Anions: 0.99 Tot. P: 6.0
Tot. Al: 26.0 Ext. Al: 4.0 Fe: 10.0 Mn: 0.0 SiO2: 4.61

ID: 3A2-026 Name: SCONTI LAKE State: GA Date: 24NOV84
Sample Type: REGULAR Latitude: 34-27'08"N Longitude: 84-17'17"W
Elevation: 446 Surface Temp: 10.0 Stratified: MIXED Site Depth: 7.6
Lake Area: 10 Watershed Area: 1347 WA/LA: 129.5 Hydro Type: DRAINAGE
Residence Time: 0.04 Secchi Depth: 0.9 Turbidity: 13.0 Color: 80
Closed pH: 6.48 Equil. pH: 7.44 ANC: 133.4 DOC: 1.00
Closed DIC: 2.64 Equil. DIC: 1.75 Meas. Cond: 19.1 Cal. Cond: 19.5
Ca: 54.9 Mg: 40.3 Na: 50.5 K: 23.0 NH4: 0.8
SO4: 23.3 HCO3: 123.4 Cl: 31.0 NO3: 0.2 F: 0.7
Sum Cations: 169.6 Sum Anions: 178.7 Cations/Anions: 0.95 Tot. P: 5.0
Tot. Al: 19.0 Ext. Al: 2.0 Fe: 30.0 Mn: 188.0 SiO2: 8.16

ID: 3A2-027 Name: COX LAKE State: GA Date: 24NOV84
Sample Type: REGULAR Latitude: 34-25'34"N Longitude: 84-17'53"W
Elevation: 389 Surface Temp: 7.2 Stratified: MIXED Site Depth: 3.0
Lake Area: 10 Watershed Area: 2541 WA/LA: 262.0 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 0.6 Turbidity: 18.9 Color: 85
Closed pH: 6.89 Equil. pH: 7.46 ANC: 143.8 DOC: 1.10
Closed DIC: 1.88 Equil. DIC: 1.49 Meas. Cond: 20.7 Cal. Cond: 21.0
Ca: 57.4 Mg: 41.1 Na: 59.2 K: 27.1 NH4: 0.2
SO4: 22.9 HCO3: 121.0 Cl: 34.7 NO3: 6.7 F: 0.7
Sum Cations: 185.0 Sum Anions: 186.2 Cations/Anions: 0.99 Tot. P: 22.0
Tot. Al: 382.0 Ext. Al: 2.0 Fe: 20.0 Mn: 26.0 SiO2: 7.73

ID: 3A2-028 Name: (NO NAME) State: GA Date: 24NOV84
Sample Type: REGULAR Latitude: 34-30'43"N Longitude: 84-04'37"W
Elevation: 396 Surface Temp: 7.0 Stratified: MIXED Site Depth: 4.6
Lake Area: 10 Watershed Area: 2776 WA/LA: 286.2 Hydro Type: RESERVOIR
Residence Time: 0.01 Secchi Depth: 1.9 Turbidity: 5.2 Color: 40
Closed pH: 6.48 Equil. pH: 7.26 ANC: 80.7 DOC: 0.80
Closed DIC: 1.64 Equil. DIC: 1.03 Meas. Cond: 12.3 Cal. Cond: 12.8
Ca: 26.9 Mg: 29.6 Na: 44.8 K: 17.1 NH4: 1.9
SO4: 11.5 HCO3: 64.6 Cl: 25.1 NO3: 2.8 F: 0.6
Sum Cations: 120.7 Sum Anions: 104.6 Cations/Anions: 1.15 Tot. P: 4.0
Tot. Al: 93.0 Ext. Al: 2.0 Fe: 20.0 Mn: 12.0 SiO2: 8.18

(continued)

TABLE 3-1 (continued)

ID: 3A2-029 Name: (NO NAME) State: NC Date: 25NOV84
Sample Type: REGULAR Latitude: 35-24'30"N Longitude: 82-12'09"W
Elevation: 323 Surface Temp: 6.0 Stratified: MIXED Site Depth: 3.0
Lake Area: 4 Watershed Area: 637 WA/LA: 167.6 Hydro Type: DRAINAGE
Residence Time: 0.01 Secchi Depth: 1.2 Turbidity: 12.8 Color: 50
Closed pH: 7.08 Equil. pH: 7.79 ANC: 290.9 DOC: 1.00
Closed DIC: 3.79 Equil. DIC: 3.44 Meas. Cond: 35.6 Cal. Cond: 37.4
Ca: 93.3 Mg: 71.6 Na: 124.0 K: 33.0 NH4: 0.2
SO4: 28.7 HCO3: 314.9 Cl: 37.5 NO3: 0.0 F: 2.6
Sum Cations: 322.1 Sum Anions: 384.8 Cations/Anions: 0.84 Tot. P: 6.0
Tot. Al: 229.0 Ext. Al: 4.0 Fe: 70.0 Mn: 0.0 SiO2: 18.43

ID: 3A2-030 Name: LAKE ADGER State: NC Date: 25NOV84
Sample Type: REGULAR Latitude: 35-20'17"N Longitude: 82-12'15"W
Elevation: 277 Surface Temp: 9.2 Stratified: MIXED Site Depth: 23.1
Lake Area: 148 Watershed Area: 34729 WA/LA: 234.2 Hydro Type: RESERVOIR
Residence Time: 0.09 Secchi Depth: 2.3 Turbidity: 2.0 Color: 20
Closed pH: 6.93 Equil. pH: 7.70 ANC: 227.1 DOC: 0.60
Closed DIC: 3.46 Equil. DIC: 2.72 Meas. Cond: 30.9 Cal. Cond: 32.4
Ca: 96.3 Mg: 68.3 Na: 92.7 K: 23.3 NH4: 2.7
SO4: 28.7 HCO3: 238.5 Cl: 40.3 NO3: 6.1 F: 1.3
Sum Cations: 283.3 Sum Anions: 315.4 Cations/Anions: 0.90 Tot. P: 3.0
Tot. Al: 112.0 Ext. Al: 3.0 Fe: 30.0 Mn: 0.0 SiO2: 13.22

ID: 3A2-031 Name: CEDAR CLIFF LAKE State: NC Date: 25NOV84
Sample Type: REGULAR Latitude: 35-15'15"N Longitude: 83-05'45"W
Elevation: 683 Surface Temp: 12.7 Stratified: MIXED Site Depth: 43.6
Lake Area: 76 Watershed Area: 20518 WA/LA: 269.3 Hydro Type: RESERVOIR
Residence Time: 0.10 Secchi Depth: 3.8 Turbidity: 1.3 Color: 30
Closed pH: 6.50 Equil. pH: 7.29 ANC: 83.8 DOC: 1.30
Closed DIC: 1.74 Equil. DIC: 1.26 Meas. Cond: 13.3 Cal. Cond: 15.0
Ca: 39.9 Mg: 24.7 Na: 43.9 K: 13.6 NH4: 2.4
SO4: 22.9 HCO3: 103.4 Cl: 16.9 NO3: 2.2 F: 0.7
Sum Cations: 124.6 Sum Anions: 146.2 Cations/Anions: 0.85 Tot. P: 10.0
Tot. Al: 55.0 Ext. Al: 2.0 Fe: 50.0 Mn: 10.0 SiO2: 7.53

ID: 3A2-032 Name: BEAR CREEK RESERVOIR State: NC Date: 25NOV84
Sample Type: REGULAR Latitude: 35-14'25"N Longitude: 83-03'42"W
Elevation: 732 Surface Temp: 12.7 Stratified: MIXED Site Depth: 56.7
Lake Area: 212 Watershed Area: 18910 WA/LA: 89.1 Hydro Type: RESERVOIR
Residence Time: 0.29 Secchi Depth: 3.3 Turbidity: 0.8 Color: 20
Closed pH: 6.47 Equil. pH: 7.20 ANC: 77.9 DOC: 1.10
Closed DIC: 1.50 Equil. DIC: 1.11 Meas. Cond: 12.2 Cal. Cond: 12.9
Ca: 35.4 Mg: 23.0 Na: 43.5 K: 12.3 NH4: 2.2
SO4: 20.6 HCO3: 72.3 Cl: 16.4 NO3: 1.3 F: 0.6
Sum Cations: 116.6 Sum Anions: 111.2 Cations/Anions: 1.05 Tot. P: 4.0
Tot. Al: 58.0 Ext. Al: 4.0 Fe: 40.0 Mn: 60.0 SiO2: 6.96

ID: 3A2-033 Name: TANASEE CREEK RESERVOIR State: NC Date: 25NOV84
Sample Type: REGULAR Latitude: 35-12'47"N Longitude: 83-00'00"W
Elevation: 914 Surface Temp: 5.9 Stratified: MIXED Site Depth: 26.8
Lake Area: 22 Watershed Area: 6270 WA/LA: 291.6 Hydro Type: RESERVOIR
Residence Time: 0.04 Secchi Depth: 3.1 Turbidity: 1.1 Color: 30
Closed pH: 6.29 Equil. pH: 6.98 ANC: 48.0 DOC: 1.90
Closed DIC: 1.11 Equil. DIC: 0.59 Meas. Cond: 10.5 Cal. Cond: 11.1
Ca: 28.9 Mg: 21.4 Na: 36.5 K: 10.7 NH4: 1.2
SO4: 28.9 HCO3: 39.6 Cl: 16.6 NO3: 1.5 F: 0.5
Sum Cations: 99.1 Sum Anions: 87.1 Cations/Anions: 1.14 Tot. P: 6.0
Tot. Al: 136.0 Ext. Al: 8.0 Fe: 40.0 Mn: 160.0 SiO2: 6.80

(continued)

TABLE 3-1 (continued)

ID: 3A2-035 Name: KANUGA LAKE State: NC Date: 29NOV84
Sample Type: REGULAR Latitude: 35-15'45"N Longitude: 82-31'05"W
Elevation: 701 Surface Temp: 7.5 Stratified: MIXED Site Depth: 4.6
Lake Area: 10 Watershed Area: 407 WA/LA: 42.8 Hydro Type: RESERVOIR
Residence Time: 0.06 Secchi Depth: 2.4 Turbidity: 3.1 Color: 20
Closed pH: 6.92 Equil. pH: 7.45 ANC: 128.0 DOC: 1.70
Closed DIC: 1.80 Equil. DIC: 1.65 Meas. Cond: 16.4 Cal. Cond: 16.7
Ca: 45.9 Mg: 23.0 Na: 70.0 K: 19.2 NH4: 0.0
SO4: 10.6 HCO3: 111.6 Cl: 25.1 NO3: 0.5 F: 0.9
Sum Cations: 158.3 Sum Anions: 148.8 Cations/Anions: 1.06 Tot. P: 4.0
Tot. Al: 181.0 Ext. Al: 3.0 Fe: 90.0 Mn: 0.0 SiO2: 10.10

ID: 3A2-036 Name: LAKE SUMMITT State: NC Date: 29NOV84
Sample Type: REGULAR Latitude: 35-13'30"N Longitude: 82-25'00"W
Elevation: 613 Surface Temp: 9.4 Stratified: MIXED Site Depth: 33.2
Lake Area: 106 Watershed Area: 10710 WA/LA: 101.4 Hydro Type: RESERVOIR
Residence Time: 0.24 Secchi Depth: 2.1 Turbidity: 2.9 Color: 25
Closed pH: 6.72 Equil. pH: 7.66 ANC: 204.4 DOC: 0.80
Closed DIC: 3.63 Equil. DIC: 2.68 Meas. Cond: 27.9 Cal. Cond: 28.1
Ca: 89.8 Mg: 55.9 Na: 70.5 K: 18.7 NH4: 8.3
SO4: 27.9 HCO3: 200.9 Cl: 34.1 NO3: 5.8 F: 0.9
Sum Cations: 243.3 Sum Anions: 269.9 Cations/Anions: 0.90 Tot. P: 3.0
Tot. Al: 47.0 Ext. Al: 0.0 Fe: 50.0 Mn: 220.0 SiO2: 10.07

ID: 3A2-038 Name: LAKE SEQUOYAH State: NC Date: 25NOV84
Sample Type: REGULAR Latitude: 35-03'45"N Longitude: 83-13'15"W
Elevation: 1103 Surface Temp: 4.6 Stratified: MIXED Site Depth: 6.7
Lake Area: 18 Watershed Area: 3699 WA/LA: 204.4 Hydro Type: RESERVOIR
Residence Time: 0.02 Secchi Depth: 1.8 Turbidity: 3.0 Color: 35
Closed pH: 6.46 Equil. pH: 7.15 ANC: 69.0 DOC: 1.70
Closed DIC: 1.36 Equil. DIC: 1.02 Meas. Cond: 19.9 Cal. Cond: 20.4
Ca: 62.4 Mg: 30.4 Na: 62.6 K: 14.8 NH4: 2.3
SO4: 39.3 HCO3: 59.9 Cl: 52.5 NO3: 10.2 F: 0.6
Sum Cations: 172.8 Sum Anions: 162.6 Cations/Anions: 1.06 Tot. P: 8.0
Tot. Al: 265.0 Ext. Al: 3.0 Fe: 110.0 Mn: 110.0 SiO2: 5.21

ID: 3A2-039 Name: LAKE JOCASSEE State: SC Date: 29NOV84
Sample Type: REGULAR Latitude: 34-58'31"N Longitude: 82-56'16"W
Elevation: 335 Surface Temp: 15.2 Stratified: MIXED Site Depth: 13.1
Lake Area: 2245 Watershed Area: 37988 WA/LA: 16.9 Hydro Type: RESERVOIR
Residence Time: 0.46 Secchi Depth: 5.3 Turbidity: 0.4 Color: 10
Closed pH: 7.01 Equil. pH: 7.42 ANC: 116.1 DOC: 0.60
Closed DIC: 1.65 Equil. DIC: 1.43 Meas. Cond: 17.3 Cal. Cond: 18.5
Ca: 54.4 Mg: 35.4 Na: 59.6 K: 16.9 NH4: 0.2
SO4: 27.9 HCO3: 108.5 Cl: 24.0 NO3: 1.6 F: 1.4
Sum Cations: 166.5 Sum Anions: 163.6 Cations/Anions: 1.02 Tot. P: 5.0
Tot. Al: 14.0 Ext. Al: 0.0 Fe: 10.0 Mn: 0.0 SiO2: 7.92

ID: 3A2-042 Name: PINNACLE LAKE State: SC Date: 29NOV84
Sample Type: REGULAR Latitude: 35-01'45"N Longitude: 82-41'50"W
Elevation: 351 Surface Temp: 10.0 Stratified: MIXED Site Depth: 7.9
Lake Area: 10 Watershed Area: 445 WA/LA: 46.3 Hydro Type: RESERVOIR
Residence Time: 0.10 Secchi Depth: 4.4 Turbidity: 0.8 Color: 20
Closed pH: 6.87 Equil. pH: 7.49 ANC: 159.1 DOC: 1.30
Closed DIC: 2.51 Equil. DIC: 1.96 Meas. Cond: 21.1 Cal. Cond: 20.4
Ca: 55.4 Mg: 28.8 Na: 79.6 K: 17.1 NH4: 0.2
SO4: 25.0 HCO3: 142.1 Cl: 25.1 NO3: 0.0 F: 0.9
Sum Cations: 181.2 Sum Anions: 193.3 Cations/Anions: 0.94 Tot. P: 2.0
Tot. Al: 45.0 Ext. Al: 1.0 Fe: 60.0 Mn: 0.0 SiO2: 13.62

(continued)

TABLE 3-1 (continued)

ID: 3A2-043 Name: TANKERSLEY LAKE State: SC Date: 29NOV84
Sample Type: REGULAR Latitude: 35-06'05"N Longitude: 82-32'48"W
Elevation: 325 Surface Temp: 7.8 Stratified: MIXED Site Depth: 2.1
Lake Area: 6 Watershed Area: 1181 WA/LA: 210.9 Hydro Type: RESERVOIR
Residence Time: 0.01 Secchi Depth: 0.7 Turbidity: 12.8 Color: 50
Closed pH: 6.98 Equil. pH: 7.57 ANC: 159.7 DOC: 1.40
Closed DIC: 2.28 Equil. DIC: 1.87 Meas. Cond: 20.4 Cal. Cond: 21.5
Ca: 53.4 Mg: 31.3 Na: 87.4 K: 26.1 NH4: 0.1
SO4: 19.6 HCO3: 149.1 Cl: 27.1 NO3: 0.0 F: 1.2
Sum Cations: 198.4 Sum Anions: 197.1 Cations/Anions: 1.01 Tot. P: 6.0
Tot. Al: 317.0 Ext. Al: 2.0 Fe: 40.0 Mn: 10.0 SiO2: 13.98

ID: 3A2-044 Name: (NO NAME) State: SC Date: 24NOV84
Sample Type: REGULAR Latitude: 34-51'58"N Longitude: 83-06'11"W
Elevation: 525 Surface Temp: 9.1 Stratified: MIXED Site Depth: 5.8
Lake Area: 6 Watershed Area: 111 WA/LA: 18.8 Hydro Type: RESERVOIR
Residence Time: 0.18 Secchi De th: 3.8 Turbidity: 1.8 Color: 25
Closed pH: 6.86 Equil. pH: 7.31 ANC: 100.2 DOC: 1.40
Closed DIC: 1.52 Equil. DIC: 1.38 Meas. Cond: 14.0 Cal. Cond: 14.3
Ca: 32.2 Mg: 35.4 Na: 48.9 K: 13.3 NH4: 0.3
SO4: 12.7 HCO3: 93.1 Cl: 23.7 NO3: 0.0 F: 0.7
Sum Cations: 130.3 Sum Anions: 130.3 Cations/Anions: 1.00 Tot. P: 3.0
Tot. Al: 39.0 Ext. Al: 2.0 Fe: 10.0 Mn: 0.0 SiO2: 6.96

ID: 3A2-045 Name: YONAH LAKE State: SC Date: 24NOV84
Sample Type: REGULAR Latitude: 34-41'19"N Longitude: 83-20'19"W
Elevation: 227 Surface Temp: 10.5 Stratified: MIXED Site Depth: 17.7
Lake Area: 117 Watershed Area: 126053 WA/LA: 1081.1 Hydro Type: RESERVOIR
Residence Time: 0.01 Secchi Depth: 0.7 Turbidity: 10.1 Color: 35
Closed pH: 6.65 Equil. pH: 7.35 ANC: 110.5 DOC: 0.80
Closed DIC: 1.98 Equil. DIC: 1.39 Meas. Cond: 15.7 Cal. Cond: 17.2
Ca: 42.9 Mg: 32.9 Na: 50.9 K: 15.9 NH4: 3.2
SO4: 19.6 HCO3: 119.4 Cl: 23.4 NO3: 3.0 F: 0.7
Sum Cations: 145.9 Sum Anions: 166.2 Cations/Anions: 0.88 Tot. P: 8.0
Tot. Al: 311.0 Ext. Al: 4.0 Fe: 30.0 Mn: 101.0 SiO2: 8.51

ID: 3A2-046 Name: TOCCOA RESERVOIR State: GA Date: 24NOV84
Sample Type: REGULAR Latitude: 34-36'50"N Longitude: 83-21'34"W
Elevation: 375 Surface Temp: 7.1 Stratified: MIXED Site Depth: 2.4
Lake Area: 12 Watershed Area: 932 WA/LA: 78.3 Hydro Type: RESERVOIR
Residence Time: 0.03 Secchi Depth: 0.6 Turbidity: 14.8 Color: 75
Closed pH: 6.81 Equil. pH: 7.52 ANC: 159.7 DOC: 1.70
Closed DIC: 2.57 Equil. DIC: 1.81 Meas. Cond: 22.2 Cal. Cond: 23.1
Ca: 52.9 Mg: 46.9 Na: 76.6 K: 20.7 NH4: 5.5
SO4: 14.4 HCO3: 160.0 Cl: 40.6 NO3: 3.9 F: 1.0
Sum Cations: 202.7 Sum Anions: 220.1 Cations/Anions: 0.92 Tot. P: 4.0
Tot. Al: 49.0 Ext. Al: 3.0 Fe: 30.0 Mn: 107.0 SiO2: 11.53

ID: 3A2-047 Name: LAKE LOUISE State: GA Date: 24NOV84
Sample Type: REGULAR Latitude: 34-36'10"N Longitude: 83-16'57"W
Elevation: 229 Surface Temp: 12.0 Stratified: MIXED Site Depth: 16.5
Lake Area: 65 Watershed Area: 831 WA/LA: 12.8 Hydro Type: RESERVOIR
Residence Time: 1.06 Secchi Depth: 3.0 Turbidity: 2.0 Color: 25
Closed pH: 6.80 Equil. pH: 7.81 ANC: 332.9 DOC: 1.00
Closed DIC: 5.44 Equil. DIC: 3.92 Meas. Cond: 43.0 Cal. Cond: 44.7
Ca: 188.1 Mg: 75.7 Na: 111.4 K: 30.4 NH4: 5.3
SO4: 37.1 HCO3: 318.6 Cl: 51.6 NO3: 0.7 F: 1.3
Sum Cations: 410.9 Sum Anions: 409.8 Cations/Anions: 1.00 Tot. P: 2.0
Tot. Al: 12.0 Ext. Al: 3.0 Fe: 60.0 Mn: 319.0 SiO2: 12.21

(continued)

TABLE 3-1 (continued)

ID: 3A2-048 Name: HARPER POND State: SC Date: 24NOV84
Sample Type: REGULAR Latitude: 34-39'13"N Longitude: 83-11'28"W
Elevation: 210 Surface Temp: 7.5 Stratified: MIXED Site Depth: 2.7
Lake Area: 3 Watershed Area: 238 WA/LA: 85.0 Hydro Type: RESERVOIR
Residence Time: 0.03 Secchi Depth: 2.4 Turbidity: 4.8 Color: 30
Closed pH: 7.12 Equil. pH: 7.83 ANC: 336.1 DOC: 1.10
Closed DIC: 4.54 Equil. DIC: 3.88 Meas. Cond: 36.9 Cal. Cond: 38.1
Ca: 118.3 Mg: 65.8 Na: 134.8 K: 29.9 NH4: 0.5
SO4: 13.7 HCO3: 331.8 Cl: 34.1 NO3: 0.0 F: 1.1
Sum Cations: 349.4 Sum Anions: 381.7 Cations/Anions: 0.92 Tot. P: 4.0
Tot. Al: 77.0 Ext. Al: 2.0 Fe: 30.0 Mn: 0.0 SiO2: 17.82

ID: 3A2-049 Name: RUSSELL LAKE State: GA Date: 24NOV84
Sample Type: REGULAR Latitude: 34-29'23"N Longitude: 83-29'49"W
Elevation: 302 Surface Temp: 11.1 Stratified: MIXED Site Depth: 10.7
Lake Area: 37 Watershed Area: 1608 WA/LA: 43.7 Hydro Type: RESERVOIR
Residence Time: 0.21 Secchi Depth: 4.6 Turbidity: 1.1 Color: 15
Closed pH: 7.09 Equil. pH: 7.67 ANC: 222.4 DOC: 1.20
Closed DIC: 2.96 Equil. DIC: 3.08 Meas. Cond: 28.1 Cal. Cond: 28.9
Ca: 70.9 Mg: 60.0 Na: 98.7 K: 29.7 NH4: 0.3
SO4: 19.4 HCO3: 219.8 Cl: 38.4 NO3: 0.0 F: 1.5
Sum Cations: 259.6 Sum Anions: 279.5 Cations/Anions: 0.93 Tot. P: 4.0
Tot. Al: 28.0 Ext. Al: 1.8 Fe: 20.0 Mn: 0.0 SiO2: 14.45

ID: 3A2-053 Name: THORPE LAKE State: NC Date: 25NOV84
Sample Type: REGULAR Latitude: 35-10'30"N Longitude: 83-09'00"W
Elevation: 1064 Surface Temp: 10.5 Stratified: MIXED Site Depth: 22.3
Lake Area: 574 Watershed Area: 10062 WA/LA: 17.5 Hydro Type: RESERVOIR
Residence Time: 0.75 Secchi Depth: 3.3 Turbidity: 1.7 Color: 25
Closed pH: 6.52 Equil. pH: 7.25 ANC: 83.6 DOC: 1.40
Closed DIC: 1.61 Equil. DIC: 1.08 Meas. Cond: 15.3 Cal. Cond: 16.0
Ca: 49.9 Mg: 23.9 Na: 50.0 K: 11.8 NH4: 3.5
SO4: 23.1 HCO3: 81.3 Cl: 32.7 NO3: 1.3 F: 0.7
Sum Cations: 139.2 Sum Anions: 139.2 Cations/Anions: 1.00 Tot. P: 2.0
Tot. Al: 40.0 Ext. Al: 1.0 Fe: 80.0 Mn: 180.0 SiO2: 5.09

ID: 3A2-055 Name: HIWASSEE LAKE State: NC Date: 20NOV84
Sample Type: REGULAR Latitude: 35-09'45"N Longitude: 84-10'00"W
Elevation: 465 Surface Temp: 16.1 Stratified: MIXED Site Depth: 64.0
Lake Area: 2729 Watershed Area: 235006 WA/LA: 86.1 Hydro Type: RESERVOIR
Residence Time: 0.53 Secchi Depth: 2.4 Turbidity: 2.5 Color: 20
Closed pH: 6.69 Equil. pH: 7.51 ANC: 161.1 DOC: 0.80
Closed DIC: 2.81 Equil. DIC: 1.98 Meas. Cond: 24.5 Cal. Cond: 26.0
Ca: 82.8 Mg: 56.8 Na: 57.9 K: 32.5 NH4: 3.9
SO4: 34.8 HCO3: 149.9 Cl: 31.0 NO3: 7.7 F: 1.4
Sum Cations: 233.9 Sum Anions: 224.9 Cations/Anions: 1.04 Tot. P: 5.0
Tot. Al: 46.0 Ext. Al: 2.0 Fe: 0.0 Mn: 54.0 SiO2: 6.86

ID: 3A2-056 Name: BLUE RIDGE LAKE State: GA Date: 20NOV84
Sample Type: REG/SPC/LTM/ Latitude: 34-51'45"N Longitude: 84-16'00"W
Elevation: 515 Surface Temp: 14.7 Stratified: MIXED Site Depth: 29.6
Lake Area: 1280 Watershed Area: 57177 WA/LA: 44.7 Hydro Type: RESERVOIR
Residence Time: 0.39 Secchi Depth: 3.2 Turbidity: 1.5 Color: 15
Closed pH: 6.97 Equil. pH: 7.40 ANC: 113.4 DOC: 1.20
Closed DIC: 1.66 Equil. DIC: 1.98 Meas. Cond: 16.3 Cal. Cond: 17.7
Ca: 49.4 Mg: 37.0 Na: 50.0 K: 16.4 NH4: 0.9
SO4: 22.1 HCO3: 119.3 Cl: 23.7 NO3: 0.6 F: 1.1
Sum Cations: 153.8 Sum Anions: 166.8 Cations/Anions: 0.92 Tot. P: 2.0
Tot. Al: 44.0 Ext. Al: 1.0 Fe: 0.0 Mn: 6.0 SiO2: 7.74

(continued)

TABLE 3-1 (continued)

ID: 3A2-057 Name: FAUSETT LAKE State: GA Date: 24NOV84
Sample Type: REGULAR Latitude: 34-31'48"N Longitude: 84-16'45"W
Elevation: 490 Surface Temp: 7.0 Stratified: MIXED Site Depth: 3.0
Lake Area: 12 Watershed Area: 2512 WA/LA: 218.4 Hydro Type: RESERVOIR
Residence Time: 0.01 Secchi Depth: 3.0 Turbidity: 2.2 Color: 25
Closed pH: 6.48 Equil. pH: 7.80 ANC: 95.8 DOC: 0.50
Closed DIC: 1.99 Equil. DIC: 1.10 Meas. Cond: 14.3 Cal. Cond: 14.6
Ca: 33.9 Mg: 29.6 Na: 52.2 K: 17.1 NH4: 0.2
SO4: 20.8 HCO3: 78.4 Cl: 24.3 NO3: 0.1 F: 0.6
Sum Cations: 133.3 Sum Anions: 124.3 Cations/Anions: 1.07 Tot. P: 2.0
Tot. Al: 48.0 Ext. Al: 3.0 Fe: 90.0 Mn: 7.0 SiO2: 7.90

ID: 3A2-058 Name: GRANDVIEW LAKE State: GA Date: 24NOV84
Sample Type: REGULAR Latitude: 34-30'06"N Longitude: 84-23'50"W
Elevation: 424 Surface Temp: 11.1 Stratified: MIXED Site Depth: 11.0
Lake Area: 26 Watershed Area: 984 WA/LA: 38.4 Hydro Type: RESERVOIR
Residence Time: 0.20 Secchi Depth: 3.7 Turbidity: 1.6 Color: 20
Closed pH: 7.04 Equil. pH: 7.81 ANC: 308.1 DOC: 1.20
Closed DIC: 4.21 Equil. DIC: 3.67 Meas. Cond: 39.6 Cal. Cond: 40.8
Ca: 167.2 Mg: 83.1 Na: 89.2 K: 33.5 NH4: 0.8
SO4: 35.4 HCO3: 291.6 Cl: 43.7 NO3: 1.6 F: 2.1
Sum Cations: 373.8 Sum Anions: 375.0 Cations/Anions: 1.00 Tot. P: 3.0
Tot. Al: 54.0 Ext. Al: 2.0 Fe: 100.0 Mn: 0.0 SiO2: 11.60

ID: 3A2-059 Name: LAUREL LAKE State: TN Date: 20NOV84
Sample Type: REGULAR Latitude: 35-40'15"N Longitude: 83-47'52"W
Elevation: 320 Surface Temp: 10.7 Stratified: MIXED Site Depth: 4.9
Lake Area: 17 Watershed Area: 557 WA/LA: 32.8 Hydro Type: RESERVOIR
Residence Time: 0.13 Secchi Depth: 0.6 Turbidity: 11.5 Color: 40
Closed pH: 7.87 Equil. pH: 8.54 ANC: 1863.5 DOC: 1.45
Closed DIC: 22.14 Equil. DIC: 21.97 Meas. Cond: 195.5 Cal. Cond: 210.1
Ca: 1545.4 Mg: 350.4 Na: 59.4 K: 31.6 NH4: 4.2
SO4: 115.6 HCO3: 1831.0 Cl: 20.9 NO3: 1.0 F: 4.0
Sum Cations: 1991.0 Sum Anions: 1992.6 Cations/Anions: 1.00 Tot. P: 6.0
Tot. Al: 112.0 Ext. Al: 2.0 Fe: 0.0 Mn: 210.0 SiO2: 6.77

ID: 3A3-001 Name: TIMBER LAKE State: VA Date: 21NOV84
Sample Type: REGULAR Latitude: 37-19'00"N Longitude: 79-16'15"W
Elevation: 248 Surface Temp: 8.4 Stratified: MIXED Site Depth: 5.2
Lake Area: 23 Watershed Area: 1259 WA/LA: 56.0 Hydro Type: RESERVOIR
Residence Time: 0.16 Secchi Depth: 0.7 Turbidity: 11.0 Color: 70
Closed pH: 7.05 Equil. pH: 8.05 ANC: 603.7 DOC: 3.60
Closed DIC: 8.79 Equil. DIC: 6.81 Meas. Cond: 77.6 Cal. Cond: 80.5
Ca: 359.8 Mg: 165.3 Na: 120.1 K: 51.4 NH4: 14.2
SO4: 59.5 HCO3: 622.9 Cl: 85.5 NO3: 2.8 F: 2.8
Sum Cations: 710.9 Sum Anions: 775.3 Cations/Anions: 0.92 Tot. P: 13.0
Tot. Al: 184.0 Ext. Al: 1.0 Fe: 420.0 Mn: 0.0 SiO2: 11.33

ID: 3A3-004 Name: LAKE JAMES State: NC Date: 21NOV84
Sample Type: REGULAR Latitude: 35-44'30"N Longitude: 81-54'00"W
Elevation: 364 Surface Temp: 12.6 Stratified: STRONG Site Depth: 30.5
Lake Area: 2435 Watershed Area: 99868 WA/LA: 41.0 Hydro Type: RESERVOIR
Residence Time: 0.66 Secchi Depth: 3.7 Turbidity: 1.3 Color: 20
Closed pH: 7.11 Equil. pH: 7.70 ANC: 252.1 DOC: 1.20
Closed DIC: 3.64 Equil. DIC: 3.22 Meas. Cond: 44.4 Cal. Cond: 46.4
Ca: 111.8 Mg: 93.8 Na: 172.7 K: 35.5 NH4: 0.7
SO4: 82.7 HCO3: 238.7 Cl: 76.7 NO3: 3.5 F: 2.1
Sum Cations: 414.6 Sum Anions: 404.0 Cations/Anions: 1.03 Tot. P: 8.0
Tot. Al: 29.0 Ext. Al: 1.0 Fe: 0.0 Mn: 40.0 SiO2: 9.25

(continued)

TABLE 3-1 (continued)

ID: 3A3-006 Name: BURNETT RESERVOIR State: NC Date: 21NOV84
Sample Type: REGULAR Latitude: 35-40'00"N Longitude: 82-20'20"W
Elevation: 780 Surface Temp: 11.6 Stratified: MIXED Site Depth: 4.3
Lake Area: 130 Watershed Area: 5765 WA/LA: 44.3 Hydro Type: RESERVOIR
Residence Time: 0.06 Secchi Depth: 4.1 Turbidity: 0.8 Color: 15
Closed pH: 6.79 Equil. pH: 7.18 ANC: 79.5 DOC: 1.00
Closed DIC: 1.42 Equil. DIC: 1.28 Meas. Cond: 14.5 Cal. Cond: 15.4
Ca: 46.9 Mg: 35.4 Na: 39.1 K: 11.5 NH4: 0.9
SO4: 36.2 HCO3: 77.1 Cl: 15.5 NO3: 3.5 F: 0.9
Sum Cations: 134.0 Sum Anions: 133.3 Cations/Anions: 1.01 Tot. P: 5.0
Tot. Al: 27.0 Ext. Al: 1.0 Fe: 0.0 Mn: 20.0 SiO2: 6.51

ID: 3A3-009 Name: LAKE LANIER State: SC Date: 25NOV84
Sample Type: REGULAR Latitude: 35-11'40"N Longitude: 82-14'05"W
Elevation: 318 Surface Temp: 9.6 Stratified: MIXED Site Depth: 15.2
Lake Area: 34 Watershed Area: 1839 WA/LA: 54.4 Hydro Type: RESERVOIR
Residence Time: 0.25 Secchi Depth: 2.3 Turbidity: 3.7 Color: 40
Closed pH: 6.70 Equil. pH: 7.72 ANC: 249.8 DOC: 1.00
Closed DIC: 4.23 Equil. DIC: 2.82 Meas. Cond: 30.5 Cal. Cond: 30.1
Ca: 85.3 Mg: 65.8 Na: 95.7 K: 22.8 NH4: 2.3
SO4: 27.5 HCO3: 227.2 Cl: 31.9 NO3: 0.0 F: 1.3
Sum Cations: 272.0 Sum Anions: 288.3 Cations/Anions: 0.94 Tot. P: 4.0
Tot. Al: 21.0 Ext. Al: 3.0 Fe: 70.0 Mn: 230.0 SiO2: 13.66

ID: 3A3-011 Name: (NO NAME) State: SC Date: 25NOV84
Sample Type: REGULAR Latitude: 35-05'15"N Longitude: 81-44'35"W
Elevation: 209 Surface Temp: 6.7 Stratified: MIXED Site Depth: 2.1
Lake Area: 33 Watershed Area: 2885 WA/LA: 88.8 Hydro Type: RESERVOIR
Residence Time: 0.03 Secchi Depth: 0.8 Turbidity: 12.9 Color: 50
Closed pH: 6.86 Equil. pH: 7.62 ANC: 209.8 DOC: 1.20
Closed DIC: 3.11 Equil. DIC: 2.43 Meas. Cond: 35.3 Cal. Cond: 37.3
Ca: 103.8 Mg: 93.8 Na: 77.0 K: 39.9 NH4: 2.4
SO4: 39.6 HCO3: 220.0 Cl: 65.2 NO3: 15.5 F: 2.5
Sum Cations: 317.0 Sum Anions: 343.1 Cations/Anions: 0.92 Tot. P: 3.0
Tot. Al: 204.0 Ext. Al: 3.0 Fe: 60.0 Mn: 0.0 SiO2: 7.67

ID: 3A3-012 Name: (NO NAME) State: SC Date: 29NOV84
Sample Type: REGULAR Latitude: 34-57'05"N Longitude: 82-23'37"W
Elevation: 362 Surface Temp: 10.9 Stratified: MIXED Site Depth: 13.4
Lake Area: 7 Watershed Area: 88 WA/LA: 12.6 Hydro Type: RESERVOIR
Residence Time: 0.89 Secchi Depth: 5.1 Turbidity: 1.3 Color: 25
Closed pH: 6.60 Equil. pH: 7.14 ANC: 65.4 DOC: 1.80
Closed DIC: 1.09 Equil. DIC: 0.80 Meas. Cond: 13.5 Cal. Cond: 14.2
Ca: 29.4 Mg: 31.3 Na: 47.4 K: 16.6 NH4: 0.1
SO4: 36.6 HCO3: 47.3 Cl: 25.7 NO3: 0.1 F: 1.2
Sum Cations: 125.1 Sum Anions: 110.8 Cations/Anions: 1.13 Tot. P: 0.0
Tot. Al: 8.0 Ext. Al: 2.0 Fe: 40.0 Mn: 0.0 SiO2: 6.73

ID: 3A3-014 Name: LAWSON LAKE State: GA Date: 24NOV84
Sample Type: REGULAR Latitude: 34-37'37"N Longitude: 83-25'45"W
Elevation: 389 Surface Temp: 7.2 Stratified: MIXED Site Depth: 4.3
Lake Area: 4 Watershed Area: 526 WA/LA: 122.3 Hydro Type: DRAINAGE
Residence Time: 0.03 Secchi Depth: 2.3 Turbidity: 4.5 Color: 30
Closed pH: 7.01 Equil. pH: 7.68 ANC: 227.4 DOC: 1.10
Closed DIC: 3.27 Equil. DIC: 2.74 Meas. Cond: 26.9 Cal. Cond: 27.5
Ca: 82.3 Mg: 71.6 Na: 77.9 K: 23.3 NH4: 0.6
SO4: 13.7 HCO3: 218.6 Cl: 28.8 NO3: 0.7 F: 1.3
Sum Cations: 255.7 Sum Anions: 263.4 Cations/Anions: 0.97 Tot. P: 3.0
Tot. Al: 60.0 Ext. Al: 3.0 Fe: 60.0 Mn: 8.0 SiO2: 11.46

(continued)

TABLE 3-1 (continued)

ID: 3A3-017 Name: (NO NAME) State: GA Date: 26NOV84
Sample Type: REGULAR Latitude: 34-17'27"N Longitude: 84-04'53"W
Elevation: 352 Surface Temp: 7.4 Stratified: MIXED Site Depth: 1.8
Lake Area: 7 Watershed Area: 207 WA/LA: 31.4 Hydro Type: RESERVOIR
Residence Time: 0.05 Secchi Depth: 0.8 Turbidity: 14.9 Color: 65
Closed pH: 7.37 Equil. pH: 7.94 ANC: 482.1 DOC: 3.90
Closed DIC: 5.77 Equil. DIC: 5.76 Meas. Cond: 63.9 Cal. Cond: 62.4
Ca: 222.1 Mg: 134.9 Na: 148.3 K: 64.7 NH4: 15.4
SO4: 27.5 HCO3: 435.6 Cl: 75.3 NO3: 15.6 F: 2.9
Sum Cations: 585.4 Sum Anions: 557.8 Cations/Anions: 1.05 Tot. P: 19.0
Tot. Al: 214.0 Ext. Al: 3.0 Fe: 360.0 Mn: 40.0 SiO2: 15.76

ID: 3A3-021 Name: WINDER RESERVOIR State: GA Date: 27NOV84
Sample Type: REGULAR Latitude: 34-00'42"N Longitude: 83-44'36"W
Elevation: 257 Surface Temp: 8.2 Stratified: MIXED Site Depth: 1.8
Lake Area: 11 Watershed Area: 1551 WA/LA: 142.3 Hydro Type: RESERVOIR
Residence Time: 0.02 Secchi Depth: 1.8 Turbidity: 5.6 Color: 45
Closed pH: 6.84 Equil. pH: 7.68 ANC: 230.2 DOC: 1.50
Closed DIC: 3.45 Equil. DIC: 3.13 Meas. Cond: 45.3 Cal. Cond: 46.2
Ca: 90.3 Mg: 55.1 Na: 173.1 K: 61.1 NH4: 3.9
SO4: 29.8 HCO3: 245.5 Cl: 113.1 NO3: 32.5 F: 2.9
Sum Cations: 383.7 Sum Anions: 424.4 Cations/Anions: 0.90 Tot. P: 11.0
Tot. Al: 168.0 Ext. Al: 1.0 Fe: 60.0 Mn: 40.0 SiO2: 13.18

ID: 3A3-022 Name: LAKE SEAGRAVES State: GA Date: 27NOV84
Sample Type: REGULAR Latitude: 34-05'53"N Longitude: 83-21'20"W
Elevation: 235 Surface Temp: 10.2 Stratified: MIXED Site Depth: 5.2
Lake Area: 10 Watershed Area: 627 WA/LA: 64.6 Hydro Type: RESERVOIR
Residence Time: 0.10 Secchi Depth: 2.0 Turbidity: 4.8 Color: 60
Closed pH: 7.04 Equil. pH: 7.59 ANC: 184.8 DOC: 2.90
Closed DIC: 2.56 Equil. DIC: 2.30 Meas. Cond: 30.6 Cal. Cond: 30.8
Ca: 73.9 Mg: 55.9 Na: 95.7 K: 42.2 NH4: 7.3
SO4: 22.5 HCO3: 177.9 Cl: 63.2 NO3: 4.0 F: 2.3
Sum Cations: 275.1 Sum Anions: 270.1 Cations/Anions: 1.02 Tot. P: 10.0
Tot. Al: 157.0 Ext. Al: 1.0 Fe: 0.0 Mn: 10.0 SiO2: 6.90

ID: 3A3-026 Name: ELDER LAKE State: GA Date: 27NOV84
Sample Type: REGULAR Latitude: 34-00'00"N Longitude: 83-48'10"W
Elevation: 314 Surface Temp: 10.1 Stratified: MIXED Site Depth: 3.6
Lake Area: 5 Watershed Area: 80 WA/LA: 15.1 Hydro Type: RESERVOIR
Residence Time: 0.25 Secchi Depth: 2.5 Turbidity: 3.4 Color: 40
Closed pH: 7.09 Equil. pH: 7.54 ANC: 174.5 DOC: 4.60
Closed DIC: 2.25 Equil. DIC: 1.70 Meas. Cond: 43.2 Cal. Cond: 43.9
Ca: 102.5 Mg: 61.3 Na: 154.0 K: 58.9 NH4: 1.4
SO4: 66.0 HCO3: 162.8 Cl: 124.4 NO3: 3.2 F: 2.9
Sum Cations: 378.3 Sum Anions: 359.5 Cations/Anions: 1.05 Tot. P: 15.5
Tot. Al: 186.0 Ext. Al: 2.5 Fe: 260.0 Mn: 15.0 SiO2: 4.73

ID: 3A3-027 Name: (NO NAME) State: GA Date: 27NOV84
Sample Type: REGULAR Latitude: 33-57'00"N Longitude: 83-16'30"W
Elevation: 223 Surface Temp: 9.5 Stratified: MIXED Site Depth: 3.0
Lake Area: 5 Watershed Area: 88 WA/LA: 16.9 Hydro Type: RESERVOIR
Residence Time: 0.27 Secchi Depth: 2.0 Turbidity: 4.4 Color: 50
Closed pH: 7.22 Equil. pH: 7.72 ANC: 255.2 DOC: 4.10
Closed DIC: 3.21 Equil. DIC: 2.99 Meas. Cond: 39.5 Cal. Cond: 38.9
Ca: 83.8 Mg: 69.9 Na: 108.8 K: 57.0 NH4: 18.0
SO4: 19.6 HCO3: 247.9 Cl: 79.8 NO3: 4.8 F: 2.7
Sum Cations: 337.6 Sum Anions: 355.3 Cations/Anions: 0.95 Tot. P: 15.0
Tot. Al: 231.0 Ext. Al: 1.0 Fe: 260.0 Mn: 60.0 SiO2: 11.64

(continued)

TABLE 3-1 (continued)

ID: 3A3-035 Name: JOELS LAKE State: GA Date: 26NOV84
Sample Type: REGULAR Latitude: 33-41'30"N Longitude: 84-08'15"W
Elevation: 247 Surface Temp: 10.0 Stratified: MIXED Site Depth: 4.9
Lake Area: 9 Watershed Area: 145 WA/LA: 15.4 Hydro Type: RESERVOIR
Residence Time: 0.34 Secchi Depth: 2.1 Turbidity: 2.1 Color: 30
Closed pH: 7.07 Equil. pH: 7.81 ANC: 304.7 DOC: 4.30
Closed DIC: 4.05 Equil. DIC: 3.30 Meas. Cond: 50.2 Cal. Cond: 50.1
Ca: 159.2 Mg: 79.8 Na: 148.3 K: 53.7 NH4: 20.6
SO4: 37.9 HCO3: 270.0 Cl: 103.8 NO3: 1.9 F: 5.6
Sum Cations: 461.7 Sum Anions: 419.8 Cations/Anions: 1.10 Tot. P: 7.0
Tot. Al: 75.0 Ext. Al: 3.0 Fe: 90.0 Mn: 80.0 SiO2: 6.81

ID: 3A3-036 Name: GAINES LAKE State: GA Date: 26NOV84
Sample Type: REGULAR Latitude: 33-43'00"N Longitude: 84-03'15"W
Elevation: 218 Surface Temp: 9.3 Stratified: MIXED Site Depth: 3.0
Lake Area: 34 Watershed Area: 1241 WA/LA: 36.8 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 1.3 Turbidity: 3.9 Color: 25
Closed pH: 7.30 Equil. pH: 7.89 ANC: 359.0 DOC: 3.80
Closed DIC: 4.46 Equil. DIC: 4.01 Meas. Cond: 64.1 Cal. Cond: 65.7
Ca: 262.0 Mg: 69.9 Na: 191.4 K: 61.6 NH4: 6.4
SO4: 106.2 HCO3: 344.9 Cl: 94.8 NO3: 3.1 F: 7.6
Sum Cations: 591.4 Sum Anions: 557.4 Cations/Anions: 1.06 Tot. P: 5.0
Tot. Al: 140.0 Ext. Al: 2.0 Fe: 80.0 Mn: 80.0 SiO2: 7.98

ID: 3A3-038 Name: (NO NAME) State: GA Date: 27NOV84
Sample Type: REGULAR Latitude: 33-41'50"N Longitude: 82-41'50"W
Elevation: 151 Surface Temp: 9.4 Stratified: MIXED Site Depth: 4.6
Lake Area: 7 Watershed Area: 184 WA/LA: 27.1 Hydro Type: RESERVOIR
Residence Time: 0.28 Secchi Depth: 0.7 Turbidity: 10.4 Color: 120
Closed pH: 7.11 Equil. pH: 8.16 ANC: 742.8 DOC: 8.30
Closed DIC: 9.88 Equil. DIC: 8.54 Meas. Cond: 91.1 Cal. Cond: 88.5
Ca: 290.9 Mg: 162.1 Na: 237.5 K: 65.2 NH4: 47.5
SO4: 17.5 HCO3: 735.6 Cl: 101.0 NO3: 1.4 F: 5.2
Sum Cations: 803.2 Sum Anions: 863.9 Cations/Anions: 0.93 Tot. P: 35.0
Tot. Al: 69.0 Ext. Al: 2.0 Fe: 1810.0 Mn: 2030.0 SiO2: 17.86

ID: 3A3-044 Name: SHAMROCK LAKE State: GA Date: 26NOV84
Sample Type: REGULAR Latitude: 33-28'52"N Longitude: 84-18'00"W
Elevation: 243 Surface Temp: 9.0 Stratified: MIXED Site Depth: 4.0
Lake Area: 26 Watershed Area: 508 WA/LA: 19.8 Hydro Type: RESERVOIR
Residence Time: 0.22 Secchi Depth: 0.6 Turbidity: 8.8 Color: 80
Closed pH: 8.27 Equil. pH: 8.11 ANC: 625.3 DOC: 3.80
Closed DIC: 7.08 Equil. DIC: 7.38 Meas. Cond: 133.6 Cal. Cond: 137.9
Ca: 252.5 Mg: 119.3 Na: 752.1 K: 75.9 NH4: 0.5
SO4: 228.0 HCO3: 598.3 Cl: 347.3 NO3: 16.9 F: 8.8
Sum Cations: 1200.4 Sum Anions: 1201.7 Cations/Anions: 1.00 Tot. P: 71.0
Tot. Al: 145.0 Ext. Al: 2.0 Fe: 360.0 Mn: 710.0 SiO2: 15.74

ID: 3A3-045 Name: ROCK EAGLE LAKE State: GA Date: 27NOV84
Sample Type: REGULAR Latitude: 33-25'00"N Longitude: 83-23'40"W
Elevation: 162 Surface Temp: 10.7 Stratified: MIXED Site Depth: 6.1
Lake Area: 35 Watershed Area: 730 WA/LA: 21.1 Hydro Type: RESERVOIR
Residence Time: 0.45 Secchi Depth: 1.5 Turbidity: 5.6 Color: 55
Closed pH: 7.54 Equil. pH: 7.99 ANC: 468.0 DOC: 7.00
Closed DIC: 6.06 Equil. DIC: 6.00 Meas. Cond: 18.9 Cal. Cond: 61.1
Ca: 188.1 Mg: 149.7 Na: 189.2 K: 36.8 NH4: 1.0
SO4: 27.5 HCO3: 469.7 Cl: 78.4 NO3: 3.2 F: 5.8
Sum Cations: 565.0 Sum Anions: 585.3 Cations/Anions: 0.97 Tot. P: 49.0
Tot. Al: 74.0 Ext. Al: 1.0 Fe: 150.0 Mn: 300.0 SiO2: 15.84

(continued)

TABLE 3-1 (continued)

ID: 3A3-046 Name: (NO NAME) State: GA Date: 26NOV84
Sample Type: REGULAR Latitude: 33-23'40"N Longitude: 84-14'33"W
Elevation: 241 Surface Temp: 8.8 Stratified: MIXED Site Depth: 3.3
Lake Area: 5 Watershed Area: 655 WA/LA: 128.4 Hydro Type: RESERVOIR
Residence Time: 0.03 Secchi Depth: 2.7 Turbidity: 4.9 Color: 40
Closed pH: 7.01 Equil. pH: 7.75 ANC: 257.9 DOC: 1.70
Closed DIC: 3.74 Equil. DIC: 3.35 Meas. Cond: 40.5 Cal. Cond: 41.4
Ca: 89.8 Mg: 84.7 Na: 128.3 K: 58.0 NH4: 1.3
SO4: 23.3 HCO3: 253.1 Cl: 92.0 NO3: 5.0 F: 3.4
Sum Cations: 362.2 Sum Anions: 377.4 Cations/Anions: 0.96 Tot. P: 10.0
Tot. Al: 51.0 Ext. Al: 2.0 Fe: 210.0 Mn: 100.0 SiO2: 10.91

ID: 3A3-050 Name: AIKEN POND State: GA Date: 27NOV84
Sample Type: REGULAR Latitude: 33-14'10"N Longitude: 82-49'45"W
Elevation: 123 Surface Temp: 10.3 Stratified: MIXED Site Depth: 6.1
Lake Area: 10 Watershed Area: 218 WA/LA: 22.0 Hydro Type: RESERVOIR
Residence Time: 0.44 Secchi Depth: 1.4 Turbidity: 4.8 Color: 150
Closed pH: 6.34 Equil. pH: 7.45 ANC: 157.5 DOC: 5.90
Closed DIC: 3.46 Equil. DIC: 1.39 Meas. Cond: 36.3 Cal. Cond: 34.5
Ca: 73.9 Mg: 85.5 Na: 90.0 K: 23.5 NH4: 23.3
SO4: 13.9 HCO3: 127.5 Cl: 137.1 NO3: 3.1 F: 1.8
Sum Cations: 296.4 Sum Anions: 283.6 Cations/Anions: 1.05 Tot. P: 12.0
Tot. Al: 62.0 Ext. Al: 1.0 Fe: 1630.0 Mn: 280.0 SiO2: 7.25

ID: 3A3-052 Name: HARPS LAKE State: GA Date: 26NOV84
Sample Type: REGULAR Latitude: 33-37'05"N Longitude: 84-11'24"W
Elevation: 224 Surface Temp: 8.6 Stratified: MIXED Site Depth: 2.7
Lake Area: 5 Watershed Area: 243 WA/LA: 51.7 Hydro Type: RESERVOIR
Residence Time: 0.06 Secchi Depth: 2.3 Turbidity: 4.2 Color: 25
Closed pH: 7.34 Equil. pH: 8.02 ANC: 480.6 DOC: 1.60
Closed DIC: 6.13 Equil. DIC: 5.72 Meas. Cond: 58.7 Cal. Cond: 58.9
Ca: 215.6 Mg: 140.7 Na: 152.3 K: 43.0 NH4: 0.6
SO4: 25.4 HCO3: 466.2 Cl: 62.1 NO3: 0.3 F: 3.4
Sum Cations: 552.0 Sum Anions: 558.8 Cations/Anions: 0.99 Tot. P: 3.0
Tot. Al: 65.0 Ext. Al: 3.0 Fe: 70.0 Mn: 60.0 SiO2: 16.85

ID: 3A3-053 Name: HARTWELL LAKE State: SC Date: 27NOV84
Sample Type: REGULAR Latitude: 34-22'30"N Longitude: 82-50'30"W
Elevation: 198 Surface Temp: 15.9 Stratified: MIXED Site Depth: 56.4
Lake Area: 20130 Watershed Area: 534138 WA/LA: 26.5 Hydro Type: RESERVOIR
Residence Time: 2.42 Secchi Depth: 2.9 Turbidity: 1.1 Color: 15
Closed pH: 6.92 Equil. pH: 7.55 ANC: 172.3 DOC: 0.90
Closed DIC: 2.64 Equil. DIC: 2.24 Meas. Cond: 28.0 Cal. Cond: 29.9
Ca: 75.8 Mg: 57.6 Na: 95.7 K: 26.1 NH4: 2.2
SO4: 40.8 HCO3: 193.1 Cl: 43.7 NO3: 1.7 F: 1.9
Sum Cations: 257.4 Sum Anions: 281.6 Cations/Anions: 0.91 Tot. P: 2.0
Tot. Al: 25.0 Ext. Al: 1.0 Fe: 60.0 Mn: 20.0 SiO2: 7.45

ID: 3A3-056 Name: RHODHISS LAKE State: NC Date: 21NOV84
Sample Type: REGULAR Latitude: 35-47'05"N Longitude: 81-27'30"W
Elevation: 302 Surface Temp: 11.4 Stratified: MIXED Site Depth: 14.0
Lake Area: 842 Watershed Area: 284009 WA/LA: 337.3 Hydro Type: RESERVOIR
Residence Time: 0.05 Secchi Depth: 1.5 Turbidity: 4.2 Color: 20
Closed pH: 7.12 Equil. pH: 7.78 ANC: 327.5 DOC: 1.40
Closed DIC: 4.58 Equil. DIC: 4.03 Meas. Cond: 70.0 Cal. Cond: 74.9
Ca: 136.2 Mg: 88.0 Na: 434.1 K: 45.3 NH4: 5.0
SO4: 88.3 HCO3: 288.2 Cl: 208.5 NO3: 9.0 F: 3.6
Sum Cations: 708.7 Sum Anions: 598.0 Cations/Anions: 1.19 Tot. P: 15.0
Tot. Al: 141.0 Ext. Al: 2.0 Fe: 30.0 Mn: 60.0 SiO2: 13.38

(continued)

TABLE 3-1 (continued)

ID: 3A3-057 Name: LAKE SPIVEY State: GA Date: 26NOV84
Sample Type: REGULAR Latitude: 33-30'52"N Longitude: 84-17'30"W
Elevation: 229 Surface Temp: 11.4 Stratified: MIXED Site Depth: 9.7
Lake Area: 187 Watershed Area: 2955 WA/LA: 15.8 Hydro Type: RESERVOIR
Residence Time: 0.66 Secchi Depth: 1.5 Turbidity: 2.3 Color: 25
Closed pH: 7.27 Equil. pH: 7.89 ANC: 371.4 DOC: 2.20
Closed DIC: 4.79 Equil. DIC: 4.52 Meas. Cond: 56.5 Cal. Cond: 56.2
Ca: 187.1 Mg: 114.3 Na: 156.6 K: 45.3 NH4: 4.7
SO4: 59.8 HCO3: 347.1 Cl: 91.1 NO3: 1.2 F: 3.5
Sum Cations: 508.1 Sum Anions: 503.6 Cations/Anions: 1.01 Tot. P: 3.0
Tot. Al: 61.0 Ext. Al: 0.0 Fe: 30.0 Mn: 70.0 SiO2: 9.89

ID: 3A3-058 Name: WILBUR LAKE State: TN Date: 29NOV84
Sample Type: REGULAR Latitude: 36-20'17"N Longitude: 82-07'05"W
Elevation: 503 Surface Temp: 9.2 Stratified: MIXED Site Depth: 1.8
Lake Area: 23 Watershed Area: 121396 WA/LA: 5301.1 Hydro Type: RESERVOIR
Residence Time: 0.00 Secchi Depth: 1.8 Turbidity: 2.1 Color: 15
Closed pH: 6.98 Equil. pH: 8.00 ANC: 501.7 DOC: 1.15
Closed DIC: 7.35 Equil. DIC: 6.50 Meas. Cond: 80.0 Cal. Cond: 80.1
Ca: 282.4 Mg: 263.6 Na: 91.1 K: 34.4 NH4: 0.4
SO4: 131.5 HCO3: 503.2 Cl: 70.4 NO3: 51.6 F: 3.3
Sum Cations: 672.1 Sum Anions: 761.2 Cations/Anions: 0.88 Tot. P: 2.5
Tot. Al: 52.0 Ext. Al: 1.5 Fe: 30.0 Mn: 5.0 SiO2: 7.25

ID: 3A3-060 Name: STEWARTS LAKE State: GA Date: 27NOV84
Sample Type: REGULAR Latitude: 33-38'21"N Longitude: 83-05'05"W
Elevation: 186 Surface Temp: 8.2 Stratified: MIXED Site Depth: 2.1
Lake Area: 5 Watershed Area: 197 WA/LA: 41.9 Hydro Type: RESERVOIR
Residence Time: 0.08 Secchi Depth: 2.0 Turbidity: 3.8 Color: 70
Closed pH: 7.19 Equil. pH: 8.17 ANC: 757.5 DOC: 6.00
Closed DIC: 9.96 Equil. DIC: 8.86 Meas. Cond: 92.8 Cal. Cond: 92.1
Ca: 274.9 Mg: 179.3 Na: 348.4 K: 64.7 NH4: 3.4
SO4: 23.5 HCO3: 753.2 Cl: 100.7 NO3: 2.0 F: 4.4
Sum Cations: 870.9 Sum Anions: 887.8 Cations/Anions: 0.98 Tot. P: 12.0
Tot. Al: 41.0 Ext. Al: 1.0 Fe: 990.0 Mn: 50.0 SiO2: 19.92

ID: 3A3-061 Name: (NO NAME) State: GA Date: 26NOV84
Sample Type: REGULAR Latitude: 33-29'45"N Longitude: 84-13'33"W
Elevation: 223 Surface Temp: 9.3 Stratified: MIXED Site Depth: 4.0
Lake Area: 5 Watershed Area: 181 WA/LA: 34.8 Hydro Type: RESERVOIR
Residence Time: 0.13 Secchi Depth: 2.5 Turbidity: 3.6 Color: 30
Closed pH: 7.17 Equil. pH: 7.70 ANC: 236.6 DOC: 2.00
Closed DIC: 3.16 Equil. DIC: 2.74 Meas. Cond: 38.2 Cal. Cond: 39.4
Ca: 110.3 Mg: 88.0 Na: 103.1 K: 45.0 NH4: 1.1
SO4: 34.6 HCO3: 229.8 Cl: 79.0 NO3: 5.2 F: 3.3
Sum Cations: 347.5 Sum Anions: 352.3 Cations/Anions: 0.99 Tot. P: 10.0
Tot. Al: 97.0 Ext. Al: 1.0 Fe: 70.0 Mn: 80.0 SiO2: 7.89

ID: 3A3-063 Name: (NO NAME) State: GA Date: 26NOV84
Sample Type: REGULAR Latitude: 33-58'56"N Longitude: 84-19'50"W
Elevation: 284 Surface Temp: 9.9 Stratified: MIXED Site Depth: 8.5
Lake Area: 7 Watershed Area: 127 WA/LA: 17.4 Hydro Type: RESERVOIR
Residence Time: 0.53 Secchi Depth: 1.6 Turbidity: 6.7 Color: 60
Closed pH: 6.76 Equil. pH: 7.85 ANC: 382.0 DOC: 2.20
Closed DIC: 6.01 Equil. DIC: 4.45 Meas. Cond: 54.1 Cal. Cond: 50.3
Ca: 168.2 Mg: 100.4 Na: 135.7 K: 48.3 NH4: 3.9
SO4: 45.0 HCO3: 316.8 Cl: 81.8 NO3: 2.2 F: 2.9
Sum Cations: 456.6 Sum Anions: 449.3 Cations/Anions: 1.02 Tot. P: 5.0
Tot. Al: 31.0 Ext. Al: 1.0 Fe: 270.0 Mn: 340.0 SiO2: 9.73

(continued)

TABLE 3-1 (continued)

ID: 3A3-064 Name: (NO NAME) State: GA Date: 27NOV84
Sample Type: REGULAR Latitude: 34-04'08"N Longitude: 83-31'15"W
Elevation: 235 Surface Temp: 10.0 Stratified: MIXED Site Depth: 8.8
Lake Area: 5 Watershed Area: 104 WA/LA: 21.2 Hydro Type: RESERVOIR
Residence Time: 0.46 Secchi Depth: 3.0 Turbidity: 2.8 Color: 55
Closed pH: 6.50 Equil. pH: 7.71 ANC: 256.5 DOC: 3.10
Closed DIC: 5.24 Equil. DIC: 3.24 Meas. Cond: 32.5 Cal. Cond: 31.4
Ca: 75.8 Mg: 74.9 Na: 76.1 K: 37.8 NH4: 20.8
SO4: 12.1 HCO3: 231.3 Cl: 43.4 NO3: 0.4 F: 1.9
Sum Cations: 285.6 Sum Anions: 289.4 Cations/Anions: 0.99 Tot. P: 7.0
Tot. Al: 9.0 Ext. Al: 0.0 Fe: 90.0 Mn: 340.0 SiO2: 10.31

ID: 3A3-065 Name: FOREST LAKE State: NC Date: 25NOV84
Sample Type: REGULAR Latitude: 35-21'51"N Longitude: 81-52'45"W
Elevation: 277 Surface Temp: 8.1 Stratified: MIXED Site Depth: 7.0
Lake Area: 9 Watershed Area: 256 WA/LA: 29.4 Hydro Type: RESERVOIR
Residence Time: 0.21 Secchi Depth: 1.4 Turbidity: 12.8 Color: 70
Closed pH: 6.86 Equil. pH: 7.72 ANC: 260.8 DOC: 1.90
Closed DIC: 3.92 Equil. DIC: 3.81 Meas. Cond: 38.9 Cal. Cond: 41.0
Ca: 110.8 Mg: 83.1 Na: 93.1 K: 43.5 NH4: 13.4
SO4: 36.2 HCO3: 284.8 Cl: 64.3 NO3: 6.9 F: 2.2
Sum Cations: 343.9 Sum Anions: 394.9 Cations/Anions: 0.87 Tot. P: 3.0
Tot. Al: 185.0 Ext. Al: 3.0 Fe: 320.0 Mn: 170.0 SiO2: 9.30

ID: 3A3-066 Name: LAKE TAHOMA State: NC Date: 21NOV84
Sample Type: REGULAR Latitude: 35-43'30"N Longitude: 82-05'00"W
Elevation: 427 Surface Temp: 10.0 Stratified: MIXED Site Depth: 13.1
Lake Area: 64 Watershed Area: 5944 WA/LA: 92.9 Hydro Type: DRAINAGE
Residence Time: 0.09 Secchi Depth: 2.9 Turbidity: 1.5 Color: 25
Closed pH: 6.74 Equil. pH: 7.48 ANC: 148.7 DOC: 1.20
Closed DIC: 2.76 Equil. DIC: 1.79 Meas. Cond: 21.0 Cal. Cond: 22.2
Ca: 76.8 Mg: 40.3 Na: 58.7 K: 29.4 NH4: 0.2
SO4: 32.3 HCO3: 137.2 Cl: 20.9 NO3: 0.0 F: 1.2
Sum Cations: 205.6 Sum Anions: 191.7 Cations/Anions: 1.07 Tot. P: 9.0
Tot. Al: 22.0 Ext. Al: 2.0 Fe: 0.0 Mn: 70.0 SiO2: 7.97

ID: 3A3-068 Name: FREEMAN LAKE State: GA Date: 26NOV84
Sample Type: REGULAR Latitude: 33-55'10"N Longitude: 84-08'37"W
Elevation: 265 Surface Temp: 8.1 Stratified: MIXED Site Depth: 1.5
Lake Area: 22 Watershed Area: 2238 WA/LA: 104.1 Hydro Type: RESERVOIR
Residence Time: 0.02 Secchi Depth: 0.5 Turbidity: 28.0 Color: 80
Closed pH: 7.29 Equil. pH: 7.93 ANC: 427.6 DOC: 3.05
Closed DIC: 5.27 Equil. DIC: 4.89 Meas. Cond: 69.6 Cal. Cond: 69.6
Ca: 281.7 Mg: 155.1 Na: 119.4 K: 62.9 NH4: 1.3
SO4: 129.6 HCO3: 383.6 Cl: 71.2 NO3: 10.1 F: 4.1
Sum Cations: 620.4 Sum Anions: 599.7 Cations/Anions: 1.03 Tot. P: 6.5
Tot. Al: 548.0 Ext. Al: 1.0 Fe: 115.0 Mn: 35.0 SiO2: 5.20

ID: 3A3-070 Name: LAKE HOUSER State: NC Date: 25NOV84
Sample Type: REGULAR Latitude: 35-13'23"N Longitude: 81-43'45"W
Elevation: 232 Surface Temp: 10.0 Stratified: MIXED Site Depth: 12.8
Lake Area: 9 Watershed Area: 285 WA/LA: 30.6 Hydro Type: DRAINAGE
Residence Time: 0.48 Secchi Depth: 1.9 Turbidity: 7.6 Color: 40
Closed pH: 6.68 Equil. pH: 7.60 ANC: 185.3 DOC: 2.20
Closed DIC: 3.20 Equil. DIC: 2.45 Meas. Cond: 34.3 Cal. Cond: 36.0
Ca: 91.8 Mg: 75.7 Na: 91.8 K: 42.2 NH4: 1.8
SO4: 41.8 HCO3: 200.2 Cl: 81.5 NO3: 2.1 F: 0.1
Sum Cations: 303.4 Sum Anions: 325.9 Cations/Anions: 0.93 Tot. P: 13.0
Tot. Al: 186.0 Ext. Al: 3.0 Fe: 90.0 Mn: 90.0 SiO2: 6.42

(continued)

TABLE 3-1 (continued)

ID: 3A3-072 Name: LAKE WILLIAM C. BOWEN State: SC Date: 25NOV84
Sample Type: REGULAR Latitude: 35-06'30"N Longitude: 82'03'00"W
Elevation: 242 Surface Temp: 11.4 Stratified: MIXED Site Depth: 10.4
Lake Area: 591 Watershed Area: 20974 WA/LA: 35.5 Hydro Type: RESERVOIR
Residence Time: 0.26 Secchi Depth: 1.3 Turbidity: 9.5 Color: 45
Closed pH: 6.93 Equil. pH: 7.78 ANC: 288.1 DOC: 2.00
Closed DIC: 4.18 Equil. DIC: 3.91 Meas. Cond: 39.2 Cal. Cond: 41.1
Ca: 111.3 Mg: 87.2 Na: 104.8 K: 30.2 NH4: 13.3
SO4: 27.9 HCO3: 322.3 Cl: 59.5 NO3: 1.9 F: 2.0
Sum Cations: 346.8 Sum Anions: 414.2 Cations/Anions: 0.84 Tot. P: 3.0
Tot. Al: 137.0 Ext. Al: 3.0 Fe: 290.0 Mn: 290.0 SiO2: 11.71

ID: 3A3-073 Name: (NO NAME) State: GA Date: 26NOV84
Sample Type: REGULAR Latitude: 33-41'00"N Longitude: 84-02'45"W
Elevation: 265 Surface Temp: 9.2 Stratified: MIXED Site Depth: 3.4
Lake Area: 6 Watershed Area: 109 WA/LA: 18.5 Hydro Type: RESERVOIR
Residence Time: 0.20 Secchi Depth: 1.5 Turbidity: 3.2 Color: 25
Closed pH: 7.09 Equil. pH: 7.60 ANC: 198.3 DOC: 4.90
Closed DIC: 2.49 Equil. DIC: 2.12 Meas. Cond: 58.1 Cal. Cond: 61.7
Ca: 269.5 Mg: 76.5 Na: 139.6 K: 49.9 NH4: 0.8
SO4: 211.3 HCO3: 167.5 Cl: 81.2 NO3: 0.6 F: 4.9
Sum Cations: 536.4 Sum Anions: 465.9 Cations/Anions: 1.15 Tot. P: 10.0
Tot. Al: 136.0 Ext. Al: 4.0 Fe: 100.0 Mn: 130.0 SiO2: 0.59

ID: 3A3-074 Name: BOYD MILLPOND State: SC Date: 29NOV84
Sample Type: REGULAR Latitude: 34-27'30"N Longitude: 82-12'30"W
Elevation: 163 Surface Temp: 8.3 Stratified: MIXED Site Depth: 10.0
Lake Area: 76 Watershed Area: 57899 WA/LA: 762.8 Hydro Type: RESERVOIR
Residence Time: 0.02 Secchi Depth: 0.9 Turbidity: 5.9 Color: 60
Closed pH: 7.39 Equil. pH: 8.29 ANC: 906.6 DOC: 4.60
Closed DIC: 11.34 Equil. DIC: 11.22 Meas. Cond: 237.4 Cal. Cond: 237.7
Ca: 266.5 Mg: 106.9 Na: 1523.4 K: 117.1 NH4: 15.0
SO4: 280.7 HCO3: 867.8 Cl: 751.2 NO3: 153.3 F: 9.7
Sum Cations: 2028.9 Sum Anions: 2067.1 Cations/Anions: 0.98 Tot. P: 833.0
Tot. Al: 149.0 Ext. Al: 1.0 Fe: 270.0 Mn: 50.0 SiO2: 15.44

ID: 3A3-078 Name: WALKER LAKE State: GA Date: 26NOV84
Sample Type: REGULAR Latitude: 33-39'52"N Longitude: 84-02'30"W
Elevation: 259 Surface Temp: 9.4 Stratified: MIXED Site Depth: 5.5
Lake Area: 5 Watershed Area: 184 WA/LA: 36.8 Hydro Type: RESERVOIR
Residence Time: 0.17 Secchi Depth: 2.7 Turbidity: 3.3 Color: 35
Closed pH: 7.38 Equil. pH: 7.86 ANC: 353.0 DOC: 4.40
Closed DIC: 4.19 Equil. DIC: 4.28 Meas. Cond: 90.1 Cal. Cond: 91.8
Ca: 310.9 Mg: 108.6 Na: 278.0 K: 77.0 NH4: 12.4
SO4: 203.4 HCO3: 318.1 Cl: 202.0 NO3: 8.7 F: 9.4
Sum Cations: 786.8 Sum Anions: 742.3 Cations/Anions: 1.06 Tot. P: 19.0
Tot. Al: 88.0 Ext. Al: 2.0 Fe: 170.0 Mn: 100.0 SiO2: 7.52

ID: 3A3-082 Name: (NO NAME) State: SC Date: 29NOV84
Sample Type: REGULAR Latitude: 34-32'00"N Longitude: 82-23'00"W
Elevation: 195 Surface Temp: 10.1 Stratified: MIXED Site Depth: 1.8
Lake Area: 65 Watershed Area: 125462 WA/LA: 1939.1 Hydro Type: RESERVOIR
Residence Time: 0.00 Secchi Depth: 0.3 Turbidity: 24.0 Color: 90
Closed pH: 6.95 Equil. pH: 7.77 ANC: 258.1 DOC: 2.20
Closed DIC: 3.76 Equil. DIC: 2.93 Meas. Cond: 41.5 Cal. Cond: 41.6
Ca: 119.8 Mg: 58.4 Na: 148.3 K: 40.7 NH4: 0.2
SO4: 45.2 HCO3: 236.3 Cl: 68.5 NO3: 20.1 F: 2.3
Sum Cations: 367.4 Sum Anions: 372.8 Cations/Anions: 0.99 Tot. P: 26.0
Tot. Al: 558.0 Ext. Al: 3.0 Fe: 110.0 Mn: 50.0 SiO2: 14.83

(continued)

TABLE 3-1 (continued)

ID: 3A3-084 Name: (NO NAME) State: SC Date: 25NOV84
Sample Type: REGULAR Latitude: 35-05'42"N Longitude: 81-44'20"W
Elevation: 212 Surface Temp: 6.3 Stratified: MIXED Site Depth: 4.3
Lake Area: 17 Watershed Area: 1000 WA/LA: 59.2 Hydro Type: RESERVOIR
Residence Time: 0.09 Secchi Depth: 0.9 Turbidity: 11.8 Color: 60
Closed pH: 6.90 Equil. pH: 7.70 ANC: 250.4 DOC: 1.00
Closed DIC: 3.69 Equil. DIC: 2.95 Meas. Cond: 35.2 Cal. Cond: 36.9
Ca: 101.3 Mg: 99.5 Na: 77.9 K: 32.2 NH4: 4.5
SO4: 32.5 HCO3: 263.8 Cl: 54.7 NO3: 4.4 F: 1.8
Sum Cations: 315.5 Sum Anions: 357.6 Cations/Anions: 0.88 Tot. P: 7.0
Tot. Al: 188.0 Ext. Al: 3.0 Fe: 180.0 Mn: 20.0 SiO2: 12.82

ID: 3A3-086 Name: (NO NAME) State: GA Date: 27NOV84
Sample Type: REGULAR Latitude: 33-59'14"N Longitude: 83-40'50"W
Elevation: 259 Surface Temp: 9.5 Stratified: MIXED Site Depth: 1.8
Lake Area: 4 Watershed Area: 168 WA/LA: 44.2 Hydro Type: RESERVOIR
Residence Time: 0.05 Secchi Depth: 1.8 Turbidity: 0.9 Color: 20
Closed pH: 7.85 Equil. pH: 7.63 ANC: 211.9 DOC: 3.70
Closed DIC: 2.13 Equil. DIC: 2.60 Meas. Cond: 33.6 Cal. Cond: 33.9
Ca: 67.9 Mg: 53.5 Na: 166.2 K: 22.5 NH4: 0.5
SO4: 13.1 HCO3: 202.0 Cl: 86.6 NO3: 2.7 F: 2.4
Sum Cations: 310.6 Sum Anions: 307.2 Cations/Anions: 1.01 Tot. P: 11.0
Tot. Al: 34.0 Ext. Al: 1.0 Fe: 50.0 Mn: 0.0 SiO2: 8.58

ID: 3A3-087 Name: CLAYTOR LAKE State: VA Date: 21NOV84
Sample Type: REGULAR Latitude: 37-03'45"N Longitude: 80'36'30"W
Elevation: 563 Surface Temp: 12.4 Stratified: MIXED Site Depth: 35.0
Lake Area: 21091 Watershed Area: 551300 WA/LA: 26.1 Hydro Type: RESERVOIR
Residence Time: 1.56 Secchi Depth: 2.3 Turbidity: 2.0 Color: 20
Closed pH: 7.28 Equil. pH: 8.19 ANC: 789.0 DOC: 1.90
Closed DIC: 10.80 Equil. DIC: 9.10 Meas. Cond: 107.8 Cal. Cond: 116.1
Ca: 457.1 Mg: 352.9 Na: 164.9 K: 44.2 NH4: 43.8
SO4: 141.8 HCO3: 777.2 Cl: 98.2 NO3: 22.5 F: 3.5
Sum Cations: 1062.9 Sum Anions: 1046.6 Cations/Anions: 1.02 Tot. P: 0.0
Tot. Al: 36.0 Ext. Al: 1.0 Fe: 20.0 Mn: 40.0 SiO2: 7.48

ID: 3A3-089 Name: (NO NAME) State: GA Date: 26NOV84
Sample Type: REGULAR Latitude: 34-15'50"N Longitude: 84-09'45"W
Elevation: 344 Surface Temp: 7.4 Stratified: MIXED Site Depth: 2.4
Lake Area: 5 Watershed Area: 404 WA/LA: 77.7 Hydro Type: RESERVOIR
Residence Time: 0.03 Secchi Depth: 1.3 Turbidity: 1.9 Color: 25
Closed pH: 7.47 Equil. pH: 7.94 ANC: 449.9 DOC: 3.70
Closed DIC: 5.23 Equil. DIC: 5.20 Meas. Cond: 58.5 Cal. Cond: 59.1
Ca: 254.0 Mg: 132.4 Na: 133.1 K: 57.0 NH4: 1.3
SO4: 18.3 HCO3: 393.3 Cl: 70.2 NO3: 21.1 F: 2.0
Sum Cations: 577.9 Sum Anions: 505.7 Cations/Anions: 1.14 Tot. P: 17.0
Tot. Al: 247.0 Ext. Al: 3.0 Fe: 140.0 Mn: 130.0 SiO2: 15.14

ID: 3A3-092 Name: SMITH MTN LAKE State: VA Date: 21NOV84
Sample Type: REGULAR Latitude: 37-02'30"N Longitude: 79-35'00"W
Elevation: 242 Surface Temp: 13.8 Stratified: MIXED Site Depth: 56.4
Lake Area: 6867 Watershed Area: 263675 WA/LA: 38.4 Hydro Type: RESERVOIR
Residence Time: 2.51 Secchi Depth: 3.2 Turbidity: 1.2 Color: 10
Closed pH: 7.50 Equil. pH: 8.37 ANC: 1245.1 DOC: 1.60
Closed DIC: 16.67 Equil. DIC: 14.24 Meas. Cond: 179.5 Cal. Cond: 179.0
Ca: 789.9 Mg: 361.1 Na: 282.3 K: 59.3 NH4: 5.8
SO4: 228.6 HCO3: 1264.0 Cl: 224.6 NO3: 16.6 F: 6.8
Sum Cations: 1498.5 Sum Anions: 1750.8 Cations/Anions: 0.86 Tot. P: 4.0
Tot. Al: 40.0 Ext. Al: 1.0 Fe: 0.0 Mn: 0.0 SiO2: 6.54

(continued)

TABLE 3-1 (continued)

ID: 3A3-095 Name: LAKE SIDNEY LANIER State: GA Date: 26NOV84
Sample Type: REGULAR Latitude: 34-11'30"N Longitude: 84-00'00"W
Elevation: 326 Surface Temp: 14.3 Stratified: WEAK Site Depth: 47.5
Lake Area: 13727 Watershed Area: 282913 WA/LA: 20.6 Hydro Type: RESERVOIR
Residence Time: 2.49 Secchi Depth: 3.6 Turbidity: 10.2 Color: 70
Closed pH: 6.84 Equil. pH: 7.55 ANC: 180.5 DOC: 1.00
Closed DIC: 2.82 Equil. DIC: 2.22 Meas. Cond: 30.0 Cal. Cond: 32.1
Ca: 110.3 Mg: 69.9 Na: 81.8 K: 33.2 NH4: 4.1
SO4: 42.9 HCO3: 169.4 Cl: 48.5 NO3: 3.0 F: 1.8
Sum Cations: 299.4 Sum Anions: 265.8 Cations/Anions: 1.13 Tot. P: 6.0
Tot. Al: 28.0 Ext. Al: 1.0 Fe: 30.0 Mn: 30.0 SiO2: 5.04

ID: 3A3-099 Name: (NO NAME) State: GA Date: 26NOV84
Sample Type: REGULAR Latitude: 34-11'47"N Longitude: 84-18'54"W
Elevation: 308 Surface Temp: 7.5 Stratified: MIXED Site Depth: 2.1
Lake Area: 10 Watershed Area: 1246 WA/LA: 123.4 Hydro Type: RESERVOIR
Residence Time: 0.02 Secchi Depth: 1.2 Turbidity: 1.3 Color: 20
Closed pH: 7.48 Equil. pH: 7.88 ANC: 396.0 DOC: 2.00
Closed DIC: 4.68 Equil. DIC: 5.32 Meas. Cond: 52.4 Cal. Cond: 54.3
Ca: 211.1 Mg: 116.0 Na: 135.3 K: 51.4 NH4: 0.8
SO4: 23.3 HCO3: 377.2 Cl: 61.8 NO3: 20.5 F: 1.9
Sum Cations: 514.6 Sum Anions: 485.6 Cations/Anions: 1.06 Tot. P: 19.0
Tot. Al: 171.0 Ext. Al: 2.0 Fe: 180.0 Mn: 40.0 SiO2: 11.49

ID: 3B1-007 Name: (NO NAME) State: FL Date: 09DEC84
Sample Type: REGULAR Latitude: 28-29'22"N Longitude: 81-35'24"W
Elevation: 32 Surface Temp: 16.7 Stratified: MIXED Site Depth: 2.4
Lake Area: 6 Watershed Area: 36 WA/LA: 6.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.7 Turbidity: 5.2 Color: 45
Closed pH: 8.00 Equil. pH: 8.47 ANC: 1649.1 DOC: 6.50
Closed DIC: 20.49 Equil. DIC: 20.42 Meas. Cond: 543.0 Cal. Cond: 666.9
Ca: 1773.9 Mg: 2447.2 Na: 517.6 K: 638.7 NH4: 18.5
SO4: 2477.6 HCO3: 1657.0 Cl: 1060.7 NO3: 36.1 F: 15.8
Sum Cations: 5396.0 Sum Anions: 5263.5 Cations/Anions: 1.03 Tot. P: 30.0
Tot. Al: 28.0 Ext. Al: 11.0 Fe: 1.0 Mn: 61.0 SiO2: 1.45

ID: 3B1-008 Name: LAKE BLANCHE State: FL Date: 08DEC84
Sample Type: REGULAR Latitude: 28-28'48"N Longitude: 81-31'00"W
Elevation: 30 Surface Temp: 18.2 Stratified: MIXED Site Depth: 8.5
Lake Area: 49 Watershed Area: 290 WA/LA: 6.0 Hydro Type: DRAINAGE
Residence Time: 1.56 Secchi Depth: 2.4 Turbidity: 0.6 Color: 40
Closed pH: 6.81 Equil. pH: 7.26 ANC: 162.0 DOC: 7.69
Closed DIC: 2.22 Equil. DIC: 1.78 Meas. Cond: 189.0 Cal. Cond: 218.8
Ca: 476.4 Mg: 676.2 Na: 285.4 K: 210.7 NH4: 3.2
SO4: 974.4 HCO3: 121.7 Cl: 533.2 NO3: 5.0 F: 3.3
Sum Cations: 1652.0 Sum Anions: 1637.7 Cations/Anions: 1.01 Tot. P: 10.0
Tot. Al: 41.0 Ext. Al: 5.0 Fe: 5.0 Mn: 3.0 SiO2: 0.37

ID: 3B1-010 Name: SQUARE LAKE State: FL Date: 08DEC84
Sample Type: REGULAR Latitude: 28-25'31"N Longitude: 81-42'03"W
Elevation: 33 Surface Temp: 16.0 Stratified: MIXED Site Depth: 3.0
Lake Area: 8 Watershed Area: 461 WA/LA: 60.7 Hydro Type: DRAINAGE
Residence Time: 0.16 Secchi Depth: 1.1 Turbidity: 1.1 Color: 150
Closed pH: 6.96 Equil. pH: 7.94 ANC: 305.3 DOC: 19.92
Closed DIC: 3.48 Equil. DIC: 2.62 Meas. Cond: 150.0 Cal. Cond: 154.6
Ca: 447.2 Mg: 489.8 Na: 320.2 K: 132.0 NH4: 2.1
SO4: 322.7 HCO3: 179.7 Cl: 541.6 NO3: 11.0 F: 3.7
Sum Cations: 1391.3 Sum Anions: 1058.9 Cations/Anions: 1.31 Tot. P: 15.0
Tot. Al: 48.0 Ext. Al: 6.0 Fe: 146.0 Mn: 4.0 SiO2: 6.53

(continued)

TABLE 3-1 (continued)

ID: 3B1-013 Name: OSAGE LAKE State: FL Date: 08DEC84
Sample Type: REGULAR Latitude: 28-21'05"N Longitude: 81-38'11"W
Elevation: 33 Surface Temp: 16.4 Stratified: MIXED Site Depth: 2.1
Lake Area: 9 Watershed Area: 31 WA/LA: 3.4 Hydro Type: DRAINAGE
Residence Time: 0.52 Secchi Depth: 1.9 Turbidity: 1.3 Color: 50
Closed pH: 5.38 Equil. pH: 5.59 ANC: -1.1 DOC: 6.78
Closed DIC: 0.92 Equil. DIC: 0.54 Meas. Cond: 48.7 Cal. Cond: 49.6
Ca: 88.5 Mg: 99.3 Na: 174.9 K: 18.8 NH4: 2.5
SO4: 151.4 HCO3: 4.5 Cl: 194.4 NO3: 2.0 F: 2.9
Sum Cations: 387.7 Sum Anions: 355.1 Cations/Anions: 1.09 Tot. P: 17.0
Tot. Al: 77.0 Ext. Al: 29.0 Fe: 32.0 Mn: 15.0 SiO2: 0.10

ID: 3B1-022 Name: OPEN LAKE State: FL Date: 14DEC84
Sample Type: REGULAR Latitude: 30-29'10"N Longitude: 85-42'40"W
Elevation: 26 Surface Temp: 16.5 Stratified: MIXED Site Depth: 7.6
Lake Area: 65 Watershed Area: 218 WA/LA: 3.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.2 Turbidity: 1.7 Color: 5
Closed pH: 5.03 Equil. pH: 4.96 ANC: -21.0 DOC: 0.48
Closed DIC: 0.20 Equil. DIC: 0.18 Meas. Cond: 14.9 Cal. Cond: 16.2
Ca: 14.9 Mg: 22.0 Na: 52.2 K: 2.9 NH4: 0.2
SO4: 37.9 HCO3: 0.7 Cl: 59.8 NO3: 0.3 F: 0.3
Sum Cations: 102.7 Sum Anions: 99.0 Cations/Anions: 1.04 Tot. P: 2.0
Tot. Al: 46.0 Ext. Al: 5.0 Fe: 8.0 Mn: 3.0 SiO2: 1.16

ID: 3B1-025 Name: SPARKLEBERRY LAKE State: FL Date: 14DEC84
Sample Type: REGULAR Latitude: 30-27'40"N Longitude: 85-31'03"W
Elevation: 15 Surface Temp: 16.2 Stratified: MIXED Site Depth: 0.9
Lake Area: 12 Watershed Area: 137 WA/LA: 11.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.9 Turbidity: 0.2 Color: 5
Closed pH: 5.64 Equil. pH: 5.71 ANC: -11.2 DOC: 3.44
Closed DIC: 0.35 Equil. DIC: 0.22 Meas. Cond: 10.9 Cal. Cond: 10.8
Ca: 19.4 Mg: 18.1 Na: 47.3 K: 5.1 NH4: 0.3
SO4: 15.0 HCO3: 4.2 Cl: 49.9 NO3: 0.2 F: 0.3
Sum Cations: 92.0 Sum Anions: 69.7 Cations/Anions: 1.32 Tot. P: 1.0
Tot. Al: 26.0 Ext. Al: 0.0 Fe: 8.0 Mn: 26.0 SiO2: 0.41

ID: 3B1-027 Name: STEVENS LAKE State: FL Date: 11DEC84
Sample Type: REGULAR Latitude: 29-53'30"N Longitude: 82-00'35"W
Elevation: 47 Surface Temp: 15.2 Stratified: MIXED Site Depth: 9.8
Lake Area: 92 Watershed Area: 570 WA/LA: 6.2 Hydro Type: DRAINAGE
Residence Time: 1.80 Secchi Depth: 2.6 Turbidity: 1.3 Color: 20
Closed pH: 4.81 Equil. pH: 4.75 ANC: -23.1 DOC: 0.94
Closed DIC: 0.22 Equil. DIC: 0.20 Meas. Cond: 29.9 Cal. Cond: 31.0
Ca: 25.2 Mg: 42.9 Na: 105.7 K: 2.6 NH4: 0.8
SO4: 82.2 HCO3: 0.3 Cl: 112.3 NO3: 1.8 F: 0.4
Sum Cations: 195.4 Sum Anions: 197.1 Cations/Anions: 0.99 Tot. P: 4.0
Tot. Al: 116.0 Ext. Al: 54.0 Fe: 19.0 Mn: 5.0 SiO2: 1.34

ID: 3B1-029 Name: (NO NAME) State: FL Date: 13DEC84
Sample Type: REGULAR Latitude: 29-46'10"N Longitude: 81-56'45"W
Elevation: 26 Surface Temp: 14.9 Stratified: MIXED Site Depth: 0.9
Lake Area: 131 Watershed Area: 697 WA/LA: 5.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.7 Turbidity: 0.6 Color: 65
Closed pH: 5.44 Equil. pH: 5.65 ANC: 1.6 DOC: 9.04
Closed DIC: 1.02 Equil. DIC: 0.52 Meas. Cond: 38.7 Cal. Cond: 37.0
Ca: 54.6 Mg: 43.9 Na: 85.6 K: 9.5 NH4: 90.4
SO4: 84.9 HCO3: 4.8 Cl: 154.0 NO3: 0.9 F: 0.9
Sum Cations: 286.6 Sum Anions: 245.6 Cations/Anions: 1.17 Tot. P: 12.0
Tot. Al: 135.0 Ext. Al: 14.0 Fe: 160.0 Mn: 51.0 SiO2: 0.04

(continued)

TABLE 3-1 (continued)

ID: 3B1-032 Name: CHIPCO LAKE State: FL Date: 11DEC84
Sample Type: REGULAR Latitude: 29-37'42"N Longitude: 81-53'31"W
Elevation: 26 Surface Temp: 16.0 Stratified: MIXED Site Depth: 8.2
Lake Area: 19 Watershed Area: 67 WA/LA: 3.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.8 Turbidity: 0.8 Color: 10
Closed pH: 5.90 Equil. pH: 5.97 ANC: -9.0 DOC: 1.32
Closed DIC: 0.35 Equil. DIC: 0.33 Meas. Cond: 51.2 Cal. Cond: 52.8
Ca: 88.3 Mg: 76.6 Na: 218.4 K: 18.2 NH4: 0.2
SO4: 189.7 HCO3: 4.0 Cl: 196.6 NO3: 0.6 F: 0.6
Sum Cations: 404.0 Sum Anions: 391.5 Cations/Anions: 1.03 Tot. P: 7.0
Tot. Al: 31.0 Ext. Al: 0.0 Fe: 3.0 Mn: 1.0 SiO2: 0.22

ID: 3B1-033 Name: (NO NAME) State: FL Date: 10DEC84
Sample Type: REGULAR Latitude: 29-37'17"N Longitude: 81-54'38"W
Elevation: 35 Surface Temp: 14.2 Stratified: MIXED Site Depth: 3.0
Lake Area: 6 Watershed Area: 28 WA/LA: 5.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.3 Turbidity: 1.5 Color: 20
Closed pH: 7.36 Equil. pH: 7.43 ANC: 237.4 DOC: 3.70
Closed DIC: 3.04 Equil. DIC: 2.84 Meas. Cond: 41.1 Cal. Cond: 42.1
Ca: 211.2 Mg: 80.8 Na: 110.9 K: 0.6 NH4: 0.7
SO4: 9.3 HCO3: 221.7 Cl: 115.7 NO3: 0.0 F: 1.4
Sum Cations: 404.3 Sum Anions: 348.8 Cations/Anions: 1.16 Tot. P: 22.0
Tot. Al: 14.0 Ext. Al: 0.0 Fe: 42.0 Mn: 1.0 SiO2: 0.47

ID: 3B1-036 Name: CROOKED LAKE State: FL Date: 09DEC84
Sample Type: REGULAR Latitude: 29-09'10"N Longitude: 81-36'10"W
Elevation: 14 Surface Temp: 15.5 Stratified: MIXED Site Depth: 5.0
Lake Area: 17 Watershed Area: 44 WA/LA: 2.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.5 Turbidity: 0.5 Color: 5
Closed pH: 4.78 Equil. pH: 4.78 ANC: -28.4 DOC: 1.35
Closed DIC: 0.60 Equil. DIC: 0.43 Meas. Cond: 34.6 Cal. Cond: 36.1
Ca: 41.4 Mg: 46.3 Na: 129.2 K: 0.9 NH4: 1.3
SO4: 76.4 HCO3: 0.6 Cl: 145.0 NO3: 0.3 F: 2.7
Sum Cations: 239.6 Sum Anions: 225.0 Cations/Anions: 1.06 Tot. P: 7.0
Tot. Al: 67.0 Ext. Al: 36.0 Fe: 8.0 Mn: 17.0 SiO2: 0.08

ID: 3B1-039 Name: (NO NAME) State: FL Date: 10DEC84
Sample Type: REGULAR Latitude: 29-07'06"N Longitude: 81-52'45"W
Elevation: 21 Surface Temp: 16.0 Stratified: MIXED Site Depth: 3.4
Lake Area: 5 Watershed Area: 16 WA/LA: 3.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.6 Turbidity: 1.0 Color: 35
Closed pH: 7.61 Equil. pH: 8.53 ANC: 2249.1 DOC: 8.10
Closed DIC: 27.28 Equil. DIC: 27.77 Meas. Cond: 252.0 Cal. Cond: 274.5
Ca: 1481.0 Mg: 778.4 Na: 194.0 K: 157.8 NH4: 2.8
SO4: 70.0 HCO3: 2231.3 Cl: 222.0 NO3: 2.9 F: 5.2
Sum Cations: 2614.1 Sum Anions: 2549.8 Cations/Anions: 1.03 Tot. P: 29.0
Tot. Al: 23.0 Ext. Al: 0.0 Fe: 20.0 Mn: 5.0 SiO2: 0.94

ID: 3B1-041 Name: PECAN LAKE State: FL Date: 10DEC84
Sample Type: REGULAR Latitude: 29-02'12"N Longitude: 81-53'38"W
Elevation: 26 Surface Temp: 16.9 Stratified: MIXED Site Depth: 6.4
Lake Area: 92 Watershed Area: 202 WA/LA: 2.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.5 Turbidity: 0.6 Color: 10
Closed pH: 5.37 Equil. pH: 5.23 ANC: -14.8 DOC: 1.62
Closed DIC: 0.26 Equil. DIC: 0.29 Meas. Cond: 37.1 Cal. Cond: 38.6
Ca: 30.0 Mg: 76.7 Na: 156.6 K: 12.2 NH4: 0.5
SO4: 118.3 HCO3: 1.2 Cl: 155.2 NO3: 0.0 F: 0.8
Sum Cations: 283.3 Sum Anions: 275.4 Cations/Anions: 1.03 Tot. P: 5.0
Tot. Al: 51.0 Ext. Al: 6.0 Fe: 3.0 Mn: 4.0 SiO2: 0.28

(continued)

TABLE 3-1 (continued)

ID: 3B1-044 Name: HOLLY LAKE State: FL Date: 09DEC84
Sample Type: REGULAR Latitude: 28-56'26"N Longitude: 81-43'00"W
Elevation: 18 Surface Temp: 16.3 Stratified: MIXED Site Depth: 5.5
Lake Area: 38 Watershed Area: 1601 WA/LA: 42.7 Hydro Type: DRAINAGE
Residence Time: 0.39 Secchi Depth: 1.9 Turbidity: 0.9 Color: 55
Closed pH: 7.20 Equil. pH: 7.97 ANC: 406.4 DOC: 11.90
Closed DIC: 5.31 Equil. DIC: 4.40 Meas. Cond: 187.0 Cal. Cond: 193.4
Ca: 305.6 Mg: 493.2 Na: 675.1 K: 200.3 NH4: 2.3
SO4: 231.1 HCO3: 341.0 Cl: 866.0 NO3: 0.0 F: 9.0
Sum Cations: 1676.6 Sum Anions: 1448.6 Cations/Anions: 1.16 Tot. P: 12.0
Tot. Al: 16.0 Ext. Al: 0.0 Fe: 51.0 Mn: 1.0 SiO2: 3.25

ID: 3B1-045 Name: LAKE MARY State: FL Date: 09DEC84
Sample Type: REGULAR Latitude: 28-55'29"N Longitude: 81-40'41"W
Elevation: 20 Surface Temp: 16.1 Stratified: MIXED Site Depth: 3.7
Lake Area: 18 Watershed Area: 34 WA/LA: 1.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.7 Turbidity: 6.8 Color: 50
Closed pH: 7.59 Equil. pH: 8.30 ANC: 961.5 DOC: 9.85
Closed DIC: 11.70 Equil. DIC: 11.15 Meas. Cond: 330.0 Cal. Cond: 375.3
Ca: 835.8 Mg: 1192.8 Na: 816.5 K: 273.4 NH4: 1.2
SO4: 1070.1 HCO3: 882.6 Cl: 981.7 NO3: 2.7 F: 15.6
Sum Cations: 3119.8 Sum Anions: 2959.1 Cations/Anions: 1.05 Tot. P: 43.0
Tot. Al: 14.0 Ext. Al: 3.0 Fe: 0.0 Mn: 1.0 SiO2: 1.55

ID: 3B1-050 Name: BIG LAKE State: FL Date: 08DEC84
Sample Type: REGULAR Latitude: 28-52'07"N Longitude: 81-27'52"W
Elevation: 7 Surface Temp: 16.6 Stratified: MIXED Site Depth: 4.3
Lake Area: 54 Watershed Area: 236 WA/LA: 4.3 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 1.3 Turbidity: 1.9 Color: 85
Closed pH: 6.30 Equil. pH: 6.57 ANC: 71.8 DOC: 13.46
Closed DIC: 1.18 Equil. DIC: 0.82 Meas. Cond: 81.0 Cal. Cond: 82.6
Ca: 225.9 Mg: 103.2 Na: 348.9 K: 27.4 NH4: 0.7
SO4: 104.7 HCO3: 27.9 Cl: 426.0 NO3: 19.2 F: 7.9
Sum Cations: 706.6 Sum Anions: 585.8 Cations/Anions: 1.21 Tot. P: 11.0
Tot. Al: 98.0 Ext. Al: 28.0 Fe: 35.0 Mn: 2.0 SiO2: 0.62

ID: 3B1-051 Name: WILMA LAKE (EAST) State: FL Date: 08DEC84
Sample Type: REGULAR Latitude: 28-32'21"N Longitude: 81-43'49"W
Elevation: 26 Surface Temp: 16.9 Stratified: MIXED Site Depth: 4.0
Lake Area: 7 Watershed Area: 161 WA/LA: 22.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.4 Turbidity: 0.9 Color: 20
Closed pH: 6.88 Equil. pH: 7.33 ANC: 148.4 DOC: 5.17
Closed DIC: 2.20 Equil. DIC: 1.95 Meas. Cond: 106.5 Cal. Cond: 114.0
Ca: 312.2 Mg: 228.7 Na: 277.5 K: 87.6 NH4: 0.5
SO4: 408.1 HCO3: 127.7 Cl: 318.8 NO3: 0.0 F: 4.4
Sum Cations: 906.6 Sum Anions: 859.0 Cations/Anions: 1.06 Tot. P: 12.0
Tot. Al: 28.0 Ext. Al: 0.0 Fe: 5.0 Mn: 3.0 SiO2: 0.14

ID: 3B1-052 Name: (NO NAME) State: FL Date: 08DEC84
Sample Type: REGULAR Latitude: 28-38'19"N Longitude: 81-52'39"W
Elevation: 27 Surface Temp: 15.1 Stratified: MIXED Site Depth: 2.1
Lake Area: 6 Watershed Area: 23 WA/LA: 3.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.4 Turbidity: 7.1 Color: 45
Closed pH: 6.23 Equil. pH: 6.44 ANC: 15.8 DOC: 8.45
Closed DIC: 0.35 Equil. DIC: 0.57 Meas. Cond: 115.4 Cal. Cond: 124.3
Ca: 182.6 Mg: 241.3 Na: 378.9 K: 141.2 NH4: 0.3
SO4: 458.0 HCO3: 11.4 Cl: 440.1 NO3: 0.1 F: 2.5
Sum Cations: 945.5 Sum Anions: 912.1 Cations/Anions: 1.04 Tot. P: 28.0
Tot. Al: 144.0 Ext. Al: 11.0 Fe: 21.0 Mn: 20.0 SiO2: 1.06

(continued)

TABLE 3-1 (continued)

ID: 381-054 Name: (NO NAME) State: FL Date: 13DEC84
Sample Type: REGULAR Latitude: 29-47'24"N Longitude: 81-57'34"W
Elevation: 29 Surface Temp: 14.8 Stratified: MIXED Site Depth: 1.8
Lake Area: 28 Watershed Area: 225 WA/LA: 8.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.0 Turbidity: 2.2 Color: 20
Closed pH: 5.99 Equil. pH: 6.37 ANC: 10.2 DOC: 3.87
Closed DIC: 0.52 Equil. DIC: 0.44 Meas. Cond: 44.6 Cal. Cond: 44.4
Ca: 56.7 Mg: 102.7 Na: 180.0 K: 8.5 NH4: 0.6
SO4: 133.0 HCO3: 13.4 Cl: 189.0 NO3: 0.1 F: 0.9
Sum Cations: 349.1 Sum Anions: 336.5 Cations/Anions: 1.04 Tot. P: 14.0
Tot. Al: 88.0 Ext. Al: 3.0 Fe: 8.0 Mn: 4.0 SiO2: 0.05

ID: 381-055 Name: MARINER LAKE State: FL Date: 11DEC84
Sample Type: REGULAR Latitude: 29-38'45"N Longitude: 81-53'17"W
Elevation: 26 Surface Temp: 15.7 Stratified: MIXED Site Depth: 5.5
Lake Area: 54 Watershed Area: 223 WA/LA: 4.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.7 Turbidity: 0.9 Color: 10
Closed pH: 5.03 Equil. pH: 4.93 ANC: -19.3 DOC: 0.35
Closed DIC: 0.17 Equil. DIC: 0.25 Meas. Cond: 38.2 Cal. Cond: 42.2
Ca: 50.7 Mg: 63.5 Na: 150.1 K: 11.1 NH4: 0.5
SO4: 135.1 HCO3: 0.7 Cl: 165.6 NO3: 0.0 F: 0.6
Sum Cations: 287.1 Sum Anions: 302.0 Cations/Anions: 0.95 Tot. P: 5.0
Tot. Al: 74.0 Ext. Al: 38.0 Fe: 2.0 Mn: 10.0 SiO2: 0.43

ID: 381-057 Name: (NO NAME) State: FL Date: 11DEC84
Sample Type: REGULAR Latitude: 29-00'33"N Longitude: 81-51'52"W
Elevation: 21 Surface Temp: 15.0 Stratified: MIXED Site Depth: 3.7
Lake Area: 6 Watershed Area: 34 WA/LA: 5.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.4 Turbidity: 0.6 Color: 225
Closed pH: 4.34 Equil. pH: 4.30 ANC: -58.7 DOC: 20.18
Closed DIC: 1.09 Equil. DIC: 0.30 Meas. Cond: 42.9 Cal. Cond: 41.5
Ca: 23.4 Mg: 55.3 Na: 137.0 K: 3.9 NH4: 6.5
SO4: 25.4 HCO3: 0.3 Cl: 137.1 NO3: 3.8 F: 0.7
Sum Cations: 274.0 Sum Anions: 167.3 Cations/Anions: 1.64 Tot. P: 32.0
Tot. Al: 96.0 Ext. Al: 23.0 Fe: 146.0 Mn: 4.0 SiO2: 3.64

ID: 381-058 Name: (NO NAME) State: FL Date: 09DEC84
Sample Type: REGULAR Latitude: 28-59'56"N Longitude: 81-52'35"W
Elevation: 25 Surface Temp: 16.8 Stratified: MIXED Site Depth: 11.0
Lake Area: 4 Watershed Area: 21 WA/LA: 4.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.6 Turbidity: 0.7 Color: 15
Closed pH: 7.28 Equil. pH: 7.65 ANC: 348.6 DOC: 3.84
Closed DIC: 4.73 Equil. DIC: 4.08 Meas. Cond: 112.5 Cal. Cond: 114.0
Ca: 169.5 Mg: 550.9 Na: 184.9 K: 95.3 NH4: 5.0
SO4: 154.5 HCO3: 329.7 Cl: 386.5 NO3: 19.0 F: 2.7
Sum Cations: 1005.6 Sum Anions: 893.8 Cations/Anions: 1.13 Tot. P: 5.0
Tot. Al: 27.0 Ext. Al: 11.0 Fe: 0.0 Mn: 0.0 SiO2: 0.36

ID: 381-059 Name: (NO NAME) State: FL Date: 08DEC84
Sample Type: REGULAR Latitude: 28-29'04"N Longitude: 81-34'15"W
Elevation: 30 Surface Temp: 17.8 Stratified: MIXED Site Depth: 5.8
Lake Area: 16 Watershed Area: 85 WA/LA: 5.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.7 Turbidity: 2.3 Color: 20
Closed pH: 7.95 Equil. pH: 8.64 ANC: 1369.1 DOC: 4.70
Closed DIC: 15.71 Equil. DIC: 15.72 Meas. Cond: 399.0 Cal. Cond: 481.8
Ca: 1228.5 Mg: 1702.8 Na: 324.1 K: 537.5 NH4: 0.4
SO4: 1521.9 HCO3: 1163.7 Cl: 1125.6 NO3: 26.8 F: 14.4
Sum Cations: 3793.3 Sum Anions: 3860.8 Cations/Anions: 0.98 Tot. P: 12.0
Tot. Al: 35.0 Ext. Al: 18.0 Fe: 2.0 Mn: 3.0 SiO2: 0.38

(continued)

TABLE 3-1 (continued)

ID: 3B1-061 Name: (NO NAME) State: FL Date: 09DEC84
Sample Type: REGULAR Latitude: 28-59'04"N Longitude: 81-45'15"W
Elevation: 18 Surface Temp: 14.5 Stratified: MIXED Site Depth: 3.0
Lake Area: 26 Watershed Area: 109 WA/LA: 4.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.0 Turbidity: 0.4 Color: 25
Closed pH: 5.76 Equil. pH: 6.30 ANC: 11.4 DOC: 5.19
Closed DIC: 1.20 Equil. DIC: 0.48 Meas. Cond: 37.0 Cal. Cond: 33.8
Ca: 21.9 Mg: 103.7 Na: 164.9 K: 0.5 NH4: 1.7
SO4: 24.8 HCO3: 18.2 Cl: 203.7 NO3: 0.6 F: 0.6
Sum Cations: 293.1 Sum Anions: 247.9 Cations/Anions: 1.18 Tot. P: 5.0
Tot. Al: 18.0 Ext. Al: 0.0 Fe: 18.0 Mn: 5.0 SiO2: 0.34

ID: 3B1-064 Name: HOMESTEAD POND State: FL Date: 14DEC84
Sample Type: REGULAR Latitude: 30-31'17"N Longitude: 85-42'15"W
Elevation: 28 Surface Temp: 16.3 Stratified: MIXED Site Depth: 9.8
Lake Area: 8 Watershed Area: 31 WA/LA: 4.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 5.5 Turbidity: 0.5 Color: 5
Closed pH: 5.03 Equil. pH: 4.93 ANC: -20.1 DOC: 0.58
Closed DIC: 0.28 Equil. DIC: 0.17 Meas. Cond: 14.2 Cal. Cond: 15.3
Ca: 11.9 Mg: 23.4 Na: 45.4 K: 2.3 NH4: 0.3
SO4: 36.4 HCO3: 0.7 Cl: 52.8 NO3: 0.3 F: 0.3
Sum Cations: 94.6 Sum Anions: 90.4 Cations/Anions: 1.05 Tot. P: 1.0
Tot. Al: 34.0 Ext. Al: 11.0 Fe: 4.0 Mn: 2.0 SiO2: 0.90

ID: 3B1-065 Name: (NO NAME) State: FL Date: 09DEC84
Sample Type: REGULAR Latitude: 28-57'30"N Longitude: 81-38'48"W
Elevation: 21 Surface Temp: 16.4 Stratified: MIXED Site Depth: 4.6
Lake Area: 29 Watershed Area: 205 WA/LA: 7.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.2 Turbidity: 0.9 Color: 20
Closed pH: 7.07 Equil. pH: 7.37 ANC: 187.7 DOC: 6.49
Closed DIC: 2.46 Equil. DIC: 2.01 Meas. Cond: 161.0 Cal. Cond: 175.9
Ca: 284.0 Mg: 631.9 Na: 347.1 K: 140.5 NH4: 1.1
SO4: 566.3 HCO3: 156.5 Cl: 583.9 NO3: 10.2 F: 2.9
Sum Cations: 1404.6 Sum Anions: 1320.2 Cations/Anions: 1.06 Tot. P: 9.0
Tot. Al: 200.0 Ext. Al: 9.0 Fe: 1.0 Mn: 0.0 SiO2: 0.18

ID: 3B1-067 Name: BULLOCK LAKE State: FL Date: 05DEC84
Sample Type: REGULAR Latitude: 28-18'10"N Longitude: 81-10'25"W
Elevation: 19 Surface Temp: 21.2 Stratified: MIXED Site Depth: 2.1
Lake Area: 30 Watershed Area: 93 WA/LA: 3.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.4 Turbidity: 2.3 Color: 300
Closed pH: 4.54 Equil. pH: 4.54 ANC: -37.3 DOC: 36.91
Closed DIC: 0.73 Equil. DIC: 0.54 Meas. Cond: 81.3 Cal. Cond: 80.1
Ca: 124.3 Mg: 168.6 Na: 328.0 K: 13.4 NH4: 3.5
SO4: 67.7 HCO3: 0.3 Cl: 349.8 NO3: 16.8 F: 1.6
Sum Cations: 674.1 Sum Anions: 436.1 Cations/Anions: 1.55 Tot. P: 14.0
Tot. Al: 310.0 Ext. Al: 133.0 Fe: 874.0 Mn: 17.0 SiO2: 0.14

ID: 3B1-068 Name: (NO NAME) State: FL Date: 09DEC84
Sample Type: REGULAR Latitude: 28-29'15"N Longitude: 81-35'35"W
Elevation: 32 Surface Temp: 17.2 Stratified: MIXED Site Depth: 6.7
Lake Area: 11 Watershed Area: 150 WA/LA: 14.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.4 Turbidity: 1.9 Color: 40
Closed pH: 7.78 Equil. pH: 8.52 ANC: 1472.8 DOC: 9.01
Closed DIC: 17.32 Equil. DIC: 16.77 Meas. Cond: 497.0 Cal. Cond: 601.9
Ca: 1487.0 Mg: 2210.3 Na: 615.5 K: 578.4 NH4: 1.1
SO4: 2227.7 HCO3: 1345.3 Cl: 1088.9 NO3: 0.0 F: 14.3
Sum Cations: 4892.4 Sum Anions: 4689.7 Cations/Anions: 1.04 Tot. P: 28.0
Tot. Al: 31.0 Ext. Al: 3.0 Fe: 0.0 Mn: 1.0 SiO2: 2.72

(continued)

TABLE 3-1 (continued)

ID: 3B1-069 Name: LAKE ROSA State: FL Date: 11DEC84
Sample Type: REGULAR Latitude: 29-42'42"N Longitude: 82-00'27"W
Elevation: 30 Surface Temp: 16.7 Stratified: MIXED Site Depth: 11.3
Lake Area: 43 Watershed Area: 163 WA/LA: 3.8 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 5.8 Turbidity: 0.6 Color: 5
Closed pH: 5.03 Equil. pH: 4.92 ANC: -22.1 DOC: 0.31
Closed DIC: 0.28 Equil. DIC: 0.22 Meas. Cond: 36.0 Cal. Cond: 39.3
Ca: 48.1 Mg: 56.5 Na: 143.5 K: 8.5 NH4: 0.2
SO4: 128.5 HCO3: 0.6 Cl: 151.2 NO3: 0.4 F: 0.7
Sum Cations: 267.5 Sum Anions: 281.4 Cations/Anions: 0.95 Tot. P: 4.0
Tot. Al: 42.0 Ext. Al: 11.0 Fe: 2.0 Mn: 12.0 SiO2: 0.71

ID: 3B1-072 Name: LAKE EMMA State: FL Date: 08DEC84
Sample Type: REGULAR Latitude: 28-36'45"N Longitude: 81-51'10"W
Elevation: 29 Surface Temp: 16.9 Stratified: MIXED Site Depth: 6.4
Lake Area: 69 Watershed Area: * WA/LA: * Hydro Type: DRAINAGE
Residence Time: * Secchi Depth: 2.5 Turbidity: 0.9 Color: 75
Closed pH: 6.57 Equil. pH: 6.95 ANC: 79.8 DOC: 15.79
Closed DIC: 0.79 Equil. DIC: 0.68 Meas. Cond: 92.9 Cal. Cond: 92.0
Ca: 242.0 Mg: 187.6 Na: 332.8 K: 45.2 NH4: 0.9
SO4: 127.8 HCO3: 32.0 Cl: 462.6 NO3: 3.4 F: 4.6
Sum Cations: 808.7 Sum Anions: 630.5 Cations/Anions: 1.28 Tot. P: 10.0
Tot. Al: 67.0 Ext. Al: 8.0 Fe: 122.0 Mn: 3.0 SiO2: 0.78

ID: 3B1-073 Name: LAKE DOYLE State: FL Date: 08DEC84
Sample Type: REGULAR Latitude: 28-51'43"N Longitude: 81-11'39"W
Elevation: 7 Surface Temp: 16.4 Stratified: MIXED Site Depth: 2.1
Lake Area: 20 Watershed Area: 109 WA/LA: 5.5 Hydro Type: DRAINAGE
Residence Time: 0.40 Secchi Depth: 2.8 Turbidity: 0.9 Color: 25
Closed pH: 4.57 Equil. pH: 4.57 ANC: -36.7 DOC: 5.39
Closed DIC: 0.43 Equil. DIC: 0.24 Meas. Cond: 64.8 Cal. Cond: 70.4
Ca: 58.5 Mg: 107.9 Na: 248.4 K: 24.4 NH4: 1.3
SO4: 197.2 HCO3: 0.2 Cl: 274.2 NO3: 0.7 F: 1.1
Sum Cations: 469.4 Sum Anions: 473.4 Cations/Anions: 0.99 Tot. P: 9.0
Tot. Al: 75.0 Ext. Al: 40.0 Fe: 16.0 Mn: 3.0 SiO2: 0.06

ID: 3B1-077 Name: SELLERS LAKE State: FL Date: 09DEC84
Sample Type: REGULAR Latitude: 29-06'43"N Longitude: 81-38'15"W
Elevation: 15 Surface Temp: 16.3 Stratified: MIXED Site Depth: 7.9
Lake Area: 160 Watershed Area: 1233 WA/LA: 7.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.3 Turbidity: 0.5 Color: 5
Closed pH: 4.66 Equil. pH: 4.64 ANC: -32.5 DOC: 0.38
Closed DIC: 0.25 Equil. DIC: 0.16 Meas. Cond: 47.3 Cal. Cond: 48.6
Ca: 39.2 Mg: 56.0 Na: 185.3 K: 7.1 NH4: 0.7
SO4: 125.8 HCO3: 0.3 Cl: 187.0 NO3: 1.3 F: 1.2
Sum Cations: 314.0 Sum Anions: 315.6 Cations/Anions: 1.00 Tot. P: 5.0
Tot. Al: 154.0 Ext. Al: 121.0 Fe: 4.0 Mn: 22.0 SiO2: 0.08

ID: 3B1-078 Name: ROUND LAKE State: FL Date: 10DEC84
Sample Type: REGULAR Latitude: 29-07'22"N Longitude: 81-54'18"W
Elevation: 19 Surface Temp: 17.0 Stratified: MIXED Site Depth: 6.4
Lake Area: 10 Watershed Area: 23 WA/LA: 2.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.5 Turbidity: 0.6 Color: 5
Closed pH: 5.07 Equil. pH: 4.99 ANC: -19.6 DOC: 1.14
Closed DIC: 0.45 Equil. DIC: 0.22 Meas. Cond: 35.3 Cal. Cond: 37.3
Ca: 27.8 Mg: 52.8 Na: 173.1 K: 2.5 NH4: 0.7
SO4: 93.5 HCO3: 0.9 Cl: 158.3 NO3: 0.1 F: 0.7
Sum Cations: 269.3 Sum Anions: 253.4 Cations/Anions: 1.06 Tot. P: 4.0
Tot. Al: 30.0 Ext. Al: 11.0 Fe: 4.0 Mn: 10.0 SiO2: 0.11

(continued)

TABLE 3-1 (continued)

ID: 3B1-079 Name: LAKE GLONA State: FL Date: 08DEC84
Sample Type: REGULAR Latitude: 28-28'57"N Longitude: 81-47'22"W
Elevation: 31 Surface Temp: 16.2 Stratified: MIXED Site Depth: 1.8
Lake Area: 64 Watershed Area: * WA/LA: * Hydro Type: DRAINAGE
Residence Time: * Secchi Depth: 1.4 Turbidity: 1.1 Color: 105
Closed pH: 6.56 Equil. pH: 6.68 ANC: 95.5 DOC: 17.65
Closed DIC: 1.18 Equil. DIC: 0.96 Meas. Cond: 103.3 Cal. Cond: 103.5
Ca: 200.3 Mg: 292.5 Na: 288.0 K: 120.7 NH4: 0.9
SO4: 126.6 HCO3: 47.0 Cl: 524.7 NO3: 1.5 F: 3.9
Sum Cations: 902.8 Sum Anions: 703.7 Cations/Anions: 1.28 Tot. P: 14.0
Tot. Al: 85.0 Ext. Al: 12.0 Fe: 144.0 Mn: 3.0 SiO2: 0.29

ID: 3B1-083 Name: (NO NAME) State: FL Date: 09DEC84
Sample Type: REGULAR Latitude: 28-58'35"N Longitude: 81-51'48"W
Elevation: 21 Surface Temp: 15.2 Stratified: MIXED Site Depth: 2.1
Lake Area: 11 Watershed Area: 54 WA/LA: 4.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.4 Turbidity: 2.3 Color: 45
Closed pH: 7.18 Equil. pH: 7.91 ANC: 370.0 DOC: 10.95
Closed DIC: 4.66 Equil. DIC: 3.83 Meas. Cond: 141.0 Cal. Cond: 144.5
Ca: 273.8 Mg: 623.0 Na: 235.8 K: 148.1 NH4: 1.4
SO4: 152.0 HCO3: 298.1 Cl: 609.3 NO3: 0.5 F: 6.1
Sum Cations: 1282.1 Sum Anions: 1067.1 Cations/Anions: 1.20 Tot. P: 19.0
Tot. Al: 33.0 Ext. Al: 3.0 Fe: 4.0 Mn: 0.0 SiO2: 0.08

ID: 3B1-087 Name: BOGGY MARSH State: FL Date: 08DEC84
Sample Type: REGULAR Latitude: 28-23'15"N Longitude: 81-42'02"W
Elevation: 36 Surface Temp: 15.3 Stratified: MIXED Site Depth: 4.7
Lake Area: 114 Watershed Area: 427 WA/LA: 3.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.3 Turbidity: 0.6 Color: 250
Closed pH: 5.09 Equil. pH: 5.39 ANC: 44.0 DOC: 32.56
Closed DIC: 2.50 Equil. DIC: 2.44 Meas. Cond: 77.0 Cal. Cond: 72.7
Ca: 152.8 Mg: 156.8 Na: 294.5 K: 63.2 NH4: 7.4
SO4: 10.9 HCO3: 8.6 Cl: 414.7 NO3: 0.0 F: 3.7
Sum Cations: 681.1 Sum Anions: 437.9 Cations/Anions: 1.56 Tot. P: 11.0
Tot. Al: 69.0 Ext. Al: 15.0 Fe: 918.0 Mn: 48.0 SiO2: 7.48

ID: 3B1-088 Name: COOK LAKE State: FL Date: 08DEC84
Sample Type: REGULAR Latitude: 28-35'27"N Longitude: 81-48'30"W
Elevation: 29 Surface Temp: 15.6 Stratified: MIXED Site Depth: 3.0
Lake Area: 9 Watershed Area: * WA/LA: * Hydro Type: DRAINAGE
Residence Time: * Secchi Depth: 1.8 Turbidity: 0.9 Color: 100
Closed pH: 6.18 Equil. pH: 6.83 ANC: 87.8 DOC: 19.03
Closed DIC: 1.71 Equil. DIC: 0.90 Meas. Cond: 95.1 Cal. Cond: 93.5
Ca: 246.3 Mg: 188.5 Na: 355.8 K: 49.6 NH4: 0.9
SO4: 102.4 HCO3: 34.5 Cl: 485.2 NO3: 1.6 F: 4.5
Sum Cations: 841.7 Sum Anions: 628.2 Cations/Anions: 1.34 Tot. P: 16.0
Tot. Al: 94.0 Ext. Al: 19.0 Fe: 171.0 Mn: 7.0 SiO2: 1.90

ID: 3B1-089 Name: (NO NAME) State: FL Date: 10DEC84
Sample Type: REGULAR Latitude: 29-36'30"N Longitude: 81-58'25"W
Elevation: 29 Surface Temp: 15.7 Stratified: MIXED Site Depth: 6.7
Lake Area: 5 Watershed Area: 28 WA/LA: 5.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.4 Turbidity: 0.8 Color: 10
Closed pH: 5.82 Equil. pH: 6.20 ANC: 7.0 DOC: 1.90
Closed DIC: 0.88 Equil. DIC: 0.32 Meas. Cond: 33.4 Cal. Cond: 33.2
Ca: 54.8 Mg: 48.1 Na: 147.2 K: 9.3 NH4: 1.1
SO4: 99.6 HCO3: 14.2 Cl: 136.1 NO3: 0.7 F: 0.7
Sum Cations: 261.1 Sum Anions: 251.3 Cations/Anions: 1.04 Tot. P: 8.5
Tot. Al: 55.0 Ext. Al: 0.0 Fe: 9.0 Mn: 0.5 SiO2: 0.25

(continued)

TABLE 3-1 (continued)

ID: 3B1-090 Name: BLUE POND State: FL Date: 11DEC84
Sample Type: REGULAR Latitude: 29-52'30"N Longitude: 82-01'30"W
Elevation: 53 Surface Temp: 15.4 Stratified: MIXED Site Depth: 7.9
Lake Area: 80 Watershed Area: 438 WA/LA: 5.5 Hydro Type: DRAINAGE
Residence Time: 1.57 Secchi Depth: 2.4 Turbidity: 1.8 Color: 25
Closed pH: 4.41 Equil. pH: 4.38 ANC: -51.4 DOC: 1.14
Closed DIC: 0.28 Equil. DIC: 0.23 Meas. Cond: 42.6 Cal. Cond: 45.4
Ca: 16.7 Mg: 48.5 Na: 139.6 K: 1.5 NH4: 1.1
SO4: 111.0 HCO3: 0.2 Cl: 149.5 NO3: 1.4 F: 0.5
Sum Cations: 248.2 Sum Anions: 262.5 Cations/Anions: 0.95 Tot. P: 8.0
Tot. Al: 96.0 Ext. Al: 74.0 Fe: 49.0 Mn: 2.0 SiO2: 1.44

ID: 3B1-091 Name: LITTLE FISH LAKE State: FL Date: 08DEC84
Sample Type: REGULAR Latitude: 28-24'05"N Longitude: 81-30'47"W
Elevation: 30 Surface Temp: 17.2 Stratified: MIXED Site Depth: 4.3
Lake Area: 9 Watershed Area: * WA/LA: * Hydro Type: DRAINAGE
Residence Time: * Secchi Depth: 0.6 Turbidity: 1.5 Color: 150
Closed pH: 5.06 Equil. pH: 5.13 ANC: 1.1 DOC: 16.60
Closed DIC: 1.49 Equil. DIC: 0.43 Meas. Cond: 139.0 Cal. Cond: 148.9
Ca: 263.0 Mg: 400.8 Na: 330.6 K: 151.7 NH4: 7.5
SO4: 474.7 HCO3: 1.0 Cl: 536.0 NO3: 18.2 F: 2.1
Sum Cations: 1163.4 Sum Anions: 1032.0 Cations/Anions: 1.13 Tot. P: 17.0
Tot. Al: 220.0 Ext. Al: 89.0 Fe: 198.0 Mn: 13.0 SiO2: 1.84

ID: 3B1-093 Name: REEDY LAKE State: FL Date: 08DEC84
Sample Type: REGULAR Latitude: 28-24'55"N Longitude: 81-36'48"W
Elevation: 29 Surface Temp: 17.0 Stratified: MIXED Site Depth: 3.4
Lake Area: 53 Watershed Area: * WA/LA: * Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.2 Turbidity: 2.9 Color: 225
Closed pH: 5.68 Equil. pH: 5.61 ANC: 51.3 DOC: 28.88
Closed DIC: 0.69 Equil. DIC: 0.36 Meas. Cond: 110.1 Cal. Cond: 95.5
Ca: 350.7 Mg: 224.4 Na: 379.8 K: 50.5 NH4: 1.4
SO4: 258.2 HCO3: 3.6 Cl: 232.2 NO3: 3.1 F: 2.6
Sum Cations: 1009.8 Sum Anions: 499.7 Cations/Anions: 2.02 Tot. P: 57.0
Tot. Al: 151.0 Ext. Al: 47.0 Fe: 246.0 Mn: 13.0 SiO2: 5.05

ID: 3B1-097 Name: CLEAR LAKE State: FL Date: 10DEC84
Sample Type: REGULAR Latitude: 29-10'42"N Longitude: 81-52'06"W
Elevation: 16 Surface Temp: 15.9 Stratified: MIXED Site Depth: 4.3
Lake Area: 16 Watershed Area: 54 WA/LA: 3.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.7 Turbidity: 0.5 Color: 25
Closed pH: 6.35 Equil. pH: 6.92 ANC: 72.7 DOC: 6.04
Closed DIC: 1.77 Equil. DIC: 0.86 Meas. Cond: 47.9 Cal. Cond: 47.7
Ca: 102.5 Mg: 126.9 Na: 177.0 K: 7.5 NH4: 1.6
SO4: 121.8 HCO3: 59.6 Cl: 167.6 NO3: 0.8 F: 1.3
Sum Cations: 415.7 Sum Anions: 351.1 Cations/Anions: 1.18 Tot. P: 4.0
Tot. Al: 21.0 Ext. Al: 0.0 Fe: 10.0 Mn: 1.0 SiO2: 0.07

ID: 3B1-098 Name: (NO NAME) State: FL Date: 14DEC84
Sample Type: REGULAR Latitude: 30-29'32"N Longitude: 85-48'40"W
Elevation: 13 Surface Temp: 15.5 Stratified: MIXED Site Depth: 5.0
Lake Area: 6 Watershed Area: 18 WA/LA: 3.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 5.0 Turbidity: 0.3 Color: 10
Closed pH: 6.39 Equil. pH: 6.60 ANC: 27.1 DOC: 3.31
Closed DIC: 0.72 Equil. DIC: 0.50 Meas. Cond: 22.7 Cal. Cond: 22.1
Ca: 105.2 Mg: 25.9 Na: 54.0 K: 1.5 NH4: 0.7
SO4: 64.3 HCO3: 35.4 Cl: 62.9 NO3: 0.2 F: 0.8
Sum Cations: 187.4 Sum Anions: 163.6 Cations/Anions: 1.15 Tot. P: 3.0
Tot. Al: 16.0 Ext. Al: 0.0 Fe: 1.0 Mn: 3.0 SiO2: 0.11

(continued)

TABLE 3-1 (continued)

ID: 381-099 Name: (NO NAME) State: FL Date: 10DEC84
Sample Type: REGULAR Latitude: 29-37'07"N Longitude: 81-53'52"W
Elevation: 29 Surface Temp: 14.1 Stratified: MIXED Site Depth: 3.0
Lake Area: 10 Watershed Area: 26 WA/LA: 2.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.9 Turbidity: 6.2 Color: 10
Closed pH: 6.72 Equil. pH: 6.97 ANC: 70.8 DOC: 2.82
Closed DIC: 1.43 Equil. DIC: 1.15 Meas. Cond: 33.6 Cal. Cond: 33.5
Ca: 92.1 Mg: 85.5 Na: 97.9 K: 8.4 NH4: 1.3
SO4: 53.5 HCO3: 74.5 Cl: 132.9 NO3: 0.2 F: 1.2
Sum Cations: 285.2 Sum Anions: 262.3 Cations/Anions: 1.09 Tot. P: 13.0
Tot. Al: 43.0 Ext. Al: 0.0 Fe: 21.0 Mn: 1.0 SiO2: 0.06

ID: 381-105 Name: (NO NAME) State: FL Date: 09DEC84
Sample Type: REGULAR Latitude: 29-09'46"N Longitude: 81-36'57"W
Elevation: 14 Surface Temp: 15.7 Stratified: MIXED Site Depth: 6.4
Lake Area: 6 Watershed Area: 21 WA/LA: 3.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.1 Turbidity: 0.5 Color: 5
Closed pH: 4.45 Equil. pH: 4.45 ANC: -46.1 DOC: 0.29
Closed DIC: 0.30 Equil. DIC: 0.12 Meas. Cond: 55.5 Cal. Cond: 57.6
Ca: 39.6 Mg: 82.8 Na: 169.2 K: 13.3 NH4: 0.5
SO4: 193.4 HCO3: 0.1 Cl: 155.2 NO3: 0.6 F: 0.8
Sum Cations: 345.2 Sum Anions: 350.1 Cations/Anions: 0.99 Tot. P: 2.0
Tot. Al: 270.0 Ext. Al: 220.0 Fe: 8.0 Mn: 18.0 SiO2: 0.10

ID: 381-106 Name: (NO NAME) State: FL Date: 10DEC84
Sample Type: REGULAR Latitude: 29-34'45"N Longitude: 81-57'17"W
Elevation: 26 Surface Temp: 15.1 Stratified: MIXED Site Depth: 4.3
Lake Area: 9 Watershed Area: 57 WA/LA: 6.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.7 Turbidity: 1.8 Color: 10
Closed pH: 4.72 Equil. pH: 4.65 ANC: -30.6 DOC: 0.39
Closed DIC: 0.31 Equil. DIC: 0.23 Meas. Cond: 50.1 Cal. Cond: 52.9
Ca: 63.7 Mg: 58.7 Na: 180.5 K: 11.3 NH4: 0.7
SO4: 204.9 HCO3: 0.3 Cl: 154.6 NO3: 0.4 F: 1.1
Sum Cations: 337.2 Sum Anions: 361.2 Cations/Anions: 0.93 Tot. P: 3.0
Tot. Al: 136.0 Ext. Al: 112.0 Fe: 9.0 Mn: 22.0 SiO2: 0.09

ID: 381-113 Name: BLACK LAKE State: FL Date: 14DEC84
Sample Type: REGULAR Latitude: 30-31'48"N Longitude: 85-45'14"W
Elevation: 31 Surface Temp: 15.7 Stratified: MIXED Site Depth: 8.8
Lake Area: 9 Watershed Area: 124 WA/LA: 13.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.4 Turbidity: 0.7 Color: 15
Closed pH: 5.28 Equil. pH: 5.26 ANC: -14.2 DOC: 2.92
Closed DIC: 0.38 Equil. DIC: 0.26 Meas. Cond: 16.1 Cal. Cond: 15.7
Ca: 15.6 Mg: 28.5 Na: 55.5 K: 8.4 NH4: 4.5
SO4: 33.7 HCO3: 1.7 Cl: 64.3 NO3: 0.8 F: 0.4
Sum Cations: 117.6 Sum Anions: 100.9 Cations/Anions: 1.17 Tot. P: 8.0
Tot. Al: 36.0 Ext. Al: 0.0 Fe: 33.0 Mn: 14.0 SiO2: 0.48

ID: 381-114 Name: LONG POND State: FL Date: 13DEC84
Sample Type: REGULAR Latitude: 29-40'39"N Longitude: 81-54'15"W
Elevation: 26 Surface Temp: 14.8 Stratified: MIXED Site Depth: 2.1
Lake Area: 23 Watershed Area: 98 WA/LA: 4.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.1 Turbidity: 0.8 Color: 20
Closed pH: 5.15 Equil. pH: 5.04 ANC: -35.8 DOC: 3.35
Closed DIC: 0.59 Equil. DIC: 0.32 Meas. Cond: 32.6 Cal. Cond: 33.2
Ca: 18.4 Mg: 42.5 Na: 166.8 K: 8.2 NH4: 0.3
SO4: 58.7 HCO3: 1.3 Cl: 171.8 NO3: 1.4 F: 0.5
Sum Cations: 244.3 Sum Anions: 233.7 Cations/Anions: 1.05 Tot. P: 5.0
Tot. Al: 52.0 Ext. Al: 15.0 Fe: 10.0 Mn: 18.0 SiO2: 0.04

(continued)

TABLE 3-1 (continued)

ID: 3B1-116 Name: (NO NAME) State: FL Date: 09DEC84
Sample Type: REGULAR Latitude: 28-56'28"N Longitude: 81-40'15"W
Elevation: 30 Surface Temp: 16.9 Stratified: MIXED Site Depth: 8.2
Lake Area: 6 Watershed Area: 31 WA/LA: 5.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.6 Turbidity: 2.1 Color: 25
Closed pH: 7.39 Equil. pH: 8.43 ANC: 633.4 DOC: 5.74
Closed DIC: 7.95 Equil. DIC: 7.15 Meas. Cond: 333.0 Cal. Cond: 359.6
Ca: 676.6 Mg: 1325.2 Na: 452.4 K: 347.6 NH4: 22.0
SO4: 1615.6 HCO3: 565.1 Cl: 558.8 NO3: 17.9 F: 13.9
Sum Cations: 2823.9 Sum Anions: 2774.1 Cations/Anions: 1.02 Tot. P: 15.0
Tot. Al: 37.0 Ext. Al: 5.0 Fe: 0.0 Mn: 0.0 SiO2: 0.18

ID: 3B1-130 Name: PAYNE LAKE State: FL Date: 14DEC84
Sample Type: REGULAR Latitude: 30-33'25"N Longitude: 85-39'55"W
Elevation: 22 Surface Temp: 14.5 Stratified: MIXED Site Depth: 4.6
Lake Area: 8 Watershed Area: 70 WA/LA: 8.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 5.0 Turbidity: 0.2 Color: 10
Closed pH: 5.06 Equil. pH: 4.96 ANC: -20.7 DOC: 2.99
Closed DIC: 0.47 Equil. DIC: 0.22 Meas. Cond: 17.6 Cal. Cond: 18.8
Ca: 33.1 Mg: 24.2 Na: 51.4 K: 5.8 NH4: 1.5
SO4: 53.7 HCO3: 1.0 Cl: 56.7 NO3: 1.6 F: 0.6
Sum Cations: 126.4 Sum Anions: 113.7 Cations/Anions: 1.11 Tot. P: 6.0
Tot. Al: 20.0 Ext. Al: 2.0 Fe: 7.0 Mn: 29.0 SiO2: 0.07

ID: 3B1-132 Name: OCHEESEE POND State: FL Date: 14DEC84
Sample Type: REGULAR Latitude: 30-39'52"N Longitude: 84-58'15"W
Elevation: 35 Surface Temp: 13.9 Stratified: MIXED Site Depth: 4.9
Lake Area: 65 Watershed Area: 3978 WA/LA: 61.0 Hydro Type: DRAINAGE
Residence Time: 0.09 Secchi Depth: 3.4 Turbidity: 0.7 Color: 25
Closed pH: 5.84 Equil. pH: 6.37 ANC: 21.1 DOC: 6.30
Closed DIC: 1.21 Equil. DIC: 0.47 Meas. Cond: 17.4 Cal. Cond: 16.0
Ca: 39.3 Mg: 36.6 Na: 63.4 K: 9.2 NH4: 0.8
SO4: 12.4 HCO3: 22.4 Cl: 73.6 NO3: 0.3 F: 1.2
Sum Cations: 149.7 Sum Anions: 109.9 Cations/Anions: 1.36 Tot. P: 9.0
Tot. Al: 86.0 Ext. Al: 0.0 Fe: 48.0 Mn: 30.0 SiO2: 0.65

ID: 3B1-140 Name: TURKEY PEN POND State: FL Date: 14DEC84
Sample Type: REGULAR Latitude: 30-33'21"N Longitude: 85-17'12"W
Elevation: 34 Surface Temp: 15.5 Stratified: MIXED Site Depth: 7.0
Lake Area: 7 Watershed Area: 65 WA/LA: 9.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.5 Turbidity: 0.6 Color: 5
Closed pH: 4.87 Equil. pH: 4.83 ANC: -23.8 DOC: 1.60
Closed DIC: 0.48 Equil. DIC: 0.21 Meas. Cond: 16.7 Cal. Cond: 18.7
Ca: 18.4 Mg: 18.6 Na: 50.4 K: 7.4 NH4: 2.3
SO4: 52.7 HCO3: 0.7 Cl: 53.0 NO3: 2.0 F: 0.4
Sum Cations: 111.2 Sum Anions: 108.8 Cations/Anions: 1.02 Tot. P: 2.0
Tot. Al: 91.0 Ext. Al: 15.0 Fe: 10.0 Mn: 47.0 SiO2: 0.08

ID: 3B2-001 Name: OHIO LAKE State: GA Date: 13DEC84
Sample Type: REGULAR Latitude: 31-01'02"N Longitude: 82-12'15"W
Elevation: 37 Surface Temp: 13.2 Stratified: MIXED Site Depth: 0.9
Lake Area: 6 Watershed Area: * WA/LA: * Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.0 Turbidity: 0.4 Color: 200
Closed pH: 4.06 Equil. pH: 4.05 ANC: -116.9 DOC: 35.10
Closed DIC: 3.98 Equil. DIC: 1.51 Meas. Cond: 53.5 Cal. Cond: 54.9
Ca: 12.5 Mg: 38.4 Na: 145.9 K: 1.2 NH4: 2.4
SO4: 3.1 HCO3: 0.4 Cl: 161.6 NO3: 0.2 F: 0.7
Sum Cations: 291.6 Sum Anions: 166.1 Cations/Anions: 1.76 Tot. P: 6.0
Tot. Al: 106.0 Ext. Al: 15.0 Fe: 476.0 Mn: 8.0 SiO2: 4.06

(continued)

TABLE 3-1 (continued)

ID: 3B2-003 Name: DOUBLE LAKES (SOUTH) State: GA Date: 13DEC84
Sample Type: REGULAR Latitude: 30-58'50"N Longitude: 82-11'45"W
Elevation: 38 Surface Temp: 12.9 Stratified: MIXED Site Depth: 0.9
Lake Area: 14 Watershed Area: * WA/LA: * Hydro Type: DRAINAGE
Residence Time: * Secchi Depth: 1.3 Turbidity: 0.5 Color: 150
Closed pH: 4.33 Equil. pH: 4.28 ANC: -62.7 DOC: 25.90
Closed DIC: 1.16 Equil. DIC: 0.58 Meas. Cond: 41.2 Cal. Cond: 41.8
Ca: 21.7 Mg: 43.4 Na: 145.1 K: 3.7 NH4: 7.4
SO4: 7.8 HCO3: 0.3 Cl: 155.4 NO3: 0.8 F: 0.8
Sum Cations: 271.5 Sum Anions: 165.1 Cations/Anions: 1.64 Tot. P: 8.0
Tot. Al: 116.0 Ext. Al: 30.0 Fe: 501.0 Mn: 11.0 SiO2: 1.63

ID: 3B2-005 Name: DURDIN LAKE State: GA Date: 13DEC84
Sample Type: REGULAR Latitude: 30-53'13"N Longitude: 82-08'50"W
Elevation: 37 Surface Temp: 12.9 Stratified: MIXED Site Depth: 1.1
Lake Area: 5 Watershed Area: * WA/LA: * Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.9 Turbidity: 0.8 Color: 200
Closed pH: 4.01 Equil. pH: 3.98 ANC: -127.2 DOC: 34.02
Closed DIC: 0.98 Equil. DIC: 0.71 Meas. Cond: 62.0 Cal. Cond: 61.0
Ca: 11.9 Mg: 42.7 Na: 152.3 K: 1.8 NH4: 2.0
SO4: 3.0 HCO3: 0.2 Cl: 172.9 NO3: 0.3 F: 0.6
Sum Cations: 315.4 Sum Anions: 177.0 Cations/Anions: 1.78 Tot. P: 7.0
Tot. Al: 91.0 Ext. Al: 23.0 Fe: 589.0 Mn: 9.0 SiO2: 6.68

ID: 3B2-006 Name: HALF MOON LAKE State: GA Date: 13DEC84
Sample Type: REGULAR Latitude: 30-52'27"N Longitude: 82-08'43"W
Elevation: 37 Surface Temp: 11.9 Stratified: MIXED Site Depth: 0.9
Lake Area: 5 Watershed Area: * WA/LA: * Hydro Type: DRAINAGE
Residence Time: * Secchi Depth: 0.6 Turbidity: 0.8 Color: 225
Closed pH: 4.05 Equil. pH: 4.02 ANC: -122.1 DOC: 38.44
Closed DIC: 3.06 Equil. DIC: 1.21 Meas. Cond: 55.7 Cal. Cond: 58.4
Ca: 11.6 Mg: 43.2 Na: 146.1 K: 1.2 NH4: 4.2
SO4: 4.7 HCO3: 0.3 Cl: 171.8 NO3: 0.3 F: 0.7
Sum Cations: 304.0 Sum Anions: 177.8 Cations/Anions: 1.71 Tot. P: 7.0
Tot. Al: 101.0 Ext. Al: 28.0 Fe: 792.0 Mn: 8.0 SiO2: 6.59

ID: 3B2-010 Name: BUZZARD ROOST LAKE State: GA Date: 13DEC84
Sample Type: REGULAR Latitude: 30-40'05"N Longitude: 82-12'25"W
Elevation: 37 Surface Temp: 15.9 Stratified: MIXED Site Depth: 0.9
Lake Area: 6 Watershed Area: * WA/LA: * Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.6 Turbidity: 0.7 Color: 200
Closed pH: 4.08 Equil. pH: 4.06 ANC: -113.4 DOC: 40.56
Closed DIC: 1.66 Equil. DIC: 0.57 Meas. Cond: 60.8 Cal. Cond: 61.5
Ca: 31.6 Mg: 57.6 Na: 176.3 K: 6.1 NH4: 16.7
SO4: 6.2 HCO3: 0.2 Cl: 196.6 NO3: 0.7 F: 0.7
Sum Cations: 375.4 Sum Anions: 204.4 Cations/Anions: 1.84 Tot. P: 12.0
Tot. Al: 60.0 Ext. Al: 9.0 Fe: 329.0 Mn: 8.0 SiO2: 4.90

ID: 3B2-011 Name: SEAGROVE LAKE State: GA Date: 13DEC84
Sample Type: REGULAR Latitude: 30-42'33"N Longitude: 82-10'18"W
Elevation: 36 Surface Temp: 16.4 Stratified: MIXED Site Depth: 0.9
Lake Area: 5 Watershed Area: * WA/LA: * Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.4 Turbidity: 1.7 Color: 200
Closed pH: 3.96 Equil. pH: 3.94 ANC: -148.8 DOC: 38.44
Closed DIC: 0.66 Equil. DIC: 0.38 Meas. Cond: 70.1 Cal. Cond: 74.8
Ca: 21.8 Mg: 59.6 Na: 171.8 K: 0.7 NH4: 17.2
SO4: 12.8 HCO3: 0.1 Cl: 225.7 NO3: 0.8 F: 0.7
Sum Cations: 391.4 Sum Anions: 240.1 Cations/Anions: 1.63 Tot. P: 15.0
Tot. Al: 110.0 Ext. Al: 30.0 Fe: 486.0 Mn: 7.0 SiO2: 0.19

(continued)

TABLE 3-1 (continued)

ID: 382-013 Name: TROUT LAKE State: FL Date: 04DEC84
Sample Type: REGULAR Latitude: 27-38'49"N Longitude: 81-30'27"W
Elevation: 31 Surface Temp: 20.5 Stratified: MIXED Site Depth: 7.6
Lake Area: 57 Watershed Area: 347 WA/LA: 6.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.4 Turbidity: 0.8 Color: 15
Closed pH: 6.51 Equil. pH: 6.71 ANC: 33.0 DOC: 3.18
Closed DIC: 0.73 Equil. DIC: 0.59 Meas. Cond: 139.0 Cal. Cond: 157.3
Ca: 265.1 Mg: 456.5 Na: 328.0 K: 125.8 NH4: 0.3
SO4: 780.8 HCO3: 33.5 Cl: 358.3 NO3: 0.0 F: 5.5
Sum Cations: 1175.9 Sum Anions: 1178.0 Cations/Anions: 1.00 Tot. P: 15.0
Tot. Al: 16.0 Ext. Al: 1.0 Fe: 2.0 Mn: 0.0 SiO2: 0.93

ID: 382-014 Name: LAKE PYTHIAS State: FL Date: 04DEC84
Sample Type: REGULAR Latitude: 27-38'09"N Longitude: 81-29'50"W
Elevation: 31 Surface Temp: 20.5 Stratified: MIXED Site Depth: 4.0
Lake Area: 104 Watershed Area: 225 WA/LA: 2.2 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 1.7 Turbidity: 0.9 Color: 15
Closed pH: 5.72 Equil. pH: 5.71 ANC: -4.5 DOC: 2.75
Closed DIC: 0.30 Equil. DIC: 0.29 Meas. Cond: 168.0 Cal. Cond: 192.1
Ca: 231.8 Mg: 636.3 Na: 388.9 K: 148.3 NH4: 1.1
SO4: 930.7 HCO3: 7.2 Cl: 505.0 NO3: 2.5 F: 5.2
Sum Cations: 1407.4 Sum Anions: 1450.5 Cations/Anions: 0.97 Tot. P: 14.0
Tot. Al: 49.0 Ext. Al: 14.0 Fe: 17.0 Mn: 34.0 SiO2: 1.95

ID: 382-015 Name: LAKE BRENTWOOD State: FL Date: 05DEC84
Sample Type: REGULAR Latitude: 27-37'17"N Longitude: 81-30'43"W
Elevation: 32 Surface Temp: 21.0 Stratified: MIXED Site Depth: 6.1
Lake Area: 23 Watershed Area: 88 WA/LA: 3.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 5.5 Turbidity: 0.9 Color: 10
Closed pH: 7.32 Equil. pH: 7.65 ANC: 344.4 DOC: 2.99
Closed DIC: 4.79 Equil. DIC: 4.10 Meas. Cond: 260.0 Cal. Cond: 307.5
Ca: 721.1 Mg: 1041.4 Na: 396.7 K: 195.4 NH4: 1.2
SO4: 1476.1 HCO3: 304.2 Cl: 510.6 NO3: 54.5 F: 9.7
Sum Cations: 2355.8 Sum Anions: 2356.1 Cations/Anions: 1.00 Tot. P: 6.0
Tot. Al: 30.0 Ext. Al: 13.0 Fe: 4.0 Mn: 4.0 SiO2: 0.60

ID: 382-016 Name: LAKE VIOLA State: FL Date: 05DEC84
Sample Type: REGULAR Latitude: 27-36'45"N Longitude: 81-29'45"W
Elevation: 34 Surface Temp: 21.4 Stratified: MIXED Site Depth: 9.8
Lake Area: 29 Watershed Area: 197 WA/LA: 6.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.6 Turbidity: 0.4 Color: 10
Closed pH: 7.73 Equil. pH: 8.09 ANC: 440.9 DOC: 2.84
Closed DIC: 5.04 Equil. DIC: 4.89 Meas. Cond: 217.0 Cal. Cond: 250.8
Ca: 563.9 Mg: 857.1 Na: 292.7 K: 223.5 NH4: 0.8
SO4: 1116.0 HCO3: 362.6 Cl: 406.2 NO3: 53.9 F: 6.8
Sum Cations: 1938.0 Sum Anions: 1946.6 Cations/Anions: 1.00 Tot. P: 5.0
Tot. Al: 38.0 Ext. Al: 21.0 Fe: 0.0 Mn: 2.0 SiO2: 0.65

ID: 382-019 Name: LAKE GLENADA State: FL Date: 05DEC84
Sample Type: REGULAR Latitude: 27-33'48"N Longitude: 81-30'22"W
Elevation: 35 Surface Temp: 21.0 Stratified: MIXED Site Depth: 9.1
Lake Area: 74 Watershed Area: 829 WA/LA: 11.2 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 1.1 Turbidity: 20.0 Color: 70
Closed pH: 8.96 Equil. pH: 8.24 ANC: 621.4 DOC: 12.39
Closed DIC: 6.13 Equil. DIC: 7.36 Meas. Cond: 179.0 Cal. Cond: 176.5
Ca: 482.2 Mg: 240.4 Na: 813.4 K: 102.0 NH4: 0.7
SO4: 260.3 HCO3: 518.0 Cl: 550.1 NO3: 9.1 F: 3.5
Sum Cations: 1638.9 Sum Anions: 1341.8 Cations/Anions: 1.22 Tot. P: 495.0
Tot. Al: 32.0 Ext. Al: 7.5 Fe: 5.0 Mn: 1.0 SiO2: 1.47

(continued)

TABLE 3-1 (continued)

ID: 3B2-020 Name: LAKE ANGELO State: FL Date: 05DEC84
Sample Type: REGULAR Latitude: 27-35'09"N Longitude: 81-28'00"W
Elevation: 28 Surface Temp: 21.9 Stratified: MIXED Site Depth: 4.6
Lake Area: 22 Watershed Area: 145 WA/LA: 6.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.4 Turbidity: 0.6 Color: 5
Closed pH: 5.70 Equil. pH: 5.80 ANC: 38.7 DOC: 2.27
Closed DIC: 0.36 Equil. DIC: 0.44 Meas. Cond: 197.0 Cal. Cond: 216.9
Ca: 207.7 Mg: 856.3 Na: 388.6 K: 180.0 NH4: 1.7
SO4: 970.2 HCO3: 6.5 Cl: 592.4 NO3: 33.5 F: 2.3
Sum Cations: 1636.5 Sum Anions: 1604.9 Cations/Anions: 1.02 Tot. P: 7.0
Tot. Al: 39.0 Ext. Al: 9.0 Fe: 6.0 Mn: 66.0 SiO2: 0.67

ID: 3B2-021 Name: LAKE LETTA State: FL Date: 05DEC84
Sample Type: REGULAR Latitude: 27-33'38"N Longitude: 81-27'45"W
Elevation: 30 Surface Temp: 21.0 Stratified: MIXED Site Depth: 2.7
Lake Area: 191 Watershed Area: 3428 WA/LA: 18.0 Hydro Type: DRAINAGE
Residence Time: 0.22 Secchi Depth: 1.1 Turbidity: 1.9 Color: 15
Closed pH: 6.75 Equil. pH: 6.78 ANC: 50.4 DOC: 2.21
Closed DIC: 0.99 Equil. DIC: 0.87 Meas. Cond: 166.0 Cal. Cond: 187.9
Ca: 297.9 Mg: 576.0 Na: 399.7 K: 120.4 NH4: 0.1
SO4: 818.2 HCO3: 56.8 Cl: 558.6 NO3: 0.0 F: 2.5
Sum Cations: 1394.2 Sum Anions: 1436.2 Cations/Anions: 0.97 Tot. P: 19.0
Tot. Al: 89.0 Ext. Al: 0.0 Fe: 4.0 Mn: 3.0 SiO2: 1.02

ID: 3B2-022 Name: LAKE SEBRING State: FL Date: 05DEC84
Sample Type: REGULAR Latitude: 27-31'41"N Longitude: 81-29'03"W
Elevation: 33 Surface Temp: 21.4 Stratified: MIXED Site Depth: 3.4
Lake Area: 188 Watershed Area: 1254 WA/LA: 6.7 Hydro Type: DRAINAGE
Residence Time: 0.55 Secchi Depth: 0.4 Turbidity: 8.6 Color: 100
Closed pH: 6.19 Equil. pH: 6.25 ANC: 77.1 DOC: 9.00
Closed DIC: 0.40 Equil. DIC: 0.66 Meas. Cond: 73.6 Cal. Cond: 71.3
Ca: 192.2 Mg: 114.7 Na: 261.9 K: 32.2 NH4: 1.2
SO4: 201.5 HCO3: 19.4 Cl: 269.4 NO3: 3.0 F: 3.3
Sum Cations: 602.9 Sum Anions: 496.7 Cations/Anions: 1.21 Tot. P: 64.0
Tot. Al: 228.0 Ext. Al: 48.0 Fe: 68.0 Mn: 4.0 SiO2: 0.70

ID: 3B2-023 Name: BONNET LAKE State: FL Date: 05DEC84
Sample Type: REGULAR Latitude: 27-32'38"N Longitude: 81-26'28"W
Elevation: 28 Surface Temp: 21.2 Stratified: MIXED Site Depth: 2.7
Lake Area: 105 Watershed Area: 5672 WA/LA: 54.1 Hydro Type: DRAINAGE
Residence Time: 0.08 Secchi Depth: 0.8 Turbidity: 7.2 Color: 40
Closed pH: 8.43 Equil. pH: 7.79 ANC: 474.9 DOC: 5.49
Closed DIC: 4.43 Equil. DIC: 5.05 Meas. Cond: 245.0 Cal. Cond: 245.1
Ca: 629.7 Mg: 789.9 Na: 344.1 K: 147.0 NH4: 0.5
SO4: 1057.7 HCO3: 350.8 Cl: 482.4 NO3: 6.5 F: 2.8
Sum Cations: 1911.3 Sum Anions: 1900.9 Cations/Anions: 1.01 Tot. P: 40.0
Tot. Al: 46.0 Ext. Al: 12.0 Fe: 2.0 Mn: 2.0 SiO2: 4.12

ID: 3B2-024 Name: BASKET LAKE State: FL Date: 05DEC84
Sample Type: REGULAR Latitude: 27-31'43"N Longitude: 81-26'38"W
Elevation: 30 Surface Temp: 21.1 Stratified: MIXED Site Depth: 8.5
Lake Area: 22 Watershed Area: 127 WA/LA: 5.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 5.8 Turbidity: 0.6 Color: 5
Closed pH: 7.56 Equil. pH: 7.66 ANC: 431.1 DOC: 1.72
Closed DIC: 5.13 Equil. DIC: 4.81 Meas. Cond: 333.0 Cal. Cond: 400.6
Ca: 1154.7 Mg: 1245.4 Na: 335.3 K: 306.8 NH4: 1.3
SO4: 1944.6 HCO3: 375.8 Cl: 598.1 NO3: 106.1 F: 16.2
Sum Cations: 3043.5 Sum Anions: 3042.4 Cations/Anions: 1.00 Tot. P: 3.0
Tot. Al: 65.0 Ext. Al: 35.0 Fe: 0.0 Mn: 1.0 SiO2: 0.94

(continued)

TABLE 3-1 (continued)

ID: 3B2-025 Name: HUCKLEBERRY LAKE State: FL Date: 03DEC84
Sample Type: REGULAR Latitude: 27-27'08"N Longitude: 81-27'50"W
Elevation: 32 Surface Temp: 19.9 Stratified: MIXED Site Depth: 7.3
Lake Area: 47 Watershed Area: 303 WA/LA: 6.4 Hydro Type: DRAINAGE
Residence Time: 1.20 Secchi Depth: 0.6 Turbidity: 1.7 Color: 105
Closed pH: 6.52 Equil. pH: 6.44 ANC: 71.0 DOC: 14.31
Closed DIC: 0.67 Equil. DIC: 0.52 Meas. Cond: 66.5 Cal. Cond: 67.4
Ca: 274.8 Mg: 88.5 Na: 210.1 K: 27.3 NH4: 1.3
SO4: 169.5 HCO3: 38.4 Cl: 227.7 NO3: 8.8 F: 5.4
Sum Cations: 602.4 Sum Anions: 449.8 Cations/Anions: 1.34 Tot. P: 256.0
Tot. Al: 99.0 Ext. Al: 33.0 Fe: 46.0 Mn: 1.0 SiO2: 1.00

ID: 3B2-026 Name: WOLF LAKE State: FL Date: 03DEC84
Sample Type: REGULAR Latitude: 27-25'17"N Longitude: 81-28'27"W
Elevation: 28 Surface Temp: 19.8 Stratified: MIXED Site Depth: 1.2
Lake Area: 48 Watershed Area: 1344 WA/LA: 28.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.3 Turbidity: 16.0 Color: 200
Closed pH: 5.62 Equil. pH: 5.81 ANC: 58.3 DOC: 24.99
Closed DIC: 1.36 Equil. DIC: 0.75 Meas. Cond: 76.0 Cal. Cond: 77.2
Ca: 262.6 Mg: 120.0 Na: 241.9 K: 64.4 NH4: 2.9
SO4: 122.4 HCO3: 13.1 Cl: 349.8 NO3: 4.6 F: 2.5
Sum Cations: 693.6 Sum Anions: 492.4 Cations/Anions: 1.41 Tot. P: 175.0
Tot. Al: 610.0 Ext. Al: 186.0 Fe: 221.0 Mn: 4.0 SiO2: 1.50

ID: 3B2-027 Name: LAKE CHARLOTTE State: FL Date: 03DEC84
Sample Type: REGULAR Latitude: 27-26'00"N Longitude: 81-27'00"W
Elevation: 28 Surface Temp: 20.0 Stratified: MIXED Site Depth: 6.7
Lake Area: 81 Watershed Area: 308 WA/LA: 3.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.9 Turbidity: 3.9 Color: 50
Closed pH: 4.76 Equil. pH: 4.72 ANC: -23.3 DOC: 3.99
Closed DIC: 0.38 Equil. DIC: 0.28 Meas. Cond: 73.9 Cal. Cond: 81.0
Ca: 112.9 Mg: 119.4 Na: 278.8 K: 33.8 NH4: 2.1
SO4: 226.9 HCO3: 0.6 Cl: 332.9 NO3: 2.7 F: 2.8
Sum Cations: 568.4 Sum Anions: 565.9 Cations/Anions: 1.00 Tot. P: 123.0
Tot. Al: 136.0 Ext. Al: 71.0 Fe: 35.0 Mn: 9.0 SiO2: 1.83

ID: 3B2-029 Name: LAKE JOSEPHINE State: FL Date: 04DEC84
Sample Type: REGULAR Latitude: 27-23'36"N Longitude: 81-26'26"W
Elevation: 22 Surface Temp: 21.8 Stratified: MIXED Site Depth: 1.8
Lake Area: 494 Watershed Area: 12212 WA/LA: 24.8 Hydro Type: DRAINAGE
Residence Time: 0.19 Secchi Depth: 0.9 Turbidity: 3.6 Color: 100
Closed pH: 6.82 Equil. pH: 6.83 ANC: 99.2 DOC: 12.91
Closed DIC: 1.10 Equil. DIC: 1.05 Meas. Cond: 74.1 Cal. Cond: 72.4
Ca: 245.7 Mg: 150.4 Na: 247.9 K: 27.3 NH4: 0.7
SO4: 119.7 HCO3: 51.8 Cl: 304.7 NO3: 0.0 F: 2.0
Sum Cations: 672.2 Sum Anions: 478.2 Cations/Anions: 1.41 Tot. P: 43.0
Tot. Al: 147.0 Ext. Al: 36.0 Fe: 68.0 Mn: 0.0 SiO2: 0.98

ID: 3B2-030 Name: LAKE CARRIE State: FL Date: 03DEC84
Sample Type: REGULAR Latitude: 27-20'14"N Longitude: 81-25'40"W
Elevation: 23 Surface Temp: 19.8 Stratified: MIXED Site Depth: 3.3
Lake Area: 26 Watershed Area: 332 WA/LA: 12.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.0 Turbidity: 2.9 Color: 125
Closed pH: 6.92 Equil. pH: 7.18 ANC: 234.4 DOC: 15.54
Closed DIC: 2.93 Equil. DIC: 2.37 Meas. Cond: 72.3 Cal. Cond: 73.3
Ca: 388.2 Mg: 107.2 Na: 187.5 K: 19.0 NH4: 1.1
SO4: 124.5 HCO3: 168.6 Cl: 209.9 NO3: 1.0 F: 1.5
Sum Cations: 703.1 Sum Anions: 505.7 Cations/Anions: 1.39 Tot. P: 18.0
Tot. Al: 177.0 Ext. Al: 38.0 Fe: 53.0 Mn: 0.0 SiO2: 1.71

(continued)

TABLE 3-1 (continued)

ID: 3B2-031 Name: RED WATER LAKE State: FL Date: 04DEC84
Sample Type: REGULAR Latitude: 27-20'50"N Longitude: 81-23'45"W
Elevation: 21 Surface Temp: 21.6 Stratified: MIXED Site Depth: 4.6
Lake Area: 25 Watershed Area: 363 WA/LA: 14.5 Hydro Type: DRAINAGE
Residence Time: 0.67 Secchi Depth: 1.7 Turbidity: 3.1 Color: 30
Closed pH: 8.07 Equil. pH: 7.45 ANC: 260.9 DOC: 6.15
Closed DIC: 2.77 Equil. DIC: 2.63 Meas. Cond: 157.0 Cal. Cond: 174.7
Ca: 386.4 Mg: 570.1 Na: 326.3 K: 112.3 NH4: 0.6
SO4: 603.8 HCO3: 198.9 Cl: 516.2 NO3: 1.5 F: 2.3
Sum Cations: 1395.8 Sum Anions: 1323.0 Cations/Anions: 1.05 Tot. P: 17.0
Tot. Al: 23.0 Ext. Al: 10.0 Fe: 1.0 Mn: 0.0 SiO2: 0.64

ID: 3B2-032 Name: NORTHWEST LAKE NELLIE State: FL Date: 04DEC84
Sample Type: REGULAR Latitude: 27-21'13"N Longitude: 81-23'01"W
Elevation: 22 Surface Temp: 21.6 Stratified: MIXED Site Depth: 9.8
Lake Area: 9 Watershed Area: 225 WA/LA: 25.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.9 Turbidity: 2.3 Color: 10
Closed pH: 7.48 Equil. pH: 7.58 ANC: 435.1 DOC: 4.67
Closed DIC: 5.29 Equil. DIC: 4.68 Meas. Cond: 309.0 Cal. Cond: 376.3
Ca: 908.2 Mg: 1081.7 Na: 482.8 K: 319.6 NH4: 0.4
SO4: 1788.4 HCO3: 356.8 Cl: 753.2 NO3: 8.1 F: 2.9
Sum Cations: 2792.8 Sum Anions: 2910.6 Cations/Anions: 0.96 Tot. P: 8.0
Tot. Al: 21.0 Ext. Al: 24.0 Fe: 0.0 Mn: 0.0 SiO2: 0.92

ID: 3B2-033 Name: SOUTHEAST LAKE NELLIE State: FL Date: 04DEC84
Sample Type: REGULAR Latitude: 27-20'53"N Longitude: 81-22'33"W
Elevation: 22 Surface Temp: 21.5 Stratified: MIXED Site Depth: 12.8
Lake Area: 11 Watershed Area: 225 WA/LA: 20.1 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 1.8 Turbidity: 2.5 Color: 15
Closed pH: 7.75 Equil. pH: 8.25 ANC: 539.7 DOC: 3.88
Closed DIC: 6.36 Equil. DIC: 5.60 Meas. Cond: 367.0 Cal. Cond: 451.7
Ca: 1258.5 Mg: 1315.3 Na: 513.3 K: 302.5 NH4: 5.8
SO4: 2046.6 HCO3: 443.8 Cl: 761.7 NO3: 235.5 F: 4.6
Sum Cations: 3395.5 Sum Anions: 3494.1 Cations/Anions: 0.97 Tot. P: 5.0
Tot. Al: 68.0 Ext. Al: 53.0 Fe: 3.0 Mn: 130.0 SiO2: 3.13

ID: 3B2-035 Name: LAKE JUNE IN WINTER State: FL Date: 03DEC84
Sample Type: REGULAR Latitude: 27-18'17"N Longitude: 81-24'03"W
Elevation: 22 Surface Temp: 19.9 Stratified: MIXED Site Depth: 7.9
Lake Area: 1399 Watershed Area: * WA/LA: * Hydro Type: DRAINAGE
Residence Time: * Secchi Depth: 1.6 Turbidity: 2.9 Color: 20
Closed pH: 8.19 Equil. pH: 7.23 ANC: 166.2 DOC: 5.04
Closed DIC: 1.84 Equil. DIC: 1.69 Meas. Cond: 128.4 Cal. Cond: 134.1
Ca: 290.1 Mg: 378.3 Na: 310.6 K: 102.2 NH4: 0.8
SO4: 443.5 HCO3: 135.4 Cl: 418.9 NO3: 0.1 F: 2.9
Sum Cations: 1082.0 Sum Anions: 1001.1 Cations/Anions: 1.08 Tot. P: 13.5
Tot. Al: 38.0 Ext. Al: 8.0 Fe: 0.0 Mn: 0.0 SiO2: 0.20

ID: 3B2-036 Name: LAKE SIRENA State: FL Date: 03DEC84
Sample Type: REGULAR Latitude: 27-17'04"N Longitude: 81-22'10"W
Elevation: 26 Surface Temp: 20.7 Stratified: MIXED Site Depth: 10.7
Lake Area: 61 Watershed Area: 308 WA/LA: 5.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.1 Turbidity: 0.5 Color: 15
Closed pH: 7.36 Equil. pH: 7.07 ANC: 175.9 DOC: 4.24
Closed DIC: 2.27 Equil. DIC: 1.97 Meas. Cond: 151.0 Cal. Cond: 157.8
Ca: 454.0 Mg: 402.3 Na: 310.2 K: 114.8 NH4: 3.3
SO4: 568.4 HCO3: 154.5 Cl: 426.0 NO3: 2.5 F: 2.8
Sum Cations: 1284.6 Sum Anions: 1154.4 Cations/Anions: 1.11 Tot. P: 7.0
Tot. Al: 23.0 Ext. Al: 5.0 Fe: 0.0 Mn: 0.0 SiO2: 0.50

(continued)

TABLE 3-1 (continued)

ID: 3B2-037 Name: MIRROR LAKE State: FL Date: 04DEC84
Sample Type: REGULAR Latitude: 27-16'31"N Longitude: 81-21'38"W
Elevation: 28 Surface Temp: 21.4 Stratified: MIXED Site Depth: 12.8
Lake Area: 37 Watershed Area: 137 WA/LA: 3.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.0 Turbidity: 1.2 Color: 10
Closed pH: 7.13 Equil. pH: 6.96 ANC: 89.6 DOC: 3.67
Closed DIC: 1.21 Equil. DIC: 0.99 Meas. Cond: 82.4 Cal. Cond: 82.9
Ca: 165.6 Mg: 213.6 Na: 261.9 K: 48.6 NH4: 0.3
SO4: 222.8 HCO3: 65.1 Cl: 316.0 NO3: 0.0 F: 1.6
Sum Cations: 690.1 Sum Anions: 605.5 Cations/Anions: 1.14 Tot. P: 9.0
Tot. Al: 13.0 Ext. Al: 3.0 Fe: 1.0 Mn: 0.0 SiO2: 0.36

ID: 3B2-048 Name: LAKE ISTOKPOGA State: FL Date: 04DEC84
Sample Type: REGULAR Latitude: 27-22'24"N Longitude: 81-17'13"W
Elevation: 12 Surface Temp: 20.8 Stratified: MIXED Site Depth: 1.8
Lake Area: 11174 Watershed Area: * WA/LA: * Hydro Type: DRAINAGE
Residence Time: * Secchi Depth: 0.9 Turbidity: 4.0 Color: 75
Closed pH: 6.79 Equil. pH: 6.82 ANC: 70.7 DOC: 9.43
Closed DIC: 0.78 Equil. DIC: 0.66 Meas. Cond: 132.0 Cal. Cond: 143.2
Ca: 326.5 Mg: 336.5 Na: 391.5 K: 67.5 NH4: 0.6
SO4: 530.9 HCO3: 36.2 Cl: 476.7 NO3: 8.0 F: 3.2
Sum Cations: 1122.9 Sum Anions: 1055.1 Cations/Anions: 1.06 Tot. P: 60.0
Tot. Al: 121.0 Ext. Al: 11.0 Fe: 80.0 Mn: 3.0 SiO2: 2.30

ID: 3B2-053 Name: LAKE ANNIE State: FL Date: 02DEC84
Sample Type: REGULAR Latitude: 27-12'30"N Longitude: 81-21'00"W
Elevation: 34 Surface Temp: 21.1 Stratified: MIXED Site Depth: 12.5
Lake Area: 34 Watershed Area: 114 WA/LA: 3.3 Hydro Type: DRAINAGE
Residence Time: 3.26 Secchi Depth: 5.3 Turbidity: 0.3 Color: 8
Closed pH: 5.56 Equil. pH: 5.54 ANC: -3.0 DOC: 2.59
Closed DIC: 0.82 Equil. DIC: 0.67 Meas. Cond: 41.2 Cal. Cond: 42.3
Ca: 98.4 Mg: 58.8 Na: 139.4 K: 10.1 NH4: 6.7
SO4: 145.2 HCO3: 5.4 Cl: 160.4 NO3: 0.4 F: 0.4
Sum Cations: 316.1 Sum Anions: 311.8 Cations/Anions: 1.01 Tot. P: 4.5
Tot. Al: 99.5 Ext. Al: 23.0 Fe: 36.0 Mn: 2.5 SiO2: 1.12

ID: 3B2-054 Name: RED BEACH LAKE State: FL Date: 04DEC84
Sample Type: REGULAR Latitude: 27-25'55"N Longitude: 81-24'15"W
Elevation: 23 Surface Temp: 21.0 Stratified: MIXED Site Depth: 4.3
Lake Area: 134 Watershed Area: 875 WA/LA: 6.5 Hydro Type: DRAINAGE
Residence Time: 0.93 Secchi Depth: 0.8 Turbidity: 1.9 Color: 70
Closed pH: 6.73 Equil. pH: 6.61 ANC: 52.1 DOC: 5.93
Closed DIC: 0.77 Equil. DIC: 0.64 Meas. Cond: 67.2 Cal. Cond: 67.9
Ca: 99.2 Mg: 194.4 Na: 225.3 K: 42.7 NH4: 0.7
SO4: 165.9 HCO3: 48.1 Cl: 277.0 NO3: 8.0 F: 0.9
Sum Cations: 562.3 Sum Anions: 500.0 Cations/Anions: 1.12 Tot. P: 15.0
Tot. Al: 80.0 Ext. Al: 8.0 Fe: 57.0 Mn: 0.0 SiO2: 0.03

ID: 3B2-055 Name: LAKE FRANCIS State: FL Date: 03DEC84
Sample Type: REGULAR Latitude: 27-20'15"N Longitude: 81-24'30"W
Elevation: 21 Surface Temp: 20.1 Stratified: MIXED Site Depth: 5.2
Lake Area: 213 Watershed Area: * WA/LA: * Hydro Type: DRAINAGE
Residence Time: * Secchi Depth: 1.9 Turbidity: 2.0 Color: 20
Closed pH: 8.38 Equil. pH: 7.22 ANC: 144.5 DOC: 4.02
Closed DIC: 1.66 Equil. DIC: 1.58 Meas. Cond: 118.9 Cal. Cond: 125.3
Ca: 212.9 Mg: 364.2 Na: 323.6 K: 89.5 NH4: 0.7
SO4: 353.9 HCO3: 125.8 Cl: 476.7 NO3: 0.0 F: 2.2
Sum Cations: 991.0 Sum Anions: 958.8 Cations/Anions: 1.03 Tot. P: 14.0
Tot. Al: 32.0 Ext. Al: 10.0 Fe: 1.0 Mn: 0.0 SiO2: 0.73

(continued)

TABLE 3-1 (continued)

ID: 382-056 Name: GRASSY LAKE State: FL Date: 04DEC84
Sample Type: REGULAR Latitude: 27-15'00"N Longitude: 81-20'00"W
Elevation: 27 Surface Temp: 21.3 Stratified: MIXED Site Depth: 4.9
Lake Area: 206 Watershed Area: 1194 WA/LA: 5.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.5 Turbidity: 1.1 Color: 15
Closed pH: 7.59 Equil. pH: 7.55 ANC: 239.0 DOC: 7.36
Closed DIC: 2.71 Equil. DIC: 2.35 Meas. Cond: 145.0 Cal. Cond: 160.4
Ca: 474.5 Mg: 338.6 Na: 332.8 K: 138.3 NH4: 0.6
SO4: 615.2 HCO3: 177.8 Cl: 389.3 NO3: 3.9 F: 4.4
Sum Cations: 1284.9 Sum Anions: 1190.8 Cations/Anions: 1.08 Tot. P: 9.0
Tot. Al: 49.0 Ext. Al: 23.0 Fe: 0.5 Mn: 0.0 SiO2: 0.18

ID: 382-061 Name: LAKE HILL State: FL Date: 03DEC84
Sample Type: REGULAR Latitude: 27-21'00"N Longitude: 81-26'20"W
Elevation: 30 Surface Temp: 20.1 Stratified: MIXED Site Depth: 4.9
Lake Area: 28 Watershed Area: 570 WA/LA: 20.2 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 1.8 Turbidity: 1.6 Color: 20
Closed pH: 5.75 Equil. pH: 5.53 ANC: -2.1 DOC: 3.03
Closed DIC: 0.28 Equil. DIC: 0.37 Meas. Cond: 53.4 Cal. Cond: 53.4
Ca: 116.3 Mg: 86.2 Na: 191.8 K: 9.1 NH4: 0.3
SO4: 180.1 HCO3: 9.8 Cl: 213.5 NO3: 1.5 F: 0.7
Sum Cations: 404.7 Sum Anions: 405.7 Cations/Anions: 1.00 Tot. P: 12.0
Tot. Al: 208.0 Ext. Al: 30.0 Fe: 4.0 Mn: 4.0 SiO2: 1.12

ID: 382-062 Name: LAKE DAMON State: FL Date: 04DEC84
Sample Type: REGULAR Latitude: 27-38'00"N Longitude: 81-30'35"W
Elevation: 31 Surface Temp: 20.8 Stratified: MIXED Site Depth: 4.6
Lake Area: 108 Watershed Area: 347 WA/LA: 3.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.9 Turbidity: 0.8 Color: 10
Closed pH: 5.87 Equil. pH: 5.69 ANC: -4.1 DOC: 2.77
Closed DIC: 0.23 Equil. DIC: 0.23 Meas. Cond: 223.0 Cal. Cond: 277.7
Ca: 362.6 Mg: 892.5 Na: 434.6 K: 242.9 NH4: 0.4
SO4: 1667.7 HCO3: 2.6 Cl: 451.4 NO3: 0.2 F: 6.6
Sum Cations: 1935.4 Sum Anions: 2128.5 Cations/Anions: 0.91 Tot. P: 9.0
Tot. Al: 43.0 Ext. Al: 20.0 Fe: 8.0 Mn: 36.0 SiO2: 1.31

ID: 382-063 Name: LAKE DENTON State: FL Date: 05DEC84
Sample Type: REGULAR Latitude: 27-33'20"N Longitude: 81-29'21"W
Elevation: 34 Surface Temp: 21.4 Stratified: MIXED Site Depth: 13.4
Lake Area: 26 Watershed Area: 96 WA/LA: 3.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 8.4 Turbidity: 0.1 Color: 10
Closed pH: 7.63 Equil. pH: 7.91 ANC: 361.0 DOC: 1.00
Closed DIC: 4.63 Equil. DIC: 4.51 Meas. Cond: 239.0 Cal. Cond: 271.0
Ca: 720.1 Mg: 890.9 Na: 260.8 K: 241.6 NH4: 0.6
SO4: 1041.0 HCO3: 339.0 Cl: 507.8 NO3: 172.6 F: 9.9
Sum Cations: 2114.0 Sum Anions: 2071.2 Cations/Anions: 1.02 Tot. P: 3.0
Tot. Al: 63.0 Ext. Al: 41.0 Fe: 0.0 Mn: 0.0 SiO2: 1.40

ID: 382-065 Name: LAKE LELIA State: FL Date: 05DEC84
Sample Type: REGULAR Latitude: 27-34'25"N Longitude: 81-30'15"W
Elevation: 34 Surface Temp: 20.8 Stratified: MIXED Site Depth: 7.9
Lake Area: 64 Watershed Area: 1098 WA/LA: 17.2 Hydro Type: DRAINAGE
Residence Time: 0.66 Secchi Depth: 1.4 Turbidity: 2.3 Color: 25
Closed pH: 8.06 Equil. pH: 7.68 ANC: 209.7 DOC: 4.89
Closed DIC: 2.37 Equil. DIC: 2.55 Meas. Cond: 156.0 Cal. Cond: 174.7
Ca: 425.7 Mg: 457.4 Na: 330.9 K: 128.9 NH4: 2.5
SO4: 716.2 HCO3: 189.8 Cl: 431.6 NO3: 0.0 F: 2.8
Sum Cations: 1345.5 Sum Anions: 1340.7 Cations/Anions: 1.00 Tot. P: 14.0
Tot. Al: 31.0 Ext. Al: 12.0 Fe: 1.0 Mn: 0.0 SiO2: 0.15

(continued)

TABLE 3-1 (continued)

ID: 3B2-067 Name: PIONEER LAKE State: FL Date: 04DEC84
Sample Type: REGULAR Latitude: 27-37'20"N Longitude: 81-29'40"W
Elevation: 31 Surface Temp: 20.9 Stratified: MIXED Site Depth: 9.1
Lake Area: 34 Watershed Area: 127 WA/LA: 3.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.7 Turbidity: 0.4 Color: 10
Closed pH: 7.31 Equil. pH: 7.44 ANC: 214.2 DOC: 3.04
Closed DIC: 2.64 Equil. DIC: 2.42 Meas. Cond: 244.0 Cal. Cond: 287.8
Ca: 575.8 Mg: 979.7 Na: 379.3 K: 245.7 NH4: 0.7
SO4: 1447.0 HCO3: 177.4 Cl: 505.0 NO3: 24.4 F: 10.7
Sum Cations: 2181.3 Sum Anions: 2164.8 Cations/Anions: 1.01 Tot. P: 5.0
Tot. Al: 21.0 Ext. Al: 8.0 Fe: 1.0 Mn: 0.0 SiO2: 0.76

ID: 3B2-072 Name: LAKE HENRY State: FL Date: 03DEC84
Sample Type: REGULAR Latitude: 27-19'22"N Longitude: 81-23'00"W
Elevation: 23 Surface Temp: 20.1 Stratified: MIXED Site Depth: 5.5
Lake Area: 25 Watershed Area: 129 WA/LA: 5.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.2 Turbidity: 1.3 Color: 25
Closed pH: 7.20 Equil. pH: 7.13 ANC: 109.7 DOC: 5.83
Closed DIC: 1.57 Equil. DIC: 1.38 Meas. Cond: 121.4 Cal. Cond: 126.1
Ca: 234.5 Mg: 342.9 Na: 323.6 K: 100.0 NH4: 1.8
SO4: 416.4 HCO3: 92.1 Cl: 428.8 NO3: 0.0 F: 2.9
Sum Cations: 1002.9 Sum Anions: 940.2 Cations/Anions: 1.07 Tot. P: 17.0
Tot. Al: 22.0 Ext. Al: 5.0 Fe: 2.0 Mn: 0.0 SiO2: 0.41

ID: 3B2-074 Name: LAKE BYRD State: FL Date: 05DEC84
Sample Type: REGULAR Latitude: 27-37'15"N Longitude: 81-31'05"W
Elevation: 33 Surface Temp: 21.1 Stratified: MIXED Site Depth: 9.1
Lake Area: 19 Watershed Area: 80 WA/LA: 4.2 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 6.3 Turbidity: 0.3 Color: 10
Closed pH: 7.16 Equil. pH: 7.42 ANC: 209.7 DOC: 2.61
Closed DIC: 2.94 Equil. DIC: 2.56 Meas. Cond: 276.0 Cal. Cond: 321.9
Ca: 806.4 Mg: 1016.7 Na: 394.5 K: 238.6 NH4: 0.8
SO4: 1492.8 HCO3: 178.0 Cl: 516.2 NO3: 217.8 F: 7.5
Sum Cations: 2457.1 Sum Anions: 2412.5 Cations/Anions: 1.02 Tot. P: 3.0
Tot. Al: 61.0 Ext. Al: 29.0 Fe: 1.0 Mn: 3.0 SiO2: 1.95

ID: 3B2-075 Name: LAKE PEARL State: FL Date: 02DEC84
Sample Type: REGULAR Latitude: 27-17'00"N Longitude: 81-21'45"W
Elevation: 26 Surface Temp: 20.9 Stratified: MIXED Site Depth: 12.2
Lake Area: 27 Watershed Area: 88 WA/LA: 3.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.5 Turbidity: 0.4 Color: 5
Closed pH: 6.58 Equil. pH: 6.81 ANC: 38.9 DOC: 2.96
Closed DIC: 0.78 Equil. DIC: 0.84 Meas. Cond: 105.8 Cal. Cond: 110.4
Ca: 258.2 Mg: 249.4 Na: 273.6 K: 71.9 NH4: 1.0
SO4: 393.5 HCO3: 33.8 Cl: 372.4 NO3: 15.5 F: 2.7
Sum Cations: 854.4 Sum Anions: 818.0 Cations/Anions: 1.04 Tot. P: 6.0
Tot. Al: 58.0 Ext. Al: 4.0 Fe: 0.0 Mn: 0.0 SiO2: 2.07

ID: 3B2-080 Name: BLUE LAKE State: FL Date: 03DEC84
Sample Type: REGULAR Latitude: 27-26'06"N Longitude: 81-30'45"W
Elevation: 35 Surface Temp: 20.0 Stratified: MIXED Site Depth: 1.5
Lake Area: 14 Watershed Area: 223 WA/LA: 16.4 Hydro Type: DRAINAGE
Residence Time: 0.13 Secchi Depth: 1.3 Turbidity: 2.4 Color: 30
Closed pH: 5.35 Equil. pH: 5.71 ANC: -3.0 DOC: 4.39
Closed DIC: 1.03 Equil. DIC: 0.66 Meas. Cond: 81.8 Cal. Cond: 85.6
Ca: 150.4 Mg: 168.9 Na: 317.5 K: 12.5 NH4: 0.9
SO4: 270.7 HCO3: 6.5 Cl: 363.9 NO3: 0.6 F: 1.6
Sum Cations: 653.0 Sum Anions: 643.2 Cations/Anions: 1.02 Tot. P: 8.0
Tot. Al: 145.0 Ext. Al: 31.0 Fe: 10.0 Mn: 11.0 SiO2: 0.13

(continued)

TABLE 3-1 (continued)

ID: 3B2-081 Name: LITTLE RED WATER LAKE State: FL Date: 05DEC84
Sample Type: REGULAR Latitude: 27-32'30"N Longitude: 81-28'30"W
Elevation: 32 Surface Temp: 21.4 Stratified: MIXED Site Depth: 3.7
Lake Area: 132 Watershed Area: 2214 WA/LA: 16.7 Hydro Type: DRAINAGE
Residence Time: 0.32 Secchi Depth: 1.3 Turbidity: 1.9 Color: 25
Closed pH: 6.17 Equil. pH: 6.33 ANC: 17.9 DOC: 5.57
Closed DIC: 0.25 Equil. DIC: 0.32 Meas. Cond: 66.3 Cal. Cond: 63.5
Ca: 138.4 Mg: 125.2 Na: 252.6 K: 24.0 NH4: 0.6
SO4: 173.6 HCO3: 6.5 Cl: 252.8 NO3: 1.9 F: 2.4
Sum Cations: 542.0 Sum Anions: 437.2 Cations/Anions: 1.24 Tot. P: 20.0
Tot. Al: 162.0 Ext. Al: 7.0 Fe: 12.0 Mn: 4.0 SiO2: 0.23

ID: 3B2-084 Name: PERSIMMON LAKE State: FL Date: 04DEC84
Sample Type: REGULAR Latitude: 27-21'17"N Longitude: 81-24'20"W
Elevation: 21 Surface Temp: 19.9 Stratified: MIXED Site Depth: 3.0
Lake Area: 14 Watershed Area: 65 WA/LA: 4.7 Hydro Type: DRAINAGE
Residence Time: 0.72 Secchi Depth: 0.4 Turbidity: 16.4 Color: 55
Closed pH: 7.26 Equil. pH: 8.40 ANC: 600.1 DOC: 10.09
Closed DIC: 7.92 Equil. DIC: 7.04 Meas. Cond: 251.0 Cal. Cond: 277.5
Ca: 691.6 Mg: 997.0 Na: 382.8 K: 185.6 NH4: 15.9
SO4: 759.9 HCO3: 523.2 Cl: 837.8 NO3: 16.9 F: 1.6
Sum Cations: 2272.9 Sum Anions: 2143.0 Cations/Anions: 1.06 Tot. P: 29.0
Tot. Al: 36.0 Ext. Al: 20.0 Fe: 0.0 Mn: 0.0 SiO2: 2.57

ID: 3B2-085 Name: (NO NAME) State: FL Date: 03DEC84
Sample Type: REGULAR Latitude: 27-25'55"N Longitude: 81-30'00"W
Elevation: 36 Surface Temp: 20.6 Stratified: MIXED Site Depth: 2.7
Lake Area: 23 Watershed Area: 223 WA/LA: 9.9 Hydro Type: DRAINAGE
Residence Time: 0.34 Secchi Depth: 3.4 Turbidity: 0.2 Color: 5
Closed pH: 4.42 Equil. pH: 4.39 ANC: -46.1 DOC: 0.96
Closed DIC: 0.33 Equil. DIC: 0.21 Meas. Cond: 55.6 Cal. Cond: 63.6
Ca: 30.8 Mg: 70.3 Na: 175.7 K: 0.8 NH4: 0.4
SO4: 191.8 HCO3: 0.1 Cl: 227.7 NO3: 0.0 F: 1.4
Sum Cations: 324.8 Sum Anions: 421.0 Cations/Anions: 0.77 Tot. P: 0.0
Tot. Al: 455.0 Ext. Al: 446.0 Fe: 1.0 Mn: 4.0 SiO2: 0.18

ID: 3B2-087 Name: COWARD LAKE State: GA Date: 13DEC84
Sample Type: REGULAR Latitude: 30-39'27"N Longitude: 82-10'12"W
Elevation: 37 Surface Temp: 13.0 Stratified: MIXED Site Depth: 0.9
Lake Area: 8 Watershed Area: * WA/LA: * Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.6 Turbidity: 0.6 Color: 300
Closed pH: 3.81 Equil. pH: 3.82 ANC: -209.1 DOC: 48.22
Closed DIC: 0.20 Equil. DIC: 0.25 Meas. Cond: 72.9 Cal. Cond: 74.0
Ca: 9.3 Mg: 24.9 Na: 124.8 K: 0.2 NH4: 1.1
SO4: 10.5 HCO3: 0.1 Cl: 140.8 NO3: 0.5 F: 0.7
Sum Cations: 315.2 Sum Anions: 152.5 Cations/Anions: 2.07 Tot. P: 9.0
Tot. Al: 76.0 Ext. Al: 17.0 Fe: 191.0 Mn: 4.0 SiO2: 0.64

ID: 3B2-088 Name: LAKE CREWS State: FL Date: 03DEC84
Sample Type: REGULAR Latitude: 27-17'45"N Longitude: 81-26'10"W
Elevation: 36 Surface Temp: 20.2 Stratified: MIXED Site Depth: 2.7
Lake Area: 24 Watershed Area: 158 WA/LA: 6.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.6 Turbidity: 1.9 Color: 35
Closed pH: 5.95 Equil. pH: 5.77 ANC: 6.5 DOC: 5.29
Closed DIC: 0.28 Equil. DIC: 0.32 Meas. Cond: 63.3 Cal. Cond: 63.4
Ca: 100.3 Mg: 100.5 Na: 278.4 K: 17.5 NH4: 0.8
SO4: 136.0 HCO3: 8.5 Cl: 327.2 NO3: 0.2 F: 1.6
Sum Cations: 499.0 Sum Anions: 473.5 Cations/Anions: 1.05 Tot. P: 15.0
Tot. Al: 95.0 Ext. Al: 30.0 Fe: 14.0 Mn: 2.0 SiO2: 0.44

(continued)

TABLE 3-1 (continued)

ID: 3B2-089 Name: LAKE PLACID State: FL Date: 02DEC84
Sample Type: REGULAR Latitude: 27-14'30"N Longitude: 81-22'15"W
Elevation: 28 Surface Temp: 19.9 Stratified: MIXED Site Depth: 14.0
Lake Area: 1352 Watershed Area: * WA/LA: * Hydro Type: DRAINAGE
Residence Time: * Secchi Depth: 1.9 Turbidity: 3.8 Color: 10
Closed pH: 8.30 Equil. pH: 7.34 ANC: 107.0 DOC: 3.10
Closed DIC: 1.07 Equil. DIC: 1.10 Meas. Cond: 84.5 Cal. Cond: 79.5
Ca: 179.6 Mg: 208.9 Na: 253.2 K: 54.2 NH4: 0.5
SO4: 141.0 HCO3: 90.4 Cl: 335.7 NO3: 0.0 F: 1.6
Sum Cations: 696.5 Sum Anions: 568.8 Cations/Anions: 1.22 Tot. P: 13.0
Tot. Al: 31.0 Ext. Al: 12.0 Fe: 2.0 Mn: 0.0 SiO2: 0.62

ID: 3B2-090 Name: LITTLE BONNET LAKE State: FL Date: 05DEC84
Sample Type: REGULAR Latitude: 27-33'35"N Longitude: 81-28'35"W
Elevation: 30 Surface Temp: 21.5 Stratified: MIXED Site Depth: 3.4
Lake Area: 34 Watershed Area: 2176 WA/LA: 64.8 Hydro Type: DRAINAGE
Residence Time: 0.09 Secchi Depth: 0.4 Turbidity: 15.2 Color: 45
Closed pH: 7.91 Equil. pH: 8.33 ANC: 495.3 DOC: 10.07
Closed DIC: 5.58 Equil. DIC: 6.05 Meas. Cond: 235.0 Cal. Cond: 257.6
Ca: 592.3 Mg: 925.4 Na: 405.5 K: 166.7 NH4: 10.1
SO4: 895.3 HCO3: 457.7 Cl: 612.2 NO3: 15.0 F: 3.3
Sum Cations: 2100.2 Sum Anions: 1984.7 Cations/Anions: 1.06 Tot. P: 25.0
Tot. Al: 34.0 Ext. Al: 11.0 Fe: 0.0 Mn: 2.0 SiO2: 2.16

ID: 3B2-091 Name: CENTER LAKE NELLIE State: FL Date: 04DEC84
Sample Type: REGULAR Latitude: 27-21'08"N Longitude: 81-22'45"W
Elevation: 22 Surface Temp: 21.5 Stratified: MIXED Site Depth: 9.1
Lake Area: 17 Watershed Area: 225 WA/LA: 13.4 Hydro Type: DRAINAGE
Residence Time: 1.39 Secchi Depth: 1.6 Turbidity: 3.1 Color: 15
Closed pH: 7.99 Equil. pH: 8.05 ANC: 507.2 DOC: 4.57
Closed DIC: 5.94 Equil. DIC: 5.28 Meas. Cond: 318.0 Cal. Cond: 388.7
Ca: 929.6 Mg: 1144.2 Na: 495.9 K: 363.1 NH4: 0.2
SO4: 1792.6 HCO3: 408.3 Cl: 770.1 NO3: 8.5 F: 2.8
Sum Cations: 2933.1 Sum Anions: 2983.5 Cations/Anions: 0.98 Tot. P: 8.0
Tot. Al: 23.0 Ext. Al: 10.0 Fe: 0.0 Mn: 0.0 SiO2: 0.79

ID: 3B2-092 Name: LAKE JACKSON State: FL Date: 03DEC84
Sample Type: REGULAR Latitude: 27-29'15"N Longitude: 81-27'30"W
Elevation: 31 Surface Temp: 20.9 Stratified: MIXED Site Depth: 6.7
Lake Area: 1297 Watershed Area: 3204 WA/LA: 2.5 Hydro Type: DRAINAGE
Residence Time: 1.72 Secchi Depth: 2.9 Turbidity: 0.7 Color: 20
Closed pH: 6.54 Equil. pH: 5.86 ANC: 3.2 DOC: 2.94
Closed DIC: 0.16 Equil. DIC: 0.22 Meas. Cond: 103.4 Cal. Cond: 108.6
Ca: 180.8 Mg: 230.4 Na: 361.9 K: 60.6 NH4: 0.7
SO4: 389.3 HCO3: 9.1 Cl: 406.2 NO3: 0.0 F: 3.0
Sum Cations: 835.2 Sum Anions: 807.6 Cations/Anions: 1.03 Tot. P: 12.0
Tot. Al: 35.0 Ext. Al: 4.0 Fe: 5.0 Mn: 8.0 SiO2: 0.87

ID: 3B2-093 Name: GANNET LAKE State: GA Date: 13DEC84
Sample Type: REGULAR Latitude: 30-39'40"N Longitude: 82-14'40"W
Elevation: 37 Surface Temp: 16.6 Stratified: MIXED Site Depth: 0.9
Lake Area: 11 Watershed Area: * WA/LA: * Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.6 Turbidity: 0.9 Color: 225
Closed pH: 3.86 Equil. pH: 3.85 ANC: -178.9 DOC: 43.02
Closed DIC: 0.69 Equil. DIC: 0.31 Meas. Cond: 76.6 Cal. Cond: 75.9
Ca: 25.4 Mg: 38.3 Na: 162.0 K: 0.4 NH4: 1.7
SO4: 4.1 HCO3: 0.1 Cl: 202.3 NO3: 0.5 F: 0.7
Sum Cations: 366.0 Sum Anions: 207.7 Cations/Anions: 1.76 Tot. P: 10.0
Tot. Al: 64.0 Ext. Al: 9.0 Fe: 326.0 Mn: 8.0 SiO2: 1.47

(continued)

TABLE 3-1 (continued)

ID: 3B2-094 Name: DINNER LAKE State: FL Date: 05DEC84
Sample Type: REGULAR Latitude: 27-30'55"N Longitude: 81-26'30"W
Elevation: 31 Surface Temp: 21.0 Stratified: MIXED Site Depth: 8.5
Lake Area: 152 Watershed Area: 549 WA/LA: 3.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.7 Turbidity: 1.6 Color: 15
Closed pH: 7.87 Equil. pH: 8.02 ANC: 793.7 DOC: 2.81
Closed DIC: 9.79 Equil. DIC: 9.53 Meas. Cond: 221.5 Cal. Cond: 248.2
Ca: 818.1 Mg: 642.8 Na: 435.0 K: 147.0 NH4: 0.5
SO4: 762.0 HCO3: 737.7 Cl: 490.9 NO3: 13.7 F: 6.0
Sum Cations: 2043.5 Sum Anions: 2014.6 Cations/Anions: 1.01 Tot. P: 8.0
Tot. Al: 38.0 Ext. Al: 10.5 Fe: 0.5 Mn: 2.0 SiO2: 0.49

ID: 3B2-096 Name: DEER LAKE State: FL Date: 05DEC84
Sample Type: REGULAR Latitude: 27-36'34"N Longitude: 81-28'30"W
Elevation: 29 Surface Temp: 21.6 Stratified: MIXED Site Depth: 6.1
Lake Area: 11 Watershed Area: 93 WA/LA: 8.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.4 Turbidity: 0.6 Color: 20
Closed pH: 7.34 Equil. pH: 7.81 ANC: 486.9 DOC: 3.27
Closed DIC: 5.56 Equil. DIC: 5.20 Meas. Cond: 158.0 Cal. Cond: 175.1
Ca: 485.5 Mg: 575.1 Na: 184.4 K: 166.5 NH4: 0.6
SO4: 680.8 HCO3: 362.5 Cl: 296.2 NO3: 11.8 F: 1.6
Sum Cations: 1412.1 Sum Anions: 1353.8 Cations/Anions: 1.04 Tot. P: 12.0
Tot. Al: 21.0 Ext. Al: 3.0 Fe: 0.0 Mn: 3.0 SiO2: 0.73

ID: 3B2-099 Name: LAKE LOTELA State: FL Date: 05DEC84
Sample Type: REGULAR Latitude: 27-34'30"N Longitude: 81-29'00"W
Elevation: 32 Surface Temp: 20.8 Stratified: MIXED Site Depth: 6.4
Lake Area: 323 Watershed Area: 2680 WA/LA: 8.3 Hydro Type: DRAINAGE
Residence Time: 0.91 Secchi Depth: 2.9 Turbidity: 0.7 Color: 10
Closed pH: 7.82 Equil. pH: 7.78 ANC: 403.1 DOC: 3.38
Closed DIC: 5.19 Equil. DIC: 4.60 Meas. Cond: 139.0 Cal. Cond: 148.3
Ca: 318.4 Mg: 506.8 Na: 356.8 K: 72.9 NH4: 0.6
SO4: 456.0 HCO3: 334.9 Cl: 361.1 NO3: 0.3 F: 4.5
Sum Cations: 1255.5 Sum Anions: 1157.3 Cations/Anions: 1.08 Tot. P: 10.0
Tot. Al: 33.0 Ext. Al: 9.0 Fe: 0.0 Mn: 2.0 SiO2: 0.35

ID: 3B2-100 Name: MAUL HAMMOCK LAKE State: GA Date: 13DEC84
Sample Type: REGULAR Latitude: 31-00'55"N Longitude: 82-15'28"W
Elevation: 37 Surface Temp: 13.6 Stratified: MIXED Site Depth: 0.9
Lake Area: 5 Watershed Area: * WA/LA: * Hydro Type: DRAINAGE
Residence Time: * Secchi Depth: 0.6 Turbidity: 1.2 Color: 200
Closed pH: 4.04 Equil. pH: 3.99 ANC: -133.1 DOC: 35.68
Closed DIC: 1.41 Equil. DIC: 0.26 Meas. Cond: 59.4 Cal. Cond: 62.7
Ca: 19.7 Mg: 48.0 Na: 157.2 K: 1.2 NH4: 1.0
SO4: 6.9 HCO3: 0.1 Cl: 179.7 NO3: 0.5 F: 0.7
Sum Cations: 331.8 Sum Anions: 187.9 Cations/Anions: 1.77 Tot. P: 10.0
Tot. Al: 116.0 Ext. Al: 25.0 Fe: 436.0 Mn: 8.0 SiO2: 1.41

ID: 3B2-101 Name: HOG LAKE State: FL Date: 05DEC84
Sample Type: REGULAR Latitude: 27-31'47"N Longitude: 81-31'05"W
Elevation: 49 Surface Temp: 21.6 Stratified: MIXED Site Depth: 1.5
Lake Area: 12 Watershed Area: 41 WA/LA: 3.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.1 Turbidity: 4.0 Color: 45
Closed pH: 7.76 Equil. pH: 8.63 ANC: 1901.8 DOC: 12.03
Closed DIC: 21.77 Equil. DIC: 22.57 Meas. Cond: 215.0 Cal. Cond: 230.2
Ca: 1071.4 Mg: 847.3 Na: 283.6 K: 41.9 NH4: 7.9
SO4: 78.5 HCO3: 1785.4 Cl: 209.6 NO3: 3.6 F: 7.7
Sum Cations: 2252.1 Sum Anions: 2103.6 Cations/Anions: 1.07 Tot. P: 14.0
Tot. Al: 146.0 Ext. Al: 42.0 Fe: 17.0 Mn: 1.0 SiO2: 0.23

(continued)

TABLE 3-1 (continued)

ID: 3B2-103 Name: DOUBLE LKS.(NORTH) State: GA Date: 13DEC84
Sample Type: REGULAR Latitude: 30-59'12"N Longitude: 82-11'35"W
Elevation: 38 Surface Temp: 12.4 Stratified: MIXED Site Depth: 1.0
Lake Area: 6 Watershed Area: * WA/LA: * Hydro Type: CLOSED
Residence Time: * Secchi Depth: 0.7 Turbidity: 0.5 Color: 175
Closed pH: 4.18 Equil. pH: 4.14 ANC: -87.0 DOC: 31.08
Closed DIC: 2.08 Equil. DIC: 0.59 Meas. Cond: 46.3 Cal. Cond: 48.0
Ca: 17.9 Mg: 40.7 Na: 141.5 K: 1.9 NH4: 0.7
SO4: 3.8 HCO3: 0.2 Cl: 147.5 NO3: 0.2 F: 0.7
Sum Cations: 276.8 Sum Anions: 152.5 Cations/Anions: 1.82 Tot. P: 17.0
Tot. Al: 128.0 Ext. Al: 32.0 Fe: 455.0 Mn: 8.0 SiO2: 3.55

ID: 3B2-105 Name: LAKE SIMMONS State: FL Date: 04DEC84
Sample Type: REGULAR Latitude: 27-20'18"N Longitude: 81-22'33"W
Elevation: 22 Surface Temp: 21.7 Stratified: MIXED Site Depth: 14.6
Lake Area: 8 Watershed Area: 137 WA/LA: 16.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 5.7 Turbidity: 0.2 Color: 5
Closed pH: 7.76 Equil. pH: 8.19 ANC: 528.6 DOC: 1.04
Closed DIC: 6.27 Equil. DIC: 5.74 Meas. Cond: 367.0 Cal. Cond: 444.0
Ca: 1188.6 Mg: 1554.7 Na: 411.1 K: 253.7 NH4: 0.4
SO4: 1634.4 HCO3: 445.8 Cl: 857.6 NO3: 493.6 F: 3.6
Sum Cations: 3408.5 Sum Anions: 3436.7 Cations/Anions: 0.99 Tot. P: 2.0
Tot. Al: 109.0 Ext. Al: 83.0 Fe: 0.0 Mn: 0.0 SiO2: 1.62

ID: 3B2-106 Name: LAKE ANOKA State: FL Date: 05DEC84
Sample Type: REGULAR Latitude: 27-34'50"N Longitude: 81-30'45"W
Elevation: 38 Surface Temp: 21.1 Stratified: MIXED Site Depth: 13.7
Lake Area: 18 Watershed Area: 412 WA/LA: 23.0 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 4.9 Turbidity: 0.4 Color: 10
Closed pH: 7.45 Equil. pH: 8.21 ANC: 508.8 DOC: 2.75
Closed DIC: 6.82 Equil. DIC: 6.23 Meas. Cond: 138.0 Cal. Cond: 146.8
Ca: 704.1 Mg: 307.7 Na: 145.3 K: 91.5 NH4: 7.4
SO4: 453.9 HCO3: 469.2 Cl: 208.2 NO3: 10.2 F: 3.2
Sum Cations: 1256.1 Sum Anions: 1146.1 Cations/Anions: 1.10 Tot. P: 6.0
Tot. Al: 34.0 Ext. Al: 15.0 Fe: 4.0 Mn: 3.0 SiO2: 1.19

ID: 3B2-107 Name: SILVER LAKE State: FL Date: 05DEC84
Sample Type: REGULAR Latitude: 27-33'58"N Longitude: 81-31'25"W
Elevation: 42 Surface Temp: 20.9 Stratified: MIXED Site Depth: 7.6
Lake Area: 8 Watershed Area: 88 WA/LA: 11.3 Hydro Type: DRAINAGE
Residence Time: 0.87 Secchi Depth: 4.8 Turbidity: 0.3 Color: 5
Closed pH: 5.03 Equil. pH: 4.97 ANC: -15.4 DOC: 0.88
Closed DIC: 0.56 Equil. DIC: 0.41 Meas. Cond: 36.4 Cal. Cond: 34.5
Ca: 54.0 Mg: 71.2 Na: 120.2 K: 11.4 NH4: 0.1
SO4: 80.4 HCO3: 0.8 Cl: 129.5 NO3: 3.0 F: 0.4
Sum Cations: 268.7 Sum Anions: 214.0 Cations/Anions: 1.26 Tot. P: 4.0
Tot. Al: 158.0 Ext. Al: 7.0 Fe: 3.0 Mn: 3.0 SiO2: 0.98

ID: 3B2-111 Name: LAKE ISIS State: FL Date: 05DEC84
Sample Type: REGULAR Latitude: 27-36'45"N Longitude: 81-30'40"W
Elevation: 35 Surface Temp: 21.3 Stratified: MIXED Site Depth: 13.4
Lake Area: 21 Watershed Area: 215 WA/LA: 10.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 6.3 Turbidity: 0.6 Color: 5
Closed pH: 7.45 Equil. pH: 7.52 ANC: 322.8 DOC: 1.00
Closed DIC: 3.89 Equil. DIC: 3.76 Meas. Cond: 209.0 Cal. Cond: 241.1
Ca: 666.7 Mg: 772.3 Na: 274.9 K: 140.9 NH4: 0.6
SO4: 941.1 HCO3: 294.7 Cl: 392.1 NO3: 243.6 F: 7.9
Sum Cations: 1855.3 Sum Anions: 1882.6 Cations/Anions: 0.99 Tot. P: 2.0
Tot. Al: 52.0 Ext. Al: 32.0 Fe: 0.0 Mn: 3.0 SiO2: 1.43

(continued)

TABLE 3-1 (continued)

ID: 3B2-113 Name: LAKE RUTH State: FL Date: 03DEC84
Sample Type: REGULAR Latitude: 27-25'45"N Longitude: 81-27'30"W
Elevation: 28 Surface Temp: 20.0 Stratified: MIXED Site Depth: 6.4
Lake Area: 33 Watershed Area: 80 WA/LA: 2.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.6 Turbidity: 1.3 Color: 65
Closed pH: 5.12 Equil. pH: 4.99 ANC: -9.8 DOC: 5.81
Closed DIC: 0.44 Equil. DIC: 0.38 Meas. Cond: 49.7 Cal. Cond: 50.6
Ca: 90.9 Mg: 79.8 Na: 174.9 K: 18.8 NH4: 1.0
SO4: 140.1 HCO3: 1.1 Cl: 202.8 NO3: 1.2 F: 2.4
Sum Cations: 376.4 Sum Anions: 347.6 Cations/Anions: 1.08 Tot. P: 35.0
Tot. Al: 115.0 Ext. Al: 34.0 Fe: 55.0 Mn: 4.0 SiO2: 0.67

ID: 3B3-001 Name: (NO NAME) State: FL Date: 14DEC84
Sample Type: REGULAR Latitude: 30-33'18"N Longitude: 84-21'17"W
Elevation: 38 Surface Temp: 16.4 Stratified: MIXED Site Depth: 0.9
Lake Area: 6 Watershed Area: 31 WA/LA: 4.8 Hydro Type: DRAINAGE
Residence Time: 0.19 Secchi Depth: 0.6 Turbidity: 9.6 Color: 150
Closed pH: 7.17 Equil. pH: 8.46 ANC: 1783.4 DOC: 18.13
Closed DIC: 22.40 Equil. DIC: 20.35 Meas. Cond: 198.0 Cal. Cond: 217.1
Ca: 1006.0 Mg: 793.6 Na: 190.6 K: 121.3 NH4: 1.2
SO4: 38.3 HCO3: 1727.1 Cl: 202.0 NO3: 0.0 F: 5.6
Sum Cations: 2112.7 Sum Anions: 1987.4 Cations/Anions: 1.06 Tot. P: 202.0
Tot. Al: 75.0 Ext. Al: 0.0 Fe: 2638.0 Mn: 149.0 SiO2: 6.40

ID: 3B3-002 Name: LAKE HIAWATHA State: FL Date: 14DEC84
Sample Type: REGULAR Latitude: 30-24'47"N Longitude: 84-21'00"W
Elevation: 11 Surface Temp: 15.7 Stratified: MIXED Site Depth: 0.9
Lake Area: 17 Watershed Area: 2867 WA/LA: 172.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.9 Turbidity: 0.7 Color: 100
Closed pH: 4.64 Equil. pH: 4.61 ANC: -28.9 DOC: 11.34
Closed DIC: 0.72 Equil. DIC: 0.31 Meas. Cond: 25.1 Cal. Cond: 26.3
Ca: 40.5 Mg: 29.7 Na: 80.3 K: 3.8 NH4: 1.0
SO4: 27.5 HCO3: 0.4 Cl: 96.8 NO3: 0.9 F: 0.6
Sum Cations: 178.7 Sum Anions: 126.2 Cations/Anions: 1.42 Tot. P: 11.0
Tot. Al: 196.0 Ext. Al: 83.0 Fe: 188.0 Mn: 17.0 SiO2: 0.07

ID: 3B3-006 Name: MATTHIS LAKE State: FL Date: 13DEC84
Sample Type: REGULAR Latitude: 29-47'32"N Longitude: 83-00'36"W
Elevation: 17 Surface Temp: 14.8 Stratified: MIXED Site Depth: 1.5
Lake Area: 18 Watershed Area: 57 WA/LA: 3.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.0 Turbidity: 0.6 Color: 20
Closed pH: 8.04 Equil. pH: 7.94 ANC: 578.1 DOC: 7.89
Closed DIC: 6.26 Equil. DIC: 5.84 Meas. Cond: 81.1 Cal. Cond: 83.1
Ca: 646.7 Mg: 79.0 Na: 91.1 K: 0.1 NH4: 0.8
SO4: 60.2 HCO3: 494.6 Cl: 114.3 NO3: 0.5 F: 1.2
Sum Cations: 817.8 Sum Anions: 673.2 Cations/Anions: 1.21 Tot. P: 7.0
Tot. Al: 45.0 Ext. Al: 20.0 Fe: 20.0 Mn: 3.0 SiO2: 0.09

ID: 3B3-010 Name: GREEN POND State: FL Date: 11DEC84
Sample Type: REGULAR Latitude: 29-33'13"N Longitude: 82-02'13"W
Elevation: 27 Surface Temp: 16.2 Stratified: MIXED Site Depth: 5.8
Lake Area: 12 Watershed Area: 54 WA/LA: 4.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.9 Turbidity: 1.0 Color: 5
Closed pH: 5.84 Equil. pH: 5.83 ANC: -4.7 DOC: 0.63
Closed DIC: 0.40 Equil. DIC: 0.26 Meas. Cond: 33.1 Cal. Cond: 32.9
Ca: 34.6 Mg: 55.4 Na: 157.0 K: 4.6 NH4: 0.4
SO4: 68.9 HCO3: 5.6 Cl: 176.6 NO3: 1.3 F: 0.4
Sum Cations: 253.2 Sum Anions: 252.8 Cations/Anions: 1.00 Tot. P: 5.0
Tot. Al: 144.0 Ext. Al: 0.0 Fe: 1.0 Mn: 0.0 SiO2: 0.20

(continued)

TABLE 3-1 (continued)

ID: 383-013 Name: LAKE LOU State: FL Date: 10DEC84
Sample Type: REGULAR Latitude: 29-13'57"N Longitude: 81-51'17"W
Elevation: 14 Surface Temp: 16.0 Stratified: MIXED Site Depth: 4.6
Lake Area: 46 Watershed Area: 1696 WA/LA: 37.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.3 Turbidity: 1.8 Color: 105
Closed pH: 6.38 Equil. pH: 6.56 ANC: 60.8 DOC: 13.57
Closed DIC: 0.61 Equil. DIC: 0.60 Meas. Cond: 38.8 Cal. Cond: 35.8
Ca: 140.0 Mg: 93.0 Na: 126.1 K: 9.6 NH4: 1.1
SO4: 41.4 HCO3: 22.8 Cl: 141.0 NO3: 1.0 F: 1.2
Sum Cations: 370.2 Sum Anions: 207.5 Cations/Anions: 1.78 Tot. P: 21.0
Tot. Al: 30.0 Ext. Al: 0.0 Fe: 42.0 Mn: 3.0 SiO2: 0.85

ID: 383-017 Name: TSALA APOPKA LAKE State: FL Date: 10DEC84
Sample Type: REGULAR Latitude: 28-55'58"N Longitude: 82-22'25"W
Elevation: 13 Surface Temp: 15.0 Stratified: MIXED Site Depth: 3.7
Lake Area: 6087 Watershed Area: * WA/LA: * Hydro Type: DRAINAGE
Residence Time: * Secchi Depth: 3.4 Turbidity: 0.6 Color: 30
Closed pH: 7.38 Equil. pH: 8.26 ANC: 932.5 DOC: 10.37
Closed DIC: 11.15 Equil. DIC: 9.78 Meas. Cond: 126.6 Cal. Cond: 128.0
Ca: 934.6 Mg: 125.0 Na: 228.4 K: 5.0 NH4: 0.9
SO4: 17.1 HCO3: 780.5 Cl: 223.7 NO3: 0.0 F: 3.8
Sum Cations: 1293.9 Sum Anions: 1033.4 Cations/Anions: 1.25 Tot. P: 8.0
Tot. Al: 9.0 Ext. Al: 0.0 Fe: 17.0 Mn: 3.0 SiO2: 3.72

ID: 383-023 Name: MOON LAKE State: FL Date: 10DEC84
Sample Type: REGULAR Latitude: 28-42'55"N Longitude: 82-16'33"W
Elevation: 13 Surface Temp: 14.3 Stratified: MIXED Site Depth: 2.1
Lake Area: 29 Watershed Area: 352 WA/LA: 12.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.5 Turbidity: 1.2 Color: 50
Closed pH: 7.25 Equil. pH: 7.97 ANC: 1015.4 DOC: 14.02
Closed DIC: 10.40 Equil. DIC: 8.97 Meas. Cond: 120.5 Cal. Cond: 123.4
Ca: 861.3 Mg: 123.1 Na: 239.7 K: 15.3 NH4: 1.3
SO4: 4.8 HCO3: 688.1 Cl: 273.1 NO3: 0.0 F: 3.7
Sum Cations: 1240.6 Sum Anions: 975.8 Cations/Anions: 1.27 Tot. P: 22.0
Tot. Al: 20.0 Ext. Al: 0.0 Fe: 36.0 Mn: 2.0 SiO2: 3.80

ID: 383-024 Name: HOLTS LAKE State: FL Date: 09DEC84
Sample Type: REGULAR Latitude: 28-41'11"N Longitude: 81-33'23"W
Elevation: 32 Surface Temp: 16.3 Stratified: MIXED Site Depth: 7.0
Lake Area: 13 Watershed Area: 73 WA/LA: 5.8 Hydro Type: DRAINAGE
Residence Time: 1.76 Secchi Depth: 1.1 Turbidity: 4.9 Color: 55
Closed pH: 7.55 Equil. pH: 8.66 ANC: 2065.3 DOC: 10.44
Closed DIC: 25.71 Equil. DIC: 25.41 Meas. Cond: 309.0 Cal. Cond: 334.2
Ca: 1021.0 Mg: 554.3 Na: 1241.1 K: 236.7 NH4: 18.0
SO4: 188.8 HCO3: 2142.2 Cl: 646.0 NO3: 15.1 F: 7.5
Sum Cations: 3071.0 Sum Anions: 3028.6 Cations/Anions: 1.01 Tot. P: 58.0
Tot. Al: 99.0 Ext. Al: 25.0 Fe: 9.0 Mn: 5.0 SiO2: 0.31

ID: 383-029 Name: LAKE SHERWOOD State: FL Date: 08DEC84
Sample Type: REGULAR Latitude: 28-32'59"N Longitude: 81-29'57"W
Elevation: 23 Surface Temp: 16.9 Stratified: MIXED Site Depth: 1.5
Lake Area: 71 Watershed Area: 316 WA/LA: 4.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.8 Turbidity: 0.6 Color: 45
Closed pH: 7.48 Equil. pH: 8.62 ANC: 1535.6 DOC: 9.25
Closed DIC: 18.98 Equil. DIC: 18.37 Meas. Cond: 222.0 Cal. Cond: 236.3
Ca: 1437.6 Mg: 502.1 Na: 231.0 K: 84.7 NH4: 3.5
SO4: 272.7 HCO3: 1349.9 Cl: 299.0 NO3: 6.8 F: 3.7
Sum Cations: 2259.0 Sum Anions: 1943.4 Cations/Anions: 1.16 Tot. P: 17.0
Tot. Al: 11.0 Ext. Al: 0.0 Fe: 26.0 Mn: 3.0 SiO2: 0.59

(continued)

TABLE 3-1 (continued)

ID: 383-032 Name: GOOSE LAKE State: FL Date: 11DEC84
Sample Type: REGULAR Latitude: 28-21'23"N Longitude: 82-28'08"W
Elevation: 23 Surface Temp: 15.3 Stratified: MIXED Site Depth: 1.8
Lake Area: 14 Watershed Area: 36 WA/LA: 2.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.0 Turbidity: 0.9 Color: 45
Closed pH: 6.41 Equil. pH: 6.80 ANC: 77.3 DOC: 9.21
Closed DIC: 1.23 Equil. DIC: 0.85 Meas. Cond: 38.8 Cal. Cond: 38.4
Ca: 171.8 Mg: 86.9 Na: 83.5 K: 5.9 NH4: 0.9
SO4: 102.9 HCO3: 49.1 Cl: 108.0 NO3: 0.3 F: 2.7
Sum Cations: 349.1 Sum Anions: 263.1 Cations/Anions: 1.33 Tot. P: 11.0
Tot. Al: 43.0 Ext. Al: 6.0 Fe: 7.0 Mn: 1.0 SiO2: 0.04

ID: 383-052 Name: LAKE HELENE State: FL Date: 05DEC84
Sample Type: REGULAR Latitude: 28-10'24"N Longitude: 81-48'13"W
Elevation: 43 Surface Temp: 20.7 Stratified: MIXED Site Depth: 3.9
Lake Area: 20 Watershed Area: 70 WA/LA: 3.5 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 2.5 Turbidity: 0.9 Color: 20
Closed pH: 7.32 Equil. pH: 7.51 ANC: 288.8 DOC: 7.03
Closed DIC: 2.83 Equil. DIC: 2.84 Meas. Cond: 174.0 Cal. Cond: 183.8
Ca: 232.6 Mg: 722.2 Na: 424.1 K: 120.4 NH4: 0.8
SO4: 501.8 HCO3: 205.7 Cl: 674.2 NO3: 4.8 F: 6.9
Sum Cations: 1500.3 Sum Anions: 1393.7 Cations/Anions: 1.08 Tot. P: 13.0
Tot. Al: 23.0 Ext. Al: 6.0 Fe: 3.0 Mn: 3.0 SiO2: 0.06

ID: 383-054 Name: (NO NAME) State: FL Date: 09DEC84
Sample Type: REGULAR Latitude: 28-47'11"N Longitude: 81-31'27"W
Elevation: 18 Surface Temp: 14.1 Stratified: MIXED Site Depth: 0.9
Lake Area: 18 Watershed Area: 137 WA/LA: 7.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.4 Turbidity: 4.5 Color: 50
Closed pH: 7.99 Equil. pH: 8.59 ANC: 2458.6 DOC: 19.36
Closed DIC: 28.79 Equil. DIC: 31.41 Meas. Cond: 432.0 Cal. Cond: 527.0
Ca: 2880.7 Mg: 1104.8 Na: 312.1 K: 59.9 NH4: 41.6
SO4: 1728.1 HCO3: 2531.9 Cl: 270.8 NO3: 5.9 F: 10.6
Sum Cations: 4399.0 Sum Anions: 4568.8 Cations/Anions: 0.96 Tot. P: 42.0
Tot. Al: 172.0 Ext. Al: 24.0 Fe: 1.0 Mn: 5.0 SiO2: 0.13

ID: 383-060 Name: (NO NAME) State: FL Date: 11DEC84
Sample Type: REGULAR Latitude: 29-19'55"N Longitude: 82-28'05"W
Elevation: 16 Surface Temp: 14.5 Stratified: MIXED Site Depth: 2.4
Lake Area: 6 Watershed Area: 106 WA/LA: 18.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.5 Turbidity: 0.3 Color: 15
Closed pH: 8.25 Equil. pH: 8.41 ANC: 1458.1 DOC: 4.18
Closed DIC: 15.94 Equil. DIC: 15.74 Meas. Cond: 153.0 Cal. Cond: 157.1
Ca: 1324.3 Mg: 161.5 Na: 84.8 K: 9.8 NH4: 1.2
SO4: 7.1 HCO3: 1236.7 Cl: 106.4 NO3: 0.0 F: 2.7
Sum Cations: 1581.7 Sum Anions: 1364.7 Cations/Anions: 1.16 Tot. P: 12.0
Tot. Al: 17.0 Ext. Al: 0.0 Fe: 1.0 Mn: 0.0 SiO2: 0.17

ID: 383-068 Name: HAMMOCK LAKE State: FL Date: 13DEC84
Sample Type: REGULAR Latitude: 29-45'52"N Longitude: 83-01'07"W
Elevation: 15 Surface Temp: 13.4 Stratified: MIXED Site Depth: 2.7
Lake Area: 11 Watershed Area: 282 WA/LA: 26.6 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 1.8 Turbidity: 1.5 Color: 105
Closed pH: 7.44 Equil. pH: 8.55 ANC: 2542.6 DOC: 18.24
Closed DIC: 28.44 Equil. DIC: 28.79 Meas. Cond: 251.0 Cal. Cond: 278.5
Ca: 2187.6 Mg: 306.3 Na: 141.5 K: 1.2 NH4: 0.9
SO4: 22.5 HCO3: 2422.0 Cl: 183.9 NO3: 0.7 F: 2.2
Sum Cations: 2637.6 Sum Anions: 2647.7 Cations/Anions: 1.00 Tot. P: 18.0
Tot. Al: 56.0 Ext. Al: 0.0 Fe: 616.0 Mn: 6.0 SiO2: 4.72

(continued)

TABLE 3-1 (continued)

ID: 3B3-071 Name: GEORGES POND State: FL Date: 11DEC84
Sample Type: REGULAR Latitude: 29-32'02"N Longitude: 82-18'42"W
Elevation: 21 Surface Temp: 14.5 Stratified: MIXED Site Depth: 1.2
Lake Area: 22 Watershed Area: 132 WA/LA: 6.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.8 Turbidity: 5.1 Color: 100
Closed pH: 6.88 Equil. pH: 7.30 ANC: 284.0 DOC: 18.40
Closed DIC: 2.83 Equil. DIC: 2.79 Meas. Cond: 72.5 Cal. Cond: 68.6
Ca: 366.0 Mg: 98.7 Na: 202.3 K: 23.5 NH4: 6.8
SO4: 29.1 HCO3: 194.2 Cl: 222.6 NO3: 13.0 F: 5.4
Sum Cations: 697.4 Sum Anions: 464.5 Cations/Anions: 1.50 Tot. P: 376.0
Tot. Al: 88.0 Ext. Al: 7.0 Fe: 194.0 Mn: 47.0 SiO2: 0.43

ID: 3B3-074 Name: LAKE STANDISH State: FL Date: 09DEC84
Sample Type: REGULAR Latitude: 28-42'02"N Longitude: 81-33'08"W
Elevation: 20 Surface Temp: 13.3 Stratified: MIXED Site Depth: 1.8
Lake Area: 20 Watershed Area: 199 WA/LA: 10.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.3 Turbidity: 0.6 Color: 105
Closed pH: 6.36 Equil. pH: 7.93 ANC: 469.3 DOC: 22.71
Closed DIC: 5.49 Equil. DIC: 5.32 Meas. Cond: 141.0 Cal. Cond: 146.3
Ca: 323.6 Mg: 324.7 Na: 523.3 K: 126.1 NH4: 5.2
SO4: 200.5 HCO3: 369.4 Cl: 538.8 NO3: 0.0 F: 6.1
Sum Cations: 1302.9 Sum Anions: 1115.6 Cations/Anions: 1.17 Tot. P: 18.0
Tot. Al: 25.0 Ext. Al: 0.0 Fe: 69.0 Mn: 32.0 SiO2: 1.15

ID: 3B3-075 Name: SAXON LAKE State: FL Date: 10DEC84
Sample Type: REGULAR Latitude: 28-11'50"N Longitude: 82-26'50"W
Elevation: 21 Surface Temp: 16.4 Stratified: MIXED Site Depth: 4.9
Lake Area: 29 Watershed Area: * WA/LA: * Hydro Type: DRAINAGE
Residence Time: * Secchi Depth: 2.0 Turbidity: 2.3 Color: 40
Closed pH: 6.97 Equil. pH: 7.46 ANC: 273.2 DOC: 9.69
Closed DIC: 3.61 Equil. DIC: 3.07 Meas. Cond: 202.0 Cal. Cond: 217.9
Ca: 422.9 Mg: 468.1 Na: 703.8 K: 180.1 NH4: 2.7
SO4: 607.9 HCO3: 212.5 Cl: 792.7 NO3: 4.9 F: 5.4
Sum Cations: 1777.8 Sum Anions: 1623.8 Cations/Anions: 1.09 Tot. P: 23.0
Tot. Al: 78.0 Ext. Al: 3.0 Fe: 11.0 Mn: 2.0 SiO2: 0.49

ID: 3B3-077 Name: PRAIRIE LAKE State: FL Date: 09DEC84
Sample Type: REGULAR Latitude: 28-35'35"N Longitude: 81-30'30"W
Elevation: 23 Surface Temp: 15.2 Stratified: MIXED Site Depth: 2.4
Lake Area: 14 Watershed Area: 166 WA/LA: 11.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.4 Turbidity: 0.4 Color: 60
Closed pH: 6.44 Equil. pH: 7.92 ANC: 252.6 DOC: 11.38
Closed DIC: 5.43 Equil. DIC: 3.33 Meas. Cond: 107.0 Cal. Cond: 107.2
Ca: 282.3 Mg: 330.4 Na: 210.5 K: 128.7 NH4: 3.8
SO4: 222.8 HCO3: 216.0 Cl: 324.4 NO3: 3.5 F: 1.7
Sum Cations: 955.9 Sum Anions: 768.9 Cations/Anions: 1.24 Tot. P: 13.0
Tot. Al: 40.0 Ext. Al: 7.0 Fe: 50.0 Mn: 16.0 SiO2: 0.30

ID: 3B3-082 Name: (NO NAME) State: FL Date: 11DEC84
Sample Type: REGULAR Latitude: 29-27'33"N Longitude: 81-31'54"W
Elevation: 13 Surface Temp: 15.0 Stratified: MIXED Site Depth: 3.7
Lake Area: 5 Watershed Area: 31 WA/LA: 6.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.9 Turbidity: 0.9 Color: 85
Closed pH: 6.60 Equil. pH: 7.49 ANC: 305.1 DOC: 13.56
Closed DIC: 5.01 Equil. DIC: 3.49 Meas. Cond: 148.0 Cal. Cond: 154.3
Ca: 265.0 Mg: 429.8 Na: 458.5 K: 177.9 NH4: 2.8
SO4: 339.4 HCO3: 225.1 Cl: 550.1 NO3: 2.1 F: 3.6
Sum Cations: 1334.0 Sum Anions: 1120.5 Cations/Anions: 1.19 Tot. P: 24.0
Tot. Al: 166.0 Ext. Al: 3.0 Fe: 22.0 Mn: 9.0 SiO2: 0.45

(continued)

TABLE 3-1 (continued)

ID: 383-089 Name: BIRD POND State: FL Date: 10DEC84
Sample Type: REGULAR Latitude: 29-11'48"N Longitude: 82-20'18"W
Elevation: 15 Surface Temp: 13.0 Stratified: MIXED Site Depth: 1.2
Lake Area: 4 Watershed Area: 52 WA/LA: 13.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.2 Turbidity: 0.4 Color: 30
Closed pH: 7.65 Equil. pH: 8.54 ANC: 3263.2 DOC: 11.06
Closed DIC: 37.33 Equil. DIC: 40.48 Meas. Cond: 313.0 Cal. Cond: 362.8
Ca: 3040.9 Mg: 249.7 Na: 124.0 K: 17.0 NH4: 5.0
SO4: 21.9 HCO3: 3270.2 Cl: 134.3 NO3: 0.2 F: 5.3
Sum Cations: 3436.6 Sum Anions: 3475.9 Cations/Anions: 0.99 Tot. P: 11.0
Tot. Al: 8.0 Ext. Al: 0.0 Fe: 8.0 Mn: 7.0 SiO2: 1.95

ID: 383-109 Name: (NO NAME) State: FL Date: 10DEC84
Sample Type: REGULAR Latitude: 28-48'19"N Longitude: 82-17'07"W
Elevation: 12 Surface Temp: 12.8 Stratified: MIXED Site Depth: 1.2
Lake Area: 20 Watershed Area: 104 WA/LA: 5.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.2 Turbidity: 3.0 Color: 30
Closed pH: 7.24 Equil. pH: 8.54 ANC: 3639.8 DOC: 8.77
Closed DIC: 39.63 Equil. DIC: 42.59 Meas. Cond: 314.0 Cal. Cond: 359.0
Ca: 2989.0 Mg: 174.7 Na: 206.2 K: 4.8 NH4: 3.6
SO4: 3.2 HCO3: 3164.8 Cl: 229.9 NO3: 0.3 F: 5.4
Sum Cations: 3378.3 Sum Anions: 3433.9 Cations/Anions: 0.98 Tot. P: 9.0
Tot. Al: 15.0 Ext. Al: 0.0 Fe: 177.0 Mn: 34.0 SiO2: 7.24

ID: 383-110 Name: LAKE BINGHAM State: FL Date: 08DEC84
Sample Type: REGULAR Latitude: 28-44'22"N Longitude: 81-18'37"W
Elevation: 12 Surface Temp: 16.3 Stratified: MIXED Site Depth: 1.8
Lake Area: 7 Watershed Area: 34 WA/LA: 5.1 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 2.1 Turbidity: 1.2 Color: 35
Closed pH: 6.13 Equil. pH: 6.52 ANC: 33.4 DOC: 7.67
Closed DIC: 0.81 Equil. DIC: 0.63 Meas. Cond: 77.8 Cal. Cond: 78.0
Ca: 200.1 Mg: 165.8 Na: 268.8 K: 19.9 NH4: 0.6
SO4: 241.5 HCO3: 24.5 Cl: 284.9 NO3: 0.0 F: 2.0
Sum Cations: 655.5 Sum Anions: 552.9 Cations/Anions: 1.19 Tot. P: 9.0
Tot. Al: 57.0 Ext. Al: 7.0 Fe: 10.0 Mn: 3.0 SiO2: 0.17

ID: 383-116 Name: MOODY LAKE State: FL Date: 10DEC84
Sample Type: REGULAR Latitude: 28-24'28"N Longitude: 82-17'45"W
Elevation: 33 Surface Temp: 15.7 Stratified: MIXED Site Depth: 2.7
Lake Area: 82 Watershed Area: 865 WA/LA: 10.5 Hydro Type: DRAINAGE
Residence Time: 0.33 Secchi Depth: 2.5 Turbidity: 0.4 Color: 65
Closed pH: 6.86 Equil. pH: 8.08 ANC: 688.0 DOC: 10.10
Closed DIC: 10.26 Equil. DIC: 7.05 Meas. Cond: 168.0 Cal. Cond: 173.3
Ca: 503.5 Mg: 571.5 Na: 284.9 K: 213.0 NH4: 1.9
SO4: 62.9 HCO3: 587.4 Cl: 662.9 NO3: 3.7 F: 8.0
Sum Cations: 1574.9 Sum Anions: 1332.3 Cations/Anions: 1.18 Tot. P: 26.0
Tot. Al: 20.0 Ext. Al: 0.0 Fe: 44.0 Mn: 3.0 SiO2: 0.46

ID: 383-117 Name: KEYSTONE LAKE State: FL Date: 10DEC84
Sample Type: REGULAR Latitude: 28-07'52"N Longitude: 82-35'25"W
Elevation: 13 Surface Temp: 17.1 Stratified: MIXED Site Depth: 3.7
Lake Area: 167 Watershed Area: 445 WA/LA: 2.7 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 2.3 Turbidity: 0.8 Color: 30
Closed pH: 6.80 Equil. pH: 6.66 ANC: 48.2 DOC: 7.75
Closed DIC: 0.62 Equil. DIC: 0.60 Meas. Cond: 90.7 Cal. Cond: 92.6
Ca: 249.5 Mg: 152.6 Na: 308.0 K: 56.2 NH4: 0.8
SO4: 243.6 HCO3: 25.3 Cl: 380.8 NO3: 0.0 F: 4.3
Sum Cations: 767.4 Sum Anions: 654.1 Cations/Anions: 1.17 Tot. P: 9.0
Tot. Al: 61.0 Ext. Al: 4.0 Fe: 21.0 Mn: 3.0 SiO2: 0.15

(continued)

TABLE 3-1 (continued)

ID: 3B3-129 Name: LAKE SUNSHINE State: FL Date: 09DEC84
Sample Type: REGULAR Latitude: 28-55'32"N Longitude: 81-55'20"W
Elevation: 21 Surface Temp: 14.2 Stratified: MIXED Site Depth: 2.4
Lake Area: 5 Watershed Area: 57 WA/LA: 11.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.0 Turbidity: 290.0 Color: 300
Closed pH: 6.42 Equil. pH: 7.08 ANC: 81.1 DOC: 7.44
Closed DIC: 1.71 Equil. DIC: 1.27 Meas. Cond: 50.9 Cal. Cond: 50.1
Ca: 177.8 Mg: 104.8 Na: 136.6 K: 27.1 NH4: 1.7
SO4: 92.2 HCO3: 78.3 Cl: 147.8 NO3: 37.3 F: 2.6
Sum Cations: 448.1 Sum Anions: 358.3 Cations/Anions: 1.25 Tot. P: 122.0
Tot. Al: 1357.4 Ext. Al: 27.0 Fe: 28.0 Mn: 5.0 SiO2: 1.34

ID: 3B3-132 Name: SADDLEBAG LAKE State: FL Date: 04DEC84
Sample Type: REGULAR Latitude: 27-53'52"N Longitude: 81-27'52"W
Elevation: 32 Surface Temp: 21.2 Stratified: MIXED Site Depth: 13.4
Lake Area: 117 Watershed Area: 554 WA/LA: 4.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.4 Turbidity: 0.6 Color: 15
Closed pH: 7.55 Equil. pH: 7.71 ANC: 326.1 DOC: 5.43
Closed DIC: 3.78 Equil. DIC: 3.32 Meas. Cond: 132.0 Cal. Cond: 136.7
Ca: 448.8 Mg: 335.4 Na: 246.6 K: 140.1 NH4: 5.3
SO4: 397.7 HCO3: 257.6 Cl: 327.2 NO3: 11.1 F: 2.4
Sum Cations: 1176.2 Sum Anions: 996.7 Cations/Anions: 1.18 Tot. P: 8.0
Tot. Al: 36.0 Ext. Al: 28.0 Fe: 8.0 Mn: 0.0 SiO2: 0.31

ID: 3B3-133 Name: LOFTON PONDS (SOUTH) State: FL Date: 14DEC84
Sample Type: REGULAR Latitude: 30-21'12"N Longitude: 84-22'55"W
Elevation: 10 Surface Temp: 14.6 Stratified: MIXED Site Depth: 2.4
Lake Area: 11 Watershed Area: 137 WA/LA: 12.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.4 Turbidity: 0.4 Color: 5
Closed pH: 4.76 Equil. pH: 4.69 ANC: -26.2 DOC: 3.93
Closed DIC: 0.61 Equil. DIC: 0.26 Meas. Cond: 16.3 Cal. Cond: 17.7
Ca: 12.1 Mg: 14.9 Na: 53.5 K: 2.6 NH4: 1.8
SO4: 32.1 HCO3: 0.5 Cl: 53.9 NO3: 0.8 F: 0.4
Sum Cations: 103.2 Sum Anions: 87.7 Cations/Anions: 1.18 Tot. P: 3.0
Tot. Al: 37.0 Ext. Al: 9.0 Fe: 8.0 Mn: 29.0 SiO2: 0.01

ID: 3B3-136 Name: LAKE JEFFERY State: FL Date: 13DEC84
Sample Type: REGULAR Latitude: 30-12'32"N Longitude: 82-41'30"W
Elevation: 40 Surface Temp: 14.5 Stratified: MIXED Site Depth: 3.4
Lake Area: 47 Watershed Area: 394 WA/LA: 8.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.5 Turbidity: 0.5 Color: 35
Closed pH: 5.79 Equil. pH: 6.21 ANC: 15.7 DOC: 6.43
Closed DIC: 1.13 Equil. DIC: 0.40 Meas. Cond: 28.4 Cal. Cond: 25.2
Ca: 61.5 Mg: 42.3 Na: 118.8 K: 1.9 NH4: 0.3
SO4: 23.3 HCO3: 11.8 Cl: 137.7 NO3: 0.0 F: 1.4
Sum Cations: 225.5 Sum Anions: 174.2 Cations/Anions: 1.29 Tot. P: 9.0
Tot. Al: 36.0 Ext. Al: 0.0 Fe: 20.0 Mn: 7.0 SiO2: 0.31

ID: 3B3-148 Name: (NO NAME) State: FL Date: 05DEC84
Sample Type: REGULAR Latitude: 28-15'51"N Longitude: 81-35'43"W
Elevation: 31 Surface Temp: 21.1 Stratified: MIXED Site Depth: 3.4
Lake Area: 6 Watershed Area: 18 WA/LA: 3.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.7 Turbidity: 1.5 Color: 40
Closed pH: 5.74 Equil. pH: 6.00 ANC: 39.2 DOC: 10.69
Closed DIC: 0.58 Equil. DIC: 0.70 Meas. Cond: 79.2 Cal. Cond: 77.3
Ca: 122.6 Mg: 181.5 Na: 243.9 K: 82.8 NH4: 4.2
SO4: 192.8 HCO3: 9.6 Cl: 327.2 NO3: 1.7 F: 3.8
Sum Cations: 637.0 Sum Anions: 535.2 Cations/Anions: 1.19 Tot. P: 13.0
Tot. Al: 210.0 Ext. Al: 16.0 Fe: 10.0 Mn: 12.0 SiO2: 0.07

(continued)

TABLE 3-1 (continued)

ID: 3B3-157 Name: (NO NAME) State: FL Date: 10DEC84
Sample Type: REGULAR Latitude: 28-17'03"N Longitude: 82-19'07"W
Elevation: 30 Surface Temp: 15.1 Stratified: MIXED Site Depth: 2.7
Lake Area: 18 Watershed Area: 158 WA/LA: 8.8 Hydro Type: DRAINAGE
Residence Time: 0.37 Secchi Depth: 1.3 Turbidity: 1.9 Color: 105
Closed pH: 6.47 Equil. pH: 7.13 ANC: 142.5 DOC: 11.22
Closed DIC: 2.40 Equil. DIC: 1.34 Meas. Cond: 91.3 Cal. Cond: 92.7
Ca: 163.8 Mg: 213.1 Na: 252.3 K: 144.8 NH4: 5.2
SO4: 82.9 HCO3: 83.7 Cl: 473.9 NO3: 12.3 F: 10.0
Sum Cations: 779.2 Sum Anions: 662.9 Cations/Anions: 1.18 Tot. P: 29.0
Tot. Al: 55.0 Ext. Al: 6.0 Fe: 93.0 Mn: 5.0 SiO2: 0.08

ID: 3B3-162 Name: LAKE THOMAS State: FL Date: 10DEC84
Sample Type: REGULAR Latitude: 28-08'47"N Longitude: 82-29'15"W
Elevation: 19 Surface Temp: 17.0 Stratified: MIXED Site Depth: 4.9
Lake Area: 23 Watershed Area: 98 WA/LA: 4.4 Hydro Type: DRAINAGE
Residence Time: 0.98 Secchi Depth: 2.9 Turbidity: 1.4 Color: 20
Closed pH: 6.76 Equil. pH: 6.79 ANC: 73.2 DOC: 8.07
Closed DIC: 0.97 Equil. DIC: 0.78 Meas. Cond: 125.6 Cal. Cond: 129.9
Ca: 268.7 Mg: 161.7 Na: 563.8 K: 61.5 NH4: 1.0
SO4: 272.7 HCO3: 42.0 Cl: 634.7 NO3: 0.0 F: 5.8
Sum Cations: 1056.9 Sum Anions: 955.3 Cations/Anions: 1.11 Tot. P: 15.0
Tot. Al: 37.0 Ext. Al: 0.0 Fe: 5.0 Mn: 3.0 SiO2: 0.09

ID: 3B3-168 Name: HAVEN WINQUIPIN State: FL Date: 13DEC84
Sample Type: REGULAR Latitude: 29-33'54"N Longitude: 82-45'03"W
Elevation: 17 Surface Temp: 13.8 Stratified: MIXED Site Depth: 1.5
Lake Area: 13 Watershed Area: 117 WA/LA: 9.2 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 0.5 Turbidity: 2.0 Color: 175
Closed pH: 5.98 Equil. pH: 6.51 ANC: 67.5 DOC: 19.65
Closed DIC: 1.45 Equil. DIC: 0.76 Meas. Cond: 38.0 Cal. Cond: 34.7
Ca: 171.7 Mg: 57.1 Na: 128.0 K: 4.6 NH4: 2.5
SO4: 12.7 HCO3: 21.0 Cl: 159.2 NO3: 1.5 F: 1.2
Sum Cations: 364.6 Sum Anions: 195.5 Cations/Anions: 1.86 Tot. P: 28.0
Tot. Al: 135.0 Ext. Al: 22.5 Fe: 235.5 Mn: 11.0 SiO2: 0.11

ID: 3B3-169 Name: (NO NAME) State: FL Date: 10DEC84
Sample Type: REGULAR Latitude: 28-26'10"N Longitude: 82-23'15"W
Elevation: 21 Surface Temp: 13.4 Stratified: MIXED Site Depth: 1.2
Lake Area: 6 Watershed Area: 637 WA/LA: 111.8 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 0.4 Turbidity: 31.0 Color: 80
Closed pH: 6.57 Equil. pH: 6.64 ANC: 75.9 DOC: 12.16
Closed DIC: 0.67 Equil. DIC: 1.41 Meas. Cond: 38.7 Cal. Cond: 37.3
Ca: 128.4 Mg: 57.2 Na: 100.9 K: 51.0 NH4: 5.8
SO4: 48.1 HCO3: 46.2 Cl: 140.8 NO3: 3.7 F: 6.8
Sum Cations: 343.7 Sum Anions: 245.7 Cations/Anions: 1.40 Tot. P: 136.0
Tot. Al: 950.0 Ext. Al: 18.0 Fe: 62.0 Mn: 6.0 SiO2: 1.18

ID: 3B3-173 Name: CLEAR LAKE State: FL Date: 11DEC84
Sample Type: REGULAR Latitude: 28-21'45"N Longitude: 82-28'45"W
Elevation: 21 Surface Temp: 14.8 Stratified: MIXED Site Depth: 1.8
Lake Area: 7 Watershed Area: 28 WA/LA: 3.9 Hydro Type: DRAINAGE
Residence Time: 0.39 Secchi Depth: 1.9 Turbidity: 0.8 Color: 60
Closed pH: 7.01 Equil. pH: 7.79 ANC: 549.9 DOC: 13.21
Closed DIC: 7.14 Equil. DIC: 5.62 Meas. Cond: 92.1 Cal. Cond: 92.4
Ca: 661.2 Mg: 93.0 Na: 148.6 K: 19.8 NH4: 1.4
SO4: 70.3 HCO3: 411.9 Cl: 195.1 NO3: 0.3 F: 2.7
Sum Cations: 924.0 Sum Anions: 681.9 Cations/Anions: 1.35 Tot. P: 14.0
Tot. Al: 30.0 Ext. Al: 0.0 Fe: 31.5 Mn: 1.0 SiO2: 0.36

(continued)

TABLE 3-1 (continued)

ID: 3B3-175 Name: LAKE WOODWARD State: FL Date: 09DEC84
Sample Type: REGULAR Latitude: 28-49'30"N Longitude: 81-40'45"W
Elevation: 21 Surface Temp: 17.5 Stratified: MIXED Site Depth: 4.6
Lake Area: 26 Watershed Area: 85 WA/LA: 3.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.2 Turbidity: 1.1 Color: 20
Closed pH: 7.52 Equil. pH: 8.24 ANC: 715.7 DOC: 5.02
Closed DIC: 9.06 Equil. DIC: 7.99 Meas. Cond: 242.0 Cal. Cond: 271.6
Ca: 941.1 Mg: 522.0 Na: 465.4 K: 257.3 NH4: 7.3
SO4: 843.2 HCO3: 658.5 Cl: 598.1 NO3: 31.6 F: 4.9
Sum Cations: 2193.2 Sum Anions: 2140.0 Cations/Anions: 1.02 Tot. P: 13.0
Tot. Al: 35.0 Ext. Al: 12.0 Fe: 0.0 Mn: 0.0 SiO2: 0.39

ID: 3B3-176 Name: MOORE LAKE State: FL Date: 14DEC84
Sample Type: REGULAR Latitude: 30-23'33"N Longitude: 84-24'15"W
Elevation: 29 Surface Temp: 15.6 Stratified: MIXED Site Depth: 1.8
Lake Area: 28 Watershed Area: 127 WA/LA: 4.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.8 Turbidity: 0.3 Color: 20
Closed pH: 4.84 Equil. pH: 4.78 ANC: -23.9 DOC: 4.05
Closed DIC: 0.41 Equil. DIC: 0.17 Meas. Cond: 18.1 Cal. Cond: 19.7
Ca: 18.0 Mg: 29.4 Na: 62.8 K: 1.6 NH4: 2.1
SO4: 31.4 HCO3: 0.5 Cl: 76.2 NO3: 1.5 F: 0.6
Sum Cations: 128.6 Sum Anions: 110.2 Cations/Anions: 1.17 Tot. P: 5.0
Tot. Al: 15.0 Ext. Al: 0.0 Fe: 13.0 Mn: 13.0 SiO2: 0.01

SECTION 4

DATA FOR INDIVIDUAL SPECIAL INTEREST LAKES SORTED BY LAKE ID

A number of lakes that were not part of the probability sample lakes were included for sampling during the ELS-I. These lakes, termed "special interest" lakes, were sampled primarily because of their importance to programs initiated prior to the ELS-I. These lakes included those currently in the EPA Long-Term Monitoring Program, a group of lakes recommended by the Acid Deposition Trends Committee of the National Research Council, and those for which various State agencies requested inclusion.

The data collected from these lakes were not included in the population estimates presented in Volumes I and II because they were not part of the Survey design. However, the data were included in the examination of the bivariate and multivariate relationships presented in Volume I, Section 5. These relationships, useful in examining the role of certain chemicals in lake acidification processes, are based on unweighted sample data and thus may not necessarily reflect the relationships that exist for the population of lakes (Volume I, Section 5).

The data for individual special interest lakes, sorted by Lake ID shown in the upper left hand corner, are presented in Table 4-1. The list of special interest lakes, also sorted by lake ID, is given in Appendix B; the state in which each lake is located, the geographical coordinates of the lake, and the name and size of the map used to locate and characterize the lake are also given. An alphabetical list by lake name is given in Volume II, Table 7-1.

The values shown in Table 4-1 are presented as they appear in the final data set (Data Set 4). The raw data for the variables presented here have been modified; for both regular and special interest lakes: (1) negative values measured for variables other than ANC have been set to zero; (2) 9 missing values have been substituted with synthetic values; (3) 83

suspected analytical errors have been replaced with synthetic values; and (4) measurements for 124 duplicate lake samples have been averaged (Volume I, Section 3.4 and Eilers et al. 1986).

Individuals wishing to use unmodified data should request the validated data set (Data Set 3, described in Volume I, Section 3.3.2). Information on availability of all data is provided in the Notice (page ii).

TABLE 4-1. SPECIAL INTEREST LAKES SORTED BY LAKE ID

ID: 1A1-076 Name: MINNOW POND State: NY Date: 15OCT84
Sample Type: SPC/NRC/ Latitude: 43-52'53"N Longitude: 74-26'15"W
Elevation: 612 Surface Temp: 12.6 Stratified: MIXED Site Depth: 3.0
Lake Area: 42 Watershed Area: 440 WA/LA: 10.4 Hydro Type: DRAINAGE
Residence Time: 0.20 Secchi Depth: 2.7 Turbidity: 0.4 Color: 30
Closed pH: 6.56 Equil. pH: 7.14 ANC: 84.4 DOC: 5.14
Closed DIC: 1.30 Equil. DIC: 0.90 Meas. Cond: 36.0 Cal. Cond: 48.0
Ca: 150.8 Mg: 44.9 Na: 192.3 K: 13.2 NH4: 2.4
SO4: 96.3 HCO3: 68.9 Cl: 191.9 NO3: 1.7 F: 5.3
Sum Cations: 403.9 Sum Anions: 364.1 Cations/Anions: 1.11 Tot. P: 0.0
Tot. Al: 62.2 Ext. Al: 9.3 Fe: 49.0 Mn: 7.0 SiO2: 1.40

ID: 1A1-077 Name: PILLSBURY LAKE State: NY Date: 30OCT84
Sample Type: SPC/NRC/ Latitude: 43-35'50"N Longitude: 74-32'00"W
Elevation: 760 Surface Temp: 11.0 Stratified: MIXED Site Depth: 3.0
Lake Area: 34 Watershed Area: 715 WA/LA: 21.3 Hydro Type: DRAINAGE
Residence Time: 0.08 Secchi Depth: 3.3 Turbidity: 0.5 Color: 20
Closed pH: 5.59 Equil. pH: 5.87 ANC: 16.3 DOC: 4.50
Closed DIC: 0.59 Equil. DIC: 0.20 Meas. Cond: 21.0 Cal. Cond: 20.5
Ca: 85.0 Mg: 30.8 Na: 22.0 K: 4.3 NH4: 1.2
SO4: 129.8 HCO3: 6.8 Cl: 9.0 NO3: 0.3 F: 1.9
Sum Cations: 145.5 Sum Anions: 147.8 Cations/Anions: 0.98 Tot. P: 4.1
Tot. Al: 207.3 Ext. Al: 61.0 Fe: 7.0 Mn: 18.0 SiO2: 2.79

ID: 1A1-078 Name: SILVER LAKE State: NY Date: 14OCT84
Sample Type: SPC/NRC/ Latitude: 43-50'38"N Longitude: 74-54'45"W
Elevation: 641 Surface Temp: 13.1 Stratified: MIXED Site Depth: 5.2
Lake Area: 22 Watershed Area: 129 WA/LA: 5.8 Hydro Type: DRAINAGE
Residence Time: 0.53 Secchi Depth: 4.8 Turbidity: 0.1 Color: 10
Closed pH: 4.93 Equil. pH: 4.96 ANC: -2.4 DOC: 0.09
Closed DIC: 0.31 Equil. DIC: 0.13 Meas. Cond: 29.3 Cal. Cond: 21.8
Ca: 56.8 Mg: 16.7 Na: 17.1 K: 6.9 NH4: 6.9
SO4: 125.1 HCO3: 1.2 Cl: 7.5 NO3: 14.8 F: 2.7
Sum Cations: 115.4 Sum Anions: 151.3 Cations/Anions: 0.76 Tot. P: 0.0
Tot. Al: 300.8 Ext. Al: 185.8 Fe: 72.0 Mn: 54.0 SiO2: 1.82

ID: 1A1-079 Name: SOUTH LAKE State: NY Date: 30OCT84
Sample Type: SPC/NRC/ Latitude: 43-35'13"N Longitude: 74-37'45"W
Elevation: 715 Surface Temp: 11.4 Stratified: MIXED Site Depth: 9.7
Lake Area: 36 Watershed Area: 386 WA/LA: 10.6 Hydro Type: DRAINAGE
Residence Time: 0.55 Secchi Depth: 3.4 Turbidity: 0.7 Color: 25
Closed pH: 5.34 Equil. pH: 5.42 ANC: 7.3 DOC: 3.41
Closed DIC: 0.60 Equil. DIC: 0.16 Meas. Cond: 18.5 Cal. Cond: 19.4
Ca: 61.9 Mg: 31.2 Na: 20.6 K: 5.8 NH4: 3.7
SO4: 122.0 HCO3: 4.0 Cl: 8.1 NO3: 2.7 F: 2.2
Sum Cations: 127.2 Sum Anions: 139.0 Cations/Anions: 0.92 Tot. P: 4.5
Tot. Al: 259.2 Ext. Al: 100.8 Fe: 40.0 Mn: 60.0 SiO2: 3.17

ID: 1A1-080 Name: SPRUCE LAKE State: NY Date: 30OCT84
Sample Type: SPC/NRC/ Latitude: 43-32'00"N Longitude: 74-36'37"W
Elevation: 725 Surface Temp: 11.7 Stratified: MIXED Site Depth: 7.6
Lake Area: 66 Watershed Area: 932 WA/LA: 14.1 Hydro Type: DRAINAGE
Residence Time: 0.32 Secchi Depth: 7.6 Turbidity: 0.3 Color: 15
Closed pH: 5.56 Equil. pH: 5.74 ANC: 10.2 DOC: 2.07
Closed DIC: 0.50 Equil. DIC: 0.13 Meas. Cond: 17.4 Cal. Cond: 18.4
Ca: 58.8 Mg: 28.8 Na: 22.5 K: 6.8 NH4: 2.0
SO4: 114.8 HCO3: 4.8 Cl: 7.8 NO3: 6.1 F: 2.5
Sum Cations: 121.9 Sum Anions: 136.0 Cations/Anions: 0.90 Tot. P: 4.2
Tot. Al: 138.9 Ext. Al: 60.4 Fe: 9.0 Mn: 38.0 SiO2: 3.02

(continued)

TABLE 4-1 (continued)

ID: 1A1-081 Name: STEPHEN'S POND State: NY Date: 15OCT84
Sample Type: SPC/NRC/ Latitude: 43-49'10"N Longitude: 74-25'00"W
Elevation: 595 Surface Temp: 12.6 Stratified: MIXED Site Depth: 3.0
Lake Area: 25 Watershed Area: 142 WA/LA: 5.7 Hydro Type: DRAINAGE
Residence Time: 0.36 Secchi Depth: 2.6 Turbidity: 0.7 Color: 30
Closed pH: 6.44 Equil. pH: 6.88 ANC: 60.6 DOC: 5.78
Closed DIC: 0.92 Equil. DIC: 0.64 Meas. Cond: 25.1 Cal. Cond: 23.9
Ca: 133.8 Mg: 35.5 Na: 24.9 K: 7.9 NH4: 1.4
SO4: 110.4 HCO3: 54.4 Cl: 7.6 NO3: 0.1 F: 3.0
Sum Cations: 203.8 Sum Anions: 175.5 Cations/Anions: 1.16 Tot. P: 1.7
Tot. Al: 189.7 Ext. Al: 6.0 Fe: 72.0 Mn: 16.0 SiO2: 1.75

ID: 1A1-082 Name: THIRSTY POND State: NY Date: 14OCT84
Sample Type: SPC/NRC/ Latitude: 43-49'22"N Longitude: 74-54'20"W
Elevation: 647 Surface Temp: 13.9 Stratified: MIXED Site Depth: 1.5
Lake Area: 11 Watershed Area: 104 WA/LA: 9.2 Hydro Type: DRAINAGE
Residence Time: 0.10 Secchi Depth: 2.0 Turbidity: 0.1 Color: 10
Closed pH: 5.23 Equil. pH: 5.24 ANC: 2.2 DOC: 2.15
Closed DIC: 0.30 Equil. DIC: 0.12 Meas. Cond: 22.4 Cal. Cond: 20.6
Ca: 75.6 Mg: 22.4 Na: 25.4 K: 6.8 NH4: 1.8
SO4: 128.8 HCO3: 2.9 Cl: 6.7 NO3: 3.2 F: 3.2
Sum Cations: 136.9 Sum Anions: 144.8 Cations/Anions: 0.95 Tot. P: 0.0
Tot. Al: 185.9 Ext. Al: 81.9 Fe: 51.0 Mn: 38.0 SiO2: 0.73

ID: 1A1-083 Name: WEST LAKE State: NY Date: 14OCT84
Sample Type: SPC/NRC/ Latitude: 43-45'20"N Longitude: 74-55'15"W
Elevation: 527 Surface Temp: 12.8 Stratified: MIXED Site Depth: 7.0
Lake Area: 13 Watershed Area: 36 WA/LA: 2.9 Hydro Type: DRAINAGE
Residence Time: 1.39 Secchi Depth: 4.3 Turbidity: 0.4 Color: 25
Closed pH: 6.75 Equil. pH: 7.23 ANC: 109.0 DOC: 3.05
Closed DIC: 1.54 Equil. DIC: 1.22 Meas. Cond: 34.1 Cal. Cond: 31.7
Ca: 153.5 Mg: 51.5 Na: 50.1 K: 12.6 NH4: 2.3
SO4: 116.8 HCO3: 102.0 Cl: 15.4 NO3: 11.4 F: 5.1
Sum Cations: 270.1 Sum Anions: 250.9 Cations/Anions: 1.08 Tot. P: 0.9
Tot. Al: 70.1 Ext. Al: 11.9 Fe: 37.0 Mn: 21.0 SiO2: 7.15

ID: 1A1-084 Name: DEEP LAKE State: NY Date: 30OCT84
Sample Type: SPC/NRC/ Latitude: 43-37'10"N Longitude: 74-39'48"W
Elevation: 789 Surface Temp: 11.4 Stratified: MIXED Site Depth: 8.8
Lake Area: 12 Watershed Area: 91 WA/LA: 7.7 Hydro Type: DRAINAGE
Residence Time: 0.68 Secchi Depth: 6.9 Turbidity: 0.3 Color: 10
Closed pH: 4.76 Equil. pH: 4.76 ANC: -9.1 DOC: 2.32
Closed DIC: 0.30 Equil. DIC: 0.13 Meas. Cond: 23.0 Cal. Cond: 22.7
Ca: 37.6 Mg: 20.3 Na: 15.7 K: 5.7 NH4: 1.1
SO4: 130.2 HCO3: 0.7 Cl: 8.3 NO3: 7.3 F: 1.7
Sum Cations: 98.6 Sum Anions: 148.3 Cations/Anions: 0.66 Tot. P: 2.1
Tot. Al: 550.5 Ext. Al: 291.1 Fe: 18.0 Mn: 38.0 SiO2: 1.75

ID: 1A1-086 Name: TOWNSEND POND State: NY Date: 16OCT84
Sample Type: SPC/NRC/ Latitude: 43-48'50"N Longitude: 74-50'22"W
Elevation: 564 Surface Temp: 12.9 Stratified: MIXED Site Depth: 0.6
Lake Area: 2 Watershed Area: 75 WA/LA: 44.1 Hydro Type: DRAINAGE
Residence Time: 0.01 Secchi Depth: 1.0 Turbidity: 0.1 Color: 30
Closed pH: 5.08 Equil. pH: 5.41 ANC: 5.9 DOC: 2.88
Closed DIC: 1.58 Equil. DIC: 0.17 Meas. Cond: 23.6 Cal. Cond: 23.5
Ca: 83.2 Mg: 26.2 Na: 31.0 K: 6.2 NH4: 1.8
SO4: 143.1 HCO3: 5.8 Cl: 12.7 NO3: 0.4 F: 3.9
Sum Cations: 154.3 Sum Anions: 166.0 Cations/Anions: 0.93 Tot. P: 0.0
Tot. Al: 251.8 Ext. Al: 99.5 Fe: 8.0 Mn: 48.0 SiO2: 3.40

(continued)

TABLE 4-1 (continued)

ID: 1A1-088 Name: WOODRUFF POND State: NY Date: 15OCT84
Sample Type: SPC/NRC/ Latitude: 43-57'54"N Longitude: 74-08'45"W
Elevation: 472 Surface Temp: 12.4 Stratified: MIXED Site Depth: 1.0
Lake Area: 16 Watershed Area: 306 WA/LA: 18.8 Hydro Type: DRAINAGE
Residence Time: 0.05 Secchi Depth: 1.7 Turbidity: 0.3 Color: 40
Closed pH: 7.32 Equil. pH: 7.79 ANC: 364.8 DOC: 8.06
Closed DIC: 4.23 Equil. DIC: 3.94 Meas. Cond: 63.3 Cal. Cond: 70.7
Ca: 491.0 Mg: 132.4 Na: 62.8 K: 5.8 NH4: 1.9
SO4: 159.9 HCO3: 315.6 Cl: 49.0 NO3: 0.0 F: 2.6
Sum Cations: 694.0 Sum Anions: 527.9 Cations/Anions: 1.31 Tot. P: 2.0
Tot. Al: 66.7 Ext. Al: 14.1 Fe: 78.0 Mn: 0.0 SiO2: 3.13

ID: 1A1-089 Name: QUEER LAKE State: NY Date: 14OCT84
Sample Type: SPC/NRC/ Latitude: 43-48'40"N Longitude: 74-48'00"W
Elevation: 597 Surface Temp: 13.4 Stratified: WEAK Site Depth: 15.0
Lake Area: 53 Watershed Area: 350 WA/LA: 6.6 Hydro Type: DRAINAGE
Residence Time: 1.35 Secchi Depth: 10.1 Turbidity: 0.1 Color: 10
Closed pH: 5.63 Equil. pH: 5.72 ANC: 7.4 DOC: 1.92
Closed DIC: 0.31 Equil. DIC: 0.16 Meas. Cond: 23.2 Cal. Cond: 22.2
Ca: 95.8 Mg: 28.1 Na: 18.9 K: 10.2 NH4: 2.2
SO4: 130.3 HCO3: 4.0 Cl: 8.9 NO3: 9.2 F: 4.1
Sum Cations: 158.0 Sum Anions: 156.4 Cations/Anions: 1.01 Tot. P: 0.0
Tot. Al: 89.0 Ext. Al: 55.4 Fe: 11.0 Mn: 52.0 SiO2: 1.38

ID: 1A1-090 Name: WHIPPLE POND State: NY Date: 12OCT84
Sample Type: SPC/NRC/ Latitude: 44-22'36"N Longitude: 74-18'09"W
Elevation: 493 Surface Temp: 11.5 Stratified: MIXED Site Depth: 2.7
Lake Area: 3 Watershed Area: 18 WA/LA: 5.8 Hydro Type: DRAINAGE
Residence Time: 0.37 Secchi Depth: 1.8 Turbidity: 0.9 Color: 25
Closed pH: 4.96 Equil. pH: 5.04 ANC: 4.7 DOC: 5.38
Closed DIC: 0.84 Equil. DIC: 0.15 Meas. Cond: 16.4 Cal. Cond: 15.1
Ca: 48.8 Mg: 18.5 Na: 14.8 K: 7.8 NH4: 2.1
SO4: 76.7 HCO3: 2.1 Cl: 6.6 NO3: 0.2 F: 1.1
Sum Cations: 100.5 Sum Anions: 86.6 Cations/Anions: 1.16 Tot. P: 3.8
Tot. Al: 33.7 Ext. Al: 8.1 Fe: 47.0 Mn: 38.0 SiO2: 0.10

ID: 1A1-091 Name: JONES POND State: NY Date: 11OCT84
Sample Type: SPC/NRC/ Latitude: 44-27'08"N Longitude: 74-11'15"W
Elevation: 503 Surface Temp: 9.8 Stratified: MIXED Site Depth: 1.8
Lake Area: 58 Watershed Area: 741 WA/LA: 12.7 Hydro Type: DRAINAGE
Residence Time: 0.12 Secchi Depth: 2.3 Turbidity: 0.4 Color: 70
Closed pH: 7.13 Equil. pH: 7.78 ANC: 375.1 DOC: 6.74
Closed DIC: 4.08 Equil. DIC: 4.05 Meas. Cond: 62.3 Cal. Cond: 66.1
Ca: 323.5 Mg: 186.7 Na: 91.8 K: 13.1 NH4: 1.8
SO4: 142.0 HCO3: 319.1 Cl: 71.2 NO3: 0.0 F: 3.0
Sum Cations: 617.0 Sum Anions: 536.1 Cations/Anions: 1.15 Tot. P: 5.1
Tot. Al: 46.8 Ext. Al: 8.1 Fe: 207.0 Mn: 3.0 SiO2: 1.83

ID: 1A1-092 Name: FISH POND State: NY Date: 11OCT84
Sample Type: SPC/NRC/ Latitude: 44-23'37"N Longitude: 74-22'15"W
Elevation: 486 Surface Temp: 11.5 Stratified: MIXED Site Depth: 10.1
Lake Area: 48 Watershed Area: 2246 WA/LA: 46.6 Hydro Type: DRAINAGE
Residence Time: 0.19 Secchi Depth: 3.1 Turbidity: 0.4 Color: 35
Closed pH: 6.65 Equil. pH: 7.01 ANC: 81.2 DOC: 4.75
Closed DIC: 1.13 Equil. DIC: 0.85 Meas. Cond: 27.0 Cal. Cond: 28.1
Ca: 147.9 Mg: 45.6 Na: 35.5 K: 8.6 NH4: 1.1
SO4: 127.0 HCO3: 74.6 Cl: 9.4 NO3: 0.0 F: 2.1
Sum Cations: 238.8 Sum Anions: 213.3 Cations/Anions: 1.12 Tot. P: 7.9
Tot. Al: 57.3 Ext. Al: 13.0 Fe: 60.0 Mn: 7.0 SiO2: 3.93

(continued)

TABLE 4-1 (continued)

ID: 1A1-093 Name: GAL POND State: NY Date: 24OCT84
Sample Type: SPC/NRC/ Latitude: 44-02'40"N Longitude: 74-53'40"W
Elevation: 570 Surface Temp: 12.0 Stratified: MIXED Site Depth: 2.1
Lake Area: 6 Watershed Area: 1013 WA/LA: 184.2 Hydro Type: DRAINAGE
Residence Time: 0.01 Secchi Depth: 1.3 Turbidity: 1.0 Color: 20
Closed pH: 5.02 Equil. pH: 5.14 ANC: 1.8 DOC: 4.33
Closed DIC: 0.21 Equil. DIC: 0.14 Meas. Cond: 22.5 Cal. Cond: 22.8
Ca: 77.2 Mg: 26.4 Na: 24.9 K: 6.9 NH4: 0.7
SO4: 138.6 HCO3: 2.1 Cl: 9.3 NO3: 0.0 F: 4.5
Sum Cations: 144.2 Sum Anions: 154.5 Cations/Anions: 0.93 Tot. P: 5.7
Tot. Al: 260.1 Ext. Al: 137.8 Fe: 42.0 Mn: 52.0 SiO2: 1.31

ID: 1A1-094 Name: HITCHINS POND State: NY Date: 25OCT84
Sample Type: SPC/NRC/ Latitude: 44-00'37"N Longitude: 74-54'20"W
Elevation: 613 Surface Temp: 9.8 Stratified: MIXED Site Depth: 2.1
Lake Area: 4 Watershed Area: 298 WA/LA: 76.4 Hydro Type: DRAINAGE
Residence Time: 0.02 Secchi Depth: 2.4 Turbidity: 0.4 Color: 25
Closed pH: 4.71 Equil. pH: 4.76 ANC: -11.0 DOC: 3.61
Closed DIC: 0.99 Equil. DIC: 0.14 Meas. Cond: 23.2 Cal. Cond: 23.8
Ca: 54.8 Mg: 16.5 Na: 23.1 K: 6.3 NH4: 2.7
SO4: 123.9 HCO3: 1.2 Cl: 12.9 NO3: 5.3 F: 3.1
Sum Cations: 121.7 Sum Anions: 146.4 Cations/Anions: 0.83 Tot. P: 3.9
Tot. Al: 405.7 Ext. Al: 238.6 Fe: 132.0 Mn: 44.0 SiO2: 3.39

ID: 1A1-095 Name: TOAD POND State: NY Date: 24OCT84
Sample Type: SPC/NRC/ Latitude: 44-01'10"N Longitude: 74-56'00"W
Elevation: 582 Surface Temp: 11.6 Stratified: MIXED Site Depth: 1.2
Lake Area: 10 Watershed Area: 78 WA/LA: 8.2 Hydro Type: DRAINAGE
Residence Time: 0.10 Secchi Depth: 1.5 Turbidity: 0.1 Color: 10
Closed pH: 4.86 Equil. pH: 4.87 ANC: -8.4 DOC: 2.70
Closed DIC: 0.39 Equil. DIC: 0.10 Meas. Cond: 22.9 Cal. Cond: 22.3
Ca: 55.5 Mg: 17.9 Na: 20.2 K: 7.3 NH4: 1.8
SO4: 129.2 HCO3: 0.9 Cl: 8.1 NO3: 0.3 F: 8.0
Sum Cations: 116.9 Sum Anions: 146.5 Cations/Anions: 0.80 Tot. P: 2.5
Tot. Al: 324.4 Ext. Al: 227.3 Fe: 52.0 Mn: 29.0 SiO2: 0.93

ID: 1A1-097 Name: CROOKED LAKE State: NY Date: 25OCT84
Sample Type: SPC/NRC/ Latitude: 43-59'40"N Longitude: 74-56'20"W
Elevation: 624 Surface Temp: 11.7 Stratified: MIXED Site Depth: 5.2
Lake Area: 47 Watershed Area: 440 WA/LA: 9.4 Hydro Type: DRAINAGE
Residence Time: 0.39 Secchi Depth: 4.5 Turbidity: 0.1 Color: 0
Closed pH: 4.73 Equil. pH: 4.78 ANC: -12.6 DOC: 0.88
Closed DIC: 0.30 Equil. DIC: 0.13 Meas. Cond: 23.7 Cal. Cond: 23.5
Ca: 55.5 Mg: 16.6 Na: 16.4 K: 7.8 NH4: 2.5
SO4: 128.9 HCO3: 0.6 Cl: 7.6 NO3: 9.2 F: 3.4
Sum Cations: 115.8 Sum Anions: 149.6 Cations/Anions: 0.77 Tot. P: 0.0
Tot. Al: 278.7 Ext. Al: 200.9 Fe: 38.0 Mn: 62.0 SiO2: 0.19

ID: 1A1-098 Name: EAST POND State: NY Date: 11OCT84
Sample Type: SPC/NRC/ Latitude: 44-22'50"N Longitude: 74-25'50"W
Elevation: 528 Surface Temp: 10.8 Stratified: MIXED Site Depth: 1.8
Lake Area: 29 Watershed Area: 298 WA/LA: 10.4 Hydro Type: DRAINAGE
Residence Time: 0.15 Secchi Depth: 2.1 Turbidity: 0.5 Color: 30
Closed pH: 6.90 Equil. pH: 7.23 ANC: 128.7 DOC: 7.57
Closed DIC: 1.54 Equil. DIC: 1.37 Meas. Cond: 29.0 Cal. Cond: 30.9
Ca: 165.7 Mg: 60.1 Na: 49.6 K: 8.3 NH4: 1.7
SO4: 108.8 HCO3: 112.3 Cl: 8.9 NO3: 0.8 F: 2.5
Sum Cations: 285.5 Sum Anions: 233.5 Cations/Anions: 1.22 Tot. P: 11.3
Tot. Al: 148.4 Ext. Al: 11.7 Fe: 15.0 Mn: 0.0 SiO2: 4.04

(continued)

TABLE 4-1 (continued)

ID: 1A1-099 Name: CEDAR LAKES State: NY Date: 30OCT84
Sample Type: SPC/NRC/ Latitude: 43-37'15"N Longitude: 74-33'00"W
Elevation: 744 Surface Temp: 11.4 Stratified: MIXED Site Depth: 3.0
Lake Area: 141 Watershed Area: 673 WA/LA: 4.8 Hydro Type: DRAINAGE
Residence Time: 0.37 Secchi Depth: 3.0 Turbidity: 0.6 Color: 20
Closed pH: 6.19 Equil. pH: 6.60 ANC: 24.0 DOC: 3.31
Closed DIC: 0.73 Equil. DIC: 0.35 Meas. Cond: 18.7 Cal. Cond: 19.1
Ca: 87.6 Mg: 32.8 Na: 18.1 K: 5.5 NH4: 2.1
SO4: 107.2 HCO3: 24.5 Cl: 7.3 NO3: 1.9 F: 2.2
Sum Cations: 146.8 Sum Anions: 143.1 Cations/Anions: 1.03 Tot. P: 6.3
Tot. Al: 185.5 Ext. Al: 9.9 Fe: 40.0 Mn: 17.0 SiO2: 1.94

ID: 1A1-100 Name: CURTIS POND State: NY Date: 13OCT84
Sample Type: SPC/NRC/ Latitude: 44-09'35"N Longitude: 74-45'37"W
Elevation: 559 Surface Temp: 12.5 Stratified: MIXED Site Depth: 8.5
Lake Area: 7 Watershed Area: 57 WA/LA: 8.3 Hydro Type: DRAINAGE
Residence Time: 0.71 Secchi Depth: 5.3 Turbidity: 0.4 Color: 20
Closed pH: 5.06 Equil. pH: 5.15 ANC: -1.4 DOC: 2.26
Closed DIC: 0.57 Equil. DIC: 0.13 Meas. Cond: 21.8 Cal. Cond: 20.5
Ca: 72.6 Mg: 17.7 Na: 23.2 K: 5.5 NH4: 3.8
SO4: 122.2 HCO3: 1.8 Cl: 6.1 NO3: 1.3 F: 4.6
Sum Cations: 130.7 Sum Anions: 135.9 Cations/Anions: 0.96 Tot. P: 2.1
Tot. Al: 205.5 Ext. Al: 50.8 Fe: 132.0 Mn: 54.0 SiO2: 0.39

ID: 1A1-101 Name: EAST CHARLEY POND State: NY Date: 25OCT84
Sample Type: SPC/NRC/ Latitude: 44-02'45"N Longitude: 74-41'00"W
Elevation: 582 Surface Temp: 12.1 Stratified: MIXED Site Depth: 6.4
Lake Area: 10 Watershed Area: 91 WA/LA: 9.5 Hydro Type: DRAINAGE
Residence Time: 0.47 Secchi Depth: 4.0 Turbidity: 0.7 Color: 15
Closed pH: 6.29 Equil. pH: 6.84 ANC: 55.9 DOC: 2.85
Closed DIC: 1.26 Equil. DIC: 0.63 Meas. Cond: 20.8 Cal. Cond: 23.3
Ca: 126.3 Mg: 26.2 Na: 22.2 K: 6.6 NH4: 1.7
SO4: 116.2 HCO3: 48.3 Cl: 8.5 NO3: 0.6 F: 7.2
Sum Cations: 183.3 Sum Anions: 180.8 Cations/Anions: 1.01 Tot. P: 4.2
Tot. Al: 26.8 Ext. Al: 4.3 Fe: 23.0 Mn: 44.0 SiO2: 1.91

ID: 1A1-102 Name: HEART LAKE State: NY Date: 12OCT84
Sample Type: SPC/LTM/ Latitude: 44-10'56"N Longitude: 73-58'10"W
Elevation: 660 Surface Temp: 12.1 Stratified: MIXED Site Depth: 11.2
Lake Area: 11 Watershed Area: 60 WA/LA: 5.4 Hydro Type: DRAINAGE
Residence Time: 1.65 Secchi Depth: 3.3 Turbidity: 0.2 Color: 10
Closed pH: 6.33 Equil. pH: 6.46 ANC: 42.4 DOC: 3.03
Closed DIC: 0.88 Equil. DIC: 0.52 Meas. Cond: 18.5 Cal. Cond: 21.1
Ca: 108.5 Mg: 21.8 Na: 21.1 K: 3.3 NH4: 1.4
SO4: 119.9 HCO3: 35.6 Cl: 8.2 NO3: 1.7 F: 0.6
Sum Cations: 156.4 Sum Anions: 166.1 Cations/Anions: 0.94 Tot. P: 2.8
Tot. Al: 105.8 Ext. Al: 15.8 Fe: 0.0 Mn: 7.0 SiO2: 3.23

ID: 1A1-103 Name: BIG MOOSE LAKE State: NY Date: 16OCT84
Sample Type: SPC/LTM/ Latitude: 43-49'45"N Longitude: 74-51'00"W
Elevation: 556 Surface Temp: 13.8 Stratified: MIXED Site Depth: 7.3
Lake Area: 504 Watershed Area: 9272 WA/LA: 18.4 Hydro Type: DRAINAGE
Residence Time: 0.24 Secchi Depth: 6.0 Turbidity: 0.2 Color: 15
Closed pH: 5.24 Equil. pH: 5.39 ANC: 5.2 DOC: 2.35
Closed DIC: 0.40 Equil. DIC: 0.16 Meas. Cond: 24.5 Cal. Cond: 23.7
Ca: 91.3 Mg: 26.1 Na: 27.0 K: 11.5 NH4: 2.3
SO4: 132.4 HCO3: 3.0 Cl: 10.4 NO3: 18.4 F: 3.8
Sum Cations: 162.4 Sum Anions: 167.9 Cations/Anions: 0.97 Tot. P: 0.0
Tot. Al: 258.2 Ext. Al: 36.9 Fe: 0.0 Mn: 61.0 SiO2: 3.14

(continued)

TABLE 4-1 (continued)

ID: 1A1-105 Name: CASCADE LAKE State: NY Date: 14OCT84
Sample Type: SPC/LTM/ Latitude: 43-47'28"N Longitude: 74-48'15'W
Elevation: 553 Surface Temp: 13.3 Stratified: WEAK Site Depth: 13.4
Lake Area: 37 Watershed Area: 482 WA/LA: 13.1 Hydro Type: DRAINAGE
Residence Time: 0.62 Secchi Depth: 5.7 Turbidity: 0.3 Color: 20
Closed pH: 5.56 Equil. pH: 5.67 ANC: 9.9 DOC: 2.49
Closed DIC: 0.44 Equil. DIC: 0.17 Meas. Cond: 25.0 Cal. Cond: 23.7
Ca: 100.9 Mg: 27.9 Na: 27.8 K: 10.9 NH4: 1.4
SO4: 130.7 HCO3: 5.0 Cl: 11.1 NO3: 18.0 F: 4.0
Sum Cations: 171.6 Sum Anions: 168.8 Cations/Anions: 1.02 Tot. P: 1.3
Tot. Al: 281.0 Ext. Al: 45.3 Fe: 33.0 Mn: 62.0 SiO2: 3.53

ID: 1A1-106 Name: DART LAKE State: NY Date: 14OCT84
Sample Type: SPC/LTM/ Latitude: 43-47'50"N Longitude: 74-51'30"W
Elevation: 536 Surface Temp: 13.4 Stratified: MIXED Site Depth: 9.1
Lake Area: 50 Watershed Area: 1476 WA/LA: 29.6 Hydro Type: DRAINAGE
Residence Time: 0.19 Secchi Depth: 6.1 Turbidity: 0.3 Color: 10
Closed pH: 5.57 Equil. pH: 5.64 ANC: 9.4 DOC: 2.46
Closed DIC: 0.36 Equil. DIC: 0.17 Meas. Cond: 24.6 Cal. Cond: 23.4
Ca: 93.9 Mg: 28.0 Na: 28.3 K: 11.0 NH4: 1.6
SO4: 130.4 HCO3: 5.8 Cl: 11.1 NO3: 18.2 F: 3.7
Sum Cations: 165.3 Sum Anions: 169.2 Cations/Anions: 0.98 Tot. P: 6.8
Tot. Al: 172.9 Ext. Al: 44.4 Fe: 69.0 Mn: 62.0 SiO2: 3.43

ID: 1A1-107 Name: LITTLE ECHO POND State: NY Date: 12OCT84
Sample Type: SPC/LTM/ Latitude: 44-18'20"N Longitude: 74-21'27"W
Elevation: 482 Surface Temp: 9.9 Stratified: MIXED Site Depth: 3.4
Lake Area: 1 Watershed Area: 5 WA/LA: 5.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 0.6 Turbidity: 1.3 Color: 150
Closed pH: 4.18 Equil. pH: 4.19 ANC: -63.2 DOC: 14.28
Closed DIC: 3.25 Equil. DIC: 0.14 Meas. Cond: 33.5 Cal. Cond: 31.4
Ca: 36.6 Mg: 13.8 Na: 6.0 K: 4.5 NH4: 1.4
SO4: 67.9 HCO3: 0.7 Cl: 7.2 NO3: 1.1 F: 1.2
Sum Cations: 124.0 Sum Anions: 78.0 Cations/Anions: 1.59 Tot. P: 11.1
Tot. Al: 83.2 Ext. Al: 7.7 Fe: 301.0 Mn: 34.0 SiO2: 0.77

ID: 1A1-108 Name: MERRIAM POND State: NY Date: 14OCT84
Sample Type: SPC/LTM/ Latitude: 43-51'28"N Longitude: 74-50'45"W
Elevation: 655 Surface Temp: 11.4 Stratified: MIXED Site Depth: 3.3
Lake Area: 8 Watershed Area: 119 WA/LA: 15.9 Hydro Type: DRAINAGE
Residence Time: 0.13 Secchi Depth: 1.7 Turbidity: 1.6 Color: 80
Closed pH: 4.88 Equil. pH: 4.88 ANC: -6.0 DOC: 5.47
Closed DIC: 1.34 Equil. DIC: 0.67 Meas. Cond: 20.3 Cal. Cond: 18.1
Ca: 34.5 Mg: 13.2 Na: 15.8 K: 10.3 NH4: 14.9
SO4: 88.6 HCO3: 1.5 Cl: 9.0 NO3: 1.5 F: 1.8
Sum Cations: 102.0 Sum Anions: 102.5 Cations/Anions: 0.99 Tot. P: 6.4
Tot. Al: 329.3 Ext. Al: 130.1 Fe: 105.0 Mn: 27.0 SiO2: 1.12

ID: 1A1-109 Name: MOSS LAKE State: NY Date: 14OCT84
Sample Type: SPC/LTM/ Latitude: 43-47'10"N Longitude: 74-51'00"W
Elevation: 536 Surface Temp: 13.0 Stratified: WEAK Site Depth: 12.5
Lake Area: 45 Watershed Area: 1248 WA/LA: 27.8 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 5.4 Turbidity: 0.3 Color: 20
Closed pH: 6.77 Equil. pH: 7.18 ANC: 96.9 DOC: 2.69
Closed DIC: 1.41 Equil. DIC: 1.06 Meas. Cond: 33.9 Cal. Cond: 32.5
Ca: 155.7 Mg: 51.4 Na: 46.2 K: 13.9 NH4: 1.8
SO4: 130.2 HCO3: 88.9 Cl: 13.6 NO3: 15.5 F: 8.2
Sum Cations: 269.1 Sum Anions: 256.5 Cations/Anions: 1.05 Tot. P: 6.0
Tot. Al: 110.9 Ext. Al: 5.7 Fe: 18.0 Mn: 2.0 SiO2: 6.17

(continued)

TABLE 4-1 (continued)

ID: 1A1-110 Name: LAKE RONDAXE State: NY Date: 14OCT84
Sample Type: SPC/LTM/ Latitude: 43-45'50"N Longitude: 74-54'20"W
Elevation: 524 Surface Temp: 13.2 Stratified: MIXED Site Depth: 8.2
Lake Area: 68 Watershed Area: 13937 WA/LA: 204.3 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 4.9 Turbidity: 0.3 Color: 20
Closed pH: 6.40 Equil. pH: 6.84 ANC: 50.4 DOC: 2.40
Closed DIC: 0.97 Equil. DIC: 0.61 Meas. Cond: 27.7 Cal. Cond: 26.3
Ca: 119.0 Mg: 38.4 Na: 36.8 K: 12.9 NH4: 1.2
SO4: 126.9 HCO3: 42.5 Cl: 12.3 NO3: 13.4 F: 5.3
Sum Cations: 208.6 Sum Anions: 200.4 Cations/Anions: 1.04 Tot. P: 0.2
Tot. Al: 87.7 Ext. Al: 16.0 Fe: 30.0 Mn: 15.0 SiO2: 4.23

ID: 1A1-111 Name: SQUASH POND State: NY Date: 16OCT84
Sample Type: SPC/LTM/ Latitude: 43-49'35"N Longitude: 74-53'23'W
Elevation: 649 Surface Temp: 8.9 Stratified: MIXED Site Depth: 4.9
Lake Area: 2 Watershed Area: 52 WA/LA: 30.6 Hydro Type: DRAINAGE
Residence Time: 0.10 Secchi Depth: 1.6 Turbidity: 1.0 Color: 100
Closed pH: 4.52 Equil. pH: 4.60 ANC: -17.7 DOC: 7.33
Closed DIC: 2.99 Equil. DIC: 0.16 Meas. Cond: 25.3 Cal. Cond: 23.0
Ca: 38.2 Mg: 12.8 Na: 17.0 K: 14.5 NH4: 10.5
SO4: 90.6 HCO3: 2.0 Cl: 8.7 NO3: 0.5 F: 2.1
Sum Cations: 119.3 Sum Anions: 103.8 Cations/Anions: 1.15 Tot. P: 3.5
Tot. Al: 685.0 Ext. Al: 152.8 Fe: 272.0 Mn: 33.0 SiO2: 2.53

ID: 1A1-112 Name: WEST POND State: NY Date: 14OCT84
Sample Type: SPC/LTM/ Latitude: 43-48'40"N Longitude: 74-52'45"W
Elevation: 579 Surface Temp: 13.3 Stratified: MIXED Site Depth: 2.7
Lake Area: 9 Watershed Area: 117 WA/LA: 13.1 Hydro Type: DRAINAGE
Residence Time: 0.12 Secchi Depth: 2.5 Turbidity: 0.8 Color: 55
Closed pH: 5.31 Equil. pH: 5.52 ANC: 10.1 DOC: 4.92
Closed DIC: 0.97 Equil. DIC: 0.22 Meas. Cond: 18.7 Cal. Cond: 17.6
Ca: 68.5 Mg: 22.2 Na: 25.3 K: 5.7 NH4: 4.9
SO4: 95.0 HCO3: 5.8 Cl: 7.5 NO3: 3.2 F: 3.5
Sum Cations: 130.8 Sum Anions: 115.0 Cations/Anions: 1.14 Tot. P: 4.9
Tot. Al: 160.0 Ext. Al: 56.6 Fe: 144.0 Mn: 29.0 SiO2: 0.49

ID: 1A1-113 Name: BUBB LAKE State: NY Date: 14OCT84
Sample Type: SPC/LTM/ Latitude: 43-46'15"N Longitude: 74-51'15"W
Elevation: 553 Surface Temp: 13.6 Stratified: MIXED Site Depth: 2.7
Lake Area: 19 Watershed Area: 179 WA/LA: 9.7 Hydro Type: DRAINAGE
Residence Time: 0.17 Secchi Depth: 2.7 Turbidity: 0.4 Color: 10
Closed pH: 6.66 Equil. pH: 6.98 ANC: 65.8 DOC: 3.10
Closed DIC: 0.98 Equil. DIC: 0.73 Meas. Cond: 24.6 Cal. Cond: 23.7
Ca: 110.8 Mg: 37.9 Na: 36.4 K: 9.3 NH4: 2.9
SO4: 105.0 HCO3: 62.2 Cl: 7.5 NO3: 3.5 F: 5.6
Sum Cations: 197.5 Sum Anions: 183.8 Cations/Anions: 1.07 Tot. P: 0.3
Tot. Al: 32.0 Ext. Al: 6.2 Fe: 64.0 Mn: 11.0 SiO2: 1.61

ID: 1A2-066 Name: JOCKEYBUSH LAKE State: NY Date: 04NOV84
Sample Type: SPC/NRC/ Latitude: 43-18'15"N Longitude: 74-35'45"W
Elevation: 599 Surface Temp: 9.7 Stratified: MIXED Site Depth: 3.7
Lake Area: 17 Watershed Area: 148 WA/LA: 8.6 Hydro Type: DRAINAGE
Residence Time: 0.30 Secchi Depth: 3.5 Turbidity: 1.2 Color: 10
Closed pH: 5.28 Equil. pH: 5.40 ANC: 5.5 DOC: 1.71
Closed DIC: 0.44 Equil. DIC: 0.17 Meas. Cond: 19.0 Cal. Cond: 20.1
Ca: 69.5 Mg: 27.5 Na: 19.0 K: 5.2 NH4: 1.9
SO4: 130.1 HCO3: 3.1 Cl: 9.0 NO3: 1.5 F: 2.0
Sum Cations: 127.8 Sum Anions: 145.7 Cations/Anions: 0.88 Tot. P: 2.7
Tot. Al: 130.4 Ext. Al: 43.1 Fe: 18.5 Mn: 42.5 SiO2: 0.88

(continued)

TABLE 4-1 (continued)

ID: 1A2-067 Name: MECO LAKE State: NY Date: 31OCT84
Sample Type: SPC/NRC/ Latitude: 43-17'00"N Longitude: 74-25'33"W
Elevation: 642 Surface Temp: 11.0 Stratified: MIXED Site Depth: 3.2
Lake Area: 4 Watershed Area: 67 WA/LA: 16.3 Hydro Type: DRAINAGE
Residence Time: 0.17 Secchi Depth: 2.8 Turbidity: 0.8 Color: 25
Closed pH: 4.89 Equil. pH: 5.06 ANC: -4.2 DOC: 4.15
Closed DIC: 0.52 Equil. DIC: 0.17 Meas. Cond: 20.6 Cal. Cond: 20.0
Ca: 51.2 Mg: 21.8 Na: 22.9 K: 2.8 NH4: 1.1
SO4: 110.2 HCO3: 1.7 Cl: 9.4 NO3: 0.5 F: 1.6
Sum Cations: 113.0 Sum Anions: 123.3 Cations/Anions: 0.92 Tot. P: 5.6
Tot. Al: 436.9 Ext. Al: 148.8 Fe: 37.0 Mn: 30.0 SiO2: 1.74

ID: 1A2-068 Name: ROCK LAKE State: NY Date: 31OCT84
Sample Type: SPC/NRC/ Latitude: 43-19'42"N Longitude: 74-35'30"W
Elevation: 552 Surface Temp: 11.5 Stratified: MIXED Site Depth: 5.8
Lake Area: 11 Watershed Area: 210 WA/LA: 19.4 Hydro Type: DRAINAGE
Residence Time: 0.21 Secchi Depth: 3.8 Turbidity: 0.4 Color: 15
Closed pH: 5.11 Equil. pH: 5.24 ANC: 2.3 DOC: 2.97
Closed DIC: 0.90 Equil. DIC: 0.15 Meas. Cond: 18.6 Cal. Cond: 19.5
Ca: 62.6 Mg: 25.4 Na: 19.4 K: 4.5 NH4: 3.9
SO4: 115.7 HCO3: 3.1 Cl: 8.5 NO3: 2.8 F: 1.8
Sum Cations: 122.9 Sum Anions: 131.9 Cations/Anions: 0.93 Tot. P: 5.7
Tot. Al: 352.8 Ext. Al: 142.2 Fe: 29.0 Mn: 42.0 SiO2: 1.00

ID: 1A2-069 Name: SILVER LAKE State: NY Date: 31OCT84
Sample Type: SPC/NRC/ Latitude: 43-17'43"N Longitude: 74-25'50"W
Elevation: 632 Surface Temp: 12.1 Stratified: MIXED Site Depth: 7.1
Lake Area: 30 Watershed Area: 290 WA/LA: 9.8 Hydro Type: DRAINAGE
Residence Time: 0.51 Secchi Depth: 7.2 Turbidity: 0.1 Color: 10
Closed pH: 5.11 Equil. pH: 5.21 ANC: 0.2 DOC: 0.98
Closed DIC: 0.38 Equil. DIC: 0.15 Meas. Cond: 20.4 Cal. Cond: 20.8
Ca: 59.8 Mg: 26.0 Na: 22.7 K: 5.5 NH4: 1.2
SO4: 128.2 HCO3: 1.8 Cl: 8.8 NO3: 5.2 F: 1.7
Sum Cations: 123.1 Sum Anions: 145.7 Cations/Anions: 0.84 Tot. P: 3.5
Tot. Al: 242.9 Ext. Al: 185.7 Fe: 23.0 Mn: 79.0 SiO2: 2.90

ID: 1A2-070 Name: (UPPER)LOOMIS POND State: NY Date: 30OCT84
Sample Type: SPC/NRC/ Latitude: 43-18'15"N Longitude: 74-29'40"W
Elevation: 691 Surface Temp: 11.8 Stratified: MIXED Site Depth: 12.0
Lake Area: 11 Watershed Area: 98 WA/LA: 9.0 Hydro Type: DRAINAGE
Residence Time: 0.94 Secchi Depth: 7.8 Turbidity: 0.2 Color: 15
Closed pH: 4.84 Equil. pH: 4.87 ANC: -7.3 DOC: 1.56
Closed DIC: 0.39 Equil. DIC: 0.13 Meas. Cond: 20.3 Cal. Cond: 20.4
Ca: 45.1 Mg: 20.6 Na: 16.8 K: 4.5 NH4: 3.1
SO4: 120.1 HCO3: 1.2 Cl: 8.5 NO3: 5.2 F: 1.8
Sum Cations: 102.8 Sum Anions: 136.7 Cations/Anions: 0.75 Tot. P: 0.0
Tot. Al: 248.5 Ext. Al: 153.3 Fe: 0.0 Mn: 41.0 SiO2: 0.68

ID: 1A2-071 Name: STREETER LAKE State: NY Date: 24OCT84
Sample Type: SPC/NRC/ Latitude: 44-06'28"N Longitude: 75-04'20"W
Elevation: 453 Surface Temp: 12.0 Stratified: MIXED Site Depth: 4.9
Lake Area: 28 Watershed Area: 295 WA/LA: 10.6 Hydro Type: DRAINAGE
Residence Time: 0.33 Secchi Depth: 1.4 Turbidity: 1.4 Color: 90
Closed pH: 6.30 Equil. pH: 6.90 ANC: 77.0 DOC: 9.09
Closed DIC: 1.29 Equil. DIC: 0.62 Meas. Cond: 24.3 Cal. Cond: 24.2
Ca: 133.5 Mg: 45.7 Na: 35.9 K: 10.6 NH4: 1.8
SO4: 95.0 HCO3: 51.5 Cl: 8.9 NO3: 0.7 F: 6.6
Sum Cations: 228.0 Sum Anions: 162.8 Cations/Anions: 1.40 Tot. P: 10.4
Tot. Al: 107.1 Ext. Al: 28.1 Fe: 351.0 Mn: 45.0 SiO2: 4.27

(continued)

TABLE 4-1 (continued)

ID: 1A2-072 Name: SAND POND State: NY Date: 24OCT84
Sample Type: SPC/NRC/ Latitude: 43-56'58"N Longitude: 75-09'40"W
Elevation: 498 Surface Temp: 12.1 Stratified: MIXED Site Depth: 2.9
Lake Area: 31 Watershed Area: 386 WA/LA: 12.5 Hydro Type: DRAINAGE
Residence Time: 0.14 Secchi Depth: 1.6 Turbidity: 0.7 Color: 40
Closed pH: 5.08 Equil. pH: 5.12 ANC: 2.4 DOC: 5.13
Closed DIC: 0.84 Equil. DIC: 0.14 Meas. Cond: 18.9 Cal. Cond: 19.5
Ca: 61.4 Mg: 21.0 Na: 25.4 K: 7.1 NH4: 2.3
SO4: 104.6 HCO3: 1.9 Cl: 8.3 NO3: 3.7 F: 6.2
Sum Cations: 126.0 Sum Anions: 124.6 Cations/Anions: 1.01 Tot. P: 6.8
Tot. Al: 250.8 Ext. Al: 43.5 Fe: 259.0 Mn: 40.0 SiO2: 1.12

ID: 1A2-073 Name: CLOCKMILL POND State: NY Date: 31OCT84
Sample Type: SPC/NRC/ Latitude: 43-20'25"N Longitude: 74-35'15"W
Elevation: 550 Surface Temp: 11.5 Stratified: MIXED Site Depth: 5.8
Lake Area: 19 Watershed Area: 549 WA/LA: 29.4 Hydro Type: DRAINAGE
Residence Time: 0.14 Secchi Depth: 3.1 Turbidity: 0.6 Color: 30
Closed pH: 4.90 Equil. pH: 4.92 ANC: -5.9 DOC: 3.93
Closed DIC: 0.76 Equil. DIC: 0.14 Meas. Cond: 20.0 Cal. Cond: 19.1
Ca: 49.6 Mg: 21.3 Na: 19.1 K: 3.8 NH4: 2.3
SO4: 101.0 HCO3: 1.6 Cl: 6.7 NO3: 0.8 F: 1.7
Sum Cations: 109.8 Sum Anions: 111.7 Cations/Anions: 0.98 Tot. P: 15.3
Tot. Al: 277.3 Ext. Al: 80.4 Fe: 63.0 Mn: 27.0 SiO2: 0.76

ID: 1A2-074 Name: DIAMOND LAKE State: NY Date: 31OCT84
Sample Type: SPC/NRC/ Latitude: 43-18'25"N Longitude: 74-43'50"W
Elevation: 627 Surface Temp: 11.9 Stratified: MIXED Site Depth: 4.0
Lake Area: 9 Watershed Area: 189 WA/LA: 21.0 Hydro Type: DRAINAGE
Residence Time: 0.14 Secchi Depth: 4.5 Turbidity: 0.1 Color: 10
Closed pH: 4.78 Equil. pH: 4.81 ANC: -10.0 DOC: 1.22
Closed DIC: 0.52 Equil. DIC: 0.13 Meas. Cond: 21.6 Cal. Cond: 21.4
Ca: 51.3 Mg: 17.4 Na: 17.0 K: 3.0 NH4: 1.2
SO4: 120.5 HCO3: 0.9 Cl: 6.3 NO3: 2.5 F: 1.7
Sum Cations: 106.5 Sum Anions: 132.0 Cations/Anions: 0.81 Tot. P: 3.6
Tot. Al: 329.4 Ext. Al: 189.6 Fe: 24.0 Mn: 33.0 SiO2: 0.28

ID: 1A2-075 Name: HOLMES LAKE State: NY Date: 04NOV84
Sample Type: SPC/NRC/ Latitude: 43-11'22"N Longitude: 74-25'55"W
Elevation: 562 Surface Temp: 9.4 Stratified: MIXED Site Depth: 3.7
Lake Area: 7 Watershed Area: 80 WA/LA: 11.9 Hydro Type: DRAINAGE
Residence Time: 0.27 Secchi Depth: 3.6 Turbidity: 0.4 Color: 15
Closed pH: 7.13 Equil. pH: 7.44 ANC: 197.1 DOC: 2.89
Closed DIC: 2.44 Equil. DIC: 2.16 Meas. Cond: 35.8 Cal. Cond: 36.9
Ca: 153.2 Mg: 126.7 Na: 22.9 K: 4.5 NH4: 1.8
SO4: 132.7 HCO3: 173.5 Cl: 10.3 NO3: 2.6 F: 2.1
Sum Cations: 309.2 Sum Anions: 321.5 Cations/Anions: 0.96 Tot. P: 3.5
Tot. Al: 61.1 Ext. Al: 13.1 Fe: 0.0 Mn: 4.0 SiO2: 1.96

ID: 1A2-076 Name: BARNES LAKE State: NY Date: 16OCT84
Sample Type: SPC/LTM/ Latitude: 43-34'00"N Longitude: 75-13'40"W
Elevation: 393 Surface Temp: 13.3 Stratified: WEAK Site Depth: 9.4
Lake Area: 3 Watershed Area: 26 WA/LA: 10.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.8 Turbidity: 1.2 Color: 25
Closed pH: 4.62 Equil. pH: 4.67 ANC: -20.0 DOC: 4.87
Closed DIC: 0.20 Equil. DIC: 0.16 Meas. Cond: 16.6 Cal. Cond: 15.4
Ca: 25.4 Mg: 8.4 Na: 3.7 K: 6.5 NH4: 1.3
SO4: 55.2 HCO3: 0.9 Cl: 6.3 NO3: 0.2 F: 1.0
Sum Cations: 67.2 Sum Anions: 63.5 Cations/Anions: 1.06 Tot. P: 2.7
Tot. Al: 40.8 Ext. Al: 22.5 Fe: 70.0 Mn: 41.0 SiO2: 0.13

(continued)

TABLE 4-1 (continued)

ID: 1A2-077 Name: CLEAR POND State: NY Date: 12OCT84
Sample Type: SPC/LTM/ Latitude: 44-00'00"N Longitude: 73-49'20"W
Elevation: 582 Surface Temp: 12.8 Stratified: MIXED Site Depth: 6.4
Lake Area: 71 Watershed Area: 557 WA/LA: 7.9 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 6.0 Turbidity: 0.1 Color: 10
Closed pH: 6.88 Equil. pH: 7.23 ANC: 110.1 DOC: 2.79
Closed DIC: 1.38 Equil. DIC: 1.22 Meas. Cond: 27.1 Cal. Cond: 27.4
Ca: 171.3 Mg: 31.6 Na: 40.4 K: 2.9 NH4: 1.7
SO4: 104.0 HCO3: 91.2 Cl: 7.3 NO3: 1.4 F: 1.0
Sum Cations: 247.9 Sum Anions: 205.1 Cations/Anions: 1.21 Tot. P: 1.2
Tot. Al: 105.8 Ext. Al: 6.3 Fe: 0.0 Mn: 8.0 SiO2: 1.15

ID: 1A2-078 Name: OTTER LAKE State: NY Date: 31OCT84
Sample Type: SPC/LTM/ Latitude: 43-11'17"N Longitude: 74-30'00"W
Elevation: 503 Surface Temp: 12.2 Stratified: MIXED Site Depth: 2.7
Lake Area: 16 Watershed Area: 321 WA/LA: 19.8 Hydro Type: DRAINAGE
Residence Time: 0.12 Secchi Depth: 3.0 Turbidity: 0.1 Color: 0
Closed pH: 5.06 Equil. pH: 5.08 ANC: -2.0 DOC: 1.39
Closed DIC: 0.30 Equil. DIC: 0.16 Meas. Cond: 22.3 Cal. Cond: 21.3
Ca: 54.9 Mg: 26.5 Na: 28.2 K: 3.8 NH4: 0.9
SO4: 137.5 HCO3: 1.5 Cl: 6.5 NO3: 0.4 F: 2.5
Sum Cations: 123.3 Sum Anions: 148.4 Cations/Anions: 0.83 Tot. P: 9.0
Tot. Al: 281.8 Ext. Al: 131.0 Fe: 25.0 Mn: 57.0 SiO2: 0.76

ID: 1A3-069 Name: BREWER LAKE State: NY Date: 16OCT84
Sample Type: SPC/NRC/ Latitude: 43-35'32"N Longitude: 75-05'15"W
Elevation: 540 Surface Temp: 13.6 Stratified: MIXED Site Depth: 8.5
Lake Area: 7 Watershed Area: 54 WA/LA: 7.5 Hydro Type: DRAINAGE
Residence Time: 0.68 Secchi Depth: 5.3 Turbidity: 0.4 Color: 15
Closed pH: 5.31 Equil. pH: 5.52 ANC: 5.8 DOC: 2.70
Closed DIC: 0.61 Equil. DIC: 0.23 Meas. Cond: 21.7 Cal. Cond: 18.9
Ca: 52.6 Mg: 17.6 Na: 19.7 K: 11.2 NH4: 2.0
SO4: 132.7 HCO3: 3.8 Cl: 8.1 NO3: 0.3 F: 2.4
Sum Cations: 107.1 Sum Anions: 147.4 Cations/Anions: 0.73 Tot. P: 0.0
Tot. Al: 206.4 Ext. Al: 42.1 Fe: 168.0 Mn: 35.0 SiO2: 2.50

ID: 1B3-069 Name: SAWMILL POND State: NJ Date: 18NOV84
Sample Type: SPC/DEW/ Latitude: 41-17'37"N Longitude: 74-41'15"W
Elevation: 375 Surface Temp: 3.8 Stratified: MIXED Site Depth: 1.8
Lake Area: 8 Watershed Area: 197 WA/LA: 24.9 Hydro Type: DRAINAGE
Residence Time: 0.06 Secchi Depth: 2.1 Turbidity: 0.4 Color: 10
Closed pH: 7.26 Equil. pH: 7.35 ANC: 156.6 DOC: 2.80
Closed DIC: 1.74 Equil. DIC: 1.82 Meas. Cond: 46.1 Cal. Cond: 45.0
Ca: 186.1 Mg: 119.3 Na: 66.1 K: 21.2 NH4: 0.0
SO4: 156.4 HCO3: 126.4 Cl: 57.8 NO3: 0.4 F: 2.3
Sum Cations: 392.8 Sum Anions: 343.5 Cations/Anions: 1.14 Tot. P: 4.0
Tot. Al: 22.0 Ext. Al: 2.0 Fe: 70.0 Mn: 0.0 SiO2: 0.28

ID: 1B3-070 Name: LAKE OWASSA State: NJ Date: 18NOV84
Sample Type: SPC/DEW/ Latitude: 41-09'15"N Longitude: 74-48'45"W
Elevation: 265 Surface Temp: 6.0 Stratified: MIXED Site Depth: 5.4
Lake Area: 107 Watershed Area: 979 WA/LA: 9.2 Hydro Type: DRAINAGE
Residence Time: 0.48 Secchi Depth: 1.4 Turbidity: 2.5 Color: 55
Closed pH: 7.03 Equil. pH: 7.50 ANC: 207.8 DOC: 8.80
Closed DIC: 2.44 Equil. DIC: 2.09 Meas. Cond: 85.4 Cal. Cond: 86.9
Ca: 326.3 Mg: 124.2 Na: 261.0 K: 14.3 NH4: 10.0
SO4: 165.7 HCO3: 153.7 Cl: 333.4 NO3: 3.7 F: 3.5
Sum Cations: 736.0 Sum Anions: 660.3 Cations/Anions: 1.11 Tot. P: 30.0
Tot. Al: 42.0 Ext. Al: 10.0 Fe: 50.0 Mn: 0.0 SiO2: 2.29

(continued)

TABLE 4-1 (continued)

ID: 1B3-071 Name: FAIRVIEW LAKE State: NJ Date: 18NOV84
Sample Type: SPC/DEW/ Latitude: 41-04'35"N Longitude: 74-54'45"W
Elevation: 277 Surface Temp: 6.6 Stratified: MIXED Site Depth: 5.5
Lake Area: 40 Watershed Area: 303 WA/LA: 7.7 Hydro Type: DRAINAGE
Residence Time: 0.58 Secchi Depth: 2.0 Turbidity: 1.3 Color: 15
Closed pH: 7.53 Equil. pH: 7.63 ANC: 166.0 DOC: 2.70
Closed DIC: 2.02 Equil. DIC: 2.03 Meas. Cond: 70.7 Cal. Cond: 84.4
Ca: 251.5 Mg: 146.4 Na: 179.7 K: 16.6 NH4: 0.0
SO4: 348.1 HCO3: 139.3 Cl: 225.7 NO3: 0.0 F: 2.5
Sum Cations: 594.3 Sum Anions: 715.7 Cations/Anions: 0.83 Tot. P: 31.0
Tot. Al: 27.0 Ext. Al: 1.0 Fe: 0.0 Mn: 0.0 SiO2: 0.83

ID: 1B3-072 Name: LAKE MARCIA State: NJ Date: 18NOV84
Sample Type: SPC/DEW/ Latitude: 41-19'03"N Longitude: 74-40'02"W
Elevation: 479 Surface Temp: 4.5 Stratified: MIXED Site Depth: 6.0
Lake Area: 7 Watershed Area: 21 WA/LA: 3.0 Hydro Type: DRAINAGE
Residence Time: 1.31 Secchi Depth: 5.0 Turbidity: 0.3 Color: 5
Closed pH: 7.64 Equil. pH: 8.12 ANC: 600.4 DOC: 2.30
Closed DIC: 6.88 Equil. DIC: 6.69 Meas. Cond: 134.2 Cal. Cond: 141.2
Ca: 536.9 Mg: 310.1 Na: 338.9 K: 21.7 NH4: 1.1
SO4: 182.0 HCO3: 533.8 Cl: 463.8 NO3: 1.9 F: 2.8
Sum Cations: 1208.8 Sum Anions: 1186.6 Cations/Anions: 1.02 Tot. P: 5.0
Tot. Al: 31.0 Ext. Al: 2.0 Fe: 0.0 Mn: 60.0 SiO2: 1.11

ID: 1B3-073 Name: GREEN POND State: NJ Date: 16NOV84
Sample Type: SPC/DEW/ Latitude: 41-00'07"N Longitude: 74-30'00"W
Elevation: 351 Surface Temp: 6.7 Stratified: MIXED Site Depth: 1.5
Lake Area: 199 Watershed Area: 456 WA/LA: 2.3 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 1.7 Turbidity: 0.3 Color: 5
Closed pH: 7.04 Equil. pH: 7.12 ANC: 80.6 DOC: 1.70
Closed DIC: 0.93 Equil. DIC: 0.95 Meas. Cond: 52.4 Cal. Cond: 64.3
Ca: 161.7 Mg: 93.0 Na: 158.8 K: 7.4 NH4: 0.0
SO4: 271.9 HCO3: 60.1 Cl: 217.8 NO3: 0.1 F: 3.1
Sum Cations: 421.0 Sum Anions: 553.0 Cations/Anions: 0.76 Tot. P: 5.0
Tot. Al: 7.0 Ext. Al: 2.0 Fe: 0.0 Mn: 0.0 SiO2: 2.13

ID: 1B3-074 Name: RAMAPO LAKE State: NJ Date: 16NOV84
Sample Type: SPC/DEW/ Latitude: 41-02'15"N Longitude: 74-16'00"W
Elevation: 198 Surface Temp: 7.2 Stratified: MIXED Site Depth: 1.5
Lake Area: 39 Watershed Area: 243 WA/LA: 6.3 Hydro Type: DRAINAGE
Residence Time: 0.18 Secchi Depth: 2.5 Turbidity: 0.3 Color: 10
Closed pH: 6.65 Equil. pH: 7.17 ANC: 70.4 DOC: 2.90
Closed DIC: 1.24 Equil. DIC: 0.91 Meas. Cond: 48.9 Cal. Cond: 51.6
Ca: 177.1 Mg: 79.8 Na: 127.0 K: 11.5 NH4: 0.0
SO4: 169.3 HCO3: 67.0 Cl: 166.2 NO3: 0.1 F: 6.9
Sum Cations: 395.7 Sum Anions: 409.6 Cations/Anions: 0.97 Tot. P: 5.0
Tot. Al: 20.0 Ext. Al: 6.0 Fe: 10.0 Mn: 0.0 SiO2: 0.59

ID: 1B3-075 Name: HANKS POND State: NJ Date: 16NOV84
Sample Type: SPC/DEW/ Latitude: 41-05'00"N Longitude: 74-26'15"W
Elevation: 315 Surface Temp: 8.5 Stratified: MIXED Site Depth: 2.7
Lake Area: 32 Watershed Area: 184 WA/LA: 5.7 Hydro Type: DRAINAGE
Residence Time: 0.35 Secchi Depth: 2.8 Turbidity: 0.7 Color: 20
Closed pH: 6.61 Equil. pH: 7.06 ANC: 46.4 DOC: 2.10
Closed DIC: 0.87 Equil. DIC: 0.63 Meas. Cond: 30.3 Cal. Cond: 31.9
Ca: 106.3 Mg: 88.0 Na: 38.7 K: 8.2 NH4: 0.0
SO4: 165.7 HCO3: 42.0 Cl: 38.9 NO3: 0.0 F: 2.9
Sum Cations: 241.6 Sum Anions: 249.6 Cations/Anions: 0.97 Tot. P: 7.0
Tot. Al: 26.0 Ext. Al: 2.0 Fe: 0.0 Mn: 20.0 SiO2: 1.89

(continued)

TABLE 4-1 (continued)

ID: 1B3-076 Name: LAKE DENMARK State: NJ Date: 16NOV84
Sample Type: SPC/DEW/ Latitude: 40-58'15"N Longitude: 74-31'00"W
Elevation: 253 Surface Temp: 4.2 Stratified: MIXED Site Depth: 1.2
Lake Area: 107 Watershed Area: 1064 WA/LA: 9.9 Hydro Type: DRAINAGE
Residence Time: 0.10 Secchi Depth: 1.5 Turbidity: 0.9 Color: 40
Closed pH: 7.03 Equil. pH: 7.42 ANC: 166.9 DOC: 6.70
Closed DIC: 1.98 Equil. DIC: 1.71 Meas. Cond: 62.4 Cal. Cond: 63.8
Ca: 190.1 Mg: 162.1 Na: 166.2 K: 16.6 NH4: 1.1
SO4: 123.7 HCO3: 127.2 Cl: 239.8 NO3: 2.2 F: 4.3
Sum Cations: 536.2 Sum Anions: 497.2 Cations/Anions: 1.08 Tot. P: 7.0
Tot. Al: 3.0 Ext. Al: 9.0 Fe: 80.0 Mn: 0.0 SiO2: 7.68

ID: 1B3-077 Name: CLYDE POTTS RESERVOIR State: NJ Date: 16NOV84
Sample Type: SPC/DEW/ Latitude: 40-48'22"N Longitude: 74-35'00"W
Elevation: 204 Surface Temp: 9.6 Stratified: MIXED Site Depth: 2.7
Lake Area: 18 Watershed Area: 528 WA/LA: 29.2 Hydro Type: RESERVOIR
Residence Time: 0.08 Secchi Depth: 2.5 Turbidity: 1.0 Color: 10
Closed pH: 7.28 Equil. pH: 7.61 ANC: 198.0 DOC: 2.60
Closed DIC: 2.49 Equil. DIC: 2.36 Meas. Cond: 78.6 Cal. Cond: 82.7
Ca: 247.5 Mg: 151.4 Na: 243.6 K: 21.2 NH4: 0.0
SO4: 183.2 HCO3: 166.3 Cl: 313.7 NO3: 0.0 F: 3.3
Sum Cations: 663.8 Sum Anions: 666.7 Cations/Anions: 1.00 Tot. P: 7.0
Tot. Al: 17.0 Ext. Al: 2.0 Fe: 40.0 Mn: 0.0 SiO2: 11.30

ID: 1B3-078 Name: SPLITROCK RESERVOIR State: NJ Date: 16NOV84
Sample Type: SPC/DEW/ Latitude: 40-59'00"N Longitude: 74-26'15"W
Elevation: 253 Surface Temp: 8.2 Stratified: MIXED Site Depth: 5.5
Lake Area: 216 Watershed Area: 1251 WA/LA: 5.8 Hydro Type: RESERVOIR
Residence Time: 0.71 Secchi Depth: 1.8 Turbidity: 2.3 Color: 25
Closed pH: 6.97 Equil. pH: 7.40 ANC: 137.7 DOC: 2.90
Closed DIC: 1.83 Equil. DIC: 1.51 Meas. Cond: 42.4 Cal. Cond: 44.0
Ca: 156.2 Mg: 113.5 Na: 79.2 K: 8.4 NH4: 0.0
SO4: 170.5 HCO3: 115.7 Cl: 64.3 NO3: 1.8 F: 3.4
Sum Cations: 357.5 Sum Anions: 355.8 Cations/Anions: 1.00 Tot. P: 24.0
Tot. Al: 21.0 Ext. Al: 2.0 Fe: 170.0 Mn: 110.0 SiO2: 3.33

ID: 1B3-079 Name: CLINTON RESERVOIR State: NJ Date: 16NOV84
Sample Type: SPC/DEW/ Latitude: 41-05'00"N Longitude: 74-27'15"W
Elevation: 302 Surface Temp: 7.9 Stratified: MIXED Site Depth: 4.9
Lake Area: 164 Watershed Area: 2600 WA/LA: 15.8 Hydro Type: RESERVOIR
Residence Time: 0.26 Secchi Depth: 1.8 Turbidity: 1.7 Color: 20
Closed pH: 6.79 Equil. pH: 7.08 ANC: 66.1 DOC: 3.00
Closed DIC: 1.05 Equil. DIC: 0.85 Meas. Cond: 36.2 Cal. Cond: 41.3
Ca: 141.2 Mg: 87.2 Na: 55.2 K: 8.4 NH4: 0.0
SO4: 215.7 HCO3: 57.5 Cl: 63.5 NO3: 0.0 F: 3.5
Sum Cations: 292.3 Sum Anions: 340.2 Cations/Anions: 0.86 Tot. P: 10.0
Tot. Al: 41.0 Ext. Al: 6.0 Fe: 40.0 Mn: 0.0 SiO2: 3.71

ID: 1B3-080 Name: BUTLER RESERVOIR State: NJ Date: 16NOV84
Sample Type: SPC/DEW/ Latitude: 41-01'45"N Longitude: 74-23'07"W
Elevation: 241 Surface Temp: 6.2 Stratified: MIXED Site Depth: 3.4
Lake Area: 13 Watershed Area: 324 WA/LA: 24.4 Hydro Type: RESERVOIR
Residence Time: 0.12 Secchi Depth: 1.9 Turbidity: 1.2 Color: 25
Closed pH: 7.35 Equil. pH: 7.52 ANC: 274.5 DOC: 3.10
Closed DIC: 3.30 Equil. DIC: 2.99 Meas. Cond: 94.3 Cal. Cond: 99.3
Ca: 299.4 Mg: 176.9 Na: 328.4 K: 14.6 NH4: 0.0
SO4: 191.1 HCO3: 231.8 Cl: 376.9 NO3: 0.0 F: 3.2
Sum Cations: 819.3 Sum Anions: 803.3 Cations/Anions: 1.02 Tot. P: 12.0
Tot. Al: 6.0 Ext. Al: 3.0 Fe: 110.0 Mn: 0.0 SiO2: 0.69

(continued)

TABLE 4-1 (continued)

ID: 1C1-090 Name: GROUT POND State: VT Date: 07NOV84
Sample Type: SPC/LTM/ Latitude: 43-02'44"N Longitude: 72-56'45"W
Elevation: 681 Surface Temp: 8.0 Stratified: MIXED Site Depth: 8.2
Lake Area: 33 Watershed Area: 153 WA/LA: 4.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.4 Turbidity: 0.4 Color: 20
Closed pH: 6.34 Equil. pH: 6.66 ANC: 41.4 DOC: 3.13
Closed DIC: 0.68 Equil. DIC: 0.39 Meas. Cond: 16.3 Cal. Cond: 15.4
Ca: 61.7 Mg: 28.1 Na: 22.0 K: 12.3 NH4: 0.9
SO4: 75.0 HCO3: 26.0 Cl: 10.5 NO3: 0.1 F: 1.4
Sum Cations: 125.3 Sum Anions: 113.0 Cations/Anions: 1.11 Tot. P: 4.0
Tot. Al: 56.7 Ext. Al: 7.6 Fe: 31.0 Mn: 17.0 SiO2: 1.80

ID: 1C1-091 Name: HARDWOOD POND State: VT Date: 29OCT84
Sample Type: SPC/LTM/ Latitude: 44-28'05"N Longitude: 72-30'00"W
Elevation: 478 Surface Temp: 11.0 Stratified: MIXED Site Depth: 2.4
Lake Area: 19 Watershed Area: 96 WA/LA: 5.0 Hydro Type: DRAINAGE
Residence Time: 0.31 Secchi Depth: 2.0 Turbidity: 0.8 Color: 40
Closed pH: 6.03 Equil. pH: 6.48 ANC: 31.4 DOC: 4.16
Closed DIC: 0.81 Equil. DIC: 0.38 Meas. Cond: 18.3 Cal. Cond: 18.5
Ca: 79.5 Mg: 38.6 Na: 19.4 K: 3.9 NH4: 0.9
SO4: 99.3 HCO3: 34.6 Cl: 8.7 NO3: 0.1 F: 1.4
Sum Cations: 142.7 Sum Anions: 144.1 Cations/Anions: 0.99 Tot. P: 12.4
Tot. Al: 113.4 Ext. Al: 10.6 Fe: 44.0 Mn: 30.0 SiO2: 0.30

ID: 1C1-092 Name: LILY POND State: VT Date: 23OCT84
Sample Type: SPC/LTM/ Latitude: 43-14'03"N Longitude: 72-45'05"W
Elevation: 454 Surface Temp: 13.6 Stratified: MIXED Site Depth: 1.5
Lake Area: 11 Watershed Area: 106 WA/LA: 9.3 Hydro Type: DRAINAGE
Residence Time: 0.11 Secchi Depth: 1.7 Turbidity: 1.0 Color: 20
Closed pH: 6.51 Equil. pH: 6.79 ANC: 53.8 DOC: 4.66
Closed DIC: 0.80 Equil. DIC: 0.58 Meas. Cond: 19.2 Cal. Cond: 20.9
Ca: 73.9 Mg: 43.7 Na: 37.8 K: 16.6 NH4: 0.6
SO4: 98.1 HCO3: 47.7 Cl: 11.4 NO3: 0.4 F: 1.7
Sum Cations: 172.9 Sum Anions: 159.3 Cations/Anions: 1.09 Tot. P: 14.4
Tot. Al: 150.2 Ext. Al: 11.8 Fe: 21.0 Mn: 19.0 SiO2: 0.59

ID: 1C1-093 Name: LITTLE POND State: VT Date: 06NOV84
Sample Type: SPC/LTM/ Latitude: 42-55'30"N Longitude: 73-03'55"W
Elevation: 793 Surface Temp: 6.3 Stratified: MIXED Site Depth: 2.4
Lake Area: 7 Watershed Area: 140 WA/LA: 19.7 Hydro Type: DRAINAGE
Residence Time: 0.09 Secchi Depth: 2.8 Turbidity: 0.3 Color: 15
Closed pH: 5.27 Equil. pH: 5.33 ANC: 4.7 DOC: 1.48
Closed DIC: 0.48 Equil. DIC: 0.17 Meas. Cond: 19.9 Cal. Cond: 19.5
Ca: 54.1 Mg: 20.6 Na: 30.2 K: 12.1 NH4: 1.1
SO4: 122.9 HCO3: 3.3 Cl: 9.7 NO3: 4.8 F: 2.1
Sum Cations: 122.4 Sum Anions: 142.8 Cations/Anions: 0.86 Tot. P: 5.4
Tot. Al: 190.0 Ext. Al: 112.7 Fe: 47.0 Mn: 47.0 SiO2: 2.67

ID: 1C1-094 Name: LITTLE POND State: VT Date: 06NOV84
Sample Type: SPC/LTM/ Latitude: 43-07'25"N Longitude: 72-56'30"W
Elevation: 753 Surface Temp: 5.7 Stratified: MIXED Site Depth: 1.5
Lake Area: 5 Watershed Area: 52 WA/LA: 9.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.5 Turbidity: 0.6 Color: 30
Closed pH: 6.03 Equil. pH: 6.39 ANC: 27.9 DOC: 4.75
Closed DIC: 0.50 Equil. DIC: 0.27 Meas. Cond: 13.8 Cal. Cond: 14.3
Ca: 53.2 Mg: 23.2 Na: 24.2 K: 10.6 NH4: 1.2
SO4: 70.0 HCO3: 18.5 Cl: 9.3 NO3: 3.2 F: 1.5
Sum Cations: 113.3 Sum Anions: 102.5 Cations/Anions: 1.11 Tot. P: 4.7
Tot. Al: 108.0 Ext. Al: 31.0 Fe: 20.0 Mn: 15.0 SiO2: 1.02

(continued)

TABLE 4-1 (continued)

ID: 1C1-095 Name: STAMFORD POND State: VT Date: 07NOV84
Sample Type: SPC/LTM/ Latitude: 42-49'20"N Longitude: 73-03'55"W
Elevation: 753 Surface Temp: 5.1 Stratified: MIXED Site Depth: 4.3
Lake Area: 4 Watershed Area: 96 WA/LA: 26.7 Hydro Type: DRAINAGE
Residence Time: 0.12 Secchi Depth: 2.2 Turbidity: 0.9 Color: 35
Closed pH: 6.16 Equil. pH: 6.57 ANC: 38.2 DOC: 3.71
Closed DIC: 0.66 Equil. DIC: 0.34 Meas. Cond: 17.8 Cal. Cond: 18.9
Ca: 62.4 Mg: 27.6 Na: 43.9 K: 11.0 NH4: 1.1
SO4: 95.9 HCO3: 23.0 Cl: 15.8 NO3: 4.8 F: 2.5
Sum Cations: 146.7 Sum Anions: 141.9 Cations/Anions: 1.03 Tot. P: 8.4
Tot. Al: 201.0 Ext. Al: 36.4 Fe: 50.0 Mn: 19.0 SiO2: 3.51

ID: 1C1-096 Name: STRATTON POND State: VT Date: 07NOV84
Sample Type: SPC/LTM/ Latitude: 43-06'15"N Longitude: 72-58'10"W
Elevation: 779 Surface Temp: 6.4 Stratified: MIXED Site Depth: 3.5
Lake Area: 18 Watershed Area: 104 WA/LA: 5.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.3 Turbidity: 0.9 Color: 25
Closed pH: 6.17 Equil. pH: 6.39 ANC: 29.3 DOC: 5.77
Closed DIC: 0.44 Equil. DIC: 0.29 Meas. Cond: 15.2 Cal. Cond: 15.3
Ca: 60.3 Mg: 27.3 Na: 23.4 K: 10.9 NH4: 0.7
SO4: 79.1 HCO3: 18.2 Cl: 8.9 NO3: 0.1 F: 1.4
Sum Cations: 123.4 Sum Anions: 107.7 Cations/Anions: 1.15 Tot. P: 5.5
Tot. Al: 104.2 Ext. Al: 19.0 Fe: 33.0 Mn: 15.0 SiO2: 1.87

ID: 1C1-097 Name: SUNSET LAKE State: VT Date: 06NOV84
Sample Type: SPC/LTM/ Latitude: 42-55'10"N Longitude: 72-41'00"W
Elevation: 421 Surface Temp: 9.7 Stratified: MIXED Site Depth: 8.8
Lake Area: 38 Watershed Area: 210 WA/LA: 5.6 Hydro Type: DRAINAGE
Residence Time: 1.25 Secchi Depth: 4.3 Turbidity: 0.3 Color: 20
Closed pH: 6.18 Equil. pH: 6.42 ANC: 24.4 DOC: 3.04
Closed DIC: 0.48 Equil. DIC: 0.32 Meas. Cond: 16.6 Cal. Cond: 17.9
Ca: 64.1 Mg: 25.5 Na: 30.1 K: 5.5 NH4: 3.7
SO4: 100.0 HCO3: 15.9 Cl: 18.7 NO3: 0.1 F: 1.2
Sum Cations: 129.9 Sum Anions: 135.9 Cations/Anions: 0.96 Tot. P: 6.3
Tot. Al: 27.7 Ext. Al: 2.1 Fe: 12.0 Mn: 53.0 SiO2: 1.14

ID: 1C1-098 Name: UNKNOWN POND State: VT Date: 18OCT84
Sample Type: SPC/LTM/ Latitude: 44-54'35"N Longitude: 71-50'40"W
Elevation: 710 Surface Temp: 9.9 Stratified: MIXED Site Depth: 3.0
Lake Area: 7 Watershed Area: 111 WA/LA: 16.6 Hydro Type: DRAINAGE
Residence Time: 0.12 Secchi Depth: 2.3 Turbidity: 0.8 Color: 55
Closed pH: 6.12 Equil. pH: 6.66 ANC: 37.8 DOC: 5.90
Closed DIC: 0.72 Equil. DIC: 0.43 Meas. Cond: 21.4 Cal. Cond: 22.6
Ca: 110.7 Mg: 31.6 Na: 23.5 K: 7.2 NH4: 11.0
SO4: 113.7 HCO3: 31.8 Cl: 7.9 NO3: 5.7 F: 3.2
Sum Cations: 184.6 Sum Anions: 162.2 Cations/Anions: 1.14 Tot. P: 16.6
Tot. Al: 492.2 Ext. Al: 14.6 Fe: 181.0 Mn: 29.0 SiO2: 1.51

ID: 1C1-099 Name: BEEBE POND State: VT Date: 07NOV84
Sample Type: SPC/LTM/ Latitude: 43-03'12"N Longitude: 73-01'58"W
Elevation: 719 Surface Temp: 6.0 Stratified: MIXED Site Depth: 6.7
Lake Area: 4 Watershed Area: 67 WA/LA: 19.1 Hydro Type: DRAINAGE
Residence Time: 0.25 Secchi Depth: 1.1 Turbidity: 1.2 Color: 55
Closed pH: 4.87 Equil. pH: 4.90 ANC: -1.7 DOC: 5.15
Closed DIC: 0.57 Equil. DIC: 0.13 Meas. Cond: 19.1 Cal. Cond: 17.9
Ca: 32.6 Mg: 20.5 Na: 20.1 K: 9.0 NH4: 4.5
SO4: 89.6 HCO3: 1.0 Cl: 8.7 NO3: 1.6 F: 1.3
Sum Cations: 100.6 Sum Anions: 102.2 Cations/Anions: 0.98 Tot. P: 7.4
Tot. Al: 360.3 Ext. Al: 112.7 Fe: 177.0 Mn: 41.0 SiO2: 2.46

(continued)

TABLE 4-1 (continued)

ID: 1C1-101 Name: BRANCH POND State: VT Date: 07NOV84
Sample Type: SPC/LTM/ Latitude: 43-04'52"N Longitude: 73-01'07"W
Elevation: 802 Surface Temp: 6.3 Stratified: MIXED Site Depth: 3.4
Lake Area: 17 Watershed Area: 132 WA/LA: 7.7 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 1.1 Turbidity: 1.0 Color: 60
Closed pH: 5.17 Equil. pH: 5.27 ANC: 9.7 DOC: 7.02
Closed DIC: 0.80 Equil. DIC: 0.17 Meas. Cond: 16.8 Cal. Cond: 16.9
Ca: 44.8 Mg: 26.5 Na: 29.9 K: 10.0 NH4: 7.3
SO4: 83.2 HCO3: 3.4 Cl: 11.4 NO3: 3.6 F: 1.3
Sum Cations: 124.3 Sum Anions: 102.9 Cations/Anions: 1.21 Tot. P: 10.9
Tot. Al: 392.0 Ext. Al: 144.1 Fe: 174.0 Mn: 27.0 SiO2: 3.38

ID: 1C1-102 Name: WEARE RESERVOIR State: NH Date: 01NOV84
Sample Type: SPC/NRC/ Latitude: 43-05'45"N Longitude: 71-47'30"W
Elevation: 200 Surface Temp: 11.7 Stratified: MIXED Site Depth: 6.1
Lake Area: 128 Watershed Area: 7462 WA/LA: 58.4 Hydro Type: RESERVOIR
Residence Time: 0.09 Secchi Depth: 2.5 Turbidity: 1.4 Color: 40
Closed pH: 6.35 Equil. pH: 7.27 ANC: 107.6 DOC: 4.53
Closed DIC: 1.97 Equil. DIC: 1.07 Meas. Cond: 35.4 Cal. Cond: 37.0
Ca: 117.7 Mg: 38.7 Na: 146.9 K: 11.4 NH4: 2.7
SO4: 80.8 HCO3: 98.4 Cl: 111.7 NO3: 0.0 F: 2.5
Sum Cations: 317.4 Sum Anions: 293.5 Cations/Anions: 1.08 Tot. P: 10.4
Tot. Al: 126.4 Ext. Al: 9.5 Fe: 203.0 Mn: 8.0 SiO2: 3.23

ID: 1C1-103 Name: LITTLE AVERILL POND State: VT Date: 18OCT84
Sample Type: SPC/LTM/ Latitude: 44-57'18"N Longitude: 71-43'00"W
Elevation: 530 Surface Temp: 10.8 Stratified: STRONG Site Depth: 31.1
Lake Area: 183 Watershed Area: 1168 WA/LA: 6.4 Hydro Type: DRAINAGE
Residence Time: 2.96 Secchi Depth: 6.4 Turbidity: 0.1 Color: 10
Closed pH: 7.25 Equil. pH: 7.34 ANC: 132.4 DOC: 2.64
Closed DIC: 1.63 Equil. DIC: 1.50 Meas. Cond: 29.2 Cal. Cond: 29.6
Ca: 167.4 Mg: 43.4 Na: 36.0 K: 7.4 NH4: 0.8
SO4: 106.5 HCO3: 121.1 Cl: 7.5 NO3: 0.7 F: 5.7
Sum Cations: 255.1 Sum Anions: 241.9 Cations/Anions: 1.05 Tot. P: 5.2
Tot. Al: 21.3 Ext. Al: 9.2 Fe: 2.0 Mn: 4.0 SiO2: 2.88

ID: 1C1-104 Name: LITTLE ROCK POND State: VT Date: 06NOV84
Sample Type: SPC/LTM/ Latitude: 43-24'00"N Longitude: 72-57'20"W
Elevation: 565 Surface Temp: 8.3 Stratified: MIXED Site Depth: 7.0
Lake Area: 6 Watershed Area: 52 WA/LA: 8.5 Hydro Type: DRAINAGE
Residence Time: 0.57 Secchi Depth: 4.6 Turbidity: 0.4 Color: 28
Closed pH: 6.86 Equil. pH: 7.41 ANC: 179.4 DOC: 2.46
Closed DIC: 2.53 Equil. DIC: 1.99 Meas. Cond: 31.5 Cal. Cond: 31.3
Ca: 131.7 Mg: 106.9 Na: 16.7 K: 10.9 NH4: 2.4
SO4: 99.3 HCO3: 157.5 Cl: 11.9 NO3: 0.3 F: 1.4
Sum Cations: 268.6 Sum Anions: 270.7 Cations/Anions: 0.99 Tot. P: 4.1
Tot. Al: 68.6 Ext. Al: 6.7 Fe: 91.0 Mn: 134.5 SiO2: 2.01

ID: 1C1-105 Name: LAKE MANSFIELD State: VT Date: 29OCT84
Sample Type: SPC/LTM/ Latitude: 44-28'20"N Longitude: 72-49'00"W
Elevation: 351 Surface Temp: 12.3 Stratified: MIXED Site Depth: 5.2
Lake Area: 16 Watershed Area: 645 WA/LA: 41.3 Hydro Type: RESERVOIR
Residence Time: 0.09 Secchi Depth: 3.1 Turbidity: 1.0 Color: 25
Closed pH: 6.82 Equil. pH: 7.41 ANC: 156.2 DOC: 2.22
Closed DIC: 2.18 Equil. DIC: 1.88 Meas. Cond: 35.9 Cal. Cond: 38.7
Ca: 222.7 Mg: 47.5 Na: 22.2 K: 9.3 NH4: 13.6
SO4: 150.4 HCO3: 151.6 Cl: 8.5 NO3: 7.7 F: 1.3
Sum Cations: 315.5 Sum Anions: 319.7 Cations/Anions: 0.99 Tot. P: 5.2
Tot. Al: 154.4 Ext. Al: 7.3 Fe: 183.0 Mn: 85.0 SiO2: 2.81

(continued)

TABLE 4-1 (continued)

ID: 1C1-106 Name: SUCKER POND State: VT Date: 07NOV84
Sample Type: SPC/LTM/ Latitude: 42-49'30"N Longitude: 73-07'45"W
Elevation: 691 Surface Temp: 6.5 Stratified: MIXED Site Depth: 2.7
Lake Area: 21 Watershed Area: 85 WA/LA: 4.0 Hydro Type: DRAINAGE
Residence Time: 0.45 Secchi Depth: 2.7 Turbidity: 0.9 Color: 30
Closed pH: 6.90 Equil. pH: 7.12 ANC: 96.9 DOC: 2.97
Closed DIC: 1.13 Equil. DIC: 0.89 Meas. Cond: 23.5 Cal. Cond: 23.2
Ca: 109.1 Mg: 37.7 Na: 30.1 K: 12.8 NH4: 0.9
SO4: 95.5 HCO3: 77.2 Cl: 12.4 NO3: 0.1 F: 2.3
Sum Cations: 190.7 Sum Anions: 187.4 Cations/Anions: 1.02 Tot. P: 6.7
Tot. Al: 73.1 Ext. Al: 3.3 Fe: 16.0 Mn: 5.0 SiO2: 0.65

ID: 1C1-107 Name: BEAVER POND State: VT Date: 18OCT84
Sample Type: SPC/LTM/NRC/ Latitude: 45-00'20"N Longitude: 71-56'30"W
Elevation: 468 Surface Temp: 10.8 Stratified: STRONG Site Depth: 24.4
Lake Area: 18 Watershed Area: 256 WA/LA: 14.1 Hydro Type: DRAINAGE
Residence Time: 1.16 Secchi Depth: 4.8 Turbidity: 0.2 Color: 15
Closed pH: 6.53 Equil. pH: 6.91 ANC: 66.0 DOC: 5.37
Closed DIC: 1.06 Equil. DIC: 0.75 Meas. Cond: 23.4 Cal. Cond: 23.9
Ca: 146.8 Mg: 29.3 Na: 24.0 K: 6.1 NH4: 1.3
SO4: 109.3 HCO3: 46.6 Cl: 8.8 NO3: 0.6 F: 4.0
Sum Cations: 207.8 Sum Anions: 169.4 Cations/Anions: 1.23 Tot. P: 7.0
Tot. Al: 35.0 Ext. Al: 18.8 Fe: 14.0 Mn: 23.0 SiO2: 1.77

ID: 1C1-108 Name: BIG MUDDY POND State: VT Date: 29OCT84
Sample Type: SPC/LTM/ Latitude: 44-45'20"N Longitude: 72-36'00"W
Elevation: 430 Surface Temp: 11.9 Stratified: MIXED Site Depth: 2.4
Lake Area: 5 Watershed Area: 41 WA/LA: 7.6 Hydro Type: DRAINAGE
Residence Time: 0.23 Secchi Depth: 2.3 Turbidity: 1.5 Color: 45
Closed pH: 6.67 Equil. pH: 6.92 ANC: 70.9 DOC: 4.01
Closed DIC: 1.05 Equil. DIC: 0.84 Meas. Cond: 22.8 Cal. Cond: 23.7
Ca: 144.6 Mg: 31.3 Na: 12.4 K: 3.6 NH4: 0.8
SO4: 112.8 HCO3: 60.3 Cl: 7.7 NO3: 0.1 F: 1.2
Sum Cations: 192.9 Sum Anions: 182.2 Cations/Anions: 1.06 Tot. P: 9.0
Tot. Al: 32.0 Ext. Al: 3.8 Fe: 7.0 Mn: 29.0 SiO2: 0.35

ID: 1C1-109 Name: GRIFFITH LAKE State: VT Date: 06NOV84
Sample Type: SPC/LTM/ Latitude: 43-18'08"N Longitude: 72-57'35"W
Elevation: 789 Surface Temp: 6.3 Stratified: MIXED Site Depth: 3.3
Lake Area: 6 Watershed Area: 60 WA/LA: 10.0 Hydro Type: DRAINAGE
Residence Time: 0.23 Secchi Depth: 2.1 Turbidity: 0.9 Color: 50
Closed pH: 5.91 Equil. pH: 6.28 ANC: 37.1 DOC: 8.70
Closed DIC: 0.68 Equil. DIC: 0.31 Meas. Cond: 18.2 Cal. Cond: 16.7
Ca: 80.9 Mg: 29.5 Na: 16.7 K: 8.7 NH4: 1.1
SO4: 86.8 HCO3: 17.9 Cl: 7.7 NO3: 0.0 F: 1.2
Sum Cations: 138.1 Sum Anions: 113.7 Cations/Anions: 1.21 Tot. P: 4.4
Tot. Al: 265.5 Ext. Al: 58.6 Fe: 60.0 Mn: 50.0 SiO2: 2.76

ID: 1C1-110 Name: HAYSTACK POND State: VT Date: 06NOV84
Sample Type: SPC/LTM/NRC/ Latitude: 42-55'00"N Longitude: 72-55'00"W
Elevation: 910 Surface Temp: 6.7 Stratified: MIXED Site Depth: 7.0
Lake Area: 11 Watershed Area: 52 WA/LA: 4.8 Hydro Type: DRAINAGE
Residence Time: 0.86 Secchi Depth: 7.0 Turbidity: 0.4 Color: 10
Closed pH: 5.23 Equil. pH: 5.30 ANC: 2.2 DOC: 0.43
Closed DIC: 0.33 Equil. DIC: 0.16 Meas. Cond: 14.1 Cal. Cond: 13.5
Ca: 33.3 Mg: 17.3 Na: 14.5 K: 4.1 NH4: 2.9
SO4: 75.1 HCO3: 2.0 Cl: 12.5 NO3: 4.6 F: 0.7
Sum Cations: 77.6 Sum Anions: 94.9 Cations/Anions: 0.82 Tot. P: 2.9
Tot. Al: 143.2 Ext. Al: 47.0 Fe: 74.0 Mn: 50.0 SiO2: 0.83

(continued)

TABLE 4-1 (continued)

ID: 1C1-111 Name: HOLLAND POND State: VT Date: 18OCT84
Sample Type: SPC/LTM/ Latitude: 44-59'10"N Longitude: 71-55'45"W
Elevation: 436 Surface Temp: 11.1 Stratified: MIXED Site Depth: 10.4
Lake Area: 131 Watershed Area: 2408 WA/LA: 18.3 Hydro Type: DRAINAGE
Residence Time: 0.39 Secchi Depth: 4.6 Turbidity: 0.4 Color: 25
Closed pH: 7.06 Equil. pH: 7.22 ANC: 118.4 DOC: 5.44
Closed DIC: 1.44 Equil. DIC: 1.28 Meas. Cond: 30.6 Cal. Cond: 29.2
Ca: 189.6 Mg: 37.7 Na: 29.6 K: 6.4 NH4: 0.6
SO4: 111.6 HCO3: 94.5 Cl: 6.8 NO3: 0.1 F: 3.5
Sum Cations: 263.9 Sum Anions: 216.5 Cations/Anions: 1.22 Tot. P: 7.2
Tot. Al: 48.1 Ext. Al: 9.2 Fe: 34.0 Mn: 10.0 SiO2: 2.29

ID: 1C1-112 Name: HOWE POND State: VT Date: 07NOV84
Sample Type: SPC/LTM/ Latitude: 42-47'08"N Longitude: 72-59'15"W
Elevation: 587 Surface Temp: 6.8 Stratified: MIXED Site Depth: 3.1
Lake Area: 21 Watershed Area: 767 WA/LA: 36.7 Hydro Type: DRAINAGE
Residence Time: 0.05 Secchi Depth: 1.4 Turbidity: 1.1 Color: 50
Closed pH: 6.54 Equil. pH: 6.99 ANC: 62.5 DOC: 4.67
Closed DIC: 1.03 Equil. DIC: 0.62 Meas. Cond: 19.5 Cal. Cond: 19.4
Ca: 89.1 Mg: 33.7 Na: 33.2 K: 8.4 NH4: 1.3
SO4: 74.1 HCO3: 55.5 Cl: 16.8 NO3: 0.3 F: 2.2
Sum Cations: 165.9 Sum Anions: 148.9 Cations/Anions: 1.11 Tot. P: 10.8
Tot. Al: 215.4 Ext. Al: 13.2 Fe: 241.0 Mn: 10.0 SiO2: 2.05

ID: 1C1-113 Name: SOMERSET RESERVOIR State: VT Date: 23OCT84
Sample Type: SPC/LTM/ Latitude: 43-00'00"N Longitude: 72-56'20"W
Elevation: 650 Surface Temp: 12.5 Stratified: MIXED Site Depth: 19.5
Lake Area: 598 Watershed Area: 6914 WA/LA: 11.6 Hydro Type: RESERVOIR
Residence Time: 1.01 Secchi Depth: 2.8 Turbidity: 0.9 Color: 25
Closed pH: 5.93 Equil. pH: 6.21 ANC: 22.0 DOC: 3.31
Closed DIC: 0.63 Equil. DIC: 0.27 Meas. Cond: 17.9 Cal. Cond: 16.8
Ca: 64.4 Mg: 26.5 Na: 23.5 K: 13.0 NH4: 1.8
SO4: 85.2 HCO3: 16.5 Cl: 9.7 NO3: 7.4 F: 1.3
Sum Cations: 130.4 Sum Anions: 120.1 Cations/Anions: 1.09 Tot. P: 6.8
Tot. Al: 157.9 Ext. Al: 29.8 Fe: 53.0 Mn: 55.0 SiO2: 2.36

ID: 1C1-114 Name: STERLING POND State: VT Date: 29OCT84
Sample Type: SPC/LTM/ Latitude: 44-33'22"N Longitude: 72-46'28"W
Elevation: 917 Surface Temp: 8.9 Stratified: MIXED Site Depth: 1.5
Lake Area: 3 Watershed Area: 10 WA/LA: 3.7 Hydro Type: DRAINAGE
Residence Time: 0.21 Secchi Depth: 1.5 Turbidity: 0.8 Color: 50
Closed pH: 6.57 Equil. pH: 6.91 ANC: 70.7 DOC: 4.91
Closed DIC: 1.10 Equil. DIC: 0.70 Meas. Cond: 19.9 Cal. Cond: 20.4
Ca: 102.1 Mg: 72.3 Na: 9.7 K: 3.4 NH4: 1.7
SO4: 79.3 HCO3: 51.6 Cl: 7.5 NO3: 4.3 F: 0.9
Sum Cations: 189.6 Sum Anions: 143.6 Cations/Anions: 1.32 Tot. P: 9.0
Tot. Al: 209.0 Ext. Al: 21.7 Fe: 105.0 Mn: 25.0 SiO2: 0.84

ID: 1C1-115 Name: MOSES POND State: VT Date: 06NOV84
Sample Type: SPC/LTM/ Latitude: 43-20'03"N Longitude: 72-50'35"W
Elevation: 680 Surface Temp: 6.2 Stratified: MIXED Site Depth: 1.4
Lake Area: 3 Watershed Area: 47 WA/LA: 18.1 Hydro Type: DRAINAGE
Residence Time: 0.06 Secchi Depth: 1.4 Turbidity: 0.4 Color: 20
Closed pH: 4.92 Equil. pH: 4.93 ANC: 17.1 DOC: 5.08
Closed DIC: 0.50 Equil. DIC: 0.16 Meas. Cond: 19.9 Cal. Cond: 20.0
Ca: 49.9 Mg: 31.5 Na: 19.3 K: 5.2 NH4: 1.4
SO4: 106.3 HCO3: 2.8 Cl: 11.3 NO3: 0.2 F: 1.8
Sum Cations: 119.6 Sum Anions: 122.4 Cations/Anions: 0.98 Tot. P: 8.4
Tot. Al: 157.4 Ext. Al: 64.6 Fe: 101.0 Mn: 83.0 SiO2: 1.15

(continued)

TABLE 4-1 (continued)

ID: 1C1-116 Name: GRANITE LAKE State: NH Date: 24OCT84
Sample Type: SPC/NRC/ Latitude: 43-01'15"N Longitude: 72-08'30"W
Elevation: 390 Surface Temp: 13.1 Stratified: STRONG Site Depth: 26.2
Lake Area: 97 Watershed Area: 1085 WA/LA: 11.1 Hydro Type: DRAINAGE
Residence Time: 1.63 Secchi Depth: 7.3 Turbidity: 0.2 Color: 5
Closed pH: 6.48 Equil. pH: 6.68 ANC: 37.8 DOC: 1.56
Closed DIC: 0.46 Equil. DIC: 0.38 Meas. Cond: 37.5 Cal. Cond: 39.7
Ca: 70.2 Mg: 49.4 Na: 170.5 K: 15.0 NH4: 0.7
SO4: 117.4 HCO3: 29.4 Cl: 160.6 NO3: 0.2 F: 2.6
Sum Cations: 306.0 Sum Anions: 310.3 Cations/Anions: 0.99 Tot. P: 2.5
Tot. Al: 8.5 Ext. Al: 5.1 Fe: 7.0 Mn: 5.0 SiO2: 2.62

ID: 1C1-117 Name: PEA PORRIDGE POND State: NH Date: 25OCT84
Sample Type: SPC/NRC/ Latitude: 43-56'28"N Longitude: 71-07'15"W
Elevation: 198 Surface Temp: 12.8 Stratified: MIXED Site Depth: 11.0
Lake Area: 64 Watershed Area: 541 WA/LA: 8.5 Hydro Type: DRAINAGE
Residence Time: 0.88 Secchi Depth: 5.0 Turbidity: 0.5 Color: 15
Closed pH: 6.43 Equil. pH: 6.89 ANC: 53.5 DOC: 2.67
Closed DIC: 0.76 Equil. DIC: 0.61 Meas. Cond: 18.2 Cal. Cond: 19.2
Ca: 72.0 Mg: 19.5 Na: 58.2 K: 7.8 NH4: 1.1
SO4: 69.3 HCO3: 44.7 Cl: 27.1 NO3: 0.2 F: 11.1
Sum Cations: 158.8 Sum Anions: 152.3 Cations/Anions: 1.04 Tot. P: 0.2
Tot. Al: 89.7 Ext. Al: 6.3 Fe: 23.0 Mn: 10.0 SiO2: 3.62

ID: 1C1-118 Name: PROVINCE LAKE State: NH Date: 29OCT84
Sample Type: SPC/NRC/ Latitude: 43-41'30"N Longitude: 71-00'00"W
Elevation: 146 Surface Temp: 12.9 Stratified: MIXED Site Depth: 4.0
Lake Area: 386 Watershed Area: 1839 WA/LA: 4.8 Hydro Type: DRAINAGE
Residence Time: 0.55 Secchi Depth: 3.0 Turbidity: 1.2 Color: 15
Closed pH: 6.86 Equil. pH: 7.15 ANC: 94.8 DOC: 3.40
Closed DIC: 1.17 Equil. DIC: 1.03 Meas. Cond: 32.5 Cal. Cond: 32.6
Ca: 92.5 Mg: 37.3 Na: 131.2 K: 9.3 NH4: 1.1
SO4: 75.5 HCO3: 78.6 Cl: 103.2 NO3: 0.2 F: 5.3
Sum Cations: 271.5 Sum Anions: 262.8 Cations/Anions: 1.03 Tot. P: 9.5
Tot. Al: 74.6 Ext. Al: 2.4 Fe: 0.0 Mn: 0.0 SiO2: 2.92

ID: 1C1-119 Name: SAND POND State: NH Date: 24OCT84
Sample Type: SPC/NRC/ Latitude: 43-10'45"N Longitude: 72-10'00"W
Elevation: 470 Surface Temp: 12.9 Stratified: MIXED Site Depth: 7.0
Lake Area: 65 Watershed Area: 326 WA/LA: 5.0 Hydro Type: DRAINAGE
Residence Time: 1.05 Secchi Depth: 7.0 Turbidity: 0.1 Color: 5
Closed pH: 5.55 Equil. pH: 5.66 ANC: 7.8 DOC: 1.50
Closed DIC: 0.26 Equil. DIC: 0.14 Meas. Cond: 22.3 Cal. Cond: 22.4
Ca: 76.5 Mg: 27.5 Na: 46.4 K: 7.7 NH4: 0.8
SO4: 128.6 HCO3: 7.9 Cl: 28.9 NO3: 0.0 F: 2.2
Sum Cations: 160.1 Sum Anions: 167.6 Cations/Anions: 0.96 Tot. P: 3.0
Tot. Al: 38.4 Ext. Al: 21.2 Fe: 6.0 Mn: 29.0 SiO2: 1.09

ID: 1C1-120 Name: SILVER LAKE State: NH Date: 25OCT84
Sample Type: SPC/NRC/ Latitude: 43-52'00"N Longitude: 71-10'30"W
Elevation: 142 Surface Temp: 12.8 Stratified: WEAK Site Depth: 19.5
Lake Area: 389 Watershed Area: 5662 WA/LA: 14.6 Hydro Type: DRAINAGE
Residence Time: 0.94 Secchi Depth: 5.9. Turbidity: 0.3 Color: 15
Closed pH: 6.77 Equil. pH: 7.05 ANC: 114.8 DOC: 2.78
Closed DIC: 1.01 Equil. DIC: 0.86 Meas. Cond: 25.7 Cal. Cond: 22.8
Ca: 91.8 Mg: 24.3 Na: 94.7 K: 9.7 NH4: 0.7
SO4: 66.7 HCO3: 62.1 Cl: 22.4 NO3: 0.0 F: 11.6
Sum Cations: 221.3 Sum Anions: 162.9 Cations/Anions: 1.36 Tot. P: 4.6
Tot. Al: 47.5 Ext. Al: 8.9 Fe: 27.0 Mn: 4.0 SiO2: 4.90

(continued)

TABLE 4-1 (continued)

ID: 1C2-071 Name: PIGEON POND State: VT Date: 29OCT84
Sample Type: SPC/LTM/ Latitude: 44-14'45"N Longitude: 72-19'45"W
Elevation: 596 Surface Temp: 11.4 Stratified: MIXED Site Depth: 6.1
Lake Area: 29 Watershed Area: 316 WA/LA: 10.9 Hydro Type: DRAINAGE
Residence Time: 0.55 Secchi Depth: 2.7 Turbidity: 0.5 Color: 23
Closed pH: 6.86 Equil. pH: 7.13 ANC: 97.5 DOC: 4.79
Closed DIC: 1.19 Equil. DIC: 1.00 Meas. Cond: 26.8 Cal. Cond: 26.8
Ca: 146.6 Mg: 35.9 Na: 36.7 K: 7.4 NH4: 1.0
SO4: 116.5 HCO3: 79.5 Cl: 9.2 NO3: 0.2 F: 2.1
Sum Cations: 227.8 Sum Anions: 207.5 Cations/Anions: 1.10 Tot. P: 4.5
Tot. Al: 88.0 Ext. Al: 11.7 Fe: 20.5 Mn: 7.0 SiO2: 4.22

ID: 1C2-072 Name: LAKE NINEVAH State: VT Date: 23OCT84
Sample Type: SPC/LTM/ Latitude: 43-28'15"N Longitude: 72-45'30"W
Elevation: 535 Surface Temp: 12.6 Stratified: MIXED Site Depth: 3.0
Lake Area: 69 Watershed Area: 313 WA/LA: 4.5 Hydro Type: DRAINAGE
Residence Time: 0.44 Secchi Depth: 2.8 Turbidity: 0.6 Color: 20
Closed pH: 6.78 Equil. pH. 6.96 ANC: 64.2 DOC: 5.04
Closed DIC: 0.99 Equil. DIC: 0.66 Meas. Cond: 20.8 Cal. Cond: 22.4
Ca: 101.6 Mg: 41.4 Na: 27.6 K: 14.9 NH4: 0.6
SO4: 95.5 HCO3: 62.2 Cl: 14.3 NO3: 0.1 F: 1.4
Sum Cations: 186.4 Sum Anions: 173.4 Cations/Anions: 1.07 Tot. P: 8.9
Tot. Al: 50.8 Ext. Al: 7.7 Fe: 15.0 Mn: 3.0 SiO2: 0.15

ID: 1C2-073 Name: OSMORE POND State: VT Date: 25OCT84
Sample Type: SPC/LTM/ Latitude: 44-18'30"N Longitude: 72-16'45"W
Elevation: 448 Surface Temp: 11.1 Stratified: MIXED Site Depth: 3.0
Lake Area: 19 Watershed Area: 298 WA/LA: 15.9 Hydro Type: DRAINAGE
Residence Time: 0.19 Secchi Depth: 3.0 Turbidity: 0.7 Color: 15
Closed pH: 7.22 Equil. pH: 7.38 ANC: 192.3 DOC: 3.21
Closed DIC: 1.78 Equil. DIC: 1.71 Meas. Cond: 31.3 Cal. Cond: 33.4
Ca: 170.9 Mg: 39.8 Na: 68.2 K: 11.2 NH4: 0.9
SO4: 109.9 HCO3: 148.9 Cl: 16.8 NO3: 0.1 F: 1.8
Sum Cations: 291.0 Sum Anions: 278.1 Cations/Anions: 1.05 Tot. P: 9.4
Tot. Al: 53.8 Ext. Al: 11.8 Fe: 0.0 Mn: 0.0 SiO2: 8.98

ID: 1C2-074 Name: WHEELER POND State: VT Date: 25OCT84
Sample Type: SPC/LTM/ Latitude: 44-42'30"N Longitude: 71-38'30"W
Elevation: 313 Surface Temp: 10.6 Stratified: MIXED Site Depth: 4.6
Lake Area: 28 Watershed Area: 1676 WA/LA: 59.2 Hydro Type: DRAINAGE
Residence Time: 0.06 Secchi Depth: 2.5 Turbidity: 0.4 Color: 60
Closed pH: 6.67 Equil. pH: 7.23 ANC: 134.1 DOC: 8.29
Closed DIC: 1.82 Equil. DIC: 1.23 Meas. Cond: 29.4 Cal. Cond: 30.5
Ca: 169.5 Mg: 49.1 Na: 53.4 K: 16.1 NH4: 1.2
SO4: 101.4 HCO3: 103.7 Cl: 9.4 NO3: 0.4 F: 6.8
Sum Cations: 289.4 Sum Anions: 221.8 Cations/Anions: 1.30 Tot. P: 5.1
Tot. Al: 217.0 Ext. Al: 31.2 Fe: 81.0 Mn: 14.5 SiO2: 5.42

ID: 1C2-075 Name: COW MTN. POND State: VT Date: 25OCT84
Sample Type: SPC/LTM/ Latitude: 44-33'40"N Longitude: 71-42'10"W
Elevation: 629 Surface Temp: 9.8 Stratified: MIXED Site Depth: 6.7
Lake Area: 3 Watershed Area: 52 WA/LA: 16.8 Hydro Type: DRAINAGE
Residence Time: 0.33 Secchi Depth: 3.4 Turbidity: 0.5 Color: 30
Closed pH: 6.77 Equil. pH: 7.30 ANC: 136.3 DOC: 4.98
Closed DIC: 1.92 Equil. DIC: 1.42 Meas. Cond: 28.2 Cal. Cond: 29.0
Ca: 150.0 Mg: 66.1 Na: 36.8 K: 10.6 NH4: 0.9
SO4: 98.9 HCO3: 116.2 Cl: 7.8 NO3: 0.3 F: 1.7
Sum Cations: 264.5 Sum Anions: 224.9 Cations/Anions: 1.18 Tot. P: 4.8
Tot. Al: 186.6 Ext. Al: 17.9 Fe: 11.0 Mn: 15.0 SiO2: 3.50

(continued)

TABLE 4-1 (continued)

ID: 1C2-076 Name: CANAAN STREET LAKE State: NH Date: 23OCT84
Sample Type: SPC/NRC/ Latitude: 43-40'00"N Longitude: 72-02'00"W
Elevation: 348 Surface Temp: 12.8 Stratified: MIXED Site Depth: 6.7
Lake Area: 119 Watershed Area: 627 WA/LA: 5.3 Hydro Type: DRAINAGE
Residence Time: 0.95 Secchi Depth: 4.4 Turbidity: 0.2 Color: 13
Closed pH: 7.22 Equil. pH: 7.41 ANC: 169.1 DOC: 3.91
Closed DIC: 1.96 Equil. DIC: 1.74 Meas. Cond: 41.6 Cal. Cond: 45.2
Ca: 201.0 Mg: 56.5 Na: 113.7 K: 10.6 NH4: 0.5
SO4: 117.4 HCO3: 165.3 Cl: 89.7 NO3: 0.0 F: 1.5
Sum Cations: 382.4 Sum Anions: 374.3 Cations/Anions: 1.02 Tot. P: 4.9
Tot. Al: 112.2 Ext. Al: 7.4 Fe: 3.0 Mn: 3.0 SiO2: 0.36

ID: 1C2-077 Name: CONTOOCOOK LAKE State: NH Date: 01NOV84
Sample Type: SPC/NRC/ Latitude: 42-47'30"N Longitude: 72-00'30"W
Elevation: 308 Surface Temp: 11.8 Stratified: MIXED Site Depth: 6.1
Lake Area: 163 Watershed Area: 3642 WA/LA: 22.4 Hydro Type: DRAINAGE
Residence Time: 0.19 Secchi Depth: 2.9 Turbidity: 1.0 Color: 25
Closed pH: 6.49 Equil. pH: 6.96 ANC: 72.8 DOC: 3.69
Closed DIC: 1.18 Equil. DIC: 0.74 Meas. Cond: 47.1 Cal. Cond: 48.2
Ca: 87.6 Mg: 41.7 Na: 235.8 K: 20.5 NH4: 1.7
SO4: 94.8 HCO3: 68.7 Cl: 215.5 NO3: 0.2 F: 2.6
Sum Cations: 387.6 Sum Anions: 381.9 Cations/Anions: 1.02 Tot. P: 20.6
Tot. Al: 63.4 Ext. Al: 3.4 Fe: 155.0 Mn: 15.0 SiO2: 1.84

ID: 1C2-078 Name: CRYSTAL LAKE State: NH Date: 30OCT84
Sample Type: SPC/NRC/ Latitude: 43-26'30"N Longitude: 71-18'45"W
Elevation: 191 Surface Temp: 12.0 Stratified: MIXED Site Depth: 15.2
Lake Area: 179 Watershed Area: 7130 WA/LA: 39.9 Hydro Type: DRAINAGE
Residence Time: 0.34 Secchi Depth: 4.3 Turbidity: 0.6 Color: 20
Closed pH: 6.49 Equil. pH: 6.94 ANC: 73.4 DOC: 2.94
Closed DIC: 1.26 Equil. DIC: 0.83 Meas. Cond: 23.4 Cal. Cond: 24.1
Ca: 96.6 Mg: 30.2 Na: 65.8 K: 7.6 NH4: 1.3
SO4: 92.0 HCO3: 57.2 Cl: 33.1 NO3: 0.4 F: 5.0
Sum Cations: 201.8 Sum Anions: 187.8 Cations/Anions: 1.07 Tot. P: 5.0
Tot. Al: 28.0 Ext. Al: 1.7 Fe: 132.0 Mn: 60.0 SiO2: 3.74

ID: 1C2-079 Name: HALFMOON LAKE State: NH Date: 30OCT84
Sample Type: SPC/NRC/ Latitude: 43-23'30"N Longitude: 71-13'45"W
Elevation: 195 Surface Temp: 12.5 Stratified: MIXED Site Depth: 9.1
Lake Area: 114 Watershed Area: 1730 WA/LA: 15.1 Hydro Type: DRAINAGE
Residence Time: 0.52 Secchi Depth: 5.3 Turbidity: 0.5 Color: 15
Closed pH: 6.62 Equil. pH: 7.01 ANC: 70.2 DOC: 3.41
Closed DIC: 1.08 Equil. DIC: 0.80 Meas. Cond: 28.6 Cal. Cond: 29.9
Ca: 83.5 Mg: 36.6 Na: 119.3 K: 9.4 NH4: 1.1
SO4: 88.8 HCO3: 55.7 Cl: 84.5 NO3: 0.5 F: 2.4
Sum Cations: 250.1 Sum Anions: 231.9 Cations/Anions: 1.08 Tot. P: 5.2
Tot. Al: 22.2 Ext. Al: 2.8 Fe: 32.0 Mn: 25.0 SiO2: 3.04

ID: 1C2-080 Name: HUBBARD POND State: NH Date: 03NOV84
Sample Type: SPC/NRC/ Latitude: 42-46'45"N Longitude: 71-58'00"W
Elevation: 338 Surface Temp: 10.3 Stratified: MIXED Site Depth: 4.9
Lake Area: 78 Watershed Area: 906 WA/LA: 11.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.2 Turbidity: 0.7 Color: 35
Closed pH: 5.81 Equil. pH: 6.23 ANC: 28.0 DOC: 4.92
Closed DIC: 0.60 Equil. DIC: 0.24 Meas. Cond: 21.8 Cal. Cond: 21.8
Ca: 53.0 Mg: 24.8 Na: 85.8 K: 7.0 NH4: 3.4
SO4: 83.7 HCO3: 13.9 Cl: 55.5 NO3: 1.2 F: 2.2
Sum Cations: 175.4 Sum Anions: 156.5 Cations/Anions: 1.12 Tot. P: 10.1
Tot. Al: 93.6 Ext. Al: 10.7 Fe: 100.0 Mn: 10.0 SiO2: 0.86

(continued)

TABLE 4-1 (continued)

ID: 1C2-081 Name: ONWAY LAKE State: NH Date: 30OCT84
Sample Type: SPC/NRC/ Latitude: 43-02'30"N Longitude: 71-13'15"W
Elevation: 81 Surface Temp: 13.4 Stratified: MIXED Site Depth: 4.9
Lake Area: 73 Watershed Area: 2194 WA/LA: 30.2 Hydro Type: DRAINAGE
Residence Time: 0.19 Secchi Depth: 3.4 Turbidity: 0.9 Color: 30
Closed pH: 6.87 Equil. pH: 7.24 ANC: 129.3 DOC: 5.62
Closed DIC: 1.68 Equil. DIC: 1.44 Meas. Cond: 65.4 Cal. Cond: 68.8
Ca: 163.1 Mg: 57.5 Na: 348.0 K: 14.5 NH4: 1.3
SO4: 92.3 HCO3: 104.8 Cl: 329.5 NO3: 0.1 F: 3.1
Sum Cations: 584.6 Sum Anions: 530.0 Cations/Anions: 1.10 Tot. P: 9.4
Tot. Al: 32.8 Ext. Al: 2.1 Fe: 134.0 Mn: 20.0 SiO2: 2.28

ID: 1C2-082 Name: WHITEOAK POND State: NH Date: 24OCT84
Sample Type: SPC/NRC/ Latitude: 43-43'05"N Longitude: 71-33'30"W
Elevation: 178 Surface Temp: 12.8 Stratified: MIXED Site Depth: 9.7
Lake Area: 122 Watershed Area: 1272 WA/LA: 10.4 Hydro Type: DRAINAGE
Residence Time: 0.63 Secchi Depth: 3.2 Turbidity: 0.5 Color: 15
Closed pH: 6.79 Equil. pH: 7.21 ANC: 102.2 DOC: 4.48
Closed DIC: 1.34 Equil. DIC: 0.94 Meas. Cond: 31.8 Cal. Cond: 32.4
Ca: 118.5 Mg: 37.6 Na: 103.1 K: 14.7 NH4: 1.0
SO4: 75.3 HCO3: 91.8 Cl: 87.8 NO3: 0.5 F: 1.8
Sum Cations: 275.0 Sum Anions: 257.3 Cations/Anions: 1.07 Tot. P: 11.5
Tot. Al: 24.1 Ext. Al: 6.2 Fe: 37.0 Mn: 0.0 SiO2: 1.81

ID: 1C3-075 Name: SOUTH POND State: VT Date: 06NOV84
Sample Type: SPC/LTM/ Latitude: 42-50'38"N Longitude: 72-42'45"W
Elevation: 506 Surface Temp: 9.3 Stratified: MIXED Site Depth: 10.1
Lake Area: 25 Watershed Area: 145 WA/LA: 5.8 Hydro Type: DRAINAGE
Residence Time: 1.18 Secchi Depth: 3.2 Turbidity: 0.6 Color: 10
Closed pH: 6.51 Equil. pH: 6.74 ANC: 39.2 DOC: 2.16
Closed DIC: 0.66 Equil. DIC: 0.52 Meas. Cond: 20.6 Cal. Cond: 20.2
Ca: 79.7 Mg: 32.9 Na: 29.7 K: 7.4 NH4: 1.1
SO4: 105.6 HCO3: 36.0 Cl: 17.3 NO3: 0.0 F: 1.5
Sum Cations: 151.2 Sum Anions: 160.4 Cations/Anions: 0.94 Tot. P: 4.9
Tot. Al: 23.0 Ext. Al: 2.3 Fe: 23.0 Mn: 38.0 SiO2: 1.07

ID: 1C3-076 Name: FORESTER POND State: VT Date: 23OCT84
Sample Type: SPC/LTM/ Latitude: 43-04'54"N Longitude: 72-52'05"W
Elevation: 533 Surface Temp: 13.8 Stratified: MIXED Site Depth: 1.5
Lake Area: 3 Watershed Area: 34 WA/LA: 10.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.5 Turbidity: 0.3 Color: 10
Closed pH: 4.76 Equil. pH: 4.74 ANC: -11.6 DOC: 3.07
Closed DIC: 0.28 Equil. DIC: 0.13 Meas. Cond: 23.1 Cal. Cond: 22.4
Ca: 52.2 Mg: 16.9 Na: 36.1 K: 2.1 NH4: 0.9
SO4: 97.0 HCO3: 0.9 Cl: 35.6 NO3: 0.4 F: 2.7
Sum Cations: 124.4 Sum Anions: 136.7 Cations/Anions: 0.91 Tot. P: 11.0
Tot. Al: 524.2 Ext. Al: 148.4 Fe: 35.0 Mn: 43.0 SiO2: 0.34

ID: 1C3-077 Name: AYERS POND State: NH Date: 30OCT84
Sample Type: SPC/NRC/ Latitude: 43-15'00"N Longitude: 71-03'00"W
Elevation: 71 Surface Temp: 13.3 Stratified: MIXED Site Depth: 7.6
Lake Area: 89 Watershed Area: 785 WA/LA: 8.9 Hydro Type: RESERVOIR
Residence Time: 0.89 Secchi Depth: 5.0 Turbidity: 0.4 Color: 10
Closed pH: 6.53 Equil. pH: 6.80 ANC: 50.3 DOC: 2.70
Closed DIC: 0.83 Equil. DIC: 0.59 Meas. Cond: 34.3 Cal. Cond: 35.7
Ca: 68.0 Mg: 34.6 Na: 171.8 K: 11.6 NH4: 1.1
SO4: 82.9 HCO3: 39.6 Cl: 151.5 NO3: 0.1 F: 3.5
Sum Cations: 287.5 Sum Anions: 277.6 Cations/Anions: 1.04 Tot. P: 7.1
Tot. Al: 14.0 Ext. Al: 0.8 Fe: 20.0 Mn: 0.0 SiO2: 0.68

(continued)

TABLE 4-1 (continued)

ID: 1C3-078 Name: FOREST LAKE State: NH Date: 01NOV84
Sample Type: SPC/NRC/ Latitude: 42-47'45"N Longitude: 72-22'00"W
Elevation: 135 Surface Temp: 12.0 Stratified: MIXED Site Depth: 6.7
Lake Area: 33 Watershed Area: 1808 WA/LA: 55.5 Hydro Type: DRAINAGE
Residence Time: 0.11 Secchi Depth: 3.3 Turbidity: 0.9 Color: 25
Closed pH: 6.80 Equil. pH: 7.57 ANC: 255.6 DOC: 3.13
Closed DIC: 3.74 Equil. DIC: 2.76 Meas. Cond: 164.6 Cal. Cond: 172.9
Ca: 229.7 Mg: 116.8 Na: 1038.8 K: 35.1 NH4: 10.0
SO4: 82.0 HCO3: 215.5 Cl: 1063.9 NO3: 3.5 F: 2.0
Sum Cations: 1430.5 Sum Anions: 1366.9 Cations/Anions: 1.05 Tot. P: 11.4
Tot. Al: 26.4 Ext. Al: 2.4 Fe: 163.0 Mn: 116.0 SiO2: 6.10

ID: 1C3-079 Name: LOVELL LAKE State: NH Date: 29OCT84
Sample Type: SPC/NRC/ Latitude: 43-32'20"N Longitude: 71-00'00"W
Elevation: 174 Surface Temp: 13.3 Stratified: MIXED Site Depth: 8.0
Lake Area: 208 Watershed Area: 1248 WA/LA: 6.0 Hydro Type: DRAINAGE
Residence Time: 1.06 Secchi Depth: 4.3 Turbidity: 0.4 Color: 10
Closed pH: 7.27 Equil. pH: 7.51 ANC: 221.8 DOC: 2.60
Closed DIC: 2.59 Equil. DIC: 2.50 Meas. Cond: 62.3 Cal. Cond: 64.2
Ca: 223.4 Mg: 53.2 Na: 258.3 K: 12.9 NH4: 0.9
SO4: 80.6 HCO3: 192.4 Cl: 248.2 NO3: 0.1 F: 1.8
Sum Cations: 548.8 Sum Anions: 523.5 Cations/Anions: 1.05 Tot. P: 4.6
Tot. Al: 17.1 Ext. Al: 1.7 Fe: 11.0 Mn: 0.0 SiO2: 2.03

ID: 1C3-080 Name: SWAIN'S LAKE State: NH Date: 30OCT84
Sample Type: SPC/NRC/ Latitude: 43-11'30"N Longitude: 71-03'00"W
Elevation: 86 Surface Temp: 13.3 Stratified: MIXED Site Depth: 3.6
Lake Area: 171 Watershed Area: 793 WA/LA: 4.6 Hydro Type: RESERVOIR
Residence Time: 0.71 Secchi Depth: 3.6 Turbidity: 0.3 Color: 20
Closed pH: 6.28 Equil. pH: 6.72 ANC: 41.4 DOC: 3.89
Closed DIC: 0.95 Equil. DIC: 0.42 Meas. Cond: 26.0 Cal. Cond: 27.6
Ca: 55.5 Mg: 32.1 Na: 124.9 K: 9.7 NH4: 1.9
SO4: 70.6 HCO3: 33.1 Cl: 106.0 NO3: 0.7 F: 2.0
Sum Cations: 224.5 Sum Anions: 212.5 Cations/Anions: 1.06 Tot. P: 7.7
Tot. Al: 35.5 Ext. Al: 3.9 Fe: 73.0 Mn: 3.0 SiO2: 1.09

ID: 1C3-081 Name: COLE POND State: VT Date: 06NOV84
Sample Type: SPC/LTM/ Latitude: 43-08'55"N Longitude: 72-48'20"W
Elevation: 364 Surface Temp: 8.1 Stratified: MIXED Site Depth: 1.8
Lake Area: 15 Watershed Area: 153 WA/LA: 10.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.8 Turbidity: 0.2 Color: 15
Closed pH: 6.57 Equil. pH: 6.90 ANC: 54.2 DOC: 4.10
Closed DIC: 0.79 Equil. DIC: 0.56 Meas. Cond: 25.9 Cal. Cond: 26.3
Ca: 81.7 Mg: 43.7 Na: 62.2 K: 17.5 NH4: 1.2
SO4: 106.2 HCO3: 43.1 Cl: 53.1 NO3: 0.4 F: 1.5
Sum Cations: 206.6 Sum Anions: 204.4 Cations/Anions: 1.01 Tot. P: 6.1
Tot. Al: 47.4 Ext. Al: 6.7 Fe: 13.0 Mn: 5.0 SiO2: 0.22

ID: 1E1-131 Name: ANDERSON POND State: ME Date: 22OCT84
Sample Type: SPC/LTM/ Latitude: 44-38'52"N Longitude: 68-03'35"W
Elevation: 70 Surface Temp: 12.3 Stratified: MIXED Site Depth: 5.5
Lake Area: 5 Watershed Area: 49 WA/LA: 10.2 Hydro Type: DRAINAGE
Residence Time: 0.36 Secchi Depth: 5.5 Turbidity: 0.4 Color: 5
Closed pH: 6.13 Equil. pH: 6.38 ANC: 15.1 DOC: 1.98
Closed DIC: 0.39 Equil. DIC: 0.23 Meas. Cond: 16.8 Cal. Cond: 18.2
Ca: 35.2 Mg: 22.8 Na: 76.3 K: 5.8 NH4: 0.1
SO4: 57.3 HCO3: 17.3 Cl: 64.0 NO3: 0.9 F: 1.3
Sum Cations: 140.9 Sum Anions: 140.8 Cations/Anions: 1.00 Tot. P: 3.1
Tot. Al: 74.5 Ext. Al: 5.3 Fe: 0.0 Mn: 0.0 SiO2: 0.30

(continued)

TABLE 4-1 (continued)

ID: 1E1-132 Name: LITTLE LONG POND State: ME Date: 22OCT84
Sample Type: SPC/LTM/NRC/ Latitude: 44-38'15"N Longitude: 68-04'41"W
Elevation: 70 Surface Temp: 12.5 Stratified: STRONG Site Depth: 24.7
Lake Area: 25 Watershed Area: 238 WA/LA: 9.6 Hydro Type: DRAINAGE
Residence Time: 1.69 Secchi Depth: 10.8 Turbidity: 0.3 Color: 10
Closed pH: 5.90 Equil. pH: 6.08 ANC: 8.9 DOC: 1.39
Closed DIC: 0.32 Equil. DIC: 0.18 Meas. Cond: 21.3 Cal. Cond: 22.3
Ca: 40.2 Mg: 27.1 Na: 91.1 K: 7.2 NH4: 0.1
SO4: 78.1 HCO3: 8.5 Cl: 81.6 NO3: 0.1 F: 1.9
Sum Cations: 166.9 Sum Anions: 170.2 Cations/Anions: 0.98 Tot. P: 1.1
Tot. Al: 58.8 Ext. Al: 26.9 Fe: 0.0 Mn: 17.0 SiO2: 2.85

ID: 1E1-133 Name: TILDEN POND State: ME Date: 22OCT84
Sample Type: SPC/LTM/ Latitude: 44-38'05"N Longitude: 68-04'20"W
Elevation: 70 Surface Temp: 12.3 Stratified: MIXED Site Depth: 9.4
Lake Area: 15 Watershed Area: 80 WA/LA: 5.2 Hydro Type: DRAINAGE
Residence Time: 1.10 Secchi Depth: 5.7 Turbidity: 0.5 Color: 10
Closed pH: 6.64 Equil. pH: 6.91 ANC: 52.5 DOC: 2.60
Closed DIC: 0.64 Equil. DIC: 0.59 Meas. Cond: 22.2 Cal. Cond: 23.3
Ca: 59.2 Mg: 30.4 Na: 96.4 K: 7.4 NH4: 0.2
SO4: 57.2 HCO3: 50.9 Cl: 72.7 NO3: 0.0 F: 4.2
Sum Cations: 194.0 Sum Anions: 185.0 Cations/Anions: 1.05 Tot. P: 4.2
Tot. Al: 138.2 Ext. Al: 4.8 Fe: 1.0 Mn: 0.0 SiO2: 2.15

ID: 1E1-134 Name: MUD POND State: ME Date: 22OCT84
Sample Type: SPC/LTM/NRC/ Latitude: 44-37'59"N Longitude: 68-05'27"W
Elevation: 101 Surface Temp: 11.0 Stratified: STRONG Site Depth: 14.3
Lake Area: 2 Watershed Area: 85 WA/LA: 53.1 Hydro Type: DRAINAGE
Residence Time: 0.19 Secchi Depth: 7.5 Turbidity: 0.4 Color: 5
Closed pH: 4.82 Equil. pH: 4.76 ANC: -11.8 DOC: 2.82
Closed DIC: 0.32 Equil. DIC: 0.13 Meas. Cond: 28.1 Cal. Cond: 27.6
Ca: 26.9 Mg: 23.5 Na: 90.6 K: 4.8 NH4: 0.4
SO4: 96.1 HCO3: 0.9 Cl: 81.4 NO3: 0.0 F: 1.5
Sum Cations: 162.8 Sum Anions: 180.0 Cations/Anions: 0.90 Tot. P: 4.5
Tot. Al: 361.1 Ext. Al: 259.3 Fe: 11.0 Mn: 19.0 SiO2: 2.57

ID: 1E1-135 Name: SALMON POND State: ME Date: 22OCT84
Sample Type: SPC/LTM/ Latitude: 44-37'53"N Longitude: 68-05'10"W
Elevation: 88 Surface Temp: 11.6 Stratified: MIXED Site Depth: 10.4
Lake Area: 3 Watershed Area: 16 WA/LA: 6.1 Hydro Type: DRAINAGE
Residence Time: 1.06 Secchi Depth: 5.5 Turbidity: 0.5 Color: 20
Closed pH: 6.63 Equil. pH: 7.00 ANC: 60.3 DOC: 2.82
Closed DIC: 0.89 Equil. DIC: 0.67 Meas. Cond: 25.1 Cal. Cond: 23.4
Ca: 66.4 Mg: 31.4 Na: 90.0 K: 7.4 NH4: 0.3
SO4: 53.5 HCO3: 57.0 Cl: 72.6 NO3: 0.0 F: 4.1
Sum Cations: 195.9 Sum Anions: 187.3 Cations/Anions: 1.05 Tot. P: 6.1
Tot. Al: 152.2 Ext. Al: 4.8 Fe: 4.0 Mn: 17.0 SiO2: 1.37

ID: 1E1-136 Name: SPRING RIVER LAKE State: ME Date: 22OCT84
Sample Type: SPC/LTM/ Latitude: 44-37'10"N Longitude: 68-03'00"W
Elevation: 57 Surface Temp: 12.4 Stratified: MIXED Site Depth: 9.1
Lake Area: 271 Watershed Area: 4797 WA/LA: 17.7 Hydro Type: DRAINAGE
Residence Time: 0.35 Secchi Depth: 9.1 Turbidity: 0.3 Color: 10
Closed pH: 6.40 Equil. pH: 6.55 ANC: 26.1 DOC: 1.69
Closed DIC: 0.45 Equil. DIC: 0.33 Meas. Cond: 30.8 Cal. Cond: 28.2
Ca: 51.2 Mg: 32.9 Na: 127.3 K: 7.6 NH4: 0.1
SO4: 73.9 HCO3: 28.5 Cl: 117.3 NO3: 0.0 F: 3.5
Sum Cations: 219.5 Sum Anions: 223.2 Cations/Anions: 0.98 Tot. P: 3.3
Tot. Al: 231.1 Ext. Al: 6.1 Fe: 0.0 Mn: 13.0 SiO2: 2.41

(continued)

TABLE 4-1 (continued)

ID: 2A1-061 Name: HUSTLER LAKE State: MN Date: 30OCT84
Sample Type: SPC/NRC/ Latitude: 48-14'00"N Longitude: 92-09'30"W
Elevation: 401 Surface Temp: 7.1 Stratified: MIXED Site Depth: 18.9
Lake Area: 108 Watershed Area: 777 WA/LA: 7.2 Hydro Type: DRAINAGE
Residence Time: 5.80 Secchi Depth: 3.2 Turbidity: 0.9 Color: 32
Closed pH: 6.51 Equil. pH: 7.23 ANC: 85.0 DOC: 6.20
Closed DIC: 1.60 Equil. DIC: 1.03 Meas. Cond: 21.8 Cal. Cond: 21.9
Ca: 82.8 Mg: 66.6 Na: 39.6 K: 10.7 NH4: 0.6
SO4: 78.1 HCO3: 74.4 Cl: 9.9 NO3: 2.0 F: 2.2
Sum Cations: 200.6 Sum Anions: 166.6 Cations/Anions: 1.20 Tot. P: 6.0
Tot. Al: 32.0 Ext. Al: 6.0 Fe: 70.0 Mn: 20.0 SiO2: 2.13

ID: 2A2-063 Name: CRUISER LAKE State: MN Date: 21OCT84
Sample Type: SPC/LTM/ Latitude: 48-29'54"N Longitude: 92-48'19"W
Elevation: 380 Surface Temp: 10.2 Stratified: WEAK Site Depth: 18.0
Lake Area: 48 Watershed Area: 119 WA/LA: 2.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.6 Turbidity: 0.3 Color: 6
Closed pH: 6.85 Equil. pH: 7.41 ANC: 118.2 DOC: 5.70
Closed DIC: 1.56 Equil. DIC: 1.16 Meas. Cond: 19.1 Cal. Cond: 21.2
Ca: 100.3 Mg: 56.8 Na: 30.4 K: 15.3 NH4: 0.0
SO4: 56.4 HCO3: 103.4 Cl: 5.1 NO3: 0.0 F: 1.3
Sum Cations: 202.9 Sum Anions: 166.3 Cations/Anions: 1.22 Tot. P: 2.0
Tot. Al: 11.0 Ext. Al: 1.0 Fe: 0.0 Mn: 0.0 SiO2: 0.52

ID: 2A2-064 Name: WEIR LAKE State: MN Date: 21OCT84
Sample Type: SPC/LTM/ Latitude: 48-29'47"N Longitude: 92-44'33"W
Elevation: 353 Surface Temp: 9.2 Stratified: MIXED Site Depth: 4.0
Lake Area: 26 Watershed Area: 866 WA/LA: 33.3 Hydro Type: DRAINAGE
Residence Time: 0.38 Secchi Depth: 1.1 Turbidity: 1.6 Color: 82
Closed pH: 6.48 Equil. pH: 7.33 ANC: 147.0 DOC: 21.30
Closed DIC: 2.12 Equil. DIC: 1.18 Meas. Cond: 18.3 Cal. Cond: 21.0
Ca: 115.3 Mg: 82.3 Na: 37.4 K: 13.6 NH4: 7.3
SO4: 15.8 HCO3: 99.3 Cl: 5.6 NO3: 1.0 F: 1.7
Sum Cations: 256.0 Sum Anions: 123.5 Cations/Anions: 2.07 Tot. P: 13.0
Tot. Al: 43.0 Ext. Al: 11.0 Fe: 160.0 Mn: 10.0 SiO2: 0.78

ID: 2A2-065 Name: SHOEPACK LAKE State: MN Date: 21OCT84
Sample Type: SPC/LTM/ Latitude: 48-30'13"N Longitude: 92-53'00"W
Elevation: 364 Surface Temp: 9.4 Stratified: MIXED Site Depth: 5.8
Lake Area: 123 Watershed Area: 1919 WA/LA: 15.6 Hydro Type: DRAINAGE
Residence Time: 1.04 Secchi Depth: 0.9 Turbidity: 1.6 Color: 112
Closed pH: 6.50 Equil. pH: 7.09 ANC: 121.3 DOC: 20.30
Closed DIC: 1.27 Equil. DIC: 0.69 Meas. Cond: 20.8 Cal. Cond: 19.6
Ca: 99.3 Mg: 72.4 Na: 39.6 K: 21.5 NH4: 8.9
SO4: 29.8 HCO3: 52.0 Cl: 5.9 NO3: 4.3 F: 1.7
Sum Cations: 241.9 Sum Anions: 93.8 Cations/Anions: 2.58 Tot. P: 6.0
Tot. Al: 87.0 Ext. Al: 26.0 Fe: 370.0 Mn: 10.0 SiO2: 1.70

ID: 2A2-066 Name: LOITEN LAKE State: MN Date: 21OCT84
Sample Type: SPC/LTM/ Latitude: 48-31'33"N Longitude: 92-55'24"W
Elevation: 362 Surface Temp: 9.9 Stratified: MIXED Site Depth: 13.7
Lake Area: 39 Watershed Area: 290 WA/LA: 7.4 Hydro Type: DRAINAGE
Residence Time: 4.10 Secchi Depth: 3.8 Turbidity: 0.4 Color: 23
Closed pH: 6.69 Equil. pH: 7.37 ANC: 144.1 DOC: 10.90
Closed DIC: 1.82 Equil. DIC: 1.24 Meas. Cond: 26.1 Cal. Cond: 27.7
Ca: 124.3 Mg: 93.0 Na: 42.2 K: 18.7 NH4: 0.0
SO4: 79.5 HCO3: 107.5 Cl: 7.9 NO3: 0.5 F: 1.6
Sum Cations: 278.2 Sum Anions: 197.2 Cations/Anions: 1.41 Tot. P: 0.0
Tot. Al: 33.0 Ext. Al: 4.0 Fe: 70.0 Mn: 20.0 SiO2: 2.87

(continued)

TABLE 4-1 (continued)

ID: 2A2-067 Name: LOCATOR LAKE State: MN Date: 21OCT84
Sample Type: SPC/LTM/ Latitude: 48-32'26"N Longitude: 93-00'13"W
Elevation: 348 Surface Temp: 9.8 Stratified: MIXED Site Depth: 14.3
Lake Area: 54 Watershed Area: 1324 WA/LA: 24.3 Hydro Type: DRAINAGE
Residence Time: 1.80 Secchi Depth: 2.0 Turbidity: 0.9 Color: 52
Closed pH: 6.56 Equil. pH: 7.32 ANC: 140.6 DOC: 13.90
Closed DIC: 1.98 Equil. DIC: 1.11 Meas. Cond: 25.6 Cal. Cond: 25.9
Ca: 128.2 Mg: 88.8 Na: 44.4 K: 16.6 NH4: 1.7
SO4: 73.3 HCO3: 71.6 Cl: 10.7 NO3: 0.3 F: 1.5
Sum Cations: 280.0 Sum Anions: 157.5 Cations/Anions: 1.78 Tot. P: 10.0
Tot. Al: 59.0 Ext. Al: 7.0 Fe: 140.0 Mn: 20.0 SiO2: 1.53

ID: 2A3-086 Name: SPRING LAKE State: MN Date: 21OCT84
Sample Type: SPC/LTM/ Latitude: 48-22'22"N Longitude: 92-37'48"W
Elevation: 354 Surface Temp: 10.9 Stratified: MIXED Site Depth: 18.6
Lake Area: 90 Watershed Area: 399 WA/LA: 4.4 Hydro Type: DRAINAGE
Residence Time: 7.34 Secchi Depth: 4.2 Turbidity: 0.7 Color: 17
Closed pH: 7.11 Equil. pH: 7.73 ANC: 257.3 DOC: 10.40
Closed DIC: 3.13 Equil. DIC: 2.68 Meas. Cond: 33.9 Cal. Cond: 39.2
Ca: 193.1 Mg: 134.1 Na: 43.9 K: 20.5 NH4: 0.0
SO4: 64.1 HCO3: 246.6 Cl: 8.2 NO3: 0.0 F: 1.6
Sum Cations: 391.6 Sum Anions: 321.0 Cations/Anions: 1.22 Tot. P: 17.0
Tot. Al: 9.0 Ext. Al: 3.0 Fe: 20.0 Mn: 0.0 SiO2: 0.30

ID: 2A3-087 Name: LONG LAKE State: MN Date: 21OCT84
Sample Type: SPC/LTM/ Latitude: 48-18'25"N Longitude: 92-43'30"W
Elevation: 372 Surface Temp: 9.2 Stratified: MIXED Site Depth: 3.4
Lake Area: 193 Watershed Area: 3805 WA/LA: 19.7 Hydro Type: DRAINAGE
Residence Time: 0.50 Secchi Depth: 3.0 Turbidity: 0.7 Color: 33
Closed pH: 7.58 Equil. pH: 8.32 ANC: 990.6 DOC: 16.70
Closed DIC: 11.79 Equil. DIC: 10.32 Meas. Cond: 98.1 Cal. Cond: 111.8
Ca: 632.7 Mg: 422.8 Na: 40.9 K: 23.8 NH4: 1.2
SO4: 59.5 HCO3: 926.3 Cl: 8.7 NO3: 9.5 F: 2.4
Sum Cations: 1121.4 Sum Anions: 1012.1 Cations/Anions: 1.11 Tot. P: 27.0
Tot. Al: 13.0 Ext. Al: 2.0 Fe: 30.0 Mn: 0.0 SiO2: 8.74

ID: 2A3-088 Name: DUNNIGAN LAKE State: MN Date: 08OCT84
Sample Type: SPC/NRC/ Latitude: 47-42'30"N Longitude: 91-37'50"W
Elevation: 506 Surface Temp: 12.2 Stratified: MIXED Site Depth: 4.0
Lake Area: 33 Watershed Area: 73 WA/LA: 2.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.6 Turbidity: 0.7 Color: 17
Closed pH: 6.89 Equil. pH: 6.44 ANC: 48.0 DOC: 5.80
Closed DIC: 0.61 Equil. DIC: 0.49 Meas. Cond: 14.7 Cal. Cond: 10.0
Ca: 41.9 Mg: 55.9 Na: 17.8 K: 12.8 NH4: 0.6
SO4: 4.6 HCO3: 30.7 Cl: 9.3 NO3: 0.0 F: 1.7
Sum Cations: 129.4 Sum Anions: 46.3 Cations/Anions: 2.79 Tot. P: 9.0
Tot. Al: 23.0 Ext. Al: 2.0 Fe: 0.0 Mn: 0.0 SiO2: 0.08

ID: 2B2-101 Name: MURRAY LAKE State: MI Date: 24OCT84
Sample Type: SPC/LTM/ Latitude: 46-28'15"N Longitude: 85-42'05"W
Elevation: 272 Surface Temp: 8.2 Stratified: MIXED Site Depth: 3.0
Lake Area: 38 Watershed Area: 636 WA/LA: 16.8 Hydro Type: DRAINAGE
Residence Time: 0.19 Secchi Depth: 1.1 Turbidity: 1.0 Color: 18
Closed pH: 5.88 Equil. pH: 6.30 ANC: 45.3 DOC: 4.20
Closed DIC: 0.60 Equil. DIC: 0.28 Meas. Cond: 11.2 Cal. Cond: 11.2
Ca: 42.9 Mg: 25.5 Na: 12.6 K: 9.4 NH4: 0.6
SO4: 53.2 HCO3: 11.6 Cl: 6.9 NO3: 0.0 F: 0.7
Sum Cations: 92.6 Sum Anions: 72.4 Cations/Anions: 1.28 Tot. P: 12.5
Tot. Al: 24.5 Ext. Al: 5.0 Fe: 20.0 Mn: 0.0 SiO2: 0.02

(continued)

TABLE 4-1 (continued)

ID: 2B2-102 Name: BUCKEYE LAKE State: MI Date: 24OCT84
Sample Type: SPC/LTM/ Latitude: 46-27'57"N Longitude: 85-44'19"W
Elevation: 274 Surface Temp: 9.8 Stratified: MIXED Site Depth: 6.4
Lake Area: 48 Watershed Area: 328 WA/LA: 6.9 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 3.4 Turbidity: 0.5 Color: 5
Closed pH: 7.03 Equil. pH: 7.54 ANC: 169.0 DOC: 2.90
Closed DIC: 2.28 Equil. DIC: 2.02 Meas. Cond: 29.7 Cal. Cond: 30.4
Ca: 163.2 Mg: 77.3 Na: 22.6 K: 15.6 NH4: 0.6
SO4: 87.2 HCO3: 145.8 Cl: 9.0 NO3: 0.4 F: 1.0
Sum Cations: 279.4 Sum Anions: 243.6 Cations/Anions: 1.15 Tot. P: 12.0
Tot. Al: 17.0 Ext. Al: 1.0 Fe: 10.0 Mn: 0.0 SiO2: 0.11

ID: 2B2-103 Name: STUART LAKE State: MI Date: 23OCT84
Sample Type: SPC/LTM/ Latitude: 46-35'24"N Longitude: 85-30'35"W
Elevation: 245 Surface Temp: 9.6 Stratified: MIXED Site Depth: 5.2
Lake Area: 30 Watershed Area: 150 WA/LA: 5.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.1 Turbidity: 0.4 Color: 10
Closed pH: 4.90 Equil. pH: 4.91 ANC: -18.5 DOC: 2.20
Closed DIC: 0.31 Equil. DIC: 0.17 Meas. Cond: 15.9 Cal. Cond: 16.2
Ca: 28.4 Mg: 23.9 Na: 7.8 K: 11.5 NH4: 4.4
SO4: 72.5 HCO3: 0.9 Cl: 6.5 NO3: 0.0 F: 0.7
Sum Cations: 91.2 Sum Anions: 80.6 Cations/Anions: 1.13 Tot. P: 9.0
Tot. Al: 34.0 Ext. Al: 15.0 Fe: 20.0 Mn: 40.0 SiO2: 0.00

ID: 2B2-104 Name: CAMP EIGHT LAKE State: MI Date: 24OCT84
Sample Type: SPC/LTM/ Latitude: 46-35'57"N Longitude: 85-40'12"W
Elevation: 230 Surface Temp: 10.8 Stratified: WEAK Site Depth: 20.4
Lake Area: 25 Watershed Area: 49 WA/LA: 1.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 5.1 Turbidity: 0.3 Color: 5
Closed pH: 6.89 Equil. pH: 7.29 ANC: 95.0 DOC: 2.80
Closed DIC: 1.40 Equil. DIC: 1.15 Meas. Cond: 19.3 Cal. Cond: 20.1
Ca: 99.8 Mg: 45.2 Na: 20.9 K: 10.0 NH4: 0.6
SO4: 64.8 HCO3: 91.6 Cl: 7.6 NO3: 0.6 F: 0.9
Sum Cations: 176.6 Sum Anions: 165.5 Cations/Anions: 1.07 Tot. P: 0.0
Tot. Al: 7.0 Ext. Al: 1.0 Fe: 20.0 Mn: 0.0 SiO2: 0.72

ID: 2B2-105 Name: CUSINO LAKE State: MI Date: 20OCT84
Sample Type: SPC/LTM/ Latitude: 46-27'16"N Longitude: 86-15'30"W
Elevation: 267 Surface Temp: 10.5 Stratified: MIXED Site Depth: 5.5
Lake Area: 55 Watershed Area: 442 WA/LA: 8.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.3 Turbidity: 0.5 Color: 10
Closed pH: 5.37 Equil. pH: 5.42 ANC: 3.3 DOC: 5.20
Closed DIC: 0.27 Equil. DIC: 0.36 Meas. Cond: 14.7 Cal. Cond: 15.0
Ca: 63.9 Mg: 23.9 Na: 10.4 K: 8.2 NH4: 0.5
SO4: 82.4 HCO3: 3.7 Cl: 6.5 NO3: 0.0 F: 0.7
Sum Cations: 111.0 Sum Anions: 93.4 Cations/Anions: 1.19 Tot. P: 15.0
Tot. Al: 17.0 Ext. Al: 17.0 Fe: 10.0 Mn: 20.0 SiO2: 0.18

ID: 2B2-106 Name: NEVINS LAKE State: MI Date: 20OCT84
Sample Type: SPC/LTM/ Latitude: 46-31'00"N Longitude: 86-14'35"W
Elevation: 278 Surface Temp: 10.5 Stratified: MIXED Site Depth: 3.0
Lake Area: 109 Watershed Area: 313 WA/LA: 2.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.0 Turbidity: 0.8 Color: 15
Closed pH: 7.00 Equil. pH: 7.45 ANC: 135.1 DOC: 6.40
Closed DIC: 1.66 Equil. DIC: 1.67 Meas. Cond: 26.0 Cal. Cond: 31.3
Ca: 189.6 Mg: 60.0 Na: 18.7 K: 7.9 NH4: 0.5
SO4: 102.0 HCO3: 141.9 Cl: 9.0 NO3: 0.0 F: 0.9
Sum Cations: 276.9 Sum Anions: 254.1 Cations/Anions: 1.09 Tot. P: 11.0
Tot. Al: 19.0 Ext. Al: 3.0 Fe: 0.0 Mn: 0.0 SiO2: 0.23

(continued)

TABLE 4-1 (continued)

ID: 2B3-081 Name: MONOCLE LAKE State: MI Date: 22OCT84
Sample Type: SPC/LTM/ Latitude: 46-28'30"N Longitude: 84-38'45"W
Elevation: 195 Surface Temp: 10.8 Stratified: MIXED Site Depth: 15.8
Lake Area: 69 Watershed Area: 800 WA/LA: 11.6 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 5.2 Turbidity: 0.4 Color: 5
Closed pH: 7.31 Equil. pH: 7.89 ANC: 237.0 DOC: 3.30
Closed DIC: 2.83 Equil. DIC: 2.98 Meas. Cond: 39.5 Cal. Cond: 40.7
Ca: 216.6 Mg: 95.4 Na: 41.8 K: 13.3 NH4: 3.3
SO4: 111.2 HCO3: 209.4 Cl: 13.3 NO3: 1.1 F: 1.6
Sum Cations: 370.5 Sum Anions: 337.1 Cations/Anions: 1.10 Tot. P: 17.0
Tot. Al: 33.0 Ext. Al: 4.0 Fe: 20.0 Mn: 0.0 SiO2: 0.33

ID: 2B3-082 Name: WARNERS LAKE State: MI Date: 23OCT84
Sample Type: SPC/LTM/NRC/ Latitude: 46-42'00"N Longitude: 85-02'25"W
Elevation: 190 Surface Temp: 10.0 Stratified: MIXED Site Depth: 7.6
Lake Area: 13 Watershed Area: 186 WA/LA: 14.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.7 Turbidity: 0.9 Color: 35
Closed pH: 5.85 Equil. pH: 6.36 ANC: 15.8 DOC: 5.80
Closed DIC: 0.68 Equil. DIC: 0.33 Meas. Cond: 19.7 Cal. Cond: 19.3
Ca: 72.4 Mg: 43.6 Na: 25.2 K: 11.8 NH4: 7.2
SO4: 100.8 HCO3: 11.7 Cl: 11.6 NO3: 0.4 F: 1.1
Sum Cations: 161.6 Sum Anions: 125.5 Cations/Anions: 1.29 Tot. P: 55.0
Tot. Al: 75.0 Ext. Al: 9.0 Fe: 180.0 Mn: 10.0 SiO2: 0.94

ID: 2B3-083 Name: KELLY LAKE State: MI Date: 23OCT84
Sample Type: SPC/LTM/ Latitude: 46-26'24"N Longitude: 85-38'45"W
Elevation: 255 Surface Temp: 11.1 Stratified: MIXED Site Depth: 9.4
Lake Area: 12 Watershed Area: 211 WA/LA: 17.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 5.5 Turbidity: 0.6 Color: 10
Closed pH: 5.23 Equil. pH: 5.24 ANC: 3.0 DOC: 1.70
Closed DIC: 0.51 Equil. DIC: 0.17 Meas. Cond: 14.5 Cal. Cond: 16.2
Ca: 44.9 Mg: 19.7 Na: 11.3 K: 10.6 NH4: 2.2
SO4: 85.2 HCO3: 2.8 Cl: 27.1 NO3: 0.0 F: 0.6
Sum Cations: 94.4 Sum Anions: 115.6 Cations/Anions: 0.82 Tot. P: 0.0
Tot. Al: 25.0 Ext. Al: 4.0 Fe: 0.0 Mn: 20.0 SiO2: 0.00

ID: 2B3-084 Name: CHRIS BROWN LAKE State: MI Date: 23OCT84
Sample Type: SPC/LTM/ Latitude: 46-37'34"N Longitude: 85-30'27"W
Elevation: 215 Surface Temp: 7.8 Stratified: MIXED Site Depth: 3.7
Lake Area: 24 Watershed Area: 215 WA/LA: 9.1 Hydro Type: DRAINAGE
Residence Time: 0.40 Secchi Depth: 3.7 Turbidity: 0.6 Color: 20
Closed pH: 7.25 Equil. pH: 7.52 ANC: 218.0 DOC: 6.70
Closed DIC: 2.57 Equil. DIC: 2.31 Meas. Cond: 31.9 Cal. Cond: 31.7
Ca: 177.6 Mg: 84.7 Na: 29.1 K: 14.6 NH4: 4.4
SO4: 66.6 HCO3: 172.2 Cl: 8.5 NO3: 0.7 F: 1.2
Sum Cations: 310.7 Sum Anions: 249.4 Cations/Anions: 1.25 Tot. P: 1.0
Tot. Al: 16.0 Ext. Al: 0.0 Fe: 20.0 Mn: 0.0 SiO2: 0.25

ID: 2C1-061 Name: DUCK LAKE State: WI Date: 08NOV84
Sample Type: SPC/LTM/ Latitude: 45-22'50"N Longitude: 89-14'45"W
Elevation: 523 Surface Temp: 2.9 Stratified: MIXED Site Depth: 3.0
Lake Area: 49 Watershed Area: 241 WA/LA: 4.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.9 Turbidity: 0.4 Color: 50
Closed pH: 5.42 Equil. pH: 5.52 ANC: 15.2 DOC: 6.90
Closed DIC: 0.36 Equil. DIC: 0.20 Meas. Cond: 21.4 Cal. Cond: 20.4
Ca: 69.4 Mg: 51.8 Na: 30.0 K: 11.8 NH4: 0.6
SO4: 92.0 HCO3: 3.9 Cl: 24.5 NO3: 4.3 F: 1.4
Sum Cations: 167.3 Sum Anions: 126.2 Cations/Anions: 1.33 Tot. P: 11.0
Tot. Al: 81.0 Ext. Al: 39.0 Fe: 120.0 Mn: 20.0 SiO2: 0.38

(continued)

TABLE 4-1 (continued)

ID: 2C1-062 Name: SUMMIT LAKE State: WI Date: 05NOV84
Sample Type: SPC/LTM/ Latitude: 45-22'30"N Longitude: 89-12'25"W
Elevation: 515 Surface Temp: 2.9 Stratified: MIXED Site Depth: 7.0
Lake Area: 112 Watershed Area: 666 WA/LA: 5.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.1 Turbidity: 1.2 Color: 120
Closed pH: 4.86 Equil. pH: 4.86 ANC: -3.8 DOC: 9.70
Closed DIC: 0.38 Equil. DIC: 0.00 Meas. Cond: 22.1 Cal. Cond: 22.3
Ca: 60.4 Mg: 39.1 Na: 23.9 K: 12.9 NH4: 2.9
SO4: 94.7 HCO3: 1.1 Cl: 22.8 NO3: 1.3 F: 1.1
Sum Cations: 152.7 Sum Anions: 121.1 Cations/Anions: 1.26 Tot. P: 10.5
Tot. Al: 199.5 Ext. Al: 80.5 Fe: 430.0 Mn: 70.0 SiO2: 0.72

ID: 2C1-063 Name: SUNSET LAKE State: WI Date: 30OCT84
Sample Type: SPC/LTM/ Latitude: 45-55'35"N Longitude: 89-20'15"W
Elevation: 497 Surface Temp: 8.2 Stratified: MIXED Site Depth: 9.8
Lake Area: 83 Watershed Area: 303 WA/LA: 3.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.9 Turbidity: 0.4 Color: 5
Closed pH: 6.38 Equil. pH: 6.68 ANC: 22.5 DOC: 2.15
Closed DIC: 0.48 Equil. DIC: 0.46 Meas. Cond: 15.1 Cal. Cond: 15.5
Ca: 60.9 Mg: 30.4 Na: 17.6 K: 7.9 NH4: 0.6
SO4: 84.1 HCO3: 21.2 Cl: 11.1 NO3: 0.1 F: 1.0
Sum Cations: 118.0 Sum Anions: 117.6 Cations/Anions: 1.00 Tot. P: 13.0
Tot. Al: 11.5 Ext. Al: 0.5 Fe: 0.0 Mn: 0.0 SiO2: 0.00

ID: 2C1-064 Name: VANDERCOOK LAKE State: WI Date: 30OCT84
Sample Type: SPC/LTM/ Latitude: 45-58'55"N Longitude: 89-41'13"W
Elevation: 497 Surface Temp: 8.4 Stratified: MIXED Site Depth: 6.7
Lake Area: 39 Watershed Area: 161 WA/LA: 4.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.6 Turbidity: 0.8 Color: 10
Closed pH: 6.25 Equil. pH: 6.60 ANC: 12.0 DOC: 3.60
Closed DIC: 0.50 Equil. DIC: 0.35 Meas. Cond: 14.4 Cal. Cond: 14.6
Ca: 55.9 Mg: 31.3 Na: 15.7 K: 9.2 NH4: 0.6
SO4: 81.8 HCO3: 16.9 Cl: 6.5 NO3: 0.0 F: 0.8
Sum Cations: 113.3 Sum Anions: 106.0 Cations/Anions: 1.07 Tot. P: 13.0
Tot. Al: 24.0 Ext. Al: 0.0 Fe: 0.0 Mn: 0.0 SiO2: 0.02

ID: 2C1-065 Name: GREATER BASS LAKE State: WI Date: 05NOV84
Sample Type: SPC/LTM/ Latitude: 45-21'25"N Longitude: 89-11'30"W
Elevation: 512 Surface Temp: 3.7 Stratified: MIXED Site Depth: 7.9
Lake Area: 100 Watershed Area: 466 WA/LA: 4.7 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 3.6 Turbidity: 0.3 Color: 25
Closed pH: 5.60 Equil. pH: 5.69 ANC: 10.2 DOC: 4.50
Closed DIC: 0.25 Equil. DIC: 0.10 Meas. Cond: 17.3 Cal. Cond: 19.3
Ca: 64.9 Mg: 39.5 Na: 24.8 K: 14.6 NH4: 1.4
SO4: 95.1 HCO3: 8.4 Cl: 24.0 NO3: 1.5 F: 1.1
Sum Cations: 147.9 Sum Anions: 130.1 Cations/Anions: 1.14 Tot. P: 5.0
Tot. Al: 56.0 Ext. Al: 18.0 Fe: 90.0 Mn: 10.0 SiO2: 0.07

ID: 2C1-066 Name: CAMP TEN LAKE State: WI Date: 30OCT84
Sample Type: SPC/LTM/ Latitude: 45-59'50"N Longitude: 89-23'05"W
Elevation: 503 Surface Temp: 9.1 Stratified: MIXED Site Depth: 9.1
Lake Area: 13 Watershed Area: 83 WA/LA: 6.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.1 Turbidity: 0.5 Color: 15
Closed pH: 6.67 Equil. pH: 7.12 ANC: 68.0 DOC: 2.00
Closed DIC: 1.11 Equil. DIC: 0.85 Meas. Cond: 20.0 Cal. Cond: 20.2
Ca: 78.3 Mg: 59.2 Na: 22.2 K: 8.4 NH4: 1.7
SO4: 87.4 HCO3: 61.0 Cl: 7.6 NO3: 1.4 F: 0.9
Sum Cations: 170.1 Sum Anions: 158.4 Cations/Anions: 1.07 Tot. P: 13.0
Tot. Al: 22.0 Ext. Al: 1.0 Fe: 0.0 Mn: 0.0 SiO2: 0.00

(continued)

TABLE 4-1 (continued)

ID: 2C1-067 Name: ELNA LAKE State: WI Date: 27OCT84
Sample Type: SPC/LTM/ Latitude: 45-41'36"N Longitude: 89-34'05"W
Elevation: 486 Surface Temp: 8.1 Stratified: MIXED Site Depth: 3.7
Lake Area: 8 Watershed Area: 28 WA/LA: 3.4 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.8 Turbidity: 0.4 Color: 15
Closed pH: 6.36 Equil. pH: 6.83 ANC: 56.0 DOC: 4.00
Closed DIC: 1.17 Equil. DIC: 0.68 Meas. Cond: 13.6 Cal. Cond: 13.4
Ca: 53.9 Mg: 41.1 Na: 19.1 K: 6.9 NH4: 0.6
SO4: 43.1 HCO3: 51.7 Cl: 7.4 NO3: 0.2 F: 1.3
Sum Cations: 122.0 Sum Anions: 103.7 Cations/Anions: 1.18 Tot. P: 17.0
Tot. Al: 10.0 Ext. Al: 2.0 Fe: 50.0 Mn: 10.0 SiO2: 0.05

ID: 2C1-068 Name: SAND LAKE State: WI Date: 27OCT84
Sample Type: SPC/LTM/ Latitude: 45-43'28"N Longitude: 89-39'05"W
Elevation: 484 Surface Temp: 9.1 Stratified: MIXED Site Depth: 4.6
Lake Area: 15 Watershed Area: 39 WA/LA: 2.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 5.5 Turbidity: 0.1 Color: 5
Closed pH: 5.17 Equil. pH: 5.13 ANC: 9.0 DOC: 1.10
Closed DIC: 0.23 Equil. DIC: 0.17 Meas. Cond: 23.6 Cal. Cond: 24.5
Ca: 81.3 Mg: 37.8 Na: 24.4 K: 10.5 NH4: 0.0
SO4: 148.4 HCO3: 1.4 Cl: 12.8 NO3: 0.0 F: 0.9
Sum Cations: 161.8 Sum Anions: 163.6 Cations/Anions: 0.99 Tot. P: 5.0
Tot. Al: 35.0 Ext. Al: 1.0 Fe: 0.0 Mn: 20.0 SiO2: 0.00

ID: 2C1-069 Name: NICHOLS LAKE State: WI Date: 09OCT84
Sample Type: SPC/LTM/ Latitude: 46-06'14"N Longitude: 89-41'15"W
Elevation: 495 Surface Temp: 12.5 Stratified: MIXED Site Depth: 4.2
Lake Area: 15 Watershed Area: 91 WA/LA: 6.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.0 Turbidity: 1.1 Color: 20
Closed pH: 5.70 Equil. pH: 6.00 ANC: 14.0 DOC: 5.00
Closed DIC: 0.52 Equil. DIC: 0.20 Meas. Cond: 13.8 Cal. Cond: 13.5
Ca: 52.9 Mg: 29.6 Na: 11.7 K: 9.7 NH4: 0.6
SO4: 72.5 HCO3: 6.7 Cl: 6.8 NO3: 1.8 F: 0.7
Sum Cations: 106.4 Sum Anions: 88.5 Cations/Anions: 1.20 Tot. P: 95.0
Tot. Al: 20.0 Ext. Al: 11.0 Fe: 20.0 Mn: 10.0 SiO2: 0.20

ID: 2C1-070 Name: CRYSTAL LAKE State: WI Date: 30OCT84
Sample Type: SPC/NRC/ Latitude: 46-00'05"N Longitude: 89-36'45"W
Elevation: 502 Surface Temp: 9.7 Stratified: MIXED Site Depth: 19.2
Lake Area: 37 Watershed Area: 88 WA/LA: 2.3 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.4 Turbidity: 0.5 Color: 10
Closed pH: 6.04 Equil. pH: 6.49 ANC: 12.5 DOC: 1.30
Closed DIC: 0.69 Equil. DIC: 0.38 Meas. Cond: 13.4 Cal. Cond: 14.9
Ca: 52.4 Mg: 21.4 Na: 14.4 K: 8.7 NH4: 0.6
SO4: 90.2 HCO3: 18.4 Cl: 11.6 NO3: 0.0 F: 0.5
Sum Cations: 98.2 Sum Anions: 120.7 Cations/Anions: 0.81 Tot. P: 7.0
Tot. Al: 10.0 Ext. Al: 0.0 Fe: 10.0 Mn: 70.0 SiO2: 0.00

ID: 2C1-071 Name: LITTLE ROCK LAKE State: WI Date: 30OCT84
Sample Type: SPC/LTM/NRC/ Latitude: 45-59'55"N Longitude: 89-42'15"W
Elevation: 495 Surface Temp: 8.1 Stratified: MIXED Site Depth: 9.1
Lake Area: 16 Watershed Area: 88 WA/LA: 5.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.1 Turbidity: 0.4 Color: 10
Closed pH: 6.33 Equil. pH: 6.78 ANC: 24.0 DOC: 2.70
Closed DIC: 0.60 Equil. DIC: 0.52 Meas. Cond: 10.9 Cal. Cond: 10.9
Ca: 40.9 Mg: 23.9 Na: 6.5 K: 14.8 NH4: 0.0
SO4: 49.8 HCO3: 23.9 Cl: 6.5 NO3: 0.0 F: 0.6
Sum Cations: 86.7 Sum Anions: 80.7 Cations/Anions: 1.07 Tot. P: 16.0
Tot. Al: 11.0 Ext. Al: 1.0 Fe: 20.0 Mn: 0.0 SiO2: 0.02

(continued)

TABLE 4-1 (continued)

ID: 2C1-072 Name: MIDGE(LARRAINE)LAKE State: WI Date: 30OCT84
Sample Type: SPC/NRC/ Latitude: 46-00'05"N Longitude: 89-41'40"W
Elevation: 495 Surface Temp: 7.9 Stratified: MIXED Site Depth: 10.4
Lake Area: 3 Watershed Area: 13 WA/LA: 4.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.6 Turbidity: 0.7 Color: 30
Closed pH: 6.34 Equil. pH: 7.03 ANC: 71.0 DOC: 3.90
Closed DIC: 1.79 Equil. DIC: 0.92 Meas. Cond: 46.7 Cal. Cond: 48.2
Ca: 91.8 Mg: 64.2 Na: 204.9 K: 18.9 NH4: 3.3
SO4: 53.1 HCO3: 82.8 Cl: 254.2 NO3: 0.0 F: 1.2
Sum Cations: 383.4 Sum Anions: 391.4 Cations/Anions: 0.98 Tot. P: 13.0
Tot. Al: 24.0 Ext. Al: 1.0 Fe: 90.0 Mn: 50.0 SiO2: 0.37

ID: 2C1-073 Name: LONG LAKE State: WI Date: 07NOV84
Sample Type: SPC/LTM/ Latitude: 45-43'00"N Longitude: 89-36'15"W
Elevation: 483 Surface Temp: 5.4 Stratified: MIXED Site Depth: 16.2
Lake Area: 46 Watershed Area: 181 WA/LA: 4.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 5.1 Turbidity: 0.3 Color: 10
Closed pH: 6.13 Equil. pH: 6.83 ANC: 24.9 DOC: 2.20
Closed DIC: 0.68 Equil. DIC: 0.36 Meas. Cond: 15.7 Cal. Cond: 16.1
Ca: 59.4 Mg: 30.4 Na: 14.8 K: 14.8 NH4: 0.0
SO4: 79.7 HCO3: 21.1 Cl: 19.2 NO3: 0.6 F: 1.0
Sum Cations: 120.2 Sum Anions: 121.6 Cations/Anions: 0.99 Tot. P: 8.0
Tot. Al: 16.0 Ext. Al: 1.0 Fe: 30.0 Mn: 20.0 SiO2: 0.00

ID: 2C1-074 Name: CLEAR LAKE State: WI Date: 05NOV84
Sample Type: SPC/LTM/ Latitude: 45-22'00"N Longitude: 89-13'50"W
Elevation: 519 Surface Temp: 4.0 Stratified: MIXED Site Depth: 6.4
Lake Area: 35 Watershed Area: 124 WA/LA: 3.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.2 Turbidity: 0.4 Color: 20
Closed pH: 5.03 Equil. pH: 5.01 ANC: -6.5 DOC: 3.20
Closed DIC: 0.26 Equil. DIC: 0.15 Meas. Cond: 15.3 Cal. Cond: 17.0
Ca: 40.9 Mg: 30.4 Na: 14.8 K: 11.0 NH4: 0.7
SO4: 87.9 HCO3: 1.3 Cl: 13.0 NO3: 0.0 F: 0.9
Sum Cations: 107.1 Sum Anions: 103.1 Cations/Anions: 1.04 Tot. P: 7.0
Tot. Al: 46.0 Ext. Al: 26.0 Fe: 20.0 Mn: 30.0 SiO2: 0.18

ID: 2C1-075 Name: CAMP TWELVE LAKE State: WI Date: 04NOV84
Sample Type: SPC/LTM/ Latitude: 45-59'03"N Longitude: 89-22'14"W
Elevation: 501 Surface Temp: 3.7 Stratified: MIXED Site Depth: 4.6
Lake Area: 22 Watershed Area: 168 WA/LA: 7.8 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 4.4 Turbidity: 0.3 Color: 15
Closed pH: 5.33 Equil. pH: 5.37 ANC: 4.0 DOC: 2.80
Closed DIC: 0.32 Equil. DIC: 0.12 Meas. Cond: 12.2 Cal. Cond: 12.2
Ca: 35.9 Mg: 22.2 Na: 6.5 K: 8.7 NH4: 1.1
SO4: 64.3 HCO3: 2.0 Cl: 5.6 NO3: 1.9 F: 1.9
Sum Cations: 80.1 Sum Anions: 75.7 Cations/Anions: 1.06 Tot. P: 5.0
Tot. Al: 18.0 Ext. Al: 2.0 Fe: 0.0 Mn: 20.0 SiO2: 0.00

ID: 2C2-061 Name: FINLEY LAKE State: WI Date: 31OCT84
Sample Type: SPC/LTM/ Latitude: 45-54'40"N Longitude: 89-25'00"W
Elevation: 493 Surface Temp: 7.9 Stratified: MIXED Site Depth: 6.7
Lake Area: 44 Watershed Area: 117 WA/LA: 2.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.9 Turbidity: 0.7 Color: 10
Closed pH: 6.88 Equil. pH: 6.96 ANC: 80.0 DOC: 4.00
Closed DIC: 1.26 Equil. DIC: 1.09 Meas. Cond: 20.1 Cal. Cond: 21.0
Ca: 88.3 Mg: 55.1 Na: 26.1 K: 9.7 NH4: 4.4
SO4: 75.2 HCO3: 79.0 Cl: 9.6 NO3: 1.7 F: 1.3
Sum Cations: 183.9 Sum Anions: 166.8 Cations/Anions: 1.10 Tot. P: 14.0
Tot. Al: 20.0 Ext. Al: 0.0 Fe: 0.0 Mn: 0.0 SiO2: 0.02

(continued)

TABLE 4-1 (continued)

ID: 2C2-062 Name: LUNA LAKE State: WI Date: 10OCT84
Sample Type: SPC/LTM/ Latitude: 45-54'19"N Longitude: 88-57'35"W
Elevation: 518 Surface Temp: 12.9 Stratified: MIXED Site Depth: 8.8
Lake Area: 26 Watershed Area: 80 WA/LA: 3.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 4.8 Turbidity: 0.3 Color: 5
Closed pH: 5.92 Equil. pH: 6.01 ANC: 10.0 DOC: 2.10
Closed DIC: 0.31 Equil. DIC: 0.15 Meas. Cond: 16.6 Cal. Cond: 18.7
Ca: 58.4 Mg: 37.0 Na: 14.4 K: 10.2 NH4: 0.6
SO4: 123.0 HCO3: 6.6 Cl: 12.7 NO3: 0.0 F: 0.6
Sum Cations: 122.3 Sum Anions: 143.0 Cations/Anions: 0.86 Tot. P: 10.0
Tot. Al: 0.0 Ext. Al: 4.0 Fe: 0.0 Mn: 0.0 SiO2: 0.12

ID: 2C2-063 Name: SUGAR CAMP LAKE State: WI Date: 31OCT84
Sample Type: SPC/LTM/ Latitude: 45-48'00"N Longitude: 89-18'15"W
Elevation: 506 Surface Temp: 7.6 Stratified: MIXED Site Depth: 10.7
Lake Area: 210 Watershed Area: 407 WA/LA: 1.9 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.0 Turbidity: 0.8 Color: 10
Closed pH: 5.50 Equil. pH: 5.58 ANC: 4.0 DOC: 1.10
Closed DIC: 0.23 Equil. DIC: 0.21 Meas. Cond: 21.1 Cal. Cond: 21.6
Ca: 71.4 Mg: 30.4 Na: 27.0 K: 13.8 NH4: 3.3
SO4: 118.3 HCO3: 1.9 Cl: 27.4 NO3: 0.0 F: 0.7
Sum Cations: 150.0 Sum Anions: 148.2 Cations/Anions: 1.01 Tot. P: 15.0
Tot. Al: 37.0 Ext. Al: 10.0 Fe: 0.0 Mn: 30.0 SiO2: 0.03

ID: 2C2-064 Name: ALDRIDGE LAKE State: WI Date: 31OCT84
Sample Type: SPC/NRC/ Latitude: 45-51'55"N Longitude: 89-18'05"W
Elevation: 501 Surface Temp: 5.6 Stratified: MIXED Site Depth: 3.4
Lake Area: 57 Watershed Area: 495 WA/LA: 8.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.4 Turbidity: 2.5 Color: 80
Closed pH: 6.88 Equil. pH: 7.31 ANC: 138.0 DOC: 9.30
Closed DIC: 1.60 Equil. DIC: 1.45 Meas. Cond: 49.5 Cal. Cond: 50.8
Ca: 177.6 Mg: 136.6 Na: 128.3 K: 12.5 NH4: 2.8
SO4: 54.1 HCO3: 101.1 Cl: 214.4 NO3: 1.2 F: 2.5
Sum Cations: 458.0 Sum Anions: 373.4 Cations/Anions: 1.23 Tot. P: 21.0
Tot. Al: 24.0 Ext. Al: 2.0 Fe: 460.0 Mn: 0.0 SiO2: 10.70

ID: 2C2-065 Name: BROWN LAKE State: WI Date: 27OCT84
Sample Type: SPC/NRC/ Latitude: 45-46'50"N Longitude: 89-29'30"W
Elevation: 489 Surface Temp: 8.5 Stratified: MIXED Site Depth: 5.5
Lake Area: 37 Watershed Area: 140 WA/LA: 3.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.2 Turbidity: 0.7 Color: 10
Closed pH: 5.86 Equil. pH: 6.16 ANC: 10.8 DOC: 3.35
Closed DIC: 0.51 Equil. DIC: 0.22 Meas. Cond: 14.2 Cal. Cond: 14.0
Ca: 49.2 Mg: 28.0 Na: 12.2 K: 11.1 NH4: 5.8
SO4: 76.4 HCO3: 11.6 Cl: 6.6 NO3: 1.6 F: 0.9
Sum Cations: 107.6 Sum Anions: 97.1 Cations/Anions: 1.11 Tot. P: 17.0
Tot. Al: 36.0 Ext. Al: 3.5 Fe: 10.0 Mn: 10.0 SiO2: 0.04

ID: 2C2-066 Name: FOUND LAKE State: WI Date: 31OCT84
Sample Type: SPC/NRC/ Latitude: 45-57'05"N Longitude: 89-27'10"W
Elevation: 493 Surface Temp: 6.0 Stratified: MIXED Site Depth: 3.7
Lake Area: 137 Watershed Area: 738 WA/LA: 5.4 Hydro Type: DRAINAGE
Residence Time: 0.86 Secchi Depth: 1.9 Turbidity: 2.8 Color: 25
Closed pH: 7.20 Equil. pH: 7.53 ANC: 333.0 DOC: 4.30
Closed DIC: 4.42 Equil. DIC: 3.88 Meas. Cond: 43.4 Cal. Cond: 45.0
Ca: 238.5 Mg: 147.2 Na: 48.7 K: 11.5 NH4: 4.4
SO4: 46.8 HCO3: 313.7 Cl: 14.1 NO3: 6.3 F: 2.1
Sum Cations: 450.5 Sum Anions: 383.6 Cations/Anions: 1.17 Tot. P: 18.0
Tot. Al: 3.0 Ext. Al: 1.0 Fe: 150.0 Mn: 10.0 SiO2: 12.20

(continued)

TABLE 4-1 (continued)

ID: 2C2-067 Name: MOON LAKE State: WI Date: 31OCT84
Sample Type: SPC/NRC/ Latitude: 45-55'05"N Longitude: 89-26'05"W
Elevation: 493 Surface Temp: 7.9 Stratified: MIXED Site Depth: 10.1
Lake Area: 53 Watershed Area: 202 WA/LA: 3.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.4 Turbidity: 0.5 Color: 20
Closed pH: 6.78 Equil. pH: 7.02 ANC: 83.0 DOC: 3.60
Closed DIC: 1.33 Equil. DIC: 1.12 Meas. Cond: 19.5 Cal. Cond: 20.2
Ca: 88.3 Mg: 58.4 Na: 22.2 K: 8.9 NH4: 2.8
SO4: 67.9 HCO3: 80.0 Cl: 8.2 NO3: 1.7 F: 1.3
Sum Cations: 180.8 Sum Anions: 159.1 Cations/Anions: 1.14 Tot. P: 13.0
Tot. Al: 9.0 Ext. Al: 0.0 Fe: 20.0 Mn: 0.0 SiO2: 0.22

ID: 2C3-061 Name: SMOKY LAKE State: MI Date: 10OCT84
Sample Type: SPC/LTM/ Latitude: 46-05'45"N Longitude: 88-56'30"W
Elevation: 518 Surface Temp: 13.7 Stratified: MIXED Site Depth: 14.0
Lake Area: 338 Watershed Area: 640 WA/LA: 1.9 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 3.4 Turbidity: 0.4 Color: 15
Closed pH: 7.29 Equil. pH: 7.71 ANC: 217.0 DOC: 3.10
Closed DIC: 2.85 Equil. DIC: 2.36 Meas. Cond: 31.3 Cal. Cond: 32.2
Ca: 147.7 Mg: 102.0 Na: 32.2 K: 10.5 NH4: 0.0
SO4: 75.4 HCO3: 195.0 Cl: 10.4 NO3: 0.0 F: 1.4
Sum Cations: 292.4 Sum Anions: 282.7 Cations/Anions: 1.03 Tot. P: 7.0
Tot. Al: 6.0 Ext. Al: 1.0 Fe: 0.0 Mn: 0.0 SiO2: 0.24

ID: 2C3-062 Name: BIG CROOKED LAKE State: WI Date: 06NOV84
Sample Type: SPC/NRC/ Latitude: 46-02'00"N Longitude: 89-51'25"W
Elevation: 492 Surface Temp: 6.2 Stratified: MIXED Site Depth: 24.7
Lake Area: 160 Watershed Area: 2082 WA/LA: 13.0 Hydro Type: DRAINAGE
Residence Time: 2.92 Secchi Depth: 3.4 Turbidity: 0.8 Color: 20
Closed pH: 6.84 Equil. pH: 7.41 ANC: 179.8 DOC: 3.60
Closed DIC: 2.65 Equil. DIC: 2.08 Meas. Cond: 23.2 Cal. Cond: 27.2
Ca: 155.7 Mg: 60.0 Na: 18.7 K: 12.5 NH4: 2.7
SO4: 52.7 HCO3: 174.5 Cl: 7.1 NO3: 1.3 F: 1.1
Sum Cations: 249.8 Sum Anions: 236.8 Cations/Anions: 1.05 Tot. P: 32.0
Tot. Al: 4.0 Ext. Al: 3.0 Fe: 70.0 Mn: 20.0 SiO2: 0.74

ID: 2C3-063 Name: CHAIN LAKE State: WI Date: 31OCT84
Sample Type: SPC/NRC/ Latitude: 45-50'30"N Longitude: 89-22'05"W
Elevation: 487 Surface Temp: 5.9 Stratified: MIXED Site Depth: 4.6
Lake Area: 84 Watershed Area: 2795 WA/LA: 33.4 Hydro Type: DRAINAGE
Residence Time: 0.23 Secchi Depth: 0.9 Turbidity: 7.5 Color: 135
Closed pH: 6.99 Equil. pH: 7.61 ANC: 296.0 DOC: 11.00
Closed DIC: 3.78 Equil. DIC: 2.95 Meas. Cond: 50.8 Cal. Cond: 50.8
Ca: 234.5 Mg: 162.1 Na: 79.6 K: 16.6 NH4: 9.4
SO4: 60.0 HCO3: 237.3 Cl: 81.8 NO3: 8.7 F: 2.5
Sum Cations: 502.3 Sum Anions: 390.5 Cations/Anions: 1.29 Tot. P: 57.0
Tot. Al: 46.0 Ext. Al: 3.0 Fe: 1050.0 Mn: 90.0 SiO2: 18.50

ID: 2C3-064 Name: DOG LAKE State: WI Date: 10OCT84
Sample Type: SPC/NRC/ Latitude: 45-46'45"N Longitude: 89-06'30"W
Elevation: 495 Surface Temp: 13.0 Stratified: MIXED Site Depth: 5.2
Lake Area: 81 Watershed Area: 15698 WA/LA: 193.1 Hydro Type: DRAINAGE
Residence Time: 0.05 Secchi Depth: 1.1 Turbidity: 3.0 Color: 120
Closed pH: 6.98 Equil. pH: 7.75 ANC: 377.0 DOC: 15.80
Closed DIC: 4.32 Equil. DIC: 3.30 Meas. Cond: 51.4 Cal. Cond: 51.7
Ca: 261.5 Mg: 218.0 Na: 56.5 K: 14.6 NH4: 1.7
SO4: 65.2 HCO3: 265.7 Cl: 43.4 NO3: 0.3 F: 1.8
Sum Cations: 552.3 Sum Anions: 376.8 Cations/Anions: 1.47 Tot. P: 27.0
Tot. Al: 53.0 Ext. Al: 12.0 Fe: 480.0 Mn: 10.0 SiO2: 4.79

(continued)

TABLE 4-1 (continued)

ID: 2C3-065 Name: HARMONY LAKE State: WI Date: 31OCT84
Sample Type: SPC/NRC/ Latitude: 45-57'10"N Longitude: 89-11'20"W
Elevation: 503 Surface Temp: 5.6 Stratified: MIXED Site Depth: 4.6
Lake Area: 21 Watershed Area: 259 WA/LA: 12.2 Hydro Type: DRAINAGE
Residence Time: 0.57 Secchi Depth: 2.6 Turbidity: 0.6 Color: 25
Closed pH: 5.57 Equil. pH: 5.76 ANC: 7.0 DOC: 4.20
Closed DIC: 0.41 Equil. DIC: 0.23 Meas. Cond: 13.1 Cal. Cond: 12.9
Ca: 39.4 Mg: 28.8 Na: 14.4 K: 11.5 NH4: 2.8
SO4: 58.3 HCO3: 5.5 Cl: 14.7 NO3: 1.5 F: 0.9
Sum Cations: 99.9 Sum Anions: 80.9 Cations/Anions: 1.24 Tot. P: 8.0
Tot. Al: 35.0 Ext. Al: 12.0 Fe: 40.0 Mn: 20.0 SiO2: 0.07

ID: 2C3-066 Name: ISLAND LAKE State: WI Date: 10OCT84
Sample Type: SPC/NRC/ Latitude: 45-49'45"N Longitude: 89-07'55"W
Elevation: 495 Surface Temp: 12.8 Stratified: MIXED Site Depth: 6.1
Lake Area: 123 Watershed Area: 24577 WA/LA: 199.5 Hydro Type: DRAINAGE
Residence Time: 0.06 Secchi Depth: 1.9 Turbidity: 2.0 Color: 60
Closed pH: 7.35 Equil. pH: 7.76 ANC: 372.0 DOC: 9.70
Closed DIC: 4.34 Equil. DIC: 3.64 Meas. Cond: 53.2 Cal. Cond: 54.6
Ca: 253.0 Mg: 207.3 Na: 60.9 K: 16.4 NH4: 1.7
SO4: 82.2 HCO3: 293.5 Cl: 57.5 NO3: 0.4 F: 1.8
Sum Cations: 539.3 Sum Anions: 436.0 Cations/Anions: 1.24 Tot. P: 46.0
Tot. Al: 16.0 Ext. Al: 1.0 Fe: 30.0 Mn: 30.0 SiO2: 5.43

ID: 2C3-067 Name: OTTER LAKE State: WI Date: 08OCT84
Sample Type: SPC/NRC/ Latitude: 45-26'30"N Longitude: 89-32'45"W
Elevation: 496 Surface Temp: 12.6 Stratified: MIXED Site Depth: 4.2
Lake Area: 14 Watershed Area: 98 WA/LA: 7.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.9 Turbidity: 1.0 Color: 50
Closed pH: 6.38 Equil. pH: 6.81 ANC: 67.0 DOC: 11.50
Closed DIC: 0.89 Equil. DIC: 0.41 Meas. Cond: 21.4 Cal. Cond: 22.0
Ca: 101.8 Mg: 60.9 Na: 13.0 K: 18.4 NH4: 0.6
SO4: 68.5 HCO3: 30.0 Cl: 44.6 NO3: 3.8 F: 1.5
Sum Cations: 195.1 Sum Anions: 148.4 Cations/Anions: 1.31 Tot. P: 15.0
Tot. Al: 56.0 Ext. Al: 23.0 Fe: 50.0 Mn: 0.0 SiO2: 0.50

ID: 2C3-068 Name: PLUMMER LAKE State: WI Date: 01NOV84
Sample Type: SPC/NRC/ Latitude: 45-58'10"N Longitude: 89-46'30"W
Elevation: 490 Surface Temp: 8.2 Stratified: MIXED Site Depth: 15.5
Lake Area: 89 Watershed Area: 197 WA/LA: 2.2 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 4.1 Turbidity: 0.5 Color: 15
Closed pH: 7.39 Equil. pH: 7.78 ANC: 357.0 DOC: 2.70
Closed DIC: 4.63 Equil. DIC: 4.13 Meas. Cond: 45.2 Cal. Cond: 45.2
Ca: 254.5 Mg: 140.7 Na: 41.3 K: 12.3 NH4: 1.1
SO4: 55.2 HCO3: 321.1 Cl: 7.3 NO3: 1.7 F: 2.3
Sum Cations: 449.9 Sum Anions: 388.2 Cations/Anions: 1.16 Tot. P: 15.0
Tot. Al: 7.0 Ext. Al: 1.0 Fe: 30.0 Mn: 0.0 SiO2: 0.20

ID: 2C3-069 Name: SHISHEBOGAMA LAKE State: WI Date: 07NOV84
Sample Type: SPC/NRC/ Latitude: 45-53'55"N Longitude: 89-49'15"W
Elevation: 480 Surface Temp: 4.2 Stratified: MIXED Site Depth: 12.2
Lake Area: 284 Watershed Area: 1230 WA/LA: 4.3 Hydro Type: DRAINAGE
Residence Time: 3.27 Secchi Depth: 2.4 Turbidity: 1.9 Color: 20
Closed pH: 7.74 Equil. pH: 8.39 ANC: 756.4 DOC: 4.20
Closed DIC: 8.87 Equil. DIC: 8.84 Meas. Cond: 86.3 Cal. Cond: 90.9
Ca: 532.4 Mg: 231.2 Na: 88.7 K: 16.1 NH4: 0.0
SO4: 60.0 HCO3: 699.6 Cl: 64.9 NO3: 1.1 F: 2.9
Sum Cations: 868.5 Sum Anions: 831.8 Cations/Anions: 1.04 Tot. P: 13.0
Tot. Al: 18.0 Ext. Al: 1.0 Fe: 20.0 Mn: 10.0 SiO2: 10.30

(continued)

TABLE 4-1 (continued)

ID: 2C3-070 Name: TROSTEL LAKE State: WI Date: 06NOV84
Sample Type: SPC/NRC/ Latitude: 46-16'13"N Longitude: 89-54'40"W
Elevation: 507 Surface Temp: 3.4 Stratified: MIXED Site Depth: 3.7
Lake Area: 8 Watershed Area: 28 WA/LA: 3.5 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.9 Turbidity: 0.7 Color: 30
Closed pH: 6.36 Equil. pH: 6.99 ANC: 97.9 DOC: 7.00
Closed DIC: 1.90 Equil. DIC: 1.09 Meas. Cond: 17.1 Cal. Cond: 19.5
Ca: 96.8 Mg: 51.8 Na: 17.4 K: 12.8 NH4: 4.9
SO4: 52.9 HCO3: 89.5 Cl: 5.6 NO3: 0.0 F: 1.2
Sum Cations: 183.9 Sum Anions: 149.3 Cations/Anions: 1.23 Tot. P: 8.0
Tot. Al: 29.0 Ext. Al: 8.0 Fe: 60.0 Mn: 10.0 SiO2: 0.57

ID: 2D3-072 Name: CRUM LAKE State: MN Date: 13OCT84
Sample Type: SPC/LTM/ Latitude: 47-51'50"N Longitude: 93-18'37"W
Elevation: 415 Surface Temp: 13.8 Stratified: MIXED Site Depth: 3.0
Lake Area: 6 Watershed Area: 140 WA/LA: 22.2 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 3.0 Turbidity: 0.6 Color: 22
Closed pH: 6.17 Equil. pH: 6.99 ANC: 38.0 DOC: 6.00
Closed DIC: 0.68 Equil. DIC: 0.29 Meas. Cond: 8.1 Cal. Cond: 7.3
Ca: 26.4 Mg: 24.7 Na: 7.8 K: 16.9 NH4: 0.0
SO4: 12.1 HCO3: 28.2 Cl: 5.1 NO3: 0.0 F: 1.3
Sum Cations: 76.3 Sum Anions: 46.6 Cations/Anions: 1.64 Tot. P: 10.0
Tot. Al: 5.0 Ext. Al: 6.0 Fe: 20.0 Mn: 10.0 SiO2: 0.12

ID: 3A2-061 Name: RAVENEL(CULLASAJA)L. State: NC Date: 25NOV84
Sample Type: SPC/LTM/ Latitude: 35-05'07"N Longitude: 83-09'40"W
Elevation: 1213 Surface Temp: 4.6 Stratified: MIXED Site Depth: 3.6
Lake Area: 8 Watershed Area: 337 WA/LA: 41.1 Hydro Type: RESERVOIR
Residence Time: 0.05 Secchi Depth: 2.3 Turbidity: 1.8 Color: 50
Closed pH: 6.34 Equil. pH: 7.09 ANC: 70.0 DOC: 4.10
Closed DIC: 1.38 Equil. DIC: 0.45 Meas. Cond: 26.2 Cal. Cond: 26.5
Ca: 81.8 Mg: 51.8 Na: 54.8 K: 26.3 NH4: 0.3
SO4: 61.4 HCO3: 58.7 Cl: 85.5 NO3: 0.7 F: 0.6
Sum Cations: 215.3 Sum Anions: 206.9 Cations/Anions: 1.04 Tot. P: 8.0
Tot. Al: 132.0 Ext. Al: 7.0 Fe: 180.0 Mn: 70.0 SiO2: 3.93

ID: 3A2-062 Name: SANTEETLAH LAKE State: NC Date: 20NOV84
Sample Type: SPC/LTM/ Latitude: 35-22'00"N Longitude: 83-52'30"W
Elevation: 591 Surface Temp: 13.9 Stratified: STRONG Site Depth: 45.7
Lake Area: 1035 Watershed Area: 44848 WA/LA: 43.3 Hydro Type: RESERVOIR
Residence Time: 0.63 Secchi Depth: 2.3 Turbidity: 1.2 Color: 25
Closed pH: 6.78 Equil. pH: 7.47 ANC: 138.8 DOC: 1.70
Closed DIC: 2.33 Equil. DIC: 1.64 Meas. Cond: 19.7 Cal. Cond: 21.5
Ca: 84.3 Mg: 37.0 Na: 41.8 K: 15.1 NH4: 5.4
SO4: 29.8 HCO3: 150.6 Cl: 20.9 NO3: 1.6 F: 1.1
Sum Cations: 183.7 Sum Anions: 204.0 Cations/Anions: 0.90 Tot. P: 3.0
Tot. Al: 31.0 Ext. Al: 1.0 Fe: 64.0 Mn: 56.0 SiO2: 4.99

ID: 3A2-063 Name: THUNDER LAKE State: NC Date: 29NOV84
Sample Type: SPC/LTM/ Latitude: 35-07'50"N Longitude: 82-39'55"W
Elevation: 896 Surface Temp: 7.3 Stratified: MIXED Site Depth: 5.8
Lake Area: 20 Watershed Area: 150 WA/LA: 7.5 Hydro Type: RESERVOIR
Residence Time: 0.44 Secchi Depth: 1.5 Turbidity: 5.2 Color: 55
Closed pH: 5.90 Equil. pH: 6.39 ANC: 16.7 DOC: 3.20
Closed DIC: 0.66 Equil. DIC: 0.21 Meas. Cond: 7.8 Cal. Cond: 8.5
Ca: 14.5 Mg: 9.0 Na: 37.4 K: 7.2 NH4: 0.7
SO4: 32.3 HCO3: 11.4 Cl: 15.2 NO3: 0.8 F: 0.3
Sum Cations: 69.8 Sum Anions: 60.0 Cations/Anions: 1.16 Tot. P: 6.0
Tot. Al: 380.0 Ext. Al: 8.0 Fe: 30.0 Mn: 10.0 SiO2: 3.28

(continued)

TABLE 4-1 (continued)

ID: **3A2-064** Name: **WINFIELD SCOTT LAKE** State: GA Date: 26NOV84
Sample Type: SPC/LTM/ Latitude: 34-44'21"N Longitude: 83-58'25"W
Elevation: 875 Surface Temp: 6.1 Stratified: MIXED Site Depth: 4.6
Lake Area: 5 Watershed Area: 914 WA/LA: 169.3 Hydro Type: RESERVOIR
Residence Time: 0.02 Secchi Depth: 3.0 Turbidity: 1.6 Color: 25
Closed pH: 7.04 Equil. pH: 7.41 ANC: 158.7 DOC: 1.10
Closed DIC: 2.14 Equil. DIC: 1.82 Meas. Cond: 23.0 Cal. Cond: 24.7
Ca: 92.3 Mg: 65.0 Na: 60.0 K: 21.2 NH4: 0.4
SO4: 21.2 HCO3: 139.2 Cl: 33.9 NO3: 8.6 F: 0.5
Sum Cations: 239.1 Sum Anions: 203.6 Cations/Anions: 1.17 Tot. P: 5.0
Tot. Al: 58.0 Ext. Al: 3.0 Fe: 100.0 Mn: 90.0 SiO2: 8.05

ID: **3A2-065** Name: **PRICE LAKE** State: NC Date: 21NOV84
Sample Type: SPC/LTM/ Latitude: 36-08'15"N Longitude: 81-44'00"W
Elevation: 1030 Surface Temp: 3.5 Stratified: MIXED Site Depth: 3.0
Lake Area: 15 Watershed Area: 1215 WA/LA: 82.6 Hydro Type: DRAINAGE
Residence Time: 0.03 Secchi Depth: 1.6 Turbidity: 3.9 Color: 30
Closed pH: 6.79 Equil. pH: 7.31 ANC: 106.5 DOC: 1.50
Closed DIC: 1.69 Equil. DIC: 1.31 Meas. Cond: 18.5 Cal. Cond: 19.5
Ca: 77.8 Mg: 32.1 Na: 51.8 K: 11.5 NH4: 2.5
SO4: 31.4 HCO3: 91.4 Cl: 29.9 NO3: 8.3 F: 1.0
Sum Cations: 175.8 Sum Anions: 162.1 Cations/Anions: 1.08 Tot. P: 8.0
Tot. Al: 139.0 Ext. Al: 3.0 Fe: 120.0 Mn: 0.0 SiO2: 7.60

ID: **3A2-066** Name: **MARS HILL LAKE** State: NC Date: 21NOV84
Sample Type: SPC/LTM/ Latitude: 35-56'40"N Longitude: 82-29'40"W
Elevation: 1164 Surface Temp: 3.9 Stratified: MIXED Site Depth: 6.7
Lake Area: * Watershed Area: 275 WA/LA: * Hydro Type: RESERVOIR
Residence Time: * Secchi Depth: 3.2 Turbidity: 0.6 Color: 30
Closed pH: 6.98 Equil. pH: 7.37 ANC: 120.5 DOC: 1.80
Closed DIC: 1.67 Equil. DIC: 1.31 Meas. Cond: 16.5 Cal. Cond: 19.8
Ca: 55.9 Mg: 36.2 Na: 49.2 K: 14.1 NH4: 40.6
SO4: 18.5 HCO3: 109.4 Cl: 18.1 NO3: 4.0 F: 0.9
Sum Cations: 196.1 Sum Anions: 151.0 Cations/Anions: 1.30 Tot. P: 7.0
Tot. Al: 42.0 Ext. Al: 2.0 Fe: 0.0 Mn: 0.0 SiO2: 9.86

ID: **3A3-101** Name: **CHATUGE LAKE** State: NC Date: 20NOV84
Sample Type: SPC/LTM/ Latitude: 35-00'45"N Longitude: 83-47'15"W
Elevation: 587 Surface Temp: 14.4 Stratified: MIXED Site Depth: 28.9
Lake Area: 2862 Watershed Area: 48687 WA/LA: 17.0 Hydro Type: RESERVOIR
Residence Time: 0.97 Secchi Depth: 1.9 Turbidity: 2.9 Color: 10
Closed pH: 6.91 Equil. pH: 7.45 ANC: 135.8 DOC: 1.00
Closed DIC: 2.04 Equil. DIC: 1.74 Meas. Cond: 19.4 Cal. Cond: 21.6
Ca: 63.9 Mg: 49.4 Na: 50.5 K: 27.1 NH4: 4.0
SO4: 24.8 HCO3: 136.6 Cl: 27.4 NO3: 1.3 F: 1.2
Sum Cations: 194.9 Sum Anions: 191.4 Cations/Anions: 1.02 Tot. P: 2.0
Tot. Al: 118.0 Ext. Al: 2.0 Fe: 0.0 Mn: 5.0 SiO2: 4.36

ID: **3A3-102** Name: **MILLER LAKE** State: TN Date: 21NOV84
Sample Type: SPC/LTM/ Latitude: 36-10'42"N Longitude: 82-09'23"W
Elevation: 1103 Surface Temp: 5.1 Stratified: MIXED Site Depth: 5.5
Lake Area: 3 Watershed Area: 109 WA/LA: 36.3 Hydro Type: RESERVOIR
Residence Time: 0.13 Secchi Depth: 1.8 Turbidity: 3.4 Color: 40
Closed pH: 6.87 Equil. pH: 7.63 ANC: 218.6 DOC: 3.70
Closed DIC: 3.52 Equil. DIC: 2.83 Meas. Cond: 27.4 Cal. Cond: 27.3
Ca: 138.2 Mg: 33.7 Na: 69.6 K: 15.9 NH4: 5.9
SO4: 24.2 HCO3: 193.8 Cl: 18.3 NO3: 0.7 F: 2.3
Sum Cations: 263.4 Sum Anions: 239.4 Cations/Anions: 1.10 Tot. P: 11.0
Tot. Al: 43.0 Ext. Al: 1.0 Fe: 180.0 Mn: 0.0 SiO2: 6.94

(continued)

TABLE 4-1 (continued)

ID: 3A3-103 Name: WATAUGA LAKE State: TN Date: 29NOV84
Sample Type: SPC/LTM/ Latitude: 36-19'40"N Longitude: 82-05'00"W
Elevation: 597 Surface Temp: 11.2 Stratified: WEAK Site Depth: 60.0
Lake Area: 2535 Watershed Area: 120474 WA/LA: 47.5 Hydro Type: RESERVOIR
Residence Time: 1.48 Secchi Depth: 2.9 Turbidity: 3.2 Color: 15
Closed pH: 7.25 Equil. pH: 8.02 ANC: 498.9 DOC: 1.20
Closed DIC: 6.58 Equil. DIC: 7.09 Meas. Cond: 75.8 Cal. Cond: 77.5
Ca: 286.9 Mg: 244.3 Na: 97.0 K: 34.5 NH4: 0.7
SO4: 110.6 HCO3: 513.3 Cl: 72.8 NO3: 34.8 F: 3.5
Sum Cations: 663.5 Sum Anions: 736.8 Cations/Anions: 0.90 Tot. P: 2.0
Tot. Al: 48.0 Ext. Al: 3.0 Fe: 30.0 Mn: 0.0 SiO2: 5.12

ID: 3A3-104 Name: WOLF CREEK RESERVOIR State: NC Date: 25NOV84
Sample Type: SPC/LTM/ Latitude: 35-16'05"N Longitude: 82-58'10"W
Elevation: 1082 Surface Temp: 11.8 Stratified: MIXED Site Depth: 29.0
Lake Area: 2 Watershed Area: 1404 WA/LA: 702.0 Hydro Type: RESERVOIR
Residence Time: 0.02 Secchi Depth: 4.4 Turbidity: 1.5 Color: 18
Closed pH: 6.66 Equil. pH: 7.28 ANC: 86.1 DOC: 0.70
Closed DIC: 1.42 Equil. DIC: 1.25 Meas. Cond: 11.8 Cal. Cond: 12.8
Ca: 35.4 Mg: 23.0 Na: 42.6 K: 13.4 NH4: 1.3
SO4: 16.1 HCO3: 82.5 Cl: 14.8 NO3: 0.6 F: 0.6
Sum Cations: 115.9 Sum Anions: 114.7 Cations/Anions: 1.01 Tot. P: 5.5
Tot. Al: 34.5 Ext. Al: 1.0 Fe: 20.0 Mn: 85.0 SiO2: 7.46

ID: 3B1-141 Name: MAGNOLIA LAKE State: FL Date: 11DEC84
Sample Type: SPC/DER/ Latitude: 29-49'28"N Longitude: 82-01'07"W
Elevation: 37 Surface Temp: 16.0 Stratified: MIXED Site Depth: 11.0
Lake Area: 81 Watershed Area: 3294 WA/LA: 40.5 Hydro Type: DRAINAGE
Residence Time: 0.45 Secchi Depth: 4.4 Turbidity: 0.7 Color: 10
Closed pH: 5.14 Equil. pH: 5.08 ANC: -15.2 DOC: 1.13
Closed DIC: 0.36 Equil. DIC: 0.20 Meas. Cond: 25.5 Cal. Cond: 26.9
Ca: 26.7 Mg: 41.2 Na: 107.4 K: 3.4 NH4: 0.2
SO4: 62.7 HCO3: 0.8 Cl: 123.8 NO3: 0.0 F: 0.5
Sum Cations: 187.5 Sum Anions: 187.8 Cations/Anions: 1.00 Tot. P: 4.0
Tot. Al: 26.0 Ext. Al: 0.0 Fe: 5.0 Mn: 9.0 SiO2: 1.06

ID: 3B1-142 Name: SAND HILL (LOWRY) LA State: FL Date: 13DEC84
Sample Type: SPC/DER/ Latitude: 29-50'54"N Longitude: 82-00'29"W
Elevation: 38 Surface Temp: 15.2 Stratified: MIXED Site Depth: 7.3
Lake Area: 508 Watershed Area: 2732 WA/LA: 5.4 Hydro Type: DRAINAGE
Residence Time: 1.46 Secchi Depth: 3.7 Turbidity: 1.0 Color: 10
Closed pH: 5.17 Equil. pH: 5.08 ANC: -14.7 DOC: 0.53
Closed DIC: 0.26 Equil. DIC: 0.25 Meas. Cond: 25.3 Cal. Cond: 26.9
Ca: 26.5 Mg: 42.4 Na: 106.7 K: 3.5 NH4: 0.0
SO4: 67.2 HCO3: 0.9 Cl: 119.9 NO3: 0.2 F: 0.5
Sum Cations: 187.2 Sum Anions: 188.6 Cations/Anions: 0.99 Tot. P: 2.0
Tot. Al: 64.0 Ext. Al: 7.0 Fe: 4.0 Mn: 12.0 SiO2: 2.64

ID: 3B1-143 Name: WILDCAT LAKE State: FL Date: 09DEC84
Sample Type: SPC/DER/ Latitude: 29-09'54"N Longitude: 81-37'45"W
Elevation: 13 Surface Temp: 16.1 Stratified: MIXED Site Depth: 5.5
Lake Area: 133 Watershed Area: 435 WA/LA: 3.3 Hydro Type: CLOSED
Residence Time: * Secchi Depth: 3.7 Turbidity: 0.5 Color: 10
Closed pH: 5.04 Equil. pH: 5.08 ANC: -19.3 DOC: 1.70
Closed DIC: 0.34 Equil. DIC: 0.16 Meas. Cond: 37.9 Cal. Cond: 37.8
Ca: 36.1 Mg: 54.1 Na: 179.2 K: 3.7 NH4: 1.0
SO4: 71.5 HCO3: 0.7 Cl: 182.5 NO3: 0.1 F: 0.8
Sum Cations: 284.6 Sum Anions: 255.7 Cations/Anions: 1.11 Tot. P: 4.5
Tot. Al: 39.0 Ext. Al: 15.0 Fe: 12.5 Mn: 9.0 SiO2: 0.06

(continued)

TABLE 4-1 (continued)

ID: 381-144 Name: TOMAHAWK LAKE State: FL Date: 10DEC84
Sample Type: SPC/DER/ Latitude: 29-07'58"N Longitude: 81-54'25"W
Elevation: 19 Surface Temp: 16.8 Stratified: MIXED Site Depth: 5.5
Lake Area: 28 Watershed Area: 88 WA/LA: 3.1 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 5.0 Turbidity: 0.5 Color: 5
Closed pH: 5.11 Equil. pH: 5.11 ANC: -14.5 DOC: 1.96
Closed DIC: 0.57 Equil. DIC: 0.17 Meas. Cond: 33.2 Cal. Cond: 33.2
Ca: 28.0 Mg: 48.6 Na: 155.7 K: 4.4 NH4: 0.9
SO4: 84.7 HCO3: 0.8 Cl: 143.9 NO3: 0.4 F: 0.8
Sum Cations: 246.0 Sum Anions: 230.5 Cations/Anions: 1.07 Tot. P: 3.0
Tot. Al: 46.0 Ext. Al: 16.0 Fe: 3.0 Mn: 12.0 SiO2: 0.12

ID: 383-182 Name: OCEAN POND State: FL Date: 13DEC84
Sample Type: SPC/DER/ Latitude: 30-13'45"N Longitude: 82-26'15"W
Elevation: 47 Surface Temp: 14.2 Stratified: MIXED Site Depth: 2.7
Lake Area: 723 Watershed Area: 5541 WA/LA: 7.7 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 1.5 Turbidity: 2.8 Color: 70
Closed pH: 5.07 Equil. pH: 5.04 ANC: -11.6 DOC: 6.75
Closed DIC: 0.41 Equil. DIC: 0.31 Meas. Cond: 30.2 Cal. Cond: 30.3
Ca: 46.6 Mg: 44.3 Na: 127.7 K: 3.6 NH4: 0.7
SO4: 51.4 HCO3: 0.9 Cl: 141.6 NO3: 0.4 F: 1.1
Sum Cations: 232.6 Sum Anions: 195.3 Cations/Anions: 1.19 Tot. P: 15.0
Tot. Al: 200.0 Ext. Al: 64.0 Fe: 228.0 Mn: 24.0 SiO2: 2.53

ID: 383-183 Name: CHERRY LAKE State: FL Date: 14DEC84
Sample Type: SPC/DER/ Latitude: 30-37'00"N Longitude: 83-24'53"W
Elevation: 47 Surface Temp: 14.6 Stratified: MIXED Site Depth: 3.0
Lake Area: 194 Watershed Area: 347 WA/LA: 1.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.5 Turbidity: 1.6 Color: 20
Closed pH: 7.01 Equil. pH: 6.52 ANC: 105.3 DOC: 2.25
Closed DIC: 0.24 Equil. DIC: 0.54 Meas. Cond: 46.3 Cal. Cond: 49.5
Ca: 134.0 Mg: 71.6 Na: 153.2 K: 15.3 NH4: 1.5
SO4: 187.8 HCO3: 37.9 Cl: 152.1 NO3: 5.6 F: 1.4
Sum Cations: 375.7 Sum Anions: 384.8 Cations/Anions: 0.98 Tot. P: 23.0
Tot. Al: 54.0 Ext. Al: 0.0 Fe: 27.0 Mn: 12.0 SiO2: 0.96

ID: 383-184 Name: CRYSTAL LAKE State: FL Date: 14DEC84
Sample Type: SPC/DER/ Latitude: 30-27'14"N Longitude: 85-42'08"W
Elevation: 18 Surface Temp: 16.4 Stratified: MIXED Site Depth: 17.7
Lake Area: 73 Watershed Area: 355 WA/LA: 4.8 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 6.6 Turbidity: 0.4 Color: 5
Closed pH: 6.09 Equil. pH: 6.29 ANC: 0.9 DOC: 1.29
Closed DIC: 0.46 Equil. DIC: 0.33 Meas. Cond: 15.9 Cal. Cond: 15.7
Ca: 41.4 Mg: 23.0 Na: 55.9 K: 3.6 NH4: 1.6
SO4: 45.6 HCO3: 13.0 Cl: 57.0 NO3: 0.7 F: 0.4
Sum Cations: 126.0 Sum Anions: 116.6 Cations/Anions: 1.08 Tot. P: 6.0
Tot. Al: 13.0 Ext. Al: 0.0 Fe: 4.0 Mn: 3.0 SiO2: 1.03

ID: 383-185 Name: COMPASS LAKE State: FL Date: 14DEC84
Sample Type: SPC/DER/ Latitude: 30-27'34"N Longitude: 85-42'37"W
Elevation: 15 Surface Temp: 16.8 Stratified: MIXED Site Depth: 16.2
Lake Area: 33 Watershed Area: 153 WA/LA: 4.6 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 6.9 Turbidity: 0.3 Color: 5
Closed pH: 6.35 Equil. pH: 6.51 ANC: 15.7 DOC: 1.13
Closed DIC: 0.58 Equil. DIC: 0.42 Meas. Cond: 14.1 Cal. Cond: 13.5
Ca: 41.2 Mg: 21.8 Na: 48.9 K: 2.3 NH4: 1.0
SO4: 25.4 HCO3: 21.5 Cl: 52.9 NO3: 0.8 F: 0.3
Sum Cations: 115.4 Sum Anions: 100.9 Cations/Anions: 1.14 Tot. P: 2.0
Tot. Al: 16.0 Ext. Al: 0.0 Fe: 4.0 Mn: 3.0 SiO2: 2.83

(continued)

TABLE 4-1 (continued)

ID: 383-186 Name: LAKE LUCERNE State: FL Date: 05DEC84
Sample Type: SPC/DER/ Latitude: 28-04'46"N Longitude: 81-41"03"W
Elevation: 39 Surface Temp: 21.2 Stratified: MIXED Site Depth: 3.4
Lake Area: 17 Watershed Area: 67 WA/LA: 4.0 Hydro Type: SEEPAGE
Residence Time: * Secchi Depth: 2.8 Turbidity: 0.7 Color: 20
Closed pH: 6.91 Equil. pH: 7.22 ANC: 131.5 DOC: 3.98
Closed DIC: 1.44 Equil. DIC: 1.36 Meas. Cond: 169.0 Cal. Cond: 180.2
Ca: 376.1 Mg: 358.1 Na: 582.9 K: 91.8 NH4: 0.6
SO4: 699.6 HCO3: 85.7 Cl: 558.6 NO3: 0.0 F: 7.2
Sum Cations: 1409.6 Sum Anions: 1351.1 Cations/Anions: 1.04 Tot. P: 8.0
Tot. Al: 31.0 Ext. Al: 2.0 Fe: 1.0 Mn: 3.0 SiO2: 0.18

APPENDIX A

REGULAR LAKES SORTED BY STATE AND LAKE NAME

This Appendix (Table A-1) lists all regular lakes (those that were part of the probability sample), sorted by state and lake name.

The table includes: the name of the state in which the lake is located, the lake name as it appears on the appropriate USGS map, the lake ID, the latitude and longitude (in degrees-minutes-seconds), and the date the lake was sampled.

TABLE A-1. REGULAR LAKES SORTED BY STATE AND LAKE NAME

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
CONNECTICUT	(NO NAME)	1D1-015	42-01'30"N	72-08'15"W	13NOV84
	(NO NAME)	1D3-033	41-39'30"N	73-11'30"W	08NOV84
	ANDOVER LAKE	1D2-044	41-43'00"N	72-21'30"W	13NOV84
	BAILEY POND	1D1-020	41-38'15"N	71-47'30"W	04NOV84
	BISSONNETTE POND	1D1-017	41-55'25"N	72-13'05"W	13NOV84
	CEDAR POND	1D3-042	41-19'15"N	72-46'45"W	08NOV84
	FOSTERS POND	1D1-050	41-21'30"N	72-35'05"W	08NOV84
	GREAT POND	1D3-091	41-19'01"N	73-28'07"W	06NOV84
	GRIGGS POND	1D1-058	42-00'07"N	72-05'14"W	13NOV84
	HARTLAND POND	1D3-084	42-01'06"N	73-00'36"W	08NOV84
	INDIAN LAKE	1D3-092	41-15'03"N	73-00'40"W	06NOV84
	KILLINGLY POND	1D3-029	41-51'45"N	71-47'45"W	04NOV84
	LAKE FLOREN	1D3-083	41-45'25"N	73-14'33"W	08NOV84
	LAKE WINNEMAUG	1D3-036	41-35'00"N	73-07'45"W	08NOV84
	LANE POND	1D1-049	41-24'05"N	72-44'05"W	08NOV84
	LEANDER POND	1D3-056	41-50'15"N	72-11'18"W	13NOV84
	LONG POND	1D3-025	42-01'15"N	71-49'00"W	08NOV84
	MOREY POND	1D1-016	41-57'35"N	72-11'35"W	13NOV84
	PICKEREL LAKE	1D2-080	41-31'48"N	72-25'13"W	13NOV84
	QUINEBAUG POND	1D3-076	41-46'29"N	71-53'19"W	13NOV84
	RIGA LAKE	1B3-056	42-01'18"N	73-29'00"W	08NOV84
	SILVIAS POND	1D3-043	41-21'47"N	71-54'30"W	13NOV84
	TRANSYLVANIA POND	1D2-045	41-30'40"N	73-14'20"W	08NOV84
	WATABA LAKE	1D3-069	41-20'30"N	73-29'45"W	06NOV84
FLORIDA	(NO NAME)	3B1-007	28-29'22"N	81-35'24"W	09DEC84
	(NO NAME)	3B1-029	29-46'10"N	81-56'45"W	13DEC84
	(NO NAME)	3B1-033	29-37'17"N	81-54'38"W	10DEC84
	(NO NAME)	3B1-039	29-07'06"N	81-52'45"W	10DEC84
	(NO NAME)	3B1-052	28-38'19"N	81-52'39"W	08DEC84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
FLORIDA (cont)	(NO NAME)	3B1-054	29-47'24"N	81-57'34"W	13DEC84
	(NO NAME)	3B1-057	29-00'33"N	81-51'52"W	11DEC84
	(NO NAME)	3B1-058	28-59'56"N	81-52'35"W	09DEC84
	(NO NAME)	3B1-059	28-29'04"N	81-34'15"W	08DEC84
	(NO NAME)	3B1-061	28-59'04"N	81-45'15"W	09DEC84
	(NO NAME)	3B1-065	28-57'30"N	81-38'48"W	09DEC84
	(NO NAME)	3B1-068	28-29'15"N	81-35'35"W	09DEC84
	(NO NAME)	3B1-083	28-58'35"N	81-51'48"W	09DEC84
	(NO NAME)	3B1-089	29-36'30"N	81-58'25"W	10DEC84
	(NO NAME)	3B1-098	30-29'32"N	85-48'40"W	14DEC84
	(NO NAME)	3B1-099	29-37'07"N	81-53'52"W	10DEC84
	(NO NAME)	3B1-105	29-09'46"N	81-36'57"W	09DEC84
	(NO NAME)	3B1-106	29-34'45"N	81-57'17"W	10DEC84
	(NO NAME)	3B1-116	28-56'28"N	81-40'15"W	09DEC84
	(NO NAME)	3B2-085	27-25'55"N	81-30'00"W	03DEC84
	(NO NAME)	3B3-001	30-33'18"N	84-21'17"W	14DEC84
	(NO NAME)	3B3-054	28-47'11"N	81-31'27"W	09DEC84
	(NO NAME)	3B3-060	29-19'55"N	82-28'05"W	11DEC84
	(NO NAME)	3B3-082	29-27'33"N	81-31'54"W	11DEC84
	(NO NAME)	3B3-109	28-48'19"N	82-17'07"W	10DEC84
	(NO NAME)	3B3-148	28-15'51"N	81-35'43"W	05DEC84
	(NO NAME)	3B3-157	28-17'03"N	82-19'07"W	10DEC84
	(NO NAME)	3B3-169	28-26'10"N	82-23'15"W	10DEC84
	BASKET LAKE	3B2-024	27-31'43"N	81-26'38"W	05DEC84
	BIG LAKE	3B1-050	28-52'07"N	81-27'52"W	08DEC84
	BIRD POND	3B3-089	29-11'48"N	82-20'18"W	10DEC84
	BLACK LAKE	3B1-113	30-31'48"N	85-45'14"W	14DEC84
	BLUE LAKE	3B2-080	27-26'06"N	81-30'45"W	03DEC84
	BLUE POND	3B1-090	29-52'30"N	82-01'30"W	11DEC84
	BOGGY MARSH	3B1-087	28-23'15"N	81-42'02"W	08DEC84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
FLORIDA (cont)	BONNET LAKE	3B2-023	27-32'38"N	81-26'28"W	05DEC84
	BULLOCK LAKE	3B1-067	28-18'10"N	81-10'25"W	05DEC84
	CENTER LAKE NELLIE	3B2-091	27-21'08"N	81-22'45"W	04DEC84
	CHIPCO LAKE	3B1-032	29-37'42"N	81-53'31"W	11DEC84
	CLEAR LAKE	3B1-097	29-10'42"N	81-52'06"W	10DEC84
	CLEAR LAKE	3B3-173	28-21'45"N	82-28'45"W	11DEC84
	COOK LAKE	3B1-088	28-35'27"N	81-48'30"W	08DEC84
	CROOKED LAKE	3B1-036	29-09'10"N	81-36'10"W	09DEC84
	DEER LAKE	3B2-096	27-36'34"N	81-28'30"W	05DEC84
	DINNER LAKE	3B2-094	27-30'55"N	81-26'30"W	05DEC84
	GEORGES POND	3B3-071	29-32'02"N	82-18'42"W	11DEC84
	GOOSE LAKE	3B3-032	28-21'23"N	82-28'08"W	11DEC84
	GRASSY LAKE	3B2-056	27-15'00"N	81-20'00"W	04DEC84
	GREEN POND	3B3-010	29-33'13"N	82-02'13"W	11DEC84
	HAMMOCK LAKE	3B3-068	29-45'52"N	83-01'07"W	13DEC84
	HAVEN WINQUIPIN	3B3-168	29-33'54"N	82-45'03"W	13DEC84
	HOG LAKE	3B2-101	27-31'47"N	81-31'05"W	05DEC84
	HOLLY LAKE	3B1-044	28-56'26"N	81-43'00"W	09DEC84
	HOLTS LAKE	3B3-024	28-41'11"N	81-33'23"W	09DEC84
	HOMESTEAD POND	3B1-064	30-31'17"N	85-42'15"W	14DEC84
	HUCKLEBERRY LAKE	3B2-025	27-27'08"N	81-27'50"W	03DEC84
	KEYSTONE LAKE	3B3-117	28-07'52"N	82-35'25"W	10DEC84
	LAKE ANGELO	3B2-020	27-35'09"N	81-28'00"W	05DEC84
	LAKE ANNIE	3B2-053	27-12'30"N	81-21'00"W	02DEC84
	LAKE ANOKA	3B2-106	27-34'50"N	81-30'45"W	05DEC84
	LAKE BINGHAM	3B3-110	28-44'22"N	81-18'37"W	08DEC84
	LAKE BLANCHE	3B1-008	28-28'48"N	81-31'00"W	08DEC84
	LAKE BRENTWOOD	3B2-015	27-37'17"N	81-30'43"W	05DEC84
	LAKE BYRD	3B2-074	27-37'15"N	81-31'05"W	05DEC84
	LAKE CARRIE	3B2-030	27-20'14"N	81-25'40"W	03DEC84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
FLORIDA (cont)	LAKE CHARLOTTE	3B2-027	27-26'00"N	81-27'00"W	03DEC84
	LAKE CREWS	3B2-088	27-17'45"N	81-26'10"W	03DEC84
	LAKE DAMON	3B2-062	27-38'00"N	81-30'35"W	04DEC84
	LAKE DENTON	3B2-063	27-33'20"N	81-29'21"W	05DEC84
	LAKE DOYLE	3B1-073	28-51'43"N	81-11'39"W	08DEC84
	LAKE EMMA	3B1-072	28-36'45"N	81-51'10"W	08DEC84
	LAKE FRANCIS	3B2-055	27-20'15"N	81-24'30"W	03DEC84
	LAKE GLENADA	3B2-019	27-33'48"N	81-30'22"W	05DEC84
	LAKE GLONA	3B1-079	28-28'57"N	81-47'22"W	08DEC84
	LAKE HELENE	3B3-052	2^-10'24"N	81-48'13"W	05DEC84
	LAKE HENRY	3B2-072	27-19'22"N	81-23'00"W	03DEC84
	LAKE HIAWATHA	3B3-002	30-24'47"N	84-21'00"W	14DEC84
	LAKE HILL	3B2-061	27-21'00"N	81-26'20"W	03DEC84
	LAKE ISIS	3B2-111	27-36'45"N	81-30'40"W	05DEC84
	LAKE ISTOKPOGA	3B2-048	27-22'24"N	81-17'13"W	04DEC84
	LAKE JACKSON	3B2-092	27-29'15"N	81-27'30"W	03DEC84
	LAKE JEFFERY	3B3-136	30-12'32"N	82-41'30"W	13DEC84
	LAKE JOSEPHINE	3B2-029	27-23'36"N	81-26'26"W	04DEC84
	LAKE JUNE IN WINTER	3B2-035	27-18'17"N	81-24'03"W	03DEC84
	LAKE LELIA	3B2-065	27-34'25"N	81-30'15"W	05DEC84
	LAKE LETTA	3B2-021	27-33'38"N	81-27'45"W	05DEC84
	LAKE LOTELA	3B2-099	27-34'30"N	81-29'00"W	05DEC84
	LAKE LOU	3B3-013	29-13'57"N	81-51'17"W	10DEC84
	LAKE MARY	3B1-045	28-55'29"N	81-40'41"W	09DEC84
	LAKE PEARL	3B2-075	27-17'00"N	81-21'45"W	02DEC84
	LAKE PLACID	3B2-089	27-14'30"N	81-22'15"W	02DEC84
	LAKE PYTHIAS	3B2-014	27-38'09"N	81-29'50"W	04DEC84
	LAKE ROSA	3B1-069	29-42'42"N	82-00'27"W	11DEC84
	LAKE RUTH	3B2-113	27-25'45"N	81-27'30"W	03DEC84
	LAKE SEBRING	3B2-022	27-31'41"N	81-29'03"W	05DEC84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
FLORIDA (cont)	LAKE SHERWOOD	3B3-029	28-32'59"N	81-29'57"W	08DEC84
	LAKE SIMMONS	3B2-105	27-20'18"N	81-22'33"W	04DEC84
	LAKE SIRENA	3B2-036	27-17'04"N	81-22'10"W	03DEC84
	LAKE STANDISH	3B3-074	28-42'02"N	81-33'08"W	09DEC84
	LAKE SUNSHINE	3B3-129	28-55'32"N	81-55'20"W	09DEC84
	LAKE THOMAS	3B3-162	28-08'47"N	82-29'15"W	10DEC84
	LAKE VIOLA	3B2-016	27-36'45"N	81-29'45"W	05DEC84
	LAKE WOODWARD	3B3-175	28-49'30"N	81-40'45"W	09DEC84
	LITTLE BONNET LAKE	3B2-090	27-33'35"N	81-28'35"W	05DEC84
	LITTLE FISH LAKE	3B1-091	28-24'05"N	81-30'47"W	08DEC84
	LITTLE RED WATER LAKE	3B2-081	27-32'30"N	81-28'30"W	05DEC84
	LOFTON PONDS (SOUTH)	3B3-133	30-21'12"N	84-22'55"W	14DEC84
	LONG POND	3B1-114	29-40'39"N	81-54'15"W	13DEC84
	MARINER LAKE	3B1-055	29-38'45"N	81-53'17"W	11DEC84
	MATTHIS LAKE	3B3-006	29-47'32"N	83-00'36"W	13DEC84
	MIRROR LAKE	3B2-037	27-16'31"N	81-21'38"W	04DEC84
	MOODY LAKE	3B3-116	28-24'28"N	82-17'45"W	10DEC84
	MOON LAKE	3B3-023	28-42'55"N	82-16'33"W	10DEC84
	MOORE LAKE	3B3-176	30-23'33"N	84-24'15"W	14DEC84
	NORTHWEST LAKE NELLIE	3B2-032	27-21'13"N	81-23'01"W	04DEC84
	OCHEESEE POND	3B1-132	30-39'52"N	84-58'15"W	14DEC84
	OPEN LAKE	3B1-022	30-29'10"N	85-42'40"W	14DEC84
	OSAGE LAKE	3B1-013	28-21'05"N	81-38'11"W	08DEC84
	PAYNE LAKE	3B1-130	30-33'25"N	85-39'55"W	14DEC84
	PECAN LAKE	3B1-041	29-02'12"N	81-53'38"W	10DEC84
	PERSIMMON LAKE	3B2-084	27-21'17"N	81-24'20"W	04DEC84
	PIONEER LAKE	3B2-067	27-37'20"N	81-29'40"W	04DEC84
	PRAIRIE LAKE	3B3-077	28-35'35"N	81-30'30"W	09DEC84
	RED BEACH LAKE	3B2-054	27-25'55"N	81-24'15"W	04DEC84
	RED WATER LAKE	3B2-031	27-20'50"N	81-23'45"W	04DEC84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
FLORIDA (cont)	REEDY LAKE	3B1-093	28-24'55"N	81-36'48"W	08DEC84
	ROUND LAKE	3B1-078	29-07'22"N	81-54'18"W	10DEC84
	SADDLEBAG LAKE	3B3-132	27-53'52"N	81-27'52"W	04DEC84
	SAXON LAKE	3B3-075	28-11'50"N	82-26'50"W	10DEC84
	SELLERS LAKE	3B1-077	29-06'43"N	81-38'15"W	09DEC84
	SILVER LAKE	3B2-107	27-33'58"N	81-31'25"W	05DEC84
	SOUTHEAST LAKE NELLIE	3B2-033	27-20'53"N	81-22'33"W	04DEC84
	SPARKLEBERRY LAKE	3B1-025	30-27'40"N	85-31'03"W	14DEC84
	SQUARE LAKE	3B1-010	28-25'31"N	81-42'03"W	08DEC84
	STEVENS LAKE	3B1-027	29-53'30"N	82-00'35"W	11DEC84
	TROUT LAKE	3B2-013	27-38'49"N	81-30'27"W	04DEC84
	TSALA APOPKA LAKE	3B3-017	28-55'58"N	82-22'25"W	10DEC84
	TURKEY PEN POND	3B1-140	30-33'21"N	85-17'12"W	14DEC84
	WILMA LAKE (EAST)	3B1-051	28-32'21"N	81-43'49"W	08DEC84
	WOLF LAKE	3B2-026	27-25'17"N	81-28'27"W	03DEC84
GEORGIA	(NO NAME)	3A2-015	34-47'13"N	84-23'58"W	24NOV84
	(NO NAME)	3A2-028	34-30'43"N	84-04'37"W	24NOV84
	(NO NAME)	3A3-017	34-17'27"N	84-04'53"W	26NOV84
	(NO NAME)	3A3-027	33-57'00"N	83-16'30"W	27NOV84
	(NO NAME)	3A3-038	33-41'50"N	82-41'50"W	27NOV84
	(NO NAME)	3A3-046	33-23'40"N	84-14'33"W	26NOV84
	(NO NAME)	3A3-061	33-29'45"N	84-13'33"W	26NOV84
	(NO NAME)	3A3-063	33-58'56"N	84-19'50"W	26NOV84
	(NO NAME)	3A3-064	34-04'08"N	83-31'15"W	27NOV84
	(NO NAME)	3A3-073	33-41'00"N	84-02'45"W	26NOV84
	(NO NAME)	3A3-086	33-59'14"N	83-40'50"W	27NOV84
	(NO NAME)	3A3-089	34-15'50"N	84-09'45"W	26NOV84
	(NO NAME)	3A3-099	34-11'47"N	84-18'54"W	26NOV84
	AIKEN POND	3A3-050	33-14'10"N	82-49'45"W	27NOV84
	BLUE RIDGE LAKE	3A2-056	34-51'45"N	84-16'00"W	20NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
GEORGIA (cont)	BUZZARD ROOST LAKE	3B2-010	30-40'05"N	82-12'25"W	13DEC84
	CARTERS LAKE	3A2-019	34-36'26"N	84-38'04"W	24NOV84
	CONASAUGA LAKE	3A2-014	34-51'35"N	84-39'04"W	24NOV84
	COWARD LAKE	3B2-087	30-39'27"N	82-10'12"W	13DEC84
	COX LAKE	3A2-027	34-25'34"N	84-17'53"W	24NOV84
	DOUBLE LAKES (SOUTH)	3B2-003	30-58'50"N	82-11'45"W	13DEC84
	DOUBLE LKS.(NORTH)	3B2-103	30-59'12"N	82-11'35"W	13DEC84
	DURDIN LAKE	3B2-005	30-53'13"N	82-08'50"W	13DEC84
	ELDER LAKE	3A3-026	34-00'00"N	83-48'10"W	27NOV84
	FAUSETT LAKE	3A2-057	34-31'48"N	84-16'45"W	24NOV84
	FREEMAN LAKE	3A3-068	33-55'10"N	84-08'37"W	26NOV84
	GAINES LAKE	3A3-036	33-43'00"N	84-03'15"W	26NOV84
	GANNET LAKE	3B2-093	30-39'40"N	82-14'40"W	13DEC84
	GRANDVIEW LAKE	3A2-058	34-30'06"N	84-23'50"W	24NOV84
	HALF MOON LAKE	3B2-006	30-52'27"N	82-08'43"W	13DEC84
	HARPS LAKE	3A3-052	33-37'05"N	84-11'24"W	26NOV84
	JOELS LAKE	3A3-035	33-41'30"N	84-08'15"W	26NOV84
	LAKE BURTON	3A2-017	34-49'38"N	83-33'18"W	24NOV84
	LAKE LOUISE	3A2-047	34-36'10"N	83-16'57"W	24NOV84
	LAKE RABUN	3A2-018	34-46'13"N	83-25'44"W	24NOV84
	LAKE SEAGRAVES	3A3-022	34-05'53"N	83-21'20"W	27NOV84
	LAKE SIDNEY LANIER	3A3-095	34-11'30"N	84-00'00"W	26NOV84
	LAKE SPIVEY	3A3-057	33-30'52"N	84-17'30"W	26NOV84
	LAKE TAMARACK	3A2-022	34-29'23"N	84-22'18"W	24NOV84
	LAWSON LAKE	3A3-014	34-37'37"N	83-25'45"W	24NOV84
	MAUL HAMMOCK LAKE	3B2-100	31-00'55"N	82-15'28"W	13DEC84
	NOTTELY LAKE	3A2-016	34-55'56"N	84-04'32"W	20NOV84
	OHIO LAKE	3B2-001	31-01'02"N	82-12'15"W	13DEC84
	ROCK EAGLE LAKE	3A3-045	33-25'00"N	83-23'40"W	27NOV84
	RUSSELL LAKE	3A2-049	34-29'23"N	83-29'49"W	24NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
GEORGIA (cont)	SCONTI LAKE	3A2-026	34-27'08"N	84-17'17"W	24NOV84
	SEAGROVE LAKE	3B2-011	30-42'33"N	82-10'18"W	13DEC84
	SEQUOYAH LAKE	3A2-023	34-32'41"N	84-22'04"W	24NOV84
	SHAMROCK LAKE	3A3-044	33-28'52"N	84-18'00"W	26NOV84
	STEWARTS LAKE	3A3-060	33-38'21"N	83-05'05"W	27NOV84
	TOCCOA RESERVOIR	3A2-046	34-36'50"N	83-21'34"W	24NOV84
	TWIN LAKES (EASTERN)	3A2-021	34-37'21"N	83-49'13"W	26NOV84
	TWIN LAKES (WESTERN)	3A2-020	34-37'18"N	83-49'29"W	26NOV84
	WALKER LAKE	3A3-078	33-39'52"N	84-02'30"W	26NOV84
	WINDER RESERVOIR	3A3-021	34-00'42"N	83-44'36"W	27NOV84
MAINE	(BIG) BERRY POND	1C1-010	45-30'20"N	70-02'15"W	19OCT84
	(NO NAME)	1E1-027	45-47'25"N	69-14'30"W	17OCT84
	(NO NAME)	1E1-087	43-45'00"N	70-40'40"W	29OCT84
	(NO NAME)	1E1-119	43-48'54"N	70-40'10"W	29OCT84
	(NO NAME)	1E1-120	45-27'26"N	68-50'46"W	19OCT84
	(NO NAME)	1E2-002	45-59'40"N	69-47'00"W	17OCT84
	(NO NAME)	1E2-003	45-57'15"N	70-04'05"W	17OCT84
	(NO NAME)	1E2-015	46-16'45"N	69-36'25"W	16OCT84
	(NO NAME)	1E2-021	46-07'45"N	68-35'10"W	16OCT84
	(NO NAME)	1E2-025	45-53'30"N	69-46'25"W	17OCT84
	(NO NAME)	1E2-069	46-07'27"N	68-46'45"W	16OCT84
	(NO NAME)	1E2-073	45-53'08"N	69-26'58"W	17OCT84
	ABBOTTS POND	1C2-010	44-25'45"N	70-31'00"W	24OCT84
	ALEWIFE POND	1E3-050	43-26'15"N	70-36'15"W	30OCT84
	BALD MOUNTAIN POND	1E3-036	45-15'00"N	69-44'00"W	19OCT84
	BEAL POND	1C2-007	44-54'14"N	70-24'30"W	18OCT84
	BEAN POND	1C1-078	45-07'38"N	69-58'41"W	19OCT84
	BEAN PONDS (MIDDLE)	1E1-025	45-48'45"N	69-11'30"W	17OCT84
	BEAR POND	1C3-032	44-09'15"N	70-43'00"W	25OCT84
	BEAVER POND	1C1-074	44-48'44"N	70-41'14"W	18OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MAINE (cont)	BELL POND	1E1-093	45-20'35"N	69-31'17"W	17OCT84
	BIG GRAPEVINE POND	1E1-045	45-18'45"N	69-15'30"W	19OCT84
	BIG HURD POND	1E2-017	46-10'00"N	69-40'00"W	17OCT84
	BLACK BROOK POND	1C3-074	45-24'09"N	69-53'52"W	19OCT84
	BLACK POND	1C2-012	44-08'45"N	70-48'00"W	25OCT84
	BLACK POND	1E1-004	45-44'45"N	69-16'45"W	17OCT84
	BRACEY POND	1E1-060	44-57'45"N	68-07'20"W	21OCT84
	BRANNS MILL POND	1E3-038	45-06'30"N	69-10'00"W	19OCT84
	BRETTUNS POND	1E2-054	44-23'30"N	70-15'00"W	24OCT84
	BURNHAM POND	1E3-035	45-32'30"N	69-43'00"W	17OCT84
	CAIN POND	1E3-062	44-29'32"N	68-58'03"W	23OCT84
	CARRY POND	1E3-071	46-20'43"N	68-35'45"W	15OCT84
	CASSIDY DEADWATER	1E2-057	45-58'38"N	69-37'34"W	17OCT84
	CLARKSON POND	1E2-014	46-25'20"N	69-28'00"W	16OCT84
	CLEAR POND	1C1-021	45-06'30"N	69-59'15"W	19OCT84
	CLIFFORD POND	1E1-105	45-50'06"N	69-05'37"W	17OCT84
	CLISH POND	1E3-065	46-01'09"N	70-15'30"W	17OCT84
	CRAIG POND	1E1-074	44-35'00"N	68-40'00"W	22OCT84
	CRANBERRY POND	1C1-023	44-51'30"N	70-56'55"W	18OCT84
	CRESCENT POND	1E2-058	46-25'34"N	69-36'35"W	16OCT84
	CRESENT (RATTLESNAKE) L.	1E1-084	43-58'30"N	70-27'30"W	29OCT84
	CROOKED BROOK LAKE	1E1-036	45-33'00"N	67-43'15"W	21OCT84
	CROOKED POND	1E1-103	45-21'10"N	68-26'35"W	21OCT84
	DAN CHARLES POND	1C2-065	44-10'53"N	70-49'35"W	25OCT84
	DECKER PONDS (EASTERN)	1C1-018	45-11'45"N	69-56'15"W	19OCT84
	DENNY POND	1E3-012	46-56'45"N	68-52'15"W	16OCT84
	DEPOT LAKE	1E3-014	46-46'30"N	69-49'45"W	16OCT84
	DOLBY POND (NORTHERN)	1E1-031	45-41'00"N	68-37'30"W	17OCT84
	DOUGHNUT POND	1E1-108	45-48'34"N	69-07'24"W	17OCT84
	DRURY POND	1C2-056	44-42'15"N	70-14'30"W	24OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MAINE (cont)	DUCK LAKE	1E1-054	45-09'00"N	68-06'00"W	21OCT84
	DUNDEE POND	1E2-055	43-47'18"N	70-27'17"W	29OCT84
	DYER LONG POND	1E1-083	44-11'00"N	69-31'30"W	23OCT84
	EBEEMEE LAKE	1E1-038	45-25'30"N	69-00'30"W	19OCT84
	EDDY POND	1C1-002	44-55'15"N	70-31'32"W	18OCT84
	ELM POND	1E2-011	46-01'30"N	69-48'30"W	17OCT84
	FAIRBANKS POND	1E2-007	44-23'21"N	69-49'52"W	24OCT84
	FIRST POND	1E1-123	44-22'10"N	68-36'00"W	22OCT84
	FISH RIVER LAKE	1E3-013	46-50'00"N	68-46'45"W	16OCT84
	FITTS POND	1E1-126	44-45'47"N	68-33'21"W	21OCT84
	FOREST POND	1E2-010	43-59'50"N	69-21'15"W	23OCT84
	FOURTH DAVIS POND	1E1-011	45-15'30"N	69-23'40"W	19OCT84
	FOURTH ROACH POND	1E1-006	45-38'30"N	69-15'00"W	19OCT84
	FROST POND	1E1-024	45-54'30"N	69-11'15"W	17OCT84
	FULTON LAKE	1E1-066	44-51'00"N	67-33'30"W	21OCT84
	GARDNER POND	1E1-023	46-04'28"N	68-39'54"W	16OCT84
	GEORGE POND	1E1-068	44-44'15"N	68-38'00"W	21OCT84
	GEORGES POND	1E1-073	44-37'00"N	68-14'30"W	23OCT84
	GETCHEL LAKES (NORTHERN)	1E1-056	45-08'00"N	67-52'40"W	21OCT84
	GLAZIER LAKE	1E3-006	47-13'40"N	69-00'00"W	15OCT84
	GRASS POND	1C1-016	45-18'30"N	70-05'30"W	19OCT84
	GRASSY POND(SPRINGY POND)	1E1-069	44-45'30"N	68-29'30"W	22OCT84
	GREAT POND	1E1-092	44-36'03"N	68-17'00"W	22OCT84
	GREEN POND	1E2-019	46-09'00"N	68-24'15"W	15OCT84
	GREENWOOD POND	1E1-106	45-32'07"N	69-13'58"W	17OCT84
	GROSS POND	1E2-049	44-03'30"N	69-23'35"W	23OCT84
	HALFMILE POND	1E1-128	44-50'59"N	68-25'47"W	21OCT84
	HANCOCK POND	1C2-064	44-57'20"N	69-59'10"W	18OCT84
	HANSEN POND	1C3-034	43-35'45"N	70-54'30"W	29OCT84
	HEDGEHOG POND	1E1-116	45-28'45"N	69-24'45"W	19OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MAINE (cont)	HOBART BOG	1E1-118	44-51'02"N	67-15'22"W	21OCT84
	HOPKINS POND	1E1-012	44-47'30"N	68-27'15"W	21OCT84
	HORSESHOE POND	1C1-028	44-35'27"N	70-40'00"W	24OCT84
	HORSESHOE POND	1C3-007	45-27'30"N	69-56'00"W	19OCT84
	HUNT POND	1C1-031	44-05'00"N	71-00'00"W	25OCT84
	HUTCHINSON POND	1E2-053	44-15'52"N	69-52'21"W	24OCT84
	IRON POND	1C2-002	45-27'30"N	70-22'30"W	19OCT84
	JESSIE POND	1C2-009	44-44'52"N	70-15'04"W	24OCT84
	JIMMIES POND	1E1-091	44-58'04"N	68-09'38"W	21OCT84
	JOE POND	1E2-067	44-24'26"N	69-49'25"W	24OCT84
	JOSH POND	1E1-089	44-46'45"N	67-18'30"W	21OCT84
	JOYS POND	1E2-051	44-13'20"N	69-40-02"W	24OCT84
	KALERS POND	1E2-063	44-06'29"N	69-25'22"W	23OCT84
	KEG LAKE	1E1-047	45-19'30"N	68-03'15"W	21OCT84
	KENNEBUNK POND	1E1-088	43-30'15"N	70-39'00"W	30OCT84
	LILY BOG	1E2-061	45-03'25"N	69-31'58"W	19OCT84
	LILY PAD POND	1E1-018	45-52'35"N	69-02'30"W	16OCT84
	LILY POND	1E1-117	43-58'57"N	70-19'02"W	29OCT84
	LITTLE DIMMICK POND	1C1-019	45-13'45"N	69-52'30"W	19OCT84
	LITTLE FISH POND	1C3-005	45-32'48"N	70-28'37"W	18OCT84
	LITTLE HATCASE POND	1E1-071	44-42'10"N	68-31'30"W	21OCT84
	LITTLE INDIAN POND	1E3-024	46-15'41"N	69-14'21"W	16OCT84
	LITTLE JIM POND	1C1-015	45-17'00"N	70-27'30"W	18OCT84
	LITTLE LEADBETTER POND	1E3-027	46-14'45"N	69-11'45"W	16OCT84
	LITTLE MEDOMAK LAKE	1E2-048	44-11'25"N	69-20'30"W	23OCT84
	LITTLE POND	1C2-069	43-57'40"N	70-48'52"W	25OCT84
	LITTLE POND	1E1-122	44-23'34"N	69-19'14"W	23OCT84
	LITTLE POND	1E3-046	44-23'15"N	69-11'50"W	23OCT84
	LITTLE ROUND POND	1E1-046	45-18'48"N	68-26'55"W	21OCT84
	LITTLE SEAVEY LAKE	1E1-061	44-56'15"N	67-38'00"W	21OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MAINE (cont)	LONG LAKE	1E3-030	46-06'40"N	68-07'30"W	15OCT84
	LONG POND	1E1-062	44-55'00"N	68-16'11"W	21OCT84
	LONG POND	1E1-101	44-02'15"N	68-36'40"W	23OCT84
	LONG POND	1E1-111	44-32'02"N	68-10'13"W	23OCT84
	LONGFELLOW LAKE	1E3-069	45-45'58"N	67-51'07"W	21OCT84
	LOST POND	1E2-004	46-13'00"N	69-20'50"W	16OCT84
	LOWER HADLOCK POND	1E1-124	44-18'36"N	68-17'26"W	22OCT84
	LOWER JO-MARY LAKE	1E1-030	45-41'00"N	69-00'00"W	17OCT84
	LOWER OXBROOK LAKE	1E1-050	45-17'00"N	67-50'30"W	21OCT84
	LOWER SABAGO LAKE	1E1-058	45-00'00"N	68-01'30"W	21OCT84
	LT.GREENWOOD POND (WEST)	1E1-040	45-22'00"N	69-24'30"W	17OCT84
	LUFKIN POND	1C1-088	44-50'25"N	70-27'46"W	18OCT84
	MCCLURE POND	1E3-045	44-29'00"N	68-57'50"W	23OCT84
	MCLEAN LAKE	1E3-070	47-06'25"N	68-52'15"W	15OCT84
	MEADOW POND	1E1-078	44-21'25"N	68-54'00"W	23OCT84
	MIDDLE CHAIN LAKE	1E1-096	45-13'11"N	68-04'45"W	21OCT84
	MILLINOCKET LAKE	1E1-028	45-45'00"N	68-47'00"W	17OCT84
	MILLINOCKET LAKE	1E3-060	46-18'10"N	68-52'30"W	15OCT84
	MOODY POND	1E3-048	44-17'35"N	69-08'45"W	23OCT84
	MOOSE POND	1E2-037	44-28'30"N	69-58'00"W	24OCT84
	MORRELL POND	1E3-072	46-12'54"N	68-48'13"W	16OCT84
	MOSHER POND	1E3-044	44-28'30"N	70-06'30"W	24OCT84
	MOUNTAIN POND	1E3-018	46-33'30"N	69-00'40"W	15OCT84
	MUD POND	1C2-011	44-17'30"N	70-39'00"W	25OCT84
	MUD POND	1C3-006	45-31'20"N	70-40'49"W	18OCT84
	NELSON POND	1E2-038	44-24'55"N	70-15'45"W	24OCT84
	NOKOMIS POND	1E3-040	44-52'15"N	69-18'00"W	19OCT84
	NORTH POND	1C1-029	44-24'15"N	70-40'30"W	25OCT84
	NORTHEAST POND	1E2-039	44-20'30"N	70-21'15"W	24OCT84
	NORTHWEST POND	1C2-018	43-34'45"N	70-47'45"W	29OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MAINE (cont)	NUMBER NINE LAKE	1E3-022	46-25'00"N	68-03'00"W	15OCT84
	OLAMON POND	1E1-057	45-01'40"N	68-23'40"W	21OCT84
	ORANGE LAKE	1E1-090	44-46'10"N	67-15'00"W	21OCT84
	OTTER POND	1E1-055	45-05'52"N	69-41'35"W	19OCT84
	OTTER POND	1E3-002	46-22'28"N	68-21'30"W	15OCT84
	PALMER POND	1E1-053	45-10'00"N	69-43'50"W	19OCT84
	PARKER POND	1E1-077	44-22'20"N	68-42'30"W	22OCT84
	PEABODY POND	1E2-056	43-56'32"N	70-41'13"W	25OCT84
	PEAKED MOUNTAIN POND	1E1-102	46-00'43"N	68-38'10"W	16OCT84
	PEEP LAKE	1E1-009	44-54'30"N	67-53'30"W	21OCT84
	PLEASANT LAKE	1E2-029	45-04'00"N	67-29'00"W	21OCT84
	PLEASANT LAKE	1E3-031	46-01'30"N	68-10'00"W	15OCT84
	POLAND POND	1E2-062	46-15'35"N	69-35'30"W	16OCT84
	POSSUM LAKE	1E1-059	45-01'00"N	67-41'45"W	21OCT84
	QUIMBY POND	1C2-068	44-59'27"N	70-44'31"W	18OCT84
	RAYMOND POND	1E1-015	43-58'00"N	70-25'45"W	30OCT84
	RICH MILL POND	1E2-046	43-47'30"N	70-34'30"W	29OCT84
	RICHARDSON POND	1C2-005	44-55'30"N	70-55'00"W	18OCT84
	ROBERTS POND	1E3-033	46-03'30"N	70-16'05"W	17OCT84
	ROBINSON POND	1E2-023	46-01'45"N	69-57'30"W	17OCT84
	ROCKY LAKE	1E1-100	44-51'46"N	67-27'30"W	21OCT84
	RODERIQUE POND	1C3-003	45-39'15"N	69-55'40"W	17OCT84
	ROSS POND	1E2-071	43-55'20"N	69-29'40"W	23OCT84
	ROUND LAKE	1E2-030	45-01'00"N	67-16'00"W	21OCT84
	ROUND POND	1E2-016	46-14'30"N	69-33'45"W	16OCT84
	ROUND POND	1E2-047	44-12'15"N	69-17'30"W	23OCT84
	ROUND POND	1E3-015	46-46'00"N	69-16'00"W	16OCT84
	ROUND POND	1E3-041	44-44'20"N	69-13'30"W	24OCT84
	SAFFORD POND	1C1-022	45-00'00"N	70-06'30"W	18OCT84
	SALMON STREAM LAKE	1E1-029	45-43'30"N	68-29'09"W	17OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MAINE (cont)	SAND POND	1E3-042	44-34'10"N	70-07'10"W	24OCT84
	SANDY RIVER PONDS (MID)	1C1-008	44-53'50"N	70-33'30"W	18OCT84
	SCHOODIC LAKE	1E1-072	44-41'45"N	67-53'30"W	22OCT84
	SEAVEY LAKE	1E1-063	44-54'20"N	67-37'30"W	21OCT84
	SEBAGO LAKE	1E2-045	43-50'00"N	70-30'00"W	29OCT84
	SECOND CHAIN LAKE	1E1-022	45-00'00"N	67-44'00"W	21OCT84
	SECOND CURRIER POND	1E3-057	46-24'55"N	69-06'31"W	16OCT84
	SECOND DEBSCONEAG LAKE	1E1-020	45-46'45"N	69-02'30"W	17OCT84
	SECOND MUSQUACOOK LAKE	1E2-012	46-38'00"N	69-10'30"W	16OCT84
	SEWELL POND	1E1-086	43-52'15"N	69-46'52"W	23OCT84
	SHIRLEY POND	1E1-109	45-22'06"N	69-37'17"W	19OCT84
	SIX PONDS	1E1-010	46-00'30"N	68-55'30"W	16OCT84
	SMITH POND	1E1-129	45-03'44"N	69-42'43"W	19OCT84
	SOPER POND	1E3-056	46-22'28"N	69-13'47"W	16OCT84
	SOUTH POND	1C1-003	44-52'00"N	70-33'30"W	18OCT84
	SOUTH POND	1E1-044	45-20'30"N	69-27'25"W	17OCT84
	SPAULDING LAKE	1E3-068	46-06'24"N	68-06'15"W	15OCT84
	SPECTACLE POND	1C1-013	45-20'00"N	70-27'30"W	18OCT84
	SPECTACLE POND	1E1-067	44-45'00"N	68-13'00"W	22OCT84
	SPRING LAKE	1E1-052	45-13'00"N	68-13'00"W	21OCT84
	SPRING POND	1E3-025	46-18'15"N	69-02'45"W	16OCT84
	ST. FROID LAKE	1E3-011	46-57'00"N	68-37'00"W	16OCT84
	STEARNS POND	1C3-060	44-07'20"N	70-46'38"W	25OCT84
	STEVENS POND	1E1-082	44-22'00"N	69-18'00"W	23OCT84
	SUGAR BERTH POND	1C3-004	45-38'30"N	70-21'00"W	19OCT84
	SUMMIT POND	1E2-052	46-01'40"N	69-52'50"W	17OCT84
	TARBOX POND	1E2-070	46-11'42"N	69-31'50"W	16OCT84
	TARKILL POND	1E2-065	43-50'36"N	70-25'58"W	29OCT84
	TEN THOUSAND ACRE POND	1C1-011	45-30'20"N	69-57'30"W	19OCT84
	THOMPSON LAKE	1E2-043	44-06'00"N	70-30'00"W	25OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MAINE (cont)	THREE MILE POND	1E3-052	44-22'02"N	69-36'16"W	23OCT84
	THURSTON POND	1E1-070	44-40'00"N	68-43'30"W	23OCT84
	TOBEY POND	1C1-077	45-26'42"N	69-59'10"W	19OCT84
	TOGUE POND	1E3-055	46-56'02"N	68-53'31"W	16OCT84
	TOM YOUNG POND	1E3-067	45-45'44"N	69-35'28"W	19OCT84
	TOMHEGAN POND	1E2-027	45-48'00"N	69-53'30"W	17OCT84
	TORREY POND	1E1-014	44-14'35"N	68-39'00"W	22OCT84
	TRAFTON POND	1C2-016	43-50'45"N	70-53'30"W	25OCT84
	TRIPP POND	1E2-044	44-03'00"N	70-26'00"W	25OCT84
	TROUT POND	1E1-034	45-28'35"N	69-23'30"W	19OCT84
	UNKNOWN POND	1C3-069	45-36'15"N	70-38'04"W	18OCT84
	UP. COLD STREAM PONDS (E)	1E1-113	45-18'13"N	68-27'02"W	21OCT84
	UPPER HADLOCK POND	1E1-079	44-19'20"N	68-17'15"W	22OCT84
	UPPER OXHEAD POND	1E1-097	45-04'55"N	68-15'16"W	21OCT84
	UPPER PIERCE POND	1C1-075	45-18'05"N	70-06'09"W	19OCT84
	WARREN POND	1C3-067	43-13'37"N	70-43'40"W	30OCT84
	WEBSTER LAKE	1E2-018	46-09'30"N	69-05'00"W	16OCT84
	WEED POND	1E1-017	46-02'00"N	68-52'30"W	16OCT84
	WELHERN POND	1C1-017	45-12'45"N	70-29'40"W	18OCT84
	WEST POND	1C2-060	43-45'15"N	70-52'30"W	29OCT84
	WESTERN LAKE	1E2-059	45-04'20"N	67-10'22"W	21OCT84
	WEYMOUTH POND	1E3-039	44-58'15"N	69-19'30"W	19OCT84
	WHEELOCK LAKE	1E3-007	47-12'00"N	68-43'00"W	15OCT84
	WHETSTONE POND	1E1-051	45-13'00"N	69-33'30"W	19OCT84
	WIGHT POND	1E1-076	44-28'15"N	68-40'30"W	22OCT84
	WILEY POND	1E2-060	46-00'04"N	68-32'26"W	16OCT84
	WILSON HILL POND	1C1-012	45-25'58"N	69-58'12"W	19OCT84
MASSACHUSETTS	(NO NAME)	1C3-062	42-36'50"N	71-38'18"W	01NOV84
	(NO NAME)	1D1-011	42-03'00"N	73-13'15"W	08NOV84
	(NO NAME)	1D1-029	41-54'15"N	70-51'30"W	06NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MASSACHUSETTS (cont)	(NO NAME)	1D2-091	42-00'04"N	70-53'35"W	13NOV84
	(NO NAME)	1D3-015	42-12'20"N	70-58'35"W	04NOV84
	ALTHEA LAKE	1C3-048	42-40'10"N	71-22'50"W	31OCT84
	AMES POND	1D2-006	42-29'52"N	72-25'09"W	03NOV84
	ASHLAND RESERVOIR	1D2-093	42-14'22"N	71-27'52"W	08NOV84
	ASHLEY POND	1D3-016	42-10'00"N	72-40'00"W	08NOV84
	BENEDICT POND	1D2-013	42-12'15"N	73-17'15"W	07NOV84
	BERKSHIRE POND	1C3-020	42-30'15"N	73-11'50"W	07NOV84
	BIG STATION POND	1D2-055	41-32'56"N	70-00'23"W	06NOV84
	BOONS POND	1D2-003	42-24'12"N	71-30'08"W	04NOV84
	BORDEN BROOK RESERVOIR	1D1-055	42-07'47"N	72-56'45"W	08NOV84
	CAHOON POND	1D2-078	41-43'32"N	70-02'07"W	06NOV84
	CHARGE POND	1D1-036	41-49'00"N	70-40'30"W	07NOV84
	CHEBACCO LAKE	1D3-063	42-36'47"N	70-48'30"W	31OCT84
	COY POND	1D3-065	42-35'32"N	70-49'22"W	31OCT84
	CROCKER POND	1D3-004	42-31'40"N	71-51'15"W	08NOV84
	CROCKER POND	1D3-024	42-04'00"N	71-17'45"W	04NOV84
	CUSKY POND	1D2-087	42-19'25"N	72-05'32"W	03NOV84
	DARK BROOK RESERVOIR	1D3-017	42-11'30"N	71-51'45"W	08NOV84
	DEAN POND	1D1-007	42-20'45"N	72-01'30"W	08NOV84
	DYKES POND.	1D3-002	42-36'15"N	70-43'46"W	31OCT84
	EZEKIEL POND	1D1-037	41-48'15"N	70-36'45"W	07NOV84
	FLAX POND	1D1-039	41-43'00"N	70-11'20"W	06NOV84
	FLAX POND	1D2-029	41-41'20"N	70-35'45"W	07NOV84
	FORGE POND	1D2-023	41-55'05"N	70-36'40"W	12NOV84
	FRESH MEADOW POND	1D1-030	41-55'12"N	70-44'30"W	12NOV84
	GIBBS POND	1D2-043	41-16'25"N	70-01'00"W	06NOV84
	GOOSE POND	1D1-012	42-00'30"N	72-46'37"W	08NOV84
	GOOSE POND	1D2-012	42-17'00"N	73-12'00"W	07NOV84
	GOOSE POND	1D2-084	41-41'38"N	70-00'28"W	06NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MASSACHUSETTS (cont)	GORE POND	1D2-010	42-05'00"N	71-57'00"W	08NOV84
	GREAT PONDS (SOUTHERN)	1D3-008	42-23'30"N	72-36'22"W	08NOV84
	GREENWOOD POND	1D2-005	42-33'15"N	71-57'15"W	08NOV84
	GUSHEE POND	1D3-028	41-56'30"N	71-01'45"W	04NOV84
	HALFWAY POND	1D1-035	41-51'15"N	70-37'15"W	12NOV84
	HAMBLIN POND	1D2-076	41-40'04"N	70-24'35"W	07NOV84
	HAMILTON RESERVOIR	1D1-014	42-02'19"N	72-09'16"W	03NOV84
	HOVEYS POND	1C3-061	42-43'05"N	71-04'37"W	31OCT84
	ISLAND POND	1D1-033	41-54'00"N	70-38'30"W	12NOV84
	JOHNSONS POND	1C3-047	42-43'45"N	71-03'15"W	31OCT84
	KENDALL RESERVOIR	1D1-008	42-20'30"N	71-53'30"W	12NOV84
	KENOZA LAKE	1C3-045	42-47'15"N	71-03'30"W	31OCT84
	KINGS POND	1D1-031	41-54'40"N	70-42'15"W	12NOV84
	LAKE GEORGE	1D3-023	42-03'30"N	72-13'20"W	03NOV84
	LAKE WAMPONOAG	1C2-054	42-37'02"N	71-57'45"W	08NOV84
	LARKUM POND	1D1-009	42-09'50"N	73-03'30"W	07NOV84
	LINCOLN POND	1C1-068	42-40'10"N	71-54'45"W	03NOV84
	LITTLE ALUM POND	1D3-020	42-07'45"N	72-09'15"W	03NOV84
	LITTLE HERRING POND	1D1-038	41-49'30"N	70-34'30"W	07NOV84
	LITTLE QUITTACAS POND	1D2-025	41-47'30"N	70-55'00"W	06NOV84
	LITTLE SANDY POND	1D1-068	41-47'47"N	70-36'13"W	07NOV84
	LITTLE WEST POND	1D1-056	41-55'17"N	70-42'24"W	12NOV84
	LONG POND	1D2-059	41-56'40"N	70-00'20"W	06NOV84
	MAQUAN POND	1D2-017	42-03'45"N	70-51-10"W	13NOV84
	MASSAPOAG LAKE	1D2-015	42-06'15"N	71-10'30"W	04NOV84
	MICAH POND	1D2-036	41-38'20"N	70-22'45"W	07NOV84
	MOORES POND	1C2-050	42-39'20"N	72-20'50"W	03NOV84
	MOREY HOLE	1D2-060	41-52'03"N	70-33'29"W	07NOV84
	NEWFIELD POND	1C3-050	42-38'00"N	71-23'20"W	31OCT84
	PACKARD POND	1C1-070	42-38'00"N	72-14'00"W	03NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MASSACHUSETTS (cont)	PATTAQUATTIC POND	1D2-065	42-12'45"N	72-18'39"W	03NOV84
	PELHAM LAKE	1C3-030	42-42'00"N	72-53'30"W	07NOV84
	PLASHES POND	1D2-031	41-40'15"N	70-13'15"W	07NOV84
	PONTOOSUC LAKE	1C3-073	42-30'00"N	73-15'00"W	07NOV84
	QUABBIN RESERVOIR	1D1-004	42-25'00"N	72-17'30"W	03NOV84
	QUEEN LAKE	1D1-003	42-32'00"N	72-07'00"W	08NOV84
	ROBBINS POND	1D1-046	41-42'20"N	70-06'40"W	06NOV84
	ROCKY POND	1D1-034	41-53'10"N	70-41'45"W	12NOV84
	ROUND POND	1D1-061	41-51'08"N	70-36'17"W	07NOV84
	SANDY POND	1D2-027	41-46'20"N	70-39'15"W	07NOV84
	SANDY POND	1D3-003	42-33'45"N	71-33'15"W	31OCT84
	SANTUIT POND	1D1-062	41-39'14"N	70-27'30"W	07NOV84
	SHALLOW POND	1D2-030	41-40'30"N	70-19'30"W	07NOV84
	SHALLOW POND	1D2-053	41-36'33"N	70-35'10"W	07NOV84
	SIBLEY PONDS (NORTHERN)	1D2-009	42-09'00"N	72-00'37"W	03NOV84
	SNOW POND	1D1-064	42-26'54"N	71-50'50"W	08NOV84
	SNOWS POND	1D2-094	41-45'30"N	70-51'10"W	06NOV84
	SPECTACLE POND	1D1-043	41-42'15"N	70-27'30"W	07NOV84
	STETSON POND	1D2-074	42-01'40"N	70-49'39"W	13NOV84
	STEVENS POND	1D3-001	42-41'00"N	70-59'55"W	31OCT84
	STONY BROOK POND	1D2-077	42-06'34"N	71-19'17"W	04NOV84
	STREETER POND	1D1-052	42-20'11"N	71-54'33"W	12NOV84
	STUART POND	1D3-006	42-29'00"N	71-49'45"W	08NOV84
	SWANS POND	1D3-088	42-07'25"N	71-42'10"W	08NOV84
	THE RESERVOIR	1D2-024	41-51'45"N	70-56'30"W	06NOV84
	UPPER MILLPOND	1D1-054	41-43'51"N	70-07'00"W	06NOV84
	WARREN UPPER RESERVOIR	1D3-031	41-49'45"N	71-13'15"W	04NOV84
	WATCHA POND	1D2-064	41-21'17"N	70-36'47"W	06NOV84
	WEST LAKE	1D3-019	42-08'00"N	73-09'45"W	07NOV84
	WESTBORO RESERVOIR	1D3-068	42-14'27"N	71-36'22"W	08NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MASSACHUSETTS (cont)	WESTEND POND	1D2-040	41-27'45"N	70-47'45"W	06NOV84
	WHITE POND	1D1-060	41-42'07"N	70-08'02"W	06NOV84
	WHITE POND	1D2-081	42-23'28"N	71-28'52"W	04NOV84
	WHITEHALL POND	1D1-006	42-22'15"N	71-59'45"W	03NOV84
	WINGS POND	1D2-034	41-37'36"N	70-37'35"W	07NOV84
MICHIGAN	(NO NAME)	2B1-038	46-30'42"N	86-09'10"W	20OCT84
	(NO NAME)	2B2-010	46-52'29"N	88-52'07"W	03NOV84
	(NO NAME)	2B2-012	46-50'32"N	88-52'10"W	03NOV84
	(NO NAME)	2B2-018	46-39'51"N	88-09'37"W	14OCT84
	(NO NAME)	2B2-024	46-38'05"N	88-12'32"W	14OCT84
	(NO NAME)	2B2-032	46-35'15"N	88-09'00"W	14OCT84
	(NO NAME)	2B2-052	46-36'49"N	88-15'16"W	14OCT84
	(NO NAME)	2B2-054	46-39'37"N	88-12'00"W	14OCT84
	(NO NAME)	2B2-055	46-28'05"N	86-11'30"W	20OCT84
	(NO NAME)	2B2-060	46-55'19"N	88-48'30"W	18OCT84
	(NO NAME)	2B2-061	46-35'38"N	88-08'30"W	14OCT84
	(NO NAME)	2B2-064	46-35'09"N	87-57'27"W	14OCT84
	(NO NAME)	2B2-082	46-51'41"N	88-50'48"W	03NOV84
	(NO NAME)	2B2-087	46-31'53"N	85-36'07"W	23OCT84
	(NO NAME)	2B3-055	46-15'52"N	86-39'37"W	25OCT84
	(NO NAME)	2B3-067	47-55'15"N	88-59'00"W	20OCT84
	ALLEN LAKE	2C2-011	46-13'30"N	89-10'25"W	04NOV84
	ANDERSON LAKE	2B3-032	46-13'22"N	87-29'30"W	16OCT84
	BALCOMB LAKE	2C1-001	46-23'02"N	88-57'15"W	03NOV84
	BASS LAKE	2B2-043	46-27'50"N	85-43'00"W	24OCT84
	BASS LAKE	2B3-016	46-31'44"N	88-08'33"W	14OCT84
	BASS LAKE	2C3-022	46-02'45"N	88-46'15"W	25OCT84
	BASS LAKE	2D3-049	44-48'06"N	84-53'01"W	22OCT84
	BEAVERTOWN LAKES (LG.MID)	2B2-076	46-34'18"N	85-44'20"W	24OCT84
	BIG BEAR LAKE	2B2-063	46-37'54"N	88-04'55"W	17OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MICHIGAN (cont)	BLUE LAKE	2D3-056	44-44'47"N	85-09'30"W	22OCT84
	BOHMIER LAKE	2B2-078	46-50'05"N	88-52'47"W	03NOV84
	BONE LAKE	2B3-023	46-22'30"N	88-18'22"W	14OCT84
	BUTO LAKE	2B3-020	46-26'44"N	87-59'45"W	16OCT84
	CAMP 10 LAKE	2B3-075	46-40'55"N	88-09'30"W	14OCT84
	CASEY LAKE	2B3-027	46-17'20"N	87-55'00"W	16OCT84
	CASTLE LAKE	2C1-057	46-18'56"N	89-04'27"W	03NOV84
	CATARACT BASIN	2B3-028	46-18'50"N	87-31'00"W	16OCT84
	CLAIR LAKE	2B2-026	46-37'32"N	88-11'25"W	14OCT84
	CLEAR SLOUGH	2B3-043	46-02'25"N	86-12'30"W	24OCT84
	CLIFF LAKE	2B3-004	46-50'54"N	87-58'24"W	17OCT84
	CLIFFORD LAKE	2D3-046	45-01'40"N	84-38'10"W	22OCT84
	CLYDE LAKE	2B1-060	46-32'30"N	86-10'00"W	20OCT84
	CORNELIA LAKE	2C3-006	46-16'05"N	89-30'10"W	04NOV84
	CORNER LAKE	2B2-084	46-40'50"N	88-04'30"W	17OCT84
	CRANBERRY LAKE	2B2-049	46-27'06"N	86-11'02"W	20OCT84
	CROOKED LAKE	2B2-067	46-36'11"N	88-09'21"W	14OCT84
	CROOKED LAKE	2C3-012	46-13'53"N	89-17'17"W	04NOV84
	DAM LAKE	2B3-036	46-10'57"N	86-43'15"W	25OCT84
	DEADMAN LAKE	2B1-055	46-32'41"N	86-03'00"W	23OCT84
	DEADMANS LAKE	2B2-051	46-26'26"N	85-41'47"W	23OCT84
	DEER LAKE	2B2-091	46'30'25"N	86-14'35"W	20OCT84
	DEER LAKE	2B3-003	47-21'15"N	88-02'15"W	18OCT84
	DELENE LAKE	2B2-098	46-32'29"N	88-24'19"W	17OCT84
	DEVILS HEAD LAKE	2C2-057	46-12'55"N	89-14'30"W	04NOV84
	DINNER LAKE	2C2-017	46-12'00"N	89-08'00"W	04NOV84
	DISHNO LAKE	2B2-031	46-37'30"N	87-55'53"W	13OCT84
	DONKEN LAKE	2B2-009	46-55'53"N	88-47'58"W	18OCT84
	EAST LAKE	2B3-018	46-31'53"N	85-59'20"W	23OCT84
	EATON LAKE	2D3-044	45-10'00"N	85-16'15"W	22OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MICHIGAN (cont)	ELEVENMILE LAKE	2B2-090	47-00'57"N	88-42'30"W	18OCT84
	ESTES LAKE	2B1-031	46-33'31"N	88-45'18"W	03NOV84
	EVERGREEN LAKE	2B2-095	46-42'39"N	88-02'09"W	17OCT84
	EWATT LAKE	2B1-068	46-33'00"N	86-10'48"W	20OCT84
	FAWN LAKE	2B2-083	46-30'02"N	86-17'49"W	20OCT84
	FOREST LAKE	2C1-004	46-19'35"N	88-57'05"W	03NOV84
	FOX LAKE	2B3-013	46-35'32"N	86-02'04"W	20OCT84
	FRENCHMANS LAKE	2B3-052	46-21'42"N	85-21'00"W	23OCT84
	FULLER LAKE	2B1-063	46-35'15"N	88-47'05"W	03NOV84
	GIBSON LAKE	2D3-023	46-11'59"N	88-26'35"W	03NOV84
	GINSEL LAKE	2D3-047	44-59'32"N	84-29'52"W	22OCT84
	GOPHER LAKE	2B1-061	46-31'12"N	86-03'30"W	23OCT84
	GRAND SABLE LAKE	2B3-009	46-38'15"N	86-02'30"W	20OCT84
	GRASS LAKE	2B3-061	46-14'17"N	85-23'28"W	22OCT84
	GUDEGAST LAKE	2C2-016	46-10'08"N	89-09'27"W	04NOV84
	GUIDES LAKE	2C3-011	46-14'20"N	89-27'40"W	04NOV84
	HALL LAKE	2B2-008	46-59'40"N	88-45'34"W	18OCT84
	HASSCIB LAKE	2B2-065	46-37'56"N	88-01'25"W	17OCT84
	HAWK LAKE	2C3-002	46-19'10"N	89-44'15"W	06NOV84
	HEART LAKE	2C2-001	46-21'20"N	89-44'45"W	06NOV84
	HERBERT LAKE	2B2-100	46-39'00"N	88-06'25"W	17OCT84
	HILLTOP LAKE	2C2-010	46-14'22"N	89-14'00"W	04NOV84
	HONEYSUCKLE LAKE	2C2-002	46-16'12"N	89-43'32"W	09OCT84
	INKPOT LAKE	2C3-053	46-13'44"N	89-30'21"W	04NOV84
	ISHKOTE LAKE	2C1-010	46-07'25"N	88-59'30"W	10OCT84
	ISLAND LAKE	2B3-007	46-40'18"N	87-47'10"W	13OCT84
	ISLAND LAKE	2B3-030	46-16'05"N	86-38'51"W	25OCT84
	JACKSON LAKE	2D3-045	45-05'10"N	84-09'40"W	22OCT84
	JOHNS LAKES (WESTERN)	2B3-051	46-31'50"N	85-54'16"W	23OCT84
	JOHNSON LAKE	2B1-047	46-25'30"N	85-02'38"W	22OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MICHIGAN (cont)	KETCHUM LAKE	2C3-007	46-16'10"N	88-49'50"W	03NOV84
	KING LAKE	2B2-016	46-31'14"N	88-24'30"W	17OCT84
	KLONDIKE LAKE	2B3-034	46-13'18"N	86-30'10"W	25OCT84
	KUJAWA LAKE	2D3-066	44-59'29"N	84-26'47"W	22OCT84
	LAKE ANNIE	2B3-058	47-10'39"N	88-35'25"W	18OCT84
	LAKE EVA	2B2-034	47-01'15"N	88-45'52"W	18OCT84
	LAKE GOGEBIC	2C3-001	46-30'00"N	89-35'00"W	04NOV84
	LAKE GORDON	2B2-020	46-41'53"N	88-02'16"W	17OCT84
	LAKE NITA	2B1-035	46-33'00"N	86-03'51"W	20OCT84
	LAKE RAYMOND	2B2-097	46-39'38"N	87-58'25"W	14OCT84
	LAKE THERESA	2B3-001	48-02'05"N	88-37'50"W	20OCT84
	LAMBERT LAKE	2B1-066	46-30'33"N	86-05'08"W	20OCT84
	LAURIE LAKES (SE)	2B3-014	46-35'49"N	85-04'30"W	23OCT84
	LITTLE WHITE GOAT LAKE	2B2-029	46-35'56"N	88-04'16"W	17OCT84
	LOG LAKE	2B2-033	46-35'15"N	87-55'45"W	13OCT84
	LOIS LAKE	2C2-051	46-11'52"N	89-15'00"W	04NOV84
	LONG LAKE	2B1-042	46-30'08"N	86-05'17"W	20OCT84
	LONG LAKE	2B3-022	46-27'28"N	85-49'02"W	23OCT84
	LOST LAKE	2B3-005	46-44'03"N	88-21'42"W	17OCT84
	MALLARD LAKE	2B1-064	46-33'51"N	86-06'36"W	20OCT84
	MARION LAKE	2C2-008	46-15'52"N	89-05'15"W	03NOV84
	MARKEY LAKE	2B1-029	46-34'22"N	88-46'55"W	03NOV84
	MARSH LAKE	2C2-015	46-11'20"N	89-15'00"W	04NOV84
	MCDONALD LAKE	2B3-077	45-59'00"N	85-58'28"W	24OCT84
	MCNEARNEY LAKE	2B1-048	46-25'35"N	84-57'30"W	22OCT84
	MICHIGAMME BASIN	2B3-070	46-23'36"N	87-59'19"W	16OCT84
	MOCCASIN LAKE	2C3-010	46-14'06"N	89-30'45"W	04NOV84
	MUD LAKE	2B3-062	46-16'38"N	84-30'08"W	22OCT84
	NELLIGAN LAKE	2B3-079	46-33'50"N	88-08'07"W	14OCT84
	NELSON LAKE	2B3-035	46-13'42"N	85-22'50"W	22OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MICHIGAN (cont)	NUGENT LAKE	2B1-036	46-31'42"N	86-11'38"W	20OCT84
	OPAL LAKE	2C2-012	46-15'00"N	89-07'45"W	03NOV84
	OSTRANDER LAKE	2B3-071	46-10'05"N	86-36'43"W	25OCT84
	OTTER LAKE	2B2-038	46-35'45"N	85-39'32"W	24OCT84
	OWL LAKE	2B1-043	46-30'24"N	86-04'20"W	20OCT84
	PAINT LAKE	2C3-003	46-21'00"N	88-53'15"W	03NOV84
	PARLEMEE LAKE	2D3-022	46-13'40"N	88-00'45"W	13OCT84
	PEACOCK LAKE	2B3-042	46-04'42"N	86-47'58"W	25OCT84
	PEANUT LAKE	2B2-062	46-26'39"N	85-43'28"W	24OCT84
	PECK AND RYE LAKE	2B1-052	46-23'50"N	84-58'00"W	22OCT84
	PENEGOR LAKE	2B1-065	46-36'55"N	88-51'36"W	03NOV84
	PINE LAKE	2B2-079	46-58'57"N	88-43'07"W	18OCT84
	PINERY LAKES (LARGEST)	2B3-056	46-46'03"N	88-23'30"W	17OCT84
	PRETTY LAKE	2B2-070	46-36'05"N	85-39'37"W	24OCT84
	QUINLAN LAKE	2B2-044	46-25'39"N	85-46'31"W	23OCT84
	ROBINSON LAKE	2C1-005	46-21'20"N	88-55'00"W	03NOV84
	ROSS LAKE	2B3-069	46-28'50"N	86-15'30"W	20OCT84
	ROUND LAKE	2B3-012	46-33'24"N	87-56'52"W	14OCT84
	RUMBLE LAKE	2B3-037	46-11'00"N	86-33'33"W	25OCT84
	SAGE LAKES (LG CENTRAL)	2D3-048	44-53'30"N	84-09'10"W	22OCT84
	SECTION FOUR LAKE	2B3-008	46-40'26"N	85-18'15"W	23OCT84
	SECTION 5 LAKE	2B2-019	46-40'14"N	88-05'05"W	17OCT84
	SLEEPER LAKE	2B2-041	46-30'33"N	85-33'07"W	23OCT84
	SOLDIER LAKE	2B1-050	46-20'57"N	84-51'59"W	22OCT84
	SPRING LAKE	2B1-046	46-29'37"N	86-06'59"W	20OCT84
	SPRING LAKE	2B3-059	46-05'38"N	86-32'16"W	25OCT84
	SPRUCE LAKE	2B1-044	46-31'03"N	86-04'00"W	23OCT84
	STONINGTON LAKE	2B2-088	46-57'47"N	88-47'10"W	18OCT84
	STROUBLE LAKE	2B3-039	46-08'50"N	85-11'45"W	22OCT84
	STUART LAKE	2B3-072	46-11'53"N	85-51'10"W	24OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MICHIGAN (cont)	STUMP LAKE	2B3-054	46-18'55"N	87-23'38"W	16OCT84
	SWAMP LKS.(LG.EAST)	2B3-076	46-36'20"N	85-23'39"W	23OCT84
	TAYLOR LAKE	2C2-013	46-14'55"N	89-02'30"W	03NOV84
	TEAL LAKE	2B1-034	46-33'57"N	86-05'33"W	20OCT84
	TIGHE LAKE	2B3-049	45-54'28"N	86-26'58"W	24OCT84
	TINSEL LAKE	2C1-003	46-21'40"N	88-58'55"W	03NOV84
	TOIVOLA LAKES (WEST)	2B2-007	46-59'14"N	88-48'01"W	18OCT84
	TRIANGLE LAKE	2B1-041	46-31'48"N	86-05'37"W	23OCT84
	TWIN LAKE	2B3-057	46-27'50"N	87-59'57"W	16OCT84
	TWIN LAKES	2B3-031	46-18'29"N	85-32'00"W	22OCT84
	UPPER BARAGA LAKE	2B2-066	46-40'52"N	88-01'57"W	17OCT84
	VAN LAKE	2B2-053	46-35'55"N	88-13'35"W	14OCT84
	WEST BRANCH LAKES (SE)	2B1-040	46-30'44"N	86-05'46"W	20OCT84
	WEST BRANCH LAKES (SW)	2B1-039	46-30'38"N	86-06'18"W	20OCT84
	WHITE DEER LAKE	2B2-021	46-40'30"N	88-00'00"W	17OCT84
	WISE LAKE	2B1-037	46-31'35"N	86-10'23"W	20OCT84
MINNESOTA (cont)	(NO NAME)	2A1-046	48-15'40"N	92-09'50"W	18OCT84
	(NO NAME)	2A2-029	48-02'10"N	90-48'10"W	29OCT84
	(NO NAME)	2A3-006	48-09'00"N	90-56'40"W	24OCT84
	(NO NAME)	2A3-081	47-29'40"N	92-36'30"W	07OCT84
	(NO NAME)	2D2-008	46-19'30"N	92-51'45"W	28OCT84
	(NO NAME)	2D2-011	46-07'40"N	92-55'05"W	28OCT84
	(NO NAME)	2D2-080	46-11'42"N	92-59'02"W	28OCT84
	(NO NAME)	2D3-017	46-23'30"N	93-58'00"W	14OCT84
	ADELE LAKE	2D2-058	47-28'14"N	93-39'14"W	28OCT84
	AGASSA LAKE	2A1-014	48-03'15"N	91-57'00"W	18OCT84
	AMBER LAKE	2A2-013	47-57'15"N	91-11'00"W	23OCT84
	AMBUSH LAKE	2A3-068	48-10'22"N	90-51'38"W	24OCT84
	ANGLEWORM LAKE	2A1-047	48-05'15"N	91-53'20"W	30OCT84
	BAKEKANA LAKE	2A2-026	48-02'55"N	91-09'15"W	23OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MINNESOTA (cont)	BALD EAGLE LAKE	2A2-052	47-49'55"N	91-33'15"W	16OCT84
	BALL CLUB LAKE	2A2-020	47-54'46"N	90-29'37"W	01NOV84
	BALLON LAKE	2D2-001	47-29'00"N	93-40'00"W	28OCT84
	BARTO LAKE	2A1-050	47-54'45"N	90-57'30"W	24OCT84
	BEAR ISLAND LAKE	2A3-040	47-46'15"N	92-00'00"W	08OCT84
	BEARTRACK LAKE	2A1-006	48-18'07"N	92-12'00"W	18OCT84
	BECOOSIN LAKE	2A2-012	47-56'53"N	91-23'36"W	16OCT84
	BEDFORD LAKE	2A3-077	48-03'13"N	91-15'36"W	23OCT84
	BENCH LAKE	2A2-002	48-03'20"N	90-14'15"W	29OCT84
	BERGEN LAKE	2D3-010	46-59'36"N	92-19'15"W	07OCT84
	BIG LAKE	2A1-011	48-05'00"N	92-00'15"W	30OCT84
	BIG RICE LAKE	2A1-048	48-01'45"N	92-01'30"W	17OCT84
	BLACKWOOD LAKE	2D3-064	46-46'48"N	92-53'10"W	13OCT84
	BLUEBILL LAKE	2A3-024	47-35'53"N	91-12'16"W	20OCT84
	BONITA LAKE	2A2-055	48-00'37"N	90-59'30"W	24OCT84
	BOOTLEG LAKE	2A1-059	48-02'30"N	92-11'50"W	17OCT84
	BOYS LAKE	2A3-058	47-52'25"N	90-13'11"W	20OCT84
	BUCK LAKE	2A1-018	47-58'00"N	92-11'53"W	17OCT84
	BUCKSHOT LAKE	2A3-083	47-53'48"N	92-08'53"W	22OCT84
	BULGE LAKE	2A3-045	47-47'27"N	90-45'48"W	29OCT84
	BURNTSIDE LAKE	2A2-046	47-55'45"N	92-00'00"W	16OCT84
	BURT LAKE	2A2-011	48-00'35"N	90-48'35"W	29OCT84
	CARIBOU LAKE	2A3-009	48-04'15"N	90-18'45"W	29OCT84
	CAVITY LAKE	2A3-053	48-05'52"N	90-59'45"W	24OCT84
	CHESTER LAKE	2A1-023	47-59'03"N	90-05'00"W	01NOV84
	CLEAR LAKE	2D2-059	46-18'09"N	92-52'49"W	28OCT84
	COMSTOCK LAKE	2D3-052	47-13'15"N	92-13'30"W	13OCT84
	COOK COUNTY LAKE	2A3-002	48-06'05"N	91-02'05"W	23OCT84
	CORNER LAKE	2A3-079	48-16'55"N	92-46'45"W	21OCT84
	CROOKED LAKE	2D2-012	46-07'15"N	92-33'00"W	28OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MINNESOTA (cont)	CUMMINGS LAKE	2A1-044	47-59'30"N	92-05'00"W	22OCT84
	DEEPWATER LAKE	2A3-057	47-37'15"N	92-49'30"W	07OCT84
	DIX LAKE	2A3-082	48-04'15"N	91-14'00"W	23OCT84
	ECHO LAKE	2A3-043	48-10'30"N	92-28'30"W	21OCT84
	ELLA LAKE	2A1-027	47-52'15"N	90-57'10"W	23OCT84
	ELUSION LAKE	2A3-007	48-05'24"N	90-55'15"W	24OCT84
	EUGENE LAKE	2A1-028	48-18'30"N	92-13'10"W	18OCT84
	FAIRY LAKE	2A1-012	48-06'15"N	91-49'50"W	17OCT84
	FALLS LAKES (NORTHERN)	2A3-062	47-44'25"N	92-10'45"W	08OCT84
	FAMINE LAKE	2A2-015	47-57'50"N	90-43'00"W	29OCT84
	FAULT LAKE	2A2-032	48-02'15"N	90-07'30"W	29OCT84
	FINSTAD LAKE	2A2-008	48-05'00"N	92-26'35"W	21OCT84
	FLICKER LAKE	2A2-036	48-01'00"N	90-36'40"W	29OCT84
	FRANKLIN LAKE	2A3-005	48-18'00"N	92-37'00"W	21OCT84
	FUN LAKE	2A2-003	48-00'10"N	90-44'20"W	29OCT84
	GATE LAKE	2A3-054	47-41'00"N	92-41'30"W	07OCT84
	GERALDINE LAKE	2A1-020	47-57'50"N	92-00'45"W	16OCT84
	GRASS LAKE	2D2-010	46-09'55"N	92-58'20"W	28OCT84
	GREEN LAKE	2A2-054	48-04'12"N	90-54'00"W	24OCT84
	GREENWOOD LAKE	2A1-036	48-00'00"N	90-10'45"W	01NOV84
	GUN LAKE	2A1-054	48-19'34"N	92-12'05"W	18OCT84
	HARMONY LAKE	2A3-010	48-00'10"N	91-13'07"W	23OCT84
	HARVEY LAKE	2A3-032	47-23'30"N	92-31'20"W	07OCT84
	HASSEL LAKE	2A1-019	47-56'30"N	92-06'00"W	16OCT84
	HAUNTED LAKE	2A1-005	48-18'45"N	92-11'15"W	18OCT84
	HERITAGE LAKE	2A1-030	48-13'30"N	92-12'45"W	30OCT84
	HOE LAKE	2A2-033	48-01'00"N	91-03'45"W	24OCT84
	HOOK LAKE	2A1-057	48-01'12"N	91-59'15"W	22OCT84
	HOPKINS LAKE	2A1-015	48-04'07"N	91-53'00"W	30OCT84
	HORN LAKE	2A2-023	47-51'13"N	90-47'37"W	29OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MINNESOTA (cont)	HORSESHOE LAKE	2A2-043	47'52'38"N	91-25'30"W	16OCT84
	HUMPBACK LAKE	2A2-004	47-59'10"N	91-05'50"W	23OCT84
	HUNCH LAKE	2A1-038	48-01'55"N	91-56'07"W	22OCT84
	JAM LAKE	2A2-034	48-01'07"N	90-58'00"W	24OCT84
	JAMMER LAKE	2A3-020	47-39'25"N	92-36'30"W	07OCT84
	JAVA LAKE	2A2-040	47-56'00"N	90-52'30"W	23OCT84
	JOHNSON LAKE	2A3-016	47-42'15"N	93-05'50"W	07OCT84
	JORGENS LAKE	2A2-059	48-29'04"N	92-50'45"W	21OCT84
	KARL LAKE	2A2-035	48-01'15"N	90-46'15"W	29OCT84
	KAWISHIWI LAKE	2A1-026	47-50'35"N	91-06'30"W	23OCT84
	KNIGHT LAKE	2A1-037	47-52'30"N	91-01'10"W	23OCT84
	LAKE AGNES	2A1-032	48-13'15"N	92-03'30"W	18OCT84
	LEGEND LAKE	2A1-002	48-09'10"N	92-03'15"W	18OCT84
	LITTLE CRAB LAKE	2A1-043	47-57'20"N	92-04'30"W	16OCT84
	LITTLE PINE LAKE	2D3-013	46-42'15"N	94-04'00"W	14OCT84
	LOFT LAKE	2A1-022	48-00'45"N	90-04'05"W	01NOV84
	LONG LAKE	2D3-004	47-24'50"N	93-36'50"W	28OCT84
	LONG LAKE	2D3-014	46-38'50"N	93-27'30"W	13OCT84
	LONGLEG LAKE	2A1-056	47-54'50"N	90-56'37"W	24OCT84
	LOUIS LAKE	2A1-003	48-02'38"N	91-49'07"W	17OCT84
	LOWER TROUT LAKE	2A2-048	47-56'33"N	90-27'07"W	29OCT84
	LUCKY FINN LAKE	2A1-029	48-16'35"N	92-10'45"W	18OCT84
	MAGIC LAKE	2A1-024	47-53'20"N	90-57'15"W	24OCT84
	MAJESTIC LAKE	2A3-064	47-27'35"N	92-37'42"W	07OCT84
	MALBERG LAKE	2A2-057	47-57'03"N	91-08'07"W	23OCT84
	MCDIVITT LAKE	2A2-050	48-30'53"N	92-44'30"W	21OCT84
	MCDONALD LAKE	2D3-001	47-39'45"N	93-37'00"W	13OCT84
	MEAT LAKE	2A2-058	47-55'07"N	92-05'48"W	16OCT84
	MEDLEY LAKE	2A1-017	48-01'15"N	92-02'30"W	17OCT84
	MOON LAKE	2D3-003	47-32'20"N	93-29'40"W	14OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MINNESOTA (cont)	MOOSE LAKE	2A3-034	48-18'50"N	92-41'15"W	21OCT84
	MOOSE LAKE	2A3-044	48-00'00"N	91-30'00"W	16OCT84
	MOOSE LAKE	2A3-078	47-33'41"N	91-08'00"W	20OCT84
	MOSS LAKE	2A3-055	48-04'00"N	90-28'30"W	01NOV84
	MULE LAKE	2A1-060	48-08'15"N	92-02'15"W	18OCT84
	MURPHY LAKE	2D3-006	47-18'00"N	92-29'45"W	07OCT84
	NIBIN LAKE	2A1-010	48-10'45"N	91-59'00"W	18OCT84
	NISWI LAKE	2A1-016	48-01'10"N	92-08'00"W	17OCT84
	NOKAY LAKE	2D3-068	46-22'30"N	93-58'00"W	14OCT84
	NORTH STAR LAKE	2D3-069	47-33'30"N	93-39'40"W	14OCT84
	OGISHKEMUNCIE LAKE	2A3-036	48-05'15"N	91-04'30"W	23OCT84
	OLE LAKE	2A1-053	47-58'37"N	92-01'45"W	16OCT84
	ORIOLE LAKE	2A1-025	47-54'45"N	90-55'30"W	24OCT84
	OWL LAKE	2A2-028	48-02'25"N	90-54'30"W	24OCT84
	OYSTER LAKE	2A1-031	48-13'30"N	92-06'00"W	18OCT84
	PARTRIDGE LAKE	2A3-085	48-05'03"N	90-29'15"W	29OCT84
	PEAR LAKE	2A2-009	48-04'10"N	91-07'10"W	23OCT84
	PHOSPOR LAKE	2A2-022	47-50'07"N	91-29'07"W	16OCT84
	PICKEREL LAKE	2A3-070	47-55'07"N	91-40'00"W	16OCT84
	PICKET LAKE	2A1-039	48-01'48"N	91-50'45"W	17OCT84
	PINE LAKE	2A1-049	47-56'15"N	92-15'00"W	17OCT84
	PLACID LAKE	2A3-041	47-47'45"N	91-14'58"W	17OCT84
	POE LAKE	2A2-014	47-57'15"N	90-57'15"W	24OCT84
	POSSE LAKE	2A1-009	48-15'00"N	92-09'45"W	18OCT84
	PRAIRIE LAKE	2D3-012	46-47'30"N	92-54'15"W	13OCT84
	PURVIS LAKE	2A3-013	47-49'30"N	92-00'30"W	22OCT84
	RAGGED LAKE	2A2-062	48-00'32"N	90-51'30"W	29OCT84
	RAINY LAKE	2A3-061	48-34'30"N	92-54'00"W	21OCT84
	RAMSHEAD LAKE	2A1-033	48-10'45"N	92-06'30"W	18OCT84
	RANIER LAKE	2D3-002	47-35'30"N	93-41'10"W	14OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MINNESOTA (cont)	RICE LAKE	2A1-040	48-01'20"N	91-58'20"W	22OCT84
	RIDGEPOLE LAKE	2A3-074	47-32'45"N	91-43'00"W	08OCT84
	ROUND LAKE	2A2-007	48-08'40"N	91-42'45"W	17OCT84
	RUBY LAKE	2A1-008	48-13'45"N	92-10'20"W	30OCT84
	SANDPIT LAKE	2A2-005	48-02'20"N	91-47'30"W	17OCT84
	SAUNA LAKE	2A2-045	48-08'35"N	91-44'37"W	17OCT84
	SCHLAMM LAKE	2A1-042	47-57'10"N	92-08'15"W	17OCT84
	SEA GULL LAKE	2A3-035	48-07'30"N	90-56'15"W	24OCT84
	SEAHORSE LAKE	2A2-010	48-04'33"N	90-56'55"W	24OCT84
	SEAL LAKE	2A2-001	48-02'15"N	90-43'13"W	29OCT84
	SERENADE LAKE	2A1-013	48-03'15"N	92-09'00"W	17OCT84
	SHELL LAKE	2A1-051	48-12'15"N	92-12'30"W	30OCT84
	SLETTEN LAKE	2A1-004	47-59'40"N	91-53'00"W	30OCT84
	SLIM LAKE	2A1-045	48-17'40"N	92-15'00"W	18OCT84
	SMALL LAKE	2A3-052	47-46'25"N	91-13'50"W	17OCT84
	SNOWBANK LAKE	2A3-069	48-00'00"N	91-25'00"W	16OCT84
	SNOWSHOE LAKE	2D2-075	46-04'56"N	93-15'00"W	28OCT84
	SOCK LAKE	2A3-015	47-44'50"N	92-00'40"W	08OCT84
	SPRING LAKE	2D3-008	47-07'25"N	93-52'45"W	14OCT84
	STEVENS LAKE	2D3-055	47-20'00"N	93-42'30"W	28OCT84
	STUART LAKE	2A1-034	48-11'15"N	92-00'15"W	18OCT84
	STUART LAKE	2A3-076	47-33'50"N	93-02'50"W	14OCT84
	SUNFISH LAKE	2A1-055	47-59'30"N	90-09'15"W	01NOV84
	TAMARACK LAKE	2A3-011	47-53'30"N	92-06'30"W	16OCT84
	TEE LAKE	2A1-041	48-00'00"N	91-52'45"W	22OCT84
	THIRD LAKE	2A1-035	48-06'00"N	92-00'30"W	18OCT84
	TRAP LAKE	2A2-031	48-01'40"N	90-21'45"W	29OCT84
	TRIDENT LAKE	2A3-008	48-03'10"N	91-21'20"W	23OCT84
	TROUT LAKE	2A2-044	47-57'30"N	92-18'45"W	17OCT84
	TURTLE LAKE	2A2-061	47-51'15"N	91-33'08"W	16OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MINNESOTA (cont)	TWO DEER LAKE	2A3-046	47-41'15"N	91-34'25"W	08OCT84
	VANCE LAKE	2A2-016	47-57'47"N	90-35'52"W	29OCT84
	WARD LAKE	2A3-004	47-42'55"N	90-37'59"W	20OCT84
	WASHUSK LAKE #1	2D3-007	47-14'55"N	92-16'52"W	13OCT84
	WEASEL LAKE	2A2-018	47-53'47"N	91-31'00"W	16OCT84
	WEST PIKE LAKE	2A3-037	48-05'15"N	90-12'15"W	29OCT84
	WEST TWO RIVER RES	2A3-080	47-28'48"N	92-39'30"W	07OCT84
	WHIP LAKE	2A2-019	47-55'10"N	90-41'45"W	29OCT84
	WHIZ LAKE	2A2-053	47-58'00"N	91-10'15"W	23OCT84
	WOLF LAKE	2A3-012	47-53'00"N	92-01'30"W	16OCT84
	WREN LAKE	2D3-011	46-52'20"N	93-53'45"W	14OCT84
	YODELER LAKE	2A1-001	48-14'20"N	92-11'45"W	30OCT84
	ZENITH LAKE	2A2-039	47-56'50"N	90-54'45"W	24OCT84
NEW HAMPSHIRE	(NO NAME)	1C2-022	43-52'50"N	71-18'30"W	25OCT84
	(NO NAME)	1C2-039	43-03'15"N	71-52'15"W	01NOV84
	ADDER POND	1C2-027	43-26'48"N	71-48'33"W	24OCT84
	ARLINGTON MILL RESERVOIR	1C3-043	42-49'15"N	71-12'30"W	30OCT84
	BABBIDGE RESERVOIR	1C2-057	42-56'05"N	72-13'00"W	01NOV84
	BILLINGS POND	1C1-050	43-17'00"N	71-56'30"W	24OCT84
	BOG POND	1C2-063	43-26'20"N	71-52'15"W	24OCT84
	BRAGG POND	1C1-025	44-46'00"N	71-15'00"W	18OCT84
	BROAD BAY	1C1-079	43-48'23"N	71-06'04"W	29OCT84
	BURNS POND	1C3-025	44-21'00"N	71-38'30"W	25OCT84
	CALDWELL POND	1C1-052	43-04'36"N	72-18'20"W	24OCT84
	CHESHIRE POND	1C2-051	42-49'15"N	72-00'40"W	01NOV84
	COOKS POND	1C1-037	43-51'30"N	71-09'00"W	25OCT84
	COOKS POND	1C1-045	43-33'45"N	71-05'15"W	29OCT84
	CRANE NECK POND	1C2-030	43-20'20"N	71-32'30"W	30OCT84
	CROOKED POND	1C2-032	43-17'40"N	71-25'45"W	30OCT84
	DARRAH POND	1C3-055	42-49'52"N	71-26'40"W	31OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
NEW HAMPSHIRE (cont)	DODGE POND	1C1-049	43-13'20"N	72-10'40"W	24OCT84
	DORRS POND	1C2-040	43-00'50"N	71-27'15"W	30OCT84
	DUBES POND	1C2-067	43-04'13"N	71-24'07"W	30OCT84
	DUNCAN LAKE	1C1-042	43-42'15"N	71-06'30"W	29OCT84
	ENFIELD RESERVOIR	1C1-041	43-39'50"N	72-09'00"W	23OCT84
	FERRIN POND	1C1-065	43-02'30"N	71-46'30"W	01NOV84
	FRENCH POND	1C3-068	44-06'05"N	71-58'08"W	25OCT84
	GREAT HILL POND	1C2-061	43-53'20"N	71-20'00"W	25OCT84
	HALL POND	1C3-028	43-15'00"N	72-21'30"W	01NOV84
	HAUNTED LAKE	1C1-066	42-59'00"N	71-46'00"W	01NOV84
	JUGGERNAUT POND	1C2-041	42-57'35"N	72-00'45"W	01NOV84
	KEZAR LAKE	1C2-053	43-21'45"N	71-57'00"W	24OCT84
	KIMBALL POND	1C2-036	43-11'15"N	71-40'00"W	01NOV84
	LAKE ABENIKI	1C1-001	44-52'40"N	71-18'00"W	18OCT84
	LAKE WAUKEWAN	1C2-024	43-39'30"N	71-31'30"W	24OCT84
	LIME POND	1C3-023	44-52'15"N	71-29'20"W	18OCT84
	LONG POND	1C1-004	44-03'00"N	71-53'30"W	25OCT84
	LONG POND	1C2-033	43-12'14"N	71-48'43"W	01NOV84
	MARSH POND	1C2-034	43-14'40"N	71-23'45"W	30OCT84
	MARTIN MEADOW POND	1C3-063	44-26'30"N	71-36'30"W	25OCT84
	MEETINGHOUSE POND	1C2-029	43-24'45"N	71-21-40"W	30OCT84
	MENDUMS POND	1C2-037	43-10'30"N	71-04'00"W	30OCT84
	MOSES POND	1C3-027	43-32'25"N	72-18'50"W	23OCT84
	MUDGETTS POND	1C1-040	43-46'10"N	71-59'40"W	24OCT84
	NATICOOK LAKE	1C3-044	42-49'10"N	71-31'45"W	31OCT84
	NAY POND	1C1-087	44-34'15"N	71-17'03"W	18OCT84
	NORTH RIVER POND	1C2-055	43-11'45"N	71-07'45"W	30OCT84
	NORTHWOOD LAKE	1C2-059	43-12'33"N	71-15'00"W	30OCT84
	OSSIPEE LAKE	1C1-039	43-47'30"N	71-08'00"W	29OCT84
	OTTER POND	1C1-047	43-26'00"N	72-03'30"W	24OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
NEW HAMPSHIRE (cont)	PEARL LAKE	1C1-030	44-12'00"N	71-52'00"W	25OCT84
	PEMIGEWASSET LAKE	1C2-062	43-36'55"N	71-35'45"W	24OCT84
	PEQUAWKET POND	1C1-032	43-58'15"N	71-08'15"W	25OCT84
	PIKE POND	1C1-027	44-37'50"N	71-21'10"W	18OCT84
	RESERVOIR POND	1C1-038	43-47'15"N	72-02'30"W	24OCT84
	ROCKY POND	1C1-082	43-50'40"N	71-59'33"W	25OCT84
	ROUND POND	1C1-024	44-48'15"N	71-07'15"W	18OCT84
	SCOTT POND	1C2-044	42-47'15"N	72-07'00"W	01NOV84
	SEBBINS POND	1C2-043	42-55'45"N	71-28'45"W	31OCT84
	SHAWS POND	1C1-046	43-32'00"N	71-08'30"W	29OCT84
	SIP POND	1C2-045	42-44'00"N	72-06'15"W	01NOV84
	SMITH POND	1C1-044	43-35'15"N	72-08'00"W	23OCT84
	SMITH POND	1C2-035	43-09'15"N	72-01'45"W	24OCT84
	SQUAM LAKE	1C2-023	43-46'00"N	71-31'00"W	24OCT84
	STAR LAKE	1C1-086	43-27'43"N	72-03'20"W	24OCT84
	STONE POND	1C2-042	42-53'45"N	72-09'15"W	01NOV84
	STUMP POND	1C1-067	42-44'45"N	71-56'15"W	03NOV84
	SUNSET LAKE	1C2-028	43-28'15"N	71-18'00"W	30OCT84
	TURTLE POND	1C2-066	43-15'15"N	71-31'00"W	30OCT84
	UPPER BAKER POND	1C1-009	43-54'30"N	71-59'30"W	25OCT84
	UPPER BEECH POND	1C1-084	43-38'54"N	71-12'15"W	29OCT84
	WAUKEENA LAKE	1C2-026	43-31'00"N	71-53'45"W	24OCT84
	WHEELWRIGHT POND	1C3-040	43-08'20"N	71-00'30"W	30OCT84
NEW JERSEY	(NO NAME)	1B3-048	40-52'15"N	74-37'45"W	10NOV84
	BASS LAKE	1B3-067	41-01'33"N	74-57'12"W	18NOV84
	CLOVE ACRES LAKE	1B3-058	41-12'53"N	74-36'44"W	10NOV84
	HIGH CREST LAKE	1B3-044	41-01'10"N	74-22'30"W	10NOV84
	KITCHELL LAKE	1B3-040	41-05'15"N	74-21'15"W	10NOV84
	LAKE STOCKHOLM	1B3-042	41-04'05"N	74-31'45"W	10NOV84
	STAG POND	1B3-045	40-59'34"N	74-41'49"W	18NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
NEW YORK	(NO NAME)	1A2-048	43-07'39"N	74-35'20"W	31OCT84
	(NO NAME)	1A3-019	43-34'15"N	76-12'00"W	17OCT84
	(NO NAME)	1A3-057	44-41'47"N	73-37'50"W	08OCT84
	(NO NAME)	1A3-063	43-41'44"N	75-00'18"W	14OCT84
	(NO NAME)	1B1-019	41-30'40"N	74-46'25"W	10NOV84
	(NO NAME)	1B1-061	41-59'03"N	74-30'43"W	15NOV84
	(NO NAME)	1B3-023	41-37'40"N	73-37'30"W	06NOV84
	(NO NAME)	1B3-033	41-20'15"N	74-32'15"W	10NOV84
	(NO NAME)	1B3-052	41-29'23"N	74-32'20"W	10NOV84
	(NO NAME)	1D3-048	40-51'21"N	73-27'45"W	06NOV84
	ADIRONDACK LAKE	1A3-067	43-47'22"N	74-15'42"W	30OCT84
	AFTON LAKE	1B3-005	42-14'20"N	75-30'45"W	15NOV84
	ARBUTUS POND	1A1-052	43-59'15"N	74-14'30"W	15OCT84
	BALLSTON LAKE (NORTH END)	1A3-037	42-57'00"N	73-51'10"W	04NOV84
	BARGER LAKE	1B3-034	41-21'40"N	73-48'45"W	06NOV84
	BARRETT POND	1B3-051	41-26'04"N	73-44'25"W	06NOV84
	BEACON RESERVOIR	1B3-027	41-29'25"N	73-53'00"W	06NOV84
	BELFORT POND	1A2-065	43-55'39"N	75-19'42"W	21OCT84
	BELLOWS LAKE	1A2-031	43-10'45"N	74-27'45"W	31OCT84
	BIG OTTER LAKE	1A2-024	43-43'48"N	75-06'23"W	14OCT84
	BIG POND	1A3-010	44-17'15"N	73-33'20"W	08OCT84
	BLACK POND	1A1-037	44-09'00"N	74-35'30"W	13OCT84
	BLACK POND	1A1-071	44-26'21"N	74-17'38"W	11OCT84
	BLAKE FALLS RES	1A2-010	44-28'45"N	74-45'15"W	13OCT84
	BOYD POND	1A2-011	44-23'30"N	75-05'45"W	25OCT84
	BRANT LAKE	1A2-035	43-42'30"N	73-42'30"W	18OCT84
	BURNT HOPE LAKE	1B1-020	41-31'30"N	74-44'38"W	10NOV84
	BUTLER POND	1A3-027	43-22'15"N	73-44'15"W	03NOV84
	BUTTERFIELD LAKE	1A3-008	44-19'00"N	75-46'45"W	17OCT84
	BUTTERNUT POND	1A3-060	44-25'45"N	73-29'52"W	08OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
NEW YORK (cont)	CARTER POND	1C3-017	43-09'50"N	73-25'15"W	03NOV84
	CAYUGA LAKE	1B3-001	42-45'00"N	76-45'00"W	15NOV84
	CEDAR RIVER FLOW	1A1-008	43-42'30"N	74-28'30"W	15OCT84
	CENTER POND	1A3-045	43-44'30"N	74-13'00"W	15OCT84
	CHENEY POND	1A3-042	43-52'40"N	74-09'45"W	15OCT84
	CHUB LAKE	1A2-052	43-15'30"N	74-31'50"W	31OCT84
	CLEAR POND	1A1-023	44-29'15"N	74-09'30"W	11OCT84
	CLEAR POND	1A2-008	44-33'20"N	74-46'30"W	13OCT84
	CLEAR POND	1A2-013	44-20'00"N	74-48'40"W	13OCT84
	COAN POND	1A3-026	43-24'20"N	75-58'30"W	17OCT84
	COD POND	1A2-038	43-31'00"N	74-08'30"W	30OCT84
	CONKLIN POND	1B3-018	41-43'04"N	74-38'30"W	10NOV84
	CONSTABLE POND	1A1-017	43-50'00"N	74-47'45"W	14OCT84
	CORK CENTER RESERVOIR	1A3-064	43-02'29"N	74-27'58"W	04NOV84
	CRANBERRY POND	1C2-048	42-44'40"N	73-26'00"W	04NOV84
	CRANE POND	1A2-059	43-51'10"N	73-39'10"W	18OCT84
	CROSSETT POND	1A3-022	43-30'00"N	73-35'00"W	03NOV84
	CRYSTAL LAKE	1A3-009	44-16'30"N	75-48'00"W	17OCT84
	CRYSTAL LAKE	1A3-061	43-39'22"N	73-44'35"W	18OCT84
	CURTIS LAKE	1A3-028	43-20'10"N	74-57'40"W	31OCT84
	DEBAR POND	1A1-068	44-37'25"N	74-11'46"W	11OCT84
	DEER POND	1A1-055	43-55'45"N	74-47'00"W	25OCT84
	DELTA RESERVOIR	1A3-030	43-17'30"N	75-26'15"W	17OCT84
	DRY CHANNEL POND	1A1-028	44-21'10"N	74-26'15"W	11OCT84
	DUCK LAKE	1A2-004	43-14'08"N	74-27'09"W	31OCT84
	EVERGREEN LAKE	1A1-004	43-55'00"N	75-01'00"W	25OCT84
	FEAGLES LAKE	1B3-022	41-36'15"N	75-02'50"W	15NOV84
	FISH PONDS (NORTHEAST)	1A2-037	43-32'50"N	74-03'40"W	30OCT84
	FORKED LAKE	1A1-056	43-54'00"N	74-35'00"W	16OCT84
	FORT POND	1D3-046	41-02'30"N	71-57'15"W	13NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
NEW YORK (cont)	FOURTH LAKE (BISBY LAKES)	1A1-020	43-34'15"N	74-58'15"W	16OCT84
	GOOSE POND	1A1-018	43-47'00"N	74-54'00"W	14OCT84
	GOOSENECK POND	1A2-033	43-51'41"N	73-36'30"W	18OCT84
	GRASS POND	1A3-048	43-41'35"N	75-03'40"W	14OCT84
	GREEN POND	1A3-053	43-28'47"N	75-56'05"W	17OCT84
	GUILFORD LAKE	1B3-004	42-24'45"N	75-30'00"W	15NOV84
	GULL LAKES (SOUTH)	1A1-073	43-51'22"N	74-49'15"W	14OCT84
	HADLOCK POND	1A3-025	43-25'30"N	73-34'15"W	03NOV84
	HAMILTON LAKE	1A2-053	43-25'50"N	74-23'18"W	30OCT84
	HAWK POND	1A1-003	43-57'25"N	74-57'30"W	25OCT84
	HENDERSON LAKE	1A1-015	44-05'15"N	74-04'00"W	12OCT84
	HITCHCOCK LAKE	1A1-057	43-51'00"N	75-02'30"W	24OCT84
	HITCHENS POND	1A1-040	44-06'30"N	74-40'00"W	13OCT84
	HOLP POND	1B3-068	41-52'43"N	74-59'58"W	15NOV84
	HOOK POND	1D3-047	40-57'00"N	72-11'20"W	13NOV84
	HORSESHOE POND	1A2-032	43-49'45"N	73-48'30"W	18OCT84
	HUCKLEBERRY LAKE	1A2-056	43-47'47"N	75-15'00"W	24OCT84
	INDEPENDENCE LAKE	1A3-047	43-46'20"N	74-58'45"W	14OCT84
	INDIAN LAKE	1A3-011	44-08'30"N	75-27'10"W	17OCT84
	ISLAND POND	1B3-059	41-15'26"N	74-08'25"W	10NOV84
	JACKSON SUMMIT RESERVOIR	1A2-047	43-08'30"N	74-17'00"W	04NOV84
	JACOX POND	1B3-029	41-26'40"N	73-55'25"W	06NOV84
	JOCKS POND	1A1-031	44-17'30"N	74-40'00"W	13OCT84
	JOHN POND	1A1-039	44-06'45"N	74-45'50"W	13OCT84
	KEENAN POND	1A3-007	44-26'00"N	73-28'15"W	08OCT84
	KEENAN RESERVOIR	1A3-029	43-19'45"N	73-45'30"W	03NOV84
	KIAMESHA LAKE	1B3-020	41-40'30"N	74-40'00"W	10NOV84
	KIWASSA LAKE	1A1-033	44-17'45"N	74-09'30"W	13OCT84
	LAKE ALGONQUIN	1A2-040	43-23'30"N	74-17'45"W	30OCT84
	LAKE CLEAR OUTLET	1A1-030	44-20'50"N	74-15'45"W	12OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
NEW YORK (cont)	LAKE DESOLATION	1A2-049	43-08'15"N	73-58'20"W	04NOV84
	LAKE FRANCES	1A2-006	44-41'45"N	74-19'30"W	11OCT84
	LAKE LORAINE	1A3-023	43-27'30"N	75-57'40"W	17OCT84
	LAKE METAUQUE	1B1-062	41-31'02"N	74-47'03"W	10NOV84
	LEDGE POND	1A1-041	44-05'40"N	73-39'55"W	18OCT84
	LILY POND	1A2-036	43-42'15"N	73-40'15"W	03NOV84
	LITTLE CLEAR POND	1A1-027	44-21'45"N	74-17'00"W	11OCT84
	LITTLE POND	1A2-064	44-11'00"N	73-34'35"W	08OCT84
	LITTLE ROUND POND	1A3-038	42-56'25"N	73-46'40"W	04NOV84
	LITTLE TUPPER LAKE	1A1-043	44-02'22"N	74-36'40"W	25OCT84
	LONG LAKE	1A1-044	44-02'30"N	74-22'00"W	15OCT84
	LONG LAKE	1A2-044	43-13'10"N	74-35'30"W	31OCT84
	LONG LAKE	1A2-063	44-09'48"N	75-12'06"W	24OCT84
	LONG POND	1A3-046	43-38'15"N	74-17'20"W	15OCT84
	LOST POND	1A1-032	44-16'30"N	74-29'15"W	13OCT84
	LOWER RESERVOIR	1A3-021	43-31'30"N	75-57'30"W	17OCT84
	LOWS LAKE	1A1-042	44-05'00"N	74-45'30"W	25OCT84
	MCDONALD POND	1A2-012	44-23'45"N	74-31'40"W	11OCT84
	MIDDLE FARMS POND	1D3-044	41-16'30"N	71-58'40"W	13NOV84
	MIDDLE POND	1A1-029	44-20'20"N	74-22'45"W	11OCT84
	MIDDLE SARANAC LAKE	1A1-074	44-15'37"N	74-16'00"W	13OCT84
	MIDDLE SOUTH POND	1A1-049	43-59'22"N	75-01'06"W	25OCT84
	MOREAU LAKE	1A3-031	43-14'00"N	73-42'45"W	03NOV84
	MOSHER PONDS (SOUTHERN)	1A2-021	43-56'00"N	75-04'15"W	24OCT84
	MOUNTAIN POND	1A1-025	44-28'30"N	74-16'30"W	11OCT84
	MT ARAB LAKE	1A1-064	44-11'18"N	74-36'03"W	13OCT84
	MUD LAKE	1A2-041	43-20'26"N	74-27'14"W	30OCT84
	MUD POND	1A1-047	44-01'00"N	74-25'20"W	15OCT84
	MUD POND	1A2-005	44-44'10"N	74-03'55"W	11OCT84
	NATE POND	1A3-001	43-51'30"N	74-05'30"W	15OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
NEW YORK (cont)	NELSON LAKE	1A3-049	43-38'45"N	75-03'30"W	16OCT84
	NICKS POND	1A1-038	44-08'35"N	74-58'05"W	24OCT84
	NINE CORNER LAKE	1A2-046	43-11'45"N	74-33'00"W	31OCT84
	NO NAME(NO NAME LAKE)	1C3-018	42-46'10"N	73-32'50"W	04NOV84
	NORTH BRANCH LAKE	1A2-042	43-18'45"N	74-47'40"W	31OCT84
	OQUAGA LAKE	1B3-007	42-01'15"N	75-27'30"W	03NOV84
	OTTER LAKE	1A2-026	43-35'30"N	75-07'00"W	16OCT84
	OWEN POND	1A2-028	44-19'15"N	73-54'05"W	12OCT84
	OXBOW LAKE	1A2-039	43-26'30"N	74-29'00"W	30OCT84
	PANTHER POND	1A2-023	43-49'15"N	75-10'15"W	24OCT84
	PARADOX LAKE	1A1-070	43-53'00"N	73-42'30"W	18OCT84
	PARTLOW LAKE	1A1-046	44-00'15"N	74-50'00"W	25OCT84
	PAYNE LAKE	1A2-022	43-47'40"N	75-17'30"W	24OCT84
	PIERCEFIELD FLOW	1A1-035	44-13'45"N	74-33'00"W	13OCT84
	POCANTICO LAKE	1B3-064	41-07'22"N	73-50'00"W	06NOV84
	PORT RESERVOIR	1A3-032	43-05'15"N	74-21'30"W	04NOV84
	QUIVER POND	1A1-019	43-44'15"N	74-52'15"W	14OCT84
	RAVEN LAKE	1A1-016	43-55'45"N	75-02'00"W	25OCT84
	RICE RESERVOIR	1A3-058	43-05'37"N	74-20'18"W	04NOV84
	ROCK LAKE	1A1-050	43-58'00"N	74-52'00"W	25OCT84
	ROCK POND	1A3-066	43-37'50"N	74-18'12"W	15OCT84
	ROLLINS POND	1A1-069	44-18'45"N	74-24'50"W	12OCT84
	ROSS POND	1A3-044	43-47'40"N	74-08'45"W	15OCT84
	ROUND POND	1A1-065	44-07'29"N	73-44'01"W	18OCT84
	ROUND POND	1A3-051	43-21'09"N	73-40'37"W	03NOV84
	ROUND POND	1B1-002	41-56'20"N	74-35'15"W	15NOV84
	RUTLAND LAKE	1A3-013	43-57'05"N	75-47'45"W	17OCT84
	SACKETT LAKE	1B1-057	41-37'33"N	74-44'25"W	10NOV84
	SAGAMORE LAKE	1A1-059	43-46'00"N	74-37'30"W	16OCT84
	SEVENTH L.(FULTON CHAIN)	1A1-060	43-44'45"N	74-45'00"W	14OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
NEW YORK (cont)	SILVER LAKE	1A1-024	44-30'30"N	73-52'30"W	12OCT84
	SILVER LAKE	1A1-034	44-13'30"N	74-49'30"W	13OCT84
	SILVER LAKE	1B3-055	42-19'34"N	74-10'05"W	15NOV84
	SMITH POND	1A2-015	44-15'00"N	75-13'25"W	17OCT84
	SMITH POND	1A3-017	43-42'35"N	73-48'00"W	18OCT84
	SNYDER LAKE	1A1-010	43-34'15"N	74-49'15"W	16OCT84
	SOLON POND	1B3-066	42-37'06"N	75-55'28"W	15NOV84
	SOUTH COLWELL POND	1A3-062	43-41'58"N	76-11'43"W	17OCT84
	SOUTH LAKE (EAST BRANCH)	1A3-065	43-30'54"N	74-53'32"W	16OCT84
	SPECTACLE POND	1A2-034	43-48'45"N	73-42'15"W	18OCT84
	ST. JOHN LAKE	1A2-002	43-26'30"N	74-03'40"W	30OCT84
	STAR LAKE	1A2-016	44-09'30"N	75-02'45"W	24OCT84
	STREETCAR POND	1A2-051	43-40'38"N	73-42'02"W	18OCT84
	STUMP POND	1B3-013	41-50'15"N	74-54'00"W	15NOV84
	SULLIVAN POND	1A3-018	43-38'00"N	73-49'10"W	03NOV84
	SUTTON POND	1A1-051	43-57'20"N	74-36'00"W	25OCT84
	TAYLOR POND	1A2-027	44-29'15"N	73-51'00"W	12OCT84
	THIRD LAKE (ESSEX CHAIN)	1A3-041	43-52'30"N	74-15'00"W	15OCT84
	TRIANGLE LAKE	1B3-003	42-32'00"N	74-12'15"W	15NOV84
	TROUT LAKE	1A2-054	43-20'48"N	74-42'50"W	31OCT84
	TROUT LAKE	1A2-058	44-21'47"N	75-16'08"W	24OCT84
	TROUT LAKE	1A3-020	43-32'30"N	73-42'15"W	03NOV84
	TROUT LAKE	1B3-025	41-35'10"N	74-40'50"W	10NOV84
	TWIN LAKES (EASTERN)	1A1-009	43-37'15"N	74-37'15"W	30OCT84
	TWIN PONDS (EASTERN)	1A2-001	43-40'20"N	74-10'20"W	30OCT84
	TWIN PONDS (EASTERN)	1A2-018	43-59'15"N	75-13'30"W	24OCT84
	TWIN PONDS (NORTHWESTERN)	1A2-057	44-42'24"N	74-20'33"W	11OCT84
	TYRRELL LAKE	1B3-057	41-45'25"N	73-44'58"W	06NOV84
	UNKNOWN POND	1A3-043	43-49'10"N	74-17'00"W	15OCT84
	VANDERWHACKER POND	1A1-067	43-57'28"N	74-00'10"W	12OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
NEW YORK (cont)	WELLER POND	1A2-009	44-31'30"N	74-36'00"W	13OCT84
	WHITE LAKE	1A2-061	43-32'42"N	75-09'02"W	16OCT84
	WHITNEY LAKE	1A1-012	43-35'15"N	74-33'45"W	30OCT84
	WILMURT LAKE	1A1-014	43-25'45"N	74-43'30"W	30OCT84
	WIXON POND	1B3-032	41-23'45"N	73-44'05"W	06NOV84
	WOLF LAKE	1A1-061	43-37'45"N	74-39'15"W	30OCT84
	WOLF POND	1A1-021	44-39'00"N	74-03'30"W	11OCT84
	WOLF POND	1A1-053	43-57'36"N	73-55'48"W	12OCT84
	WOODHULL LAKE	1A1-066	43-35'30"N	74-59'13"W	16OCT84
	WOODMAN POND	1A3-039	42-51'15"N	75-34'10"W	15NOV84
	WOODS LAKE	1A2-045	43-15'10"N	74-19'00"W	31OCT84
	ZACK POND	1A3-040	43-56'00"N	74-11'00"W	15OCT84
NORTH CAROLINA	(NO NAME)	3A1-019	35-06'21"N	83-00'15"W	29NOV84
	(NO NAME)	3A2-002	36-26'41"N	80-55'48"W	29NOV84
	(NO NAME)	3A2-003	36-24'05"N	80-58'55"W	29NOV84
	(NO NAME)	3A2-008	35-16'38"N	83-39'16"W	29NOV84
	(NO NAME)	3A2-029	35-24'30"N	82-12'09"W	25NOV84
	APALACHIA LAKE	3A2-011	35-10'13"N	84-15'30"W	20NOV84
	BEAR CREEK RESERVOIR	3A2-032	35-14'25"N	83-03'42"W	25NOV84
	BURNETT RESERVOIR	3A3-006	35-40'00"N	82-20'20"W	21NOV84
	CASHIERS LAKE	3A1-014	35-06'25"N	83-06'03"W	25NOV84
	CEDAR CLIFF LAKE	3A2-031	35-15'15"N	83-05'45"W	25NOV84
	CHETOLA LAKE	3A2-004	36-08'16"N	81-40'20"W	21NOV84
	ENKA LAKE	3A1-006	35-32'00"N	82-39'20"W	21NOV84
	FONTANA LAKE	3A2-007	35-27'00"N	83-47'30"W	20NOV84
	FOREST LAKE	3A3-065	35-21'51"N	81-52'45"W	25NOV84
	HAMPTON LAKE	3A1-015	35-06'05"N	83-04'45"W	25NOV84
	HIWASSEE LAKE	3A2-055	35-09'45"N	84-10'00"W	20NOV84
	KANUGA LAKE	3A2-035	35-15'45"N	82-31'05"W	29NOV84
	LAKE ADGER	3A2-030	35-20'17"N	82-12'15"W	25NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
NORTH CAROLINA (cont)	LAKE CHEOAH	3A1-004	35-27'00"N	83-55'45"W	20NOV84
	LAKE HOUSER	3A3-070	35-13'23"N	81-43'45"W	25NOV84
	LAKE JAMES	3A3-004	35-44'30"N	81-54'00"W	21NOV84
	LAKE LOGAN	3A1-010	35-25'00"N	82-55'40"W	29NOV84
	LAKE SEQUOYAH	3A2-038	35-03'45"N	83-13'15"W	25NOV84
	LAKE SUMMITT	3A2-036	35-13'30"N	82-25'00"W	29NOV84
	LAKE TAHOMA	3A3-066	35-43'30"N	82-05'00"W	21NOV84
	LAKE TOXAWAY	3A1-012	35-08'00"N	82-56'30"W	29NOV84
	LUPTIN LAKE	3A1-018	35-06'45"N	83-01'15"W	25NOV84
	NANTAHALA LAKE	3A2-009	35-11'00"N	83-40'00"W	29NOV84
	RHODHISS LAKE	3A3-056	35-47'05"N	81-27'30"W	21NOV84
	TANASEE CREEK RESERVOIR	3A2-033	35-12'47"N	83-00'00"W	25NOV84
	THE LAGOON	3A1-008	35-32'28"N	82-33'45"W	21NOV84
	THORPE LAKE	3A2-053	35-10'30"N	83-09'00"W	25NOV84
	WALTERS LAKE	3A2-006	35-41'35"N	83-02'45"W	29NOV84
PENNSYLVANIA	(NO NAME)	1B1-026	41-19'30"N	75-03'45"W	31OCT84
	(NO NAME)	1B1-032	41-18'25"N	74-59'15"W	31OCT84
	(NO NAME)	1B2-048	41-02'45"N	75-24'00"W	15NOV84
	(NO NAME)	1B3-015	41-47'20"N	75-38'15"W	15NOV84
	BASSETT POND	1B3-062	41-35'33"N	75-42'40"W	16NOV84
	BEAR CREEK LAKE	1B2-040	41-11'00"N	75-45'15"W	01NOV84
	BELMONT LAKE	1B2-051	41-46'36"N	75-26'30"W	03NOV84
	BOYLE POND	1B2-069	41-10'11"N	75-55'30"W	16NOV84
	BRADYS LAKE	1B1-041	41-10'00"N	75-31'45"W	01NOV84
	BRONSON POND	1B2-011	41-31'30"N	75-26'15"W	16NOV84
	BROWNS POND	1B3-014	41-48'50"N	76-35'00"W	12NOV84
	BRUCE LAKE	1B1-025	41-21'00"N	75-10'15"W	31OCT84
	COBEY POND	1B1-012	41-34'00"N	75-04'15"W	03NOV84
	CORD POND	1B3-021	41-39'10"N	75-51'00"W	16NOV84
	CRAFT POND	1B3-028	41-26'05"N	75-17'15"W	03NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
PENNSYLVANIA (cont)	CRESENT LAKE	1B2-049	41-04'15"N	75-23'10"W	06NOV84
	CRYSTAL LAKE	1B2-039	41-10'00"N	75-50'00"W	01NOV84
	CURTIS POND	1B2-062	41-32'08"N	75-22'40"W	07NOV84
	CURTIS RESERVOIR	1B2-019	41-22'55"N	75-30'15"W	07NOV84
	DEEP HOLLOW POND	1B2-027	41-15'20"N	75-47'40"W	07NOV84
	EAST STROUDSBURG RESERV.	1B3-041	41-04'00"N	75-10'00"W	01NOV84
	ELK LAKE	1B2-006	41-37'20"N	75-23'05"W	07NOV84
	ELSTONS POND	1B3-030	41-22'20"N	75-58'15"W	01NOV84
	FIRST POND	1B2-047	41-08'05"N	75-01'35"W	18NOV84
	GANOGA LAKE	1B1-010	41-21'30"N	76-19'15"W	12NOV84
	GLENBURN POND	1B3-026	41-31'00"N	75-43'45"W	16NOV84
	GOOSE POND	1B1-038	41-15'10"N	75-11'40"W	31OCT84
	GOULDSBORO LAKE	1B1-034	41-14'00"N	75-27'15"W	07NOV84
	GRASSY POND	1B2-025	41-16'45"N	76-09'20"W	12NOV84
	GRAVEL POND	1B1-037	41-13'40"N	75-15'20"W	31OCT84
	HALF MOON POND	1B2-016	41-26'35"N	75-27'30"W	07NOV84
	HANOVER RESERVOIR	1B2-037	41-10'20"N	75-59'20"W	01NOV84
	HARTLEY POND	1B3-019	41-39'30"N	75-42'30"W	16NOV84
	HEMLOCK LAKE	1B1-031	41-18'15"N	75-02'50"W	31OCT84
	HENRY LAKE	1B2-030	41-17'00"N	75-29'10"W	03NOV84
	HOADLEY POND	1B2-058	41-33'32"N	75-23'55"W	07NOV84
	INDIAN LAKE	1B2-070	41-11'20"N	75-40'03"W	01NOV84
	INDIAN MOUNTAIN LAKE	1B1-050	41-00'19"N	75-30'20"W	15NOV84
	IVAN SWAMP	1B2-046	41-08'26"N	75-09'14"W	16NOV84
	KIZER POND	1B2-066	41-27'21"N	75-27'38"W	16NOV84
	LAKE EARNEST	1B1-030	41-17'20"N	75-09'35"W	31OCT84
	LAKE GILES	1B1-022	41-22'30"N	75-05'40"W	31OCT84
	LAKE HENRY	1B2-017	41-27'00"N	75-26'50"W	16NOV84
	LAKE JAMIE	1B1-036	41-14'30"N	75-17'15"W	07NOV84
	LAKE JOHN	1B1-006	41-25'50"N	76-16'15"W	12NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
PENNSYLVANIA (cont)	LAKE LODORE	1B2-009	41-34'10"N	75-23'30"W	07NOV84
	LAKE MASKENOZHA	1B2-064	41-11'18"N	74'59'15"W	18NOV84
	LAKE MINISINK	1B1-067	41-12'57"N	75-03'13"W	15NOV84
	LAKE PAUPACK	1B1-024	41-19'30"N	75-15'30"W	31OCT84
	LITTLE BUTLER LAKE	1B3-012	41-51'45"N	75-37'40"W	15NOV84
	LITTLE ELK LAKE	1B3-017	41-45'30"N	75-56'30"W	12NOV84
	LITTLE KEEN POND	1B2-010	41-35'45"N	75-22'45"W	07NOV84
	LOG TAVERN POND	1B1-033	41-18'40"N	74-55'45"W	15NOV84
	LOPEZ POND	1B1-007	41-23'50"N	76-23'28"W	12NOV84
	LOWER LAKE (WEST)	1B1-066	41-18'52"N	75-13'53"W	31OCT84
	MANZANEDO LAKE	1B2-045	41-07'00"N	75-11'45"W	01NOV84
	MAPLE LAKE	1B2-022	41-19'45"N	75-35'00"W	07NOV84
	MARCEL LAKE	1B1-040	41-15'20"N	74-57'15"W	31OCT84
	MEADOW RUN PO.(LG.NORTH)	1B2-055	41-13'29"N	75-40'02"W	01NOV84
	MEADOW RUN PONDS (SOUTH)	1B2-034	41-12'55"N	75-40'15"W	01NOV84
	MEMORY LAKE	1B1-028	41-18'40"N	75-25'45"W	03NOV84
	MILL CREEK RESERVOIR	1B2-028	41-15'45"N	75-45'00"W	16NOV84
	MILLPOND NO. 1	1B1-064	41-10'47"N	75-24'39"W	07NOV84
	MOOSIC LAKES (EASTERN)	1B2-015	41-26'10"N	75-30'45"W	07NOV84
	MUD POND	1B1-027	41-21'00"N	74-54'20"W	31OCT84
	MUD POND	1B2-007	41-38'05"N	75-22'15"W	07NOV84
	MUD POND	1B2-059	41-23'01"N	75-31'35"W	07NOV84
	NO NAME(ALLENS LAKE)	1B1-003	41-40'10"N	76-37'15"W	12NOV84
	NO NAME(EAST LAKE)	1B1-044	41-08'30"N	75-32'30"W	01NOV84
	NO NAME(FOREST LAKE)	1B1-070	41-30'47"N	75-04'17"W	03NOV84
	NO NAME(GARDNERS DAM)	1B2-056	41-16'15"N	75-45'47"W	16NOV84
	NO NAME(HIAWATHA LAKE)	1B2-065	41-07'33"N	75-10'52"W	01NOV84
	NO NAME(HIDDEN LAKE)	1B2-031	41-13'00"N	76-12'00"W	01NOV84
	NO NAME(LAKE ALEEDA)	1B2-033	41-14'45"N	75-43'15"W	16NOV84
	NO NAME(LAKE IN THE WOODS)	1B1-059	41-15'23"N	75-15'29"W	31OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
PENNSYLVANIA (cont)	NO NAME(LAKE JAMIE)	1B3-036	41-15'00"N	74-54'25"W	31OCT84
	NO NAME(LAKE PINCREST)	1B2-036	41-11'00"N	76-14'40"W	01NOV84
	NO NAME(LAKE SINCA)	1B1-058	41-06'04"N	75-35'47"W	01NOV84
	NO NAME(SNOWFLAKE LAKE)	1B3-053	41-54'18"N	75-24'37"W	03NOV84
	NO NAME(SOUTH MTN. LAKE)	1B1-004	41-37'30"N	76-45'20"W	12NOV84
	NO NAME(ST. TIKHONS DAM)	1B2-013	41-30'45"N	75-24'00"W	16NOV84
	NO NAME(STAIRWAY LAKE)	1B1-069	41-24'45"N	74-47'59"W	10NOV84
	NO NAME(SWACKHAMMER LAKE)	1B2-008	41-33'15"N	75-26'35"W	07NOV84
	NO NAME(WILSON CREEK DAM)	1B1-029	41-17'30"N	75-14'20"W	31OCT84
	NORTH LAKE	1B2-053	41-17'30"N	76-08'39"W	16NOV84
	ORSON POND	1B2-001	41-48'45"N	75-26'40"W	03NOV84
	PENN LAKE	1B1-043	41-06'45"N	75-46'10"W	01NOV84
	PLACID LAKE	1B1-048	41-01'40"N	75-36'45"W	01NOV84
	POCONO SUMMIT LAKE	1B1-046	41-07'15"N	75-23'10"W	06NOV84
	PORTERS LAKE	1B1-039	41-15'05"N	75-03'30"W	15NOV84
	POYNTELLE LAKE	1B2-002	41-49'17"N	75-24'38"W	03NOV84
	ROCK HILL POND	1B1-055	41-18'49"N	75-00'58"W	31OCT84
	ROCK LAKE	1B2-005	41-46'20"N	75-19'30"W	03NOV84
	ROUSE POND	1B1-008	41-25'35"N	76-17'15"W	12NOV84
	SCHMITTHENNER LAKE	1B1-063	41-26'15"N	76-14'38"W	12NOV84
	SECOND POND	1B2-042	41-08'45"N	75-01'45"W	18NOV84
	SLY LAKE	1B3-060	41-49'25"N	75-20'14"W	03NOV84
	SUNRISE LAKE	1B1-068	41-19'10"N	74-57'37"W	31OCT84
	SWIFTWATER LAKE	1B2-044	41-05'53"N	75-16'39"W	01NOV84
	TAMARACK LAKE	1B2-054	41-15'16"N	75-29'34"W	03NOV84
	TELSHAW POND	1B2-012	41-31'00"N	75-25'30"W	16NOV84
	THE ICE PONDS (EAST)	1B2-038	41-08'35"N	75-56'15"W	01NOV84
	TINKWIG LAKE	1B1-015	41-30'00"N	75-07'35"W	03NOV84
	TROUT LAKE	1B3-043	41-00'15"N	75-20'30"W	01NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
PENNSYLVANIA (cont)	TWIN LAKES (BRINK P)	1B1-023	41-23'00"N	74-54'15"W	31OCT84
	WILKINSON LAKE	1B1-042	41-11'20"N	75-10'05"W	16NOV84
RHODE ISLAND	ARNOLD MILLS RES	1D3-026	41-59'00"N	71-23'45"W	04NOV84
	ASHVILLE POND	1D1-065	41-30'03"N	71-45'23"W	04NOV84
	FLAT RIVER RES. (EAST ARM)	1D2-085	41-41'01"N	71-36'00"W	04NOV84
	KING POND	1D2-069	41-46'22"N	71-39'38"W	04NOV84
	LAKE MISHNOCK	1D1-066	41-39'14"N	71-35'29"W	04NOV84
	LARKIN POND	1D1-059	41-28'12"N	71-33'30"W	04NOV84
	ROUND POND	1D1-067	41-58'17"N	71-46'20"W	08NOV84
	SCHOOL HOUSE POND	1D1-027	41-24'00"N	71-40'00"W	04NOV84
	SECRET LAKE	1D1-022	41-33'15"N	71-28'45"W	04NOV84
	SPRING GROVE POND	1D2-049	41-54'35"N	71-39'00"W	04NOV84
	THE RESERVOIR	1D1-024	41-32'25"N	71-31'30"W	04NOV84
	TIOGUE LAKE	1D2-050	41-40'45"N	71-33'00"W	04NOV84
	TIPPECANSETT POND	1D1-021	41-35'50"N	71-47'00"W	04NOV84
	WATERMAN POND	1D1-019	41-42'50"N	71-43'45"W	04NOV84
	WILSON RESERVOIR	1D1-018	41-58'10"N	71-43'45"W	08NOV84
SOUTH CAROLINA	(NO NAME)	3A2-044	34-51'58"N	83-06'11"W	24NOV84
	(NO NAME)	3A3-011	35-05'15"N	81-44'35"W	25NOV84
	(NO NAME)	3A3-012	34-57'05"N	82-23'37"W	29NOV84
	(NO NAME)	3A3-082	34-32'00"N	82-23'00"W	29NOV84
	(NO NAME)	3A3-084	35-05'42"N	81-44'20"W	25NOV84
	BOYD MILLPOND	3A3-074	34-27'30"N	82-12'30"W	29NOV84
	HARPER POND	3A2-048	34-39'13"N	83-11'28"W	24NOV84
	HARTWELL LAKE	3A3-053	34-22'30"N	82-50'30"W	27NOV84
	LAKE JOCASSEE	3A2-039	34-58'31"N	82-56'16"W	29NOV84
	LAKE LANIER	3A3-009	35-11'40"N	82-14'05"W	25NOV84
	LAKE WILLIAM C. BOWEN	3A3-072	35-06'30"N	82'03'00"W	25NOV84
	PINNACLE LAKE	3A2-042	35-01'45"N	82-41'50"W	29NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
SOUTH CAROLINA (cont)	TANKERSLEY LAKE	3A2-043	35-06'05"N	82-32'48"W	29NOV84
	YONAH LAKE	3A2-045	34-41'19"N	83-20'19"W	24NOV84
TENNESSEE	CALDERWOOD LAKE	3A1-002	35-29'45"N	83-58'00"W	20NOV84
	INDIAN BOUNDARY LAKE	3A1-005	35-23'52"N	84-06'50"W	20NOV84
	LAKE IN THE SKY	3A2-005	35-39'15"N	83-54'28"W	20NOV84
	LAKE OCOEE	3A2-012	35-05'42"N	84-36'59"W	20NOV84
	LAUREL LAKE	3A2-059	35-40'15"N	83-47'52"W	20NOV84
	WILBUR LAKE	3A3-058	36-20'17"N	82-07'05"W	29NOV84
VERMONT	(NO NAME)	1C3-059	44-32'06"N	73-05'52"W	29OCT84
	BEAN POND	1C1-081	44-41'50"N	72-05'15"W	29OCT84
	BERLIN POND	1C3-022	44-11'15"N	72-35'15"W	25OCT84
	BREESE POND	1C3-014	43-42'50"N	73-13'00"W	03NOV84
	CLARK POND	1C1-063	44-38'40"N	72-12'15"W	29OCT84
	DANIELS POND	1C1-062	44-40'30"N	72-15'40"W	29OCT84
	DERBY POND	1C3-009	44-57'00"N	72-07'00"W	18OCT84
	ECHO POND	1C1-061	44-51'40"N	72-00'00"W	29OCT84
	FERN LAKE	1C1-059	43-52'00"N	73-04'15"W	03NOV84
	FOSTERS POND	1C2-019	44-19'45"N	72-12'45"W	25OCT84
	GILLETT POND	1C3-012	44-21'15"N	72-57'45"W	29OCT84
	GREAT AVERILL POND	1C1-060	44-59'00"N	71-42'00"W	18OCT84
	HIDDEN LAKE	1C1-069	42-52'50"N	72-43'10"W	06NOV84
	KETTLE POND	1C3-064	44-17'40"N	72-19'08"W	25OCT84
	LAKE PARAN	1C3-066	42-55'57"N	73-14'00"W	04NOV84
	LAKE ST. CATHERINE	1C3-072	43-27'30"N	73-12'30"W	03NOV84
	LEVI POND	1C2-070	44-16'00"N	72-13'40"W	25OCT84
	LITTLE ELMORE POND	1C1-056	44-29'45"N	72-31'50"W	29OCT84
	LOWELL LAKE	1C1-064	43-13'30"N	72-45'45"W	23OCT84
	MUD POND	1C3-021	44-23'40"N	72-23'15"W	29OCT84
	NEAL POND	1C3-024	44-29'30"N	71-41'30"W	25OCT84
	SADAWGA LAKE	1C3-031	42-47'00"N	72-52'30"W	06NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
VERMONT (cont)	SALEM POND	1C3-051	44-55'47"N	72-06'17"W	18OCT84
	SHERMAN RESERVOIR	1C2-052	42-44'30"N	72-55'35"W	07NOV84
	ST ALBANS RES (SO. PART)	1C3-011	44-45'30"N	73-03'50"W	29OCT84
	SUNRISE LAKE	1C3-013	43-45'38"N	73-15'35"W	03NOV84
	THE POGUE	1C2-021	43-38'00"N	72-32'35"W	23OCT84
	UNKNOWN POND	1C2-006	44-39'55"N	71-43'22"W	25OCT84
	WALKER POND	1C3-065	43-44'33"N	73-08'27"W	03NOV84
VIRGINIA	CLAYTOR LAKE	3A3-087	37-03'45"N	80'36'30"W	21NOV84
	FAIRY STONE LAKE	3A2-001	36-48'04"N	80-06'37"W	21NOV84
	SMITH MTN LAKE	3A3-092	37-02'30"N	79-35'00"W	21NOV84
	TIMBER LAKE	3A3-001	37-19'00"N	79-16'15"W	21NOV84
WISCONSIN	(NO NAME)	2C1-039	45-29'20"N	89-25'30"W	29OCT84
	(NO NAME)	2C1-044	45-25'15"N	89-22'10"W	08NOV84
	(NO NAME)	2C1-059	46-01'22"N	89-42'39"W	30OCT84
	(NO NAME)	2C2-007	46-09'55"N	89-45'35"W	06NOV84
	(NO NAME)	2C2-029	45-56'05"N	89-54'55"W	01NOV84
	(NO NAME)	2D1-009	46-22'38"N	91-36'25"W	12NOV84
	(NO NAME)	2D1-020	46-22'05"N	91-36'55"W	12NOV84
	(NO NAME)	2D1-038	46-14'10"N	91-46'52"W	06NOV84
	(NO NAME)	2D1-049	46-11'02"N	91-42'20"W	12NOV84
	(NO NAME)	2D1-068	46-15'14"N	91-40'09"W	08NOV84
	(NO NAME)	2D1-088	46-22'14"N	91-36'29"W	05NOV84
	(NO NAME)	2D2-017	45-58'37"N	91-49'50"W	04NOV84
	(NO NAME)	2D2-022	45-55'45"N	92-03'33"W	03NOV84
	(NO NAME)	2D2-026	45-46'50"N	91-34'17"W	04NOV84
	(NO NAME)	2D2-027	45-43'47"N	91-49'55"W	04NOV84
	(NO NAME)	2D2-030	45-44'44"N	91-34'40"W	04NOV84
	(NO NAME)	2D2-035	45-42'21"N	91-36'25"W	04NOV84
	(NO NAME)	2D2-036	45-41'32"N	91-35'22"W	04NOV84
	(NO NAME)	2D2-041	45-41'14"N	92-01'26"W	03NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
WISCONSIN (cont)	(NO NAME)	2D2-051	45-45'13"N	92-25'47"W	28OCT84
	(NO NAME)	2D2-062	45-57'00"N	92-04'45"W	03NOV84
	(NO NAME)	2D2-065	45-44'42"N	91-35'51"W	04NOV84
	(NO NAME)	2D2-070	45-38'35"N	92-01'09"W	03NOV84
	(NO NAME)	2D2-074	45-29'26"N	92-05'08"W	03NOV84
	ALDER LAKE	2D2-024	45-46'52"N	91-45'45"W	04NOV84
	ALEXANDER LAKE	2D1-072	46-13'06"N	91-40'50"W	07NOV84
	ALICE LAKE	2C1-028	45-48'10"N	89-44'00"W	01NOV84
	ALVA LAKE	2C1-032	45-42'30"N	89-35'35"W	27OCT84
	ANDERSON LAKE	2D3-042	45-12'15"N	90-35'23"W	07NOV84
	BASS LAKE	2C2-039	45-42'55"N	89-23'05"W	29OCT84
	BASS LAKE	2C3-004	46-17'10"N	90-02'45"W	06NOV84
	BASS LAKE	2D1-030	46-13'00"N	91-51'15"W	06NOV84
	BASS LAKE	2D2-057	45-36'40"N	91-49'56"W	07NOV84
	BEAR LAKE	2B1-070	46-29'29"N	91-18'11"W	05NOV84
	BEARSKIN LAKE	2C3-037	45-44'00"N	89-41'00"W	27OCT84
	BEAUREGARD LAKE	2D1-025	46'20'30"N	91-35'30"W	07NOV84
	BEGLINGER LAKE	2D1-067	46-13'13"N	91-50'54"W	06NOV84
	BENA LAKE	2C3-005	46-17'30"N	89-53'55"W	06NOV84
	BIG DONAHUE LAKE	2C2-014	46-10'16"N	89-18'47"W	04NOV84
	BIG GIBSON LAKE	2C3-018	46-08'15"N	89-33'15"W	06NOV84
	BIG ROUND LAKE	2D3-053	45-31'34"N	92-18'00"W	03NOV84
	BIRCH LAKE	2C1-045	45-21'35"N	89-13'20"W	05NOV84
	BLACK FOX LAKE	2D1-022	46-21'45"N	91-36'38"W	05NOV84
	BLUEGILL LAKE	2D1-056	46-12'40"N	91-51'38"W	06NOV84
	BOBS LAKE	2C1-033	45-41'48"N	89-32'05"W	29OCT84
	BOG LAKE	2B3-060	46-29'47"N	91-19'38"W	05NOV84
	BOLIN LAKE	2C3-020	46-05'07"N	89-51'05"W	06NOV84
	BOOT LAKE	2D1-063	46-20'18"N	91-37'48"W	05NOV84
	BORTH LAKE	2C1-049	45-17'00"N	89-10'07"W	05NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
WISCONSIN (cont)	BRAGONIER LAKE	2C2-032	45-54'30"N	89-24'20"W	30OCT84
	BRICHER LAKE	2D2-069	45-57'54"N	92-20'35"W	28OCT84
	BUCK LAKE	2C1-038	45-35'30"N	89-25'00"W	08NOV84
	BUFF LAKE	2D2-055	45-45'18"N	91-29'24"W	04NOV84
	CANTHOOK LAKE	2B2-001	46-28'22"N	91-21'20"W	05NOV84
	CAP HENRY LAKE	2C2-026	46-00'45"N	90-01'15"W	07NOV84
	CARLIN LAKE	2C2-005	46-12'00"N	89-46'35"W	06NOV84
	CEDAR LAKE	2C3-008	46-12'30"N	89-57'15"W	06NOV84
	CHAIN LAKES (NORTHWEST)	2D1-048	46-11'55"N	91-44'20"W	12NOV84
	CHARNLEY LAKE	2C2-025	46-01'15"N	90-09'00"W	07NOV84
	CHENEY LAKE	2D1-076	46-22'54"N	91-42'02"W	05NOV84
	CHICKAREE LAKE	2C1-026	45-54'25"N	89-21'30"W	30OCT84
	CHIPPANAZIE LAKE	2D3-062	46-02'21"N	91-33'34"W	04NOV84
	CLEAR LAKE	2C3-043	45-32'00"N	89-43'25"W	29OCT84
	COCHRAM LAKE	2C3-024	45-57'52"N	90-06'30"W	07NOV84
	COFFEE LAKE	2D1-004	46-27'28"N	91-43'27"W	07NOV84
	COLUMBUS LAKE	2C3-033	45-50'15"N	89-15'00"W	31OCT84
	CRANBERRY LAKE	2D2-046	45-33'33"N	92-04'56"W	03NOV84
	CRAWFORD LAKE	2C2-056	45-25'53"N	88-51'26"W	05NOV84
	CRESCENT LAKE	2C3-057	45-36'08"N	89-31'20"W	08OCT84
	CROOKED LAKE	2D1-045	46-12'00"N	91-39'00"W	12NOV84
	DEEP LAKE	2B1-016	46-29'37"N	91-14'30"W	06NOV84
	DEER LAKE	2C3-035	45-49'10"N	89-16'45"W	31OCT84
	DEER LAKE	2D1-001	46-29'43"N	91-42'50"W	08NOV84
	DEER PRINT LAKE	2D1-055	46-21'35"N	91-37'09"W	05NOV84
	DIKE 4&5 FLOWAGE	2D3-029	45-50'39"N	92-39'37"W	28OCT84
	EAGLE LAKE	2C1-024	46-01'55"N	89-49'35"W	06NOV84
	EAGLE LAKE	2C3-056	45-56'00"N	89-12'30"W	31OCT84
	EDITH LAKE	2C1-017	46-05'15"N	89-42'25"W	06NOV84
	ELM LAKE	2C3-038	45-46'10"N	89-03'30"W	10OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
WISCONSIN (cont)	ERWIN LAKE	2C3-016	46-09'50"N	89-26'55"W	04NOV84
	EUGENE LAKE	2C3-046	45-28'05"N	88-40'00"W	05NOV84
	EVELYN LAKE	2D2-006	46-09'15"N	91-02'00"W	01NOV84
	FANNY LAKE	2C3-060	45-16'03"N	88-39'58"W	05NOV84
	FEELY LAKE	2C3-013	46-10'00"N	90-07'10"W	07NOV84
	FINGER LAKE	2B1-012	46-30'45'N	91-16'10"W	06NOV84
	FIREFLY LAKE	2C1-019	45-59'57"N	89-38'00"W	30OCT84
	FLAT LAKE	2D1-084	46-19'30"N	91-43'53"W	08NOV84
	FOUR DUCKS LAKE	2C2-044	45-53'40"N	88-59'15"W	10OCT84
	GAME LAKE	2C1-058	45-19'12"N	89-05'25"W	05NOV84
	GANDER LAKE	2D1-061	46-27'15"N	91-43'45"W	07NOV84
	GARTH LAKE	2C1-030	45-45'45"N	89-45'00"W	01NOV84
	GERBICK LAKE	2C2-046	45-27'35"N	89-36'05"W	08OCT84
	GOOSE LAKE	2D2-048	45-18'22"N	91-21'08"W	07NOV84
	GROSS LAKE	2C1-055	45-34'43"N	89-26'05"W	08NOV84
	GULL LAKE	2D2-016	45-59'22"N	91-44'59"W	04NOV84
	GUNLOCK LAKE	2C3-029	45-54'50"N	89-49'15"W	07NOV84
	HALFWAY LAKE	2D1-037	46-13'00"N	91-48'15"W	06NOV84
	HAPPLES LAKE	2B2-099	46-28'49"N	91-22'08"W	05NOV84
	HARMON LAKE	2D2-025	45-46'42"N	91-39'50"W	04NOV84
	HARRIET LAKE	2D1-081	46-13'07"N	91-47'30"W	06NOV84
	HAUGEN LAKE	2D1-042	46-13'22"N	91-39'55"W	07NOV84
	HAY LAKE	2B1-057	46-28'46"N	91-17'09"W	05NOV84
	HEADQUARTERS LAKE	2D3-035	45-36'05"N	87-57'37"W	25OCT84
	HERON LAKE	2D3-070	45-44'43"N	91-29'18"W	04NOV84
	HIAWATHA LAKE	2C3-015	46-11'20"N	89-49'50"W	06NOV84
	HIGH LAKE	2C1-042	45-25'30"N	89-32'00"W	29OCT84
	HIGH LIFE LAKE	2D1-010	46-22'27"N	91-34'40"W	13NOV84
	HINDU LAKE	2C3-047	45-22'30"N	88-59'07"W	05NOV84
	HONEYSUCKLE LAKE	2C1-016	45-57'45"N	89-21'35"W	30OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
WISCONSIN (cont)	HORSEHEAD LAKE	2C2-004	46-14'00"N	89-43'00"W	09OCT84
	HORSESHOE LAKE	2C2-047	45-18'45"N	89-37'50"W	29OCT84
	ISLAND LAKE	2B1-010	46-32'18"N	91-18'20"W	06NOV84
	ISLAND LAKE	2D1-052	46-21'12"N	91-46'04"W	05NOV84
	JOEL FLOWAGE	2D3-039	45-23'29"N	92-13'02"W	03NOV84
	JOHN LAKE	2C1-007	46-13'45"N	89-38'55"W	09OCT84
	JUNGLE LAKE	2C2-050	45-27'15"N	88-50'00"W	05NOV84
	KASOMO LAKE	2C2-030	45-57'05"N	89-31'50"W	31OCT84
	KELLEYS LAKE	2D3-059	45-36'59"N	92-08'50"W	03NOV84
	KINNY LAKE	2D2-067	45-40'57"N	92-00'49"W	03NOV84
	KNIFE LAKE	2C2-052	46-13'25"N	89-40'04"W	09OCT84
	LAKE CLARA	2C2-058	45-30'44"N	89-34'15"W	08OCT84
	LAKE DORIS	2C1-040	45-26'25"N	89-29'10"W	29OCT84
	LAKE LAURA	2C3-021	46-03'30"N	89-26'15"W	09OCT84
	LAKE LUCERNE	2C3-044	45-31'45"N	88-51'00"W	05NOV84
	LAKE MARIE	2C2-040	45-47'20"N	89-54'35"W	01NOV84
	LAKE NINETEEN	2D3-057	45-14'27"N	90-32'10"W	07NOV84
	LAKE NOKOMIS	2C3-041	45-33'15"N	89-44'00"W	07NOV84
	LAKE PLEASANT	2C1-014	46-06'05"N	89-13'35"W	04NOV84
	LAKE RUTH	2B2-005	46-30'15"N	91-25'30"W	05NOV84
	LAKE THIRTY	2D2-054	45-34'50"N	91-54'04"W	07NOV84
	LESTER LAKE	2B1-013	46-30'00"N	91-18'20"W	05NOV84
	LITTLE BASS LAKE	2C1-027	45-51'45"N	89-36'40"W	01NOV84
	LITTLE JOHN JR LAKE	2C1-018	46-00'15"N	89-38'20"W	30OCT84
	LITTLE PAPOOSE LAKE	2C3-059	46-11'03"N	89-49'15"W	06NOV84
	LITTLE PINE LAKE	2D2-082	45-17'02"N	91-28'57"W	07NOV84
	LITTLE SAND LAKE	2C2-049	45-28'15"N	88-55'15"W	08NOV84
	LITTLE SPIDER LAKE	2C2-036	45-45'40"N	89-25'55"W	29OCT84
	LITTLE ST GERMAIN LAKE	2C3-030	45-55'35"N	89-27'00"W	31OCT84
	LITTLE TWIN LAKE	2C3-049	45-21'40"N	88-54'05"W	05NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
WISCONSIN (cont)	LOGGER LAKE	2D2-071	45-14'21"N	91-22'50"W	07NOV84
	LONG INTERLAKEN LAKE	2C2-028	45-57'45"N	89-54'00"W	01NOV84
	LONG LAKE	2B1-023	46-39'43"N	91-03'15"W	01NOV84
	LONG LAKE	2D1-077	46-20'08"N	91-46'49"W	12NOV84
	LONG LAKE (NORTH END)	2C2-034	45-47'37"N	89-29'35"W	27OCT84
	LOON LAKE	2B1-005	46-34'15"N	91-18'45"W	06NOV84
	LOON LAKE	2D2-047	45-28'10"N	92-07'43"W	03NOV84
	LOON LAKE	2D2-049	45-14'48"N	91-28'00"W	07NOV84
	LOON LAKE	2D2-064	45-41'07"N	91-36'53"W	04NOV84
	LOST LAKE	2C2-037	45-45'05"N	89-24'40"W	29OCT84
	LOST LAKE	2C2-038	45-46'10"N	89-19'10"W	31OCT84
	LOST LAKE	2D2-076	45-43'01"N	91-50'54"W	04NOV84
	LOWER HOLLY LAKE	2D3-060	45-50'28"N	91-28'08"W	04NOV84
	LOWER KAUBASHINE LAKE	2C3-034	45-48'35"N	89-45'00"W	01NOV84
	LOWLAND LAKE	2D2-050	45-12'24"N	91-21'44"W	07NOV84
	LUND LAKE	2D1-065	46-19'05"N	91-34'45"W	07NOV84
	MCGRATH LAKE	2C1-029	45-47'30"N	89-38'40"W	01NOV84
	METZGER LAKE	2D1-017	46-19'08"N	91-41'17"W	05NOV84
	MIDDLE SUGARBUSH LAKE	2C3-025	46-01'35"N	89-53'45"W	07NOV84
	MIDGET LAKE	2C2-048	45-30'00"N	88-47'40"W	05NOV84
	MILL LAKE	2C2-035	45-48'00"N	89-19'30"W	31OCT84
	MILLER LAKE	2C1-060	45-49'14"N	89-36'11"W	01NOV84
	MINNOW LAKE	2C3-051	45-48'38"N	89-16'31"W	31OCT84
	MINONK LAKE	2C2-003	46-15'00"N	89-46'20"W	06NOV84
	MIRROR LAKE	2D1-026	46-21'25"N	91-34'45"W	13NOV84
	MOODY LAKE	2D2-068	45-45'43"N	91-44'42"W	04NOV84
	MOOSE EAR LAKE	2D3-040	45-19'50"N	91-34'24"W	07NOV84
	MUD LAKE	2C2-045	45-31'00"N	89-33'28"W	08OCT84
	MUD MINNOW LAKE	2C2-042	45-52'45"N	89-15'30"W	31OCT84
	MULLENHOFF LAKE	2B2-077	46-32'14"N	91-24'08"W	05NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
WISCONSIN (cont)	MULLIGAN LAKE	2D1-041	46-12'30"N	91-41'40"W	12NOV84
	MUSKELLUNGE LAKE	2C2-031	45-57'00"N	89-22'45"W	30OCT84
	MUSKESIN LAKE	2C3-052	46-01'06"N	89-54'48"W	07NOV84
	MUSKIE LAKE	2C1-031	45-44'00"N	89-38'15"W	27OCT84
	MUSKRAT LAKE	2D1-012	46-20'45"N	91-45'15"W	12NOV84
	NELLIE LAKE	2C2-019	46-05'45"N	89-35'00"W	09OCT84
	NEWBOLD LAKE	2C1-051	45-42'23"N	89-33'12"W	29OCT84
	NIOBE LAKE	2D3-051	45-07'20"N	88-54'14"W	05NOV84
	NORTHEAST LAKE	2D3-020	46-16'10"N	91-12'30"W	01NOV84
	NOSEEUM LAKE	2C2-006	46-11'20"N	89-49'15"W	06NOV84
	OAK LAKE	2D2-060	45-47'00"N	91-46'17"W	04NOV84
	OSCEOLA LAKE	2C1-013	46-07'32"N	89-19'02"W	06NOV84
	PARTRIDGE LAKE	2C1-046	45-20'45"N	89-16'30"W	08NOV84
	PERCH LAKE	2B1-020	46-47'45"N	91-05'40"W	01NOV84
	PERCH LAKE	2C1-054	46-08'46"N	89-15'00"W	04NOV84
	PERCH LAKE	2D3-065	45-22'19"N	87-59'19"W	25OCT84
	PHANTOM LAKE	2B1-015	46-29'30"N	91-17'45"W	05NOV84
	PICKEREL LAKE	2D2-038	45-37'47"N	91-36'00"W	07NOV84
	PIKE LAKE	2D2-072	45-49'53"N	92-17'28"W	28OCT84
	PINE LAKE	2C2-054	45-49'29"N	89-55'24"W	01NOV84
	PINE LAKE	2D1-082	46-30'29"N	91-39'10"W	07NOV84
	PLYMOUTH LAKE	2C1-053	46-02'26"N	88-59'21"W	10OCT84
	PRESQUE ISLE LAKE	2C3-009	46-13'30"N	89-47'00"W	06NOV84
	PRUNE LAKE	2C1-035	45-37'20"N	89-30'20"W	08OCT84
	QUARTZ LAKE	2C2-043	45-56'55"N	88-57'30"W	10OCT84
	RAINBOW FLOWAGE (S. END)	2C2-033	45-49'30"N	89-29'15"W	29OCT84
	RAINY LAKE	2D2-079	46-03'36"N	91-43'27"W	04NOV84
	RICHARDSON LAKE	2B2-075	46-32'22"N	91-27'51"W	05NOV84
	ROACH LAKE	2C3-026	45-57'37"N	89-37'15"W	30OCT84
	ROCK LAKE	2D1-018	46-20'35"N	91-37'00"W	05NOV84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
WISCONSIN (cont)	ROGER LAKE	2B2-074	46-31'34"N	91-25'24"W	05NOV84
	ROUND LAKE	2D2-053	45-53'41"N	92-12'29"W	03NOV84
	RUDOLPH LAKE	2C1-056	46-12'30"N	89-39'33"W	09OCT84
	RUSSET LAKE	2C1-008	46-11'50"N	89-36'30"W	09OCT84
	SAWMILL LAKE	2B1-019	46-28'50"N	91-14'45"W	06NOV84
	SAWMILL LAKE	2D2-031	45-45'12"N	91-33'22"W	04NOV84
	SETTING LAKE	2C3-050	45-15'50"N	88-41'25"W	05NOV84
	SEVEN ISLAND LAKE	2C1-043	45-25'30"N	89-28'00"W	29OCT84
	SHALLOW LAKE	2D2-033	45-41'00"N	91-52'54"W	04NOV84
	SHALLOW POND	2C2-053	45-46'29"N	89-28'39"W	29OCT84
	SILVER LAKE	2C3-054	45-28'23"N	89-12'07"W	05NOV84
	SIME LAKE	2C2-018	46-09'30"N	89-31'15"W	09OCT84
	SMITH LAKE	2D1-007	46-23'53"N	91-42'30"W	08NOV84
	SNAG LAKE	2C1-047	45-19'20"N	89-13'10"W	05NOV84
	SNAKE LAKE	2D1-050	46-11'43"N	91-40'05"W	07NOV84
	SOUTH TWIN LAKE	2D3-041	45-16'22"N	90-26'16"W	07NOV84
	SPIDER LAKE	2B1-067	46-32'40"N	91-13'44"W	06NOV84
	SPIRIT LAKE	2C3-027	45-58'00"N	89-12'00"W	31OCT84
	SPRING LAKE	2D2-044	45-35'00"N	92-02'30"W	03NOV84
	SPRUCE LAKE	2C2-055	46-03'12"N	89-34'00"W	09OCT84
	SQUASH LAKE	2C1-037	45-36'00"N	89-33'00"W	08OCT84
	STAR LAKE	2D3-018	46-23'15"N	91-13'15"W	01NOV84
	STARRETT LAKE	2C2-021	46-01'40"N	89-34'25"W	31OCT84
	STEWART LAKE	2C2-060	46-00'55"N	89-23'53"W	30OCT84
	STONE LAKE	2C2-024	46-01'30"N	90-07'15"W	07NOV84
	SULLIVAN LAKE	2D1-047	46-11'15"N	91-46'30"W	13NOV84
	SUNDAY LAKE	2C1-021	45-53'25"N	89-51'20"W	01NOV84
	TANDA LAKE	2D2-019	45-56'48"N	92-16'22"W	28OCT84
	TANK LAKE	2D3-019	46-22'07"N	91-08'10"W	01NOV84
	TAYLOR LAKE	2C2-041	45-54'30"N	89-12'55"W	31OCT84

(continued)

TABLE A-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
WISCONSIN (cont)	TENDERFOOT LAKE	2C3-039	45-40'20"N	89-15'30"W	08NOV84
	THORN LAKE	2D1-043	46-13'30"N	91-39'20"W	12NOV84
	TORCH LAKE	2C1-015	46-01'25"N	89-16'30"W	30OCT84
	TOWANDA LAKE	2C1-020	45-56'30"N	89-42'30"W	01NOV84
	TOWER LAKE	2C2-022	46-07'32"N	89-26'15"W	04NOV84
	TRIPP LAKE	2D3-028	45-54'05"N	91-32'15"W	04NOV84
	TURTLE FLAMBEAU FLOWAGE	2C3-014	46-05'00"N	90-12'00"W	07NOV84
	TWIN LAKES (EASTERN)	2B1-022	46-41'06"N	91-03'30"W	01NOV84
	TWIN LAKES (NORTHERN)	2D1-078	46-21'12"N	91-44'00"W	08NOV84
	TWIN LAKES (SOUTH)	2D2-084	46-11'59"N	91-08'30"W	01NOV84
	TWIN LAKES (SOUTHERN)	2B1-008	46-33'00"N	91-16"30"W	06NOV84
	TWIN LAKES (SOUTHWEST)	2D1-014	46-20'45"N	91-44'20"W	08NOV84
	VENTOR LAKE	2C1-050	45-18'40"N	89-02'55"W	05NOV84
	VIOLA LAKE	2D2-023	45-49'04"N	92-15'00"W	03NOV84
	WANOKA LAKE	2B1-011	46-32'43"N	91-16'55"W	06NOV84
	WARD LAKE	2D2-040	45-45'25"N	92-25'06"W	28OCT84
	WARVET LAKE	2C1-011	46-05'15"N	89-07'05"W	10OCT84
	WEST BASS LAKE	2D3-031	45-46'45"N	88-20'10"W	25OCT84
	WHITE BIRCH LAKE	2C2-020	46-03'45"N	89-31'25"W	09OCT84
	WHITEYE LAKE	2C3-042	45-34'55"N	89-00'00"W	08NOV84
	WILD RICE LAKE	2C3-058	46-03'55"N	89-47'45"W	07NOV84
	WILDWOOD LAKE	2C1-034	45-41'00"N	89-27'50"W	29OCT84
	WINTERGREEN LAKE	2D3-036	45-35'40"N	92-11'13"W	03NOV84
	WISHOW LAKE	2C1-025	45-57'20"N	89-47'30"W	01NOV84
	WRIGHT LAKE	2B2-004	46-31'15"N	91-28'45"W	05NOV84

APPENDIX B

SPECIAL INTEREST LAKES SORTED BY STATE AND LAKE NAME

This Appendix (Table B-1) lists all special interest lakes (those not part of the probability sample), sorted by state and lake name.

The table includes: the name of the state in which the lake is located, the lake name as it appears on the appropriate USGS map, the lake ID, the latitude and longitude (in degrees-minutes-seconds), and the date the lake was sampled.

TABLE B-1. SPECIAL INTEREST LAKES SORTED BY STATE AND LAKE NAME

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
FLORIDA	CHERRY LAKE	3B3-183	30-37'00"N	83-24'53"W	14DEC84
	COMPASS LAKE	3B3-185	30-27'34"N	85-42'37"W	14DEC84
	CRYSTAL LAKE	3B3-184	30-27'14"N	85-42'08"W	14DEC84
	LAKE LUCERNE	3B3-186	28-04'46"N	81-41"03"W	05DEC84
	MAGNOLIA LAKE	3B1-141	29-49'28"N	82-01'07"W	11DEC84
	OCEAN POND	3B3-182	30-13'45"N	82-26'15"W	13DEC84
	SAND HILL (LOWRY) LA	3B1-142	29-50'54"N	82-00'29"W	13DEC84
	TOMAHAWK LAKE	3B1-144	29-07'58"N	81-54'25"W	10DEC84
	WILDCAT LAKE	3B1-143	29-09'54"N	81-37'45"W	09DEC84
GEORGIA	WINFIELD SCOTT LAKE	3A2-064	34-44'21"N	83-58'25"W	26NOV84
MAINE	ANDERSON POND	1E1-131	44-38'52"N	68-03'35"W	22OCT84
	LITTLE LONG POND	1E1-132	44-38'15"N	68-04'41"W	22OCT84
	MUD POND	1E1-134	44-37'59"N	68-05'27"W	22OCT84
	SALMON POND	1E1-135	44-37'53"N	68-05'10"W	22OCT84
	SPRING RIVER LAKE	1E1-136	44-37'10"N	68-03'00"W	22OCT84
	TILDEN POND	1E1-133	44-38'05"N	68-04'20"W	22OCT84
MICHIGAN	BUCKEYE LAKE	2B2-102	46-27'57"N	85-44'19"W	24OCT84
	CAMP EIGHT LAKE	2B2-104	46-35'57"N	85-40'12"W	24OCT84
	CHRIS BROWN LAKE	2B3-084	46-37'34"N	85-30'27"W	23OCT84
	CUSINO LAKE	2B2-105	46-27'16"N	86-15'30"W	20OCT84
	KELLY LAKE	2B3-083	46-26'24"N	85-38'45"W	23OCT84
	MONOCLE LAKE	2B3-081	46-28'30"N	84-38'45"W	22OCT84
	MURRAY LAKE	2B2-101	46-28'15"N	85-42'05"W	24OCT84
	NEWINS LAKE	2B2-106	46-31'00"N	86-14'35"W	20OCT84
	SMOKY LAKE	2C3-061	46-05'45"N	88-56'30"W	10OCT84
	STUART LAKE	2B2-103	46-35'24"N	85-30'35"W	23OCT84
	WARNERS LAKE	2B3-082	46-42'00"N	85-02'25"W	23OCT84

(continued)

TABLE B-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
MINNESOTA	CRUISER LAKE	2A2-063	48-29'54"N	92-48'19"W	21OCT84
	CRUM LAKE	2D3-072	47-51'50"N	93-18'37"W	13OCT84
	DUNNIGAN LAKE	2A3-088	47-42'30"N	91-37'50"W	08OCT84
	HUSTLER LAKE	2A1-061	48-14'00"N	92-09'30"W	30OCT84
	LOCATOR LAKE	2A2-067	48-32'26"N	93-00'13"W	21OCT84
	LOITEN LAKE	2A2-066	48-31'33"N	92-55'24"W	21OCT84
	LONG LAKE	2A3-087	48-18'25"N	92-43'30"W	21OCT84
	SHOEPACK LAKE	2A2-065	48-30'13"N	92-53'00"W	21OCT84
	SPRING LAKE	2A3-086	48-22'22"N	92-37'48"W	21OCT84
	WEIR LAKE	2A2-064	48-29'47"N	92-44'33"W	21OCT84
NEW HAMPSHIRE	AYERS POND	1C3-077	43-15'00"N	71-03'00"W	30OCT84
	CANAAN STREET LAKE	1C2-076	43-40'00"N	72-02'00"W	23OCT84
	CONTOOCOOK LAKE	1C2-077	42-47'30"N	72-00'30"W	01NOV84
	CRYSTAL LAKE	1C2-078	43-26'30"N	71-18'45"W	30OCT84
	FOREST LAKE	1C3-078	42-47'45"N	72-22'00"W	01NOV84
	GRANITE LAKE	1C1-116	43-01'15"N	72-08'30"W	24OCT84
	HALFMOON LAKE	1C2-079	43-23'30"N	71-13'45"W	30OCT84
	HUBBARD POND	1C2-080	42-46'45"N	71-58'00"W	03NOV84
	LOVELL LAKE	1C3-079	43-32'20"N	71-00'00"W	29OCT84
	ONWAY LAKE	1C2-081	43-02'30"N	71-13'15"W	30OCT84
	PEA PORRIDGE POND	1C1-117	43-56'28"N	71-07'15"W	25OCT84
	PROVINCE LAKE	1C1-118	43-41'30"N	71-00'00"W	29OCT84
	SAND POND	1C1-119	43-10'45"N	72-10'00"W	24OCT84
	SILVER LAKE	1C1-120	43-52'00"N	71-10'30"W	25OCT84
	SWAIN'S LAKE	1C3-080	43-11'30"N	71-03'00"W	30OCT84
	WEARE RESERVOIR	1C1-102	43-05'45"N	71-47'30"W	01NOV84
	WHITEOAK POND	1C2-082	43-43'05"N	71-33'30"W	24OCT84
NEW JERSEY	BUTLER RESERVOIR	1B3-080	41-01'45"N	74-23'07"W	16NOV84

(continued)

TABLE B-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
NEW JERSEY (cont)	CLINTON RESERVOIR	1B3-079	41-05'00"N	74-27'15"W	16NOV84
	CLYDE POTTS RESERVOIR	1B3-077	40-48'22"N	74-35'00"W	16NOV84
	FAIRVIEW LAKE	1B3-071	41-04'35"N	74-54'45"W	18NOV84
	GREEN POND	1B3-073	41-00'07"N	74-30'00"W	16NOV84
	HANKS POND	1B3-075	41-05'00"N	74-26'15"W	16NOV84
	LAKE DENMARK	1B3-076	40-58'15"N	74-31'00"W	16NOV84
	LAKE MARCIA	1B3-072	41-19'03"N	74-40'02"W	18NOV84
	LAKE OWASSA	1B3-070	41-09'15"N	74-48'45"W	18NOV84
	RAMAPO LAKE	1B3-074	41-02'15"N	74-16'00"W	16NOV84
	SAWMILL POND	1B3-069	41-17'37"N	74-41'15"W	18NOV84
	SPLITROCK RESERVOIR	1B3-078	40-59'00"N	74-26'15"W	16NOV84
NEW YORK	(UPPER)LOOMIS POND	1A2-070	43-18'15"N	74-29'40"W	30OCT84
	BARNES LAKE	1A2-076	43-34'00"N	75-13'40"W	16OCT84
	BIG MOOSE LAKE	1A1-103	43-49'45"N	74-51'00"W	16OCT84
	BREWER LAKE	1A3-069	43-35'32"N	75-05'15"W	16OCT84
	BUBB LAKE	1A1-113	43-46'15"N	74-51'15"W	14OCT84
	CASCADE LAKE	1A1-105	43-47'28"N	74-48'15'W	14OCT84
	CEDAR LAKES	1A1-099	43-37'15"N	74-33'00"W	30OCT84
	CLEAR POND	1A2-077	44-00'00"N	73-49'20"W	12OCT84
	CLOCKMILL POND	1A2-073	43-20'25"N	74-35'15"W	31OCT84
	CROOKED LAKE	1A1-097	43-59'40"N	74-56'20"W	25OCT84
	CURTIS POND	1A1-100	44-09'35"N	74-45'37"W	13OCT84
	DART LAKE	1A1-106	43-47'50"N	74-51'30"W	14OCT84
	DEEP LAKE	1A1-084	43-37'10"N	74-39'48"W	30OCT84
	DIAMOND LAKE	1A2-074	43-18'25"N	74-43'50"W	31OCT84
	EAST CHARLEY POND	1A1-101	44-02'45"N	74-41'00"W	25OCT84
	EAST POND	1A1-098	44-22'50"N	74-25'50"W	11OCT84
	FISH POND	1A1-092	44-23'37"N	74-22'15"W	11OCT84
	GAL POND	1A1-093	44-02'40"N	74-53'40"W	24OCT84

(continued)

TABLE B-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
NEW YORK (cont)	HEART LAKE	1A1-102	44-10'56"N	73-58'10"W	12OCT84
	HITCHINS POND	1A1-094	44-00'37"N	74-54'20"W	25OCT84
	HOLMES LAKE	1A2-075	43-11'22"N	74-25'55"W	04NOV84
	JOCKEYBUSH LAKE	1A2-066	43-18'15"N	74-35'45"W	04NOV84
	JONES POND	1A1-091	44-27'08"N	74-11'15"W	11OCT84
	LAKE RONDAXE	1A1-110	43-45'50"N	74-54'20"W	14OCT84
	LITTLE ECHO POND	1A1-107	44-18'20"N	74-21'27"W	12OCT84
	MECO LAKE	1A2-067	43-17'00"N	74-25'33"W	31OCT84
	MERRIAM POND	1A1-108	43-51'28"N	74-50'45"W	14OCT84
	MINNOW POND	1A1-076	43-52'53"N	74-26'15"W	15OCT84
	MOSS LAKE	1A1-109	43-47'10"N	74-51'00"W	14OCT84
	OTTER LAKE	1A2-078	43-11'17"N	74-30'00"W	31OCT84
	PILLSBURY LAKE	1A1-077	43-35'50"N	74-32'00"W	30OCT84
	QUEER LAKE	1A1-089	43-48'40"N	74-48'00"W	14OCT84
	ROCK LAKE	1A2-068	43-19'42"N	74-35'30"W	31OCT84
	SAND POND	1A2-072	43-56'58"N	75-09'40"W	24OCT84
	SILVER LAKE	1A1-078	43-50'38"N	74-54'45"W	14OCT84
	SILVER LAKE	1A2-069	43-17'43"N	74-25'50"W	31OCT84
	SOUTH LAKE	1A1-079	43-35'13"N	74-37'45"W	30OCT84
	SPRUCE LAKE	1A1-080	43-32'00"N	74-36'37"W	30OCT84
	SQUASH POND	1A1-111	43-49'35"N	74-53'23'W	16OCT84
	STEPHEN'S POND	1A1-081	43-49'10"N	74-25'00"W	15OCT84
	STREETER LAKE	1A2-071	44-06'28"N	75-04'20"W	24OCT84
	THIRSTY POND	1A1-082	43-49'22"N	74-54'20"W	14OCT84
	TOAD POND	1A1-095	44-01'10"N	74-56'00"W	24OCT84
	TOWNSEND POND	1A1-086	43-48'50"N	74-50'22"W	16OCT84
	WEST LAKE	1A1-083	43-45'20"N	74-55'15"W	14OCT84
	WEST POND	1A1-112	43-48'40"N	74-52'45"W	14OCT84
	WHIPPLE POND	1A1-090	44-22'36"N	74-18'09"W	12OCT84
	WOODRUFF POND	1A1-088	43-57'54"N	74-08'45"W	15OCT84

(continued)

TABLE B-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
NORTH CAROLINA	CHATUGE LAKE	3A3-101	35-00'45"N	83-47'15"W	20NOV84
	MARS HILL LAKE	3A2-066	35-56'40"N	82-29'40"W	21NOV84
	PRICE LAKE	3A2-065	36-08'15"N	81-44'00"W	21NOV84
	RAVENEL(CULLASAJA)L.	3A2-061	35-05'07"N	83-09'40"W	25NOV84
	SANTEETLAH LAKE	3A2-062	35-22'00"N	83-52'30"W	20NOV84
	THUNDER LAKE	3A2-063	35-07'50"N	82-39'55"W	29NOV84
	WOLF CREEK RESERVOIR	3A3-104	35-16'05"N	82-58'10"W	25NOV84
TENNESSEE	MILLER LAKE	3A3-102	36-10'42"N	82-09'23"W	21NOV84
	WATAUGA LAKE	3A3-103	36-19'40"N	82-05'00"W	29NOV84
VERMONT	BEAVER POND	1C1-107	45-00'20"N	71-56'30"W	18OCT84
	BEEBE POND	1C1-099	43-03'12"N	73-01'58"W	07NOV84
	BIG MUDDY POND	1C1-108	44-45'20"N	72-36'00"W	29OCT84
	BRANCH POND	1C1-101	43-04'52"N	73-01'07"W	07NOV84
	COLE POND	1C3-081	43-08'55"N	72-48'20"W	06NOV84
	COW MTN. POND	1C2-075	44-33'40"N	71-42'10"W	25OCT84
	FORESTER POND	1C3-076	43-04'54"N	72-52'05"W	23OCT84
	GRIFFITH LAKE	1C1-109	43-18'08"N	72-57'35"W	06NOV84
	GROUT POND	1C1-090	43-02'44"N	72-56'45"W	07NOV84
	HARDWOOD POND	1C1-091	44-28'05"N	72-30'00"W	29OCT84
	HAYSTACK POND	1C1-110	42-55'00"N	72-55'00"W	06NOV84
	HOLLAND POND	1C1-111	44-59'10"N	71-55'45"W	18OCT84
	HOWE POND	1C1-112	42-47'08"N	72-59'15"W	07NOV84
	LAKE MANSFIELD	1C1-105	44-28'20"N	72-49'00"W	29OCT84
	LAKE NINEVAH	1C2-072	43-28'15"N	72-45'30"W	23OCT84
	LILY POND	1C1-092	43-14'03"N	72-45'05"W	23OCT84
	LITTLE AVERILL POND	1C1-103	44-57'18"N	71-43'00"W	18OCT84
	LITTLE POND	1C1-093	42-55'30"N	73-03'55"W	06NOV84
	LITTLE POND	1C1-094	43-07'25"N	72-56'30"W	06NOV84

(continued)

TABLE B-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
VERMONT (cont)	LITTLE ROCK POND	1C1-104	43-24'00"N	72-57'20"W	06NOV84
	MOSES POND	1C1-115	43-20'03"N	72-50'35"W	06NOV84
	OSMORE POND	1C2-073	44-18'30"N	72-16'45"W	25OCT84
	PIGEON POND	1C2-071	44-14'45"N	72-19'45"W	29OCT84
	SOMERSET RESERVOIR	1C1-113	43-00'00"N	72-56'20"W	23OCT84
	SOUTH POND	1C3-075	42-50'38"N	72-42'45"W	06NOV84
	STAMFORD POND	1C1-095	42-49'20"N	73-03'55"W	07NOV84
	STERLING POND	1C1-114	44-33'22"N	72-46'28"W	29OCT84
	STRATTON POND	1C1-096	43-06'15"N	72-58'10"W	07NOV84
	SUCKER POND	1C1-106	42-49'30"N	73-07'45"W	07NOV84
	SUNSET LAKE	1C1-097	42-55'10"N	72-41'00"W	06NOV84
	UNKNOWN POND	1C1-098	44-54'35"N	71-50'40"W	18OCT84
	WHEELER POND	1C2-074	44-42'30"N	71-38'30"W	25OCT84
WISCONSIN	ALDRIDGE LAKE	2C2-064	45-51'55"N	89-18'05"W	31OCT84
	BIG CROOKED LAKE	2C3-062	46-02'00"N	89-51'25"W	06NOV84
	BROWN LAKE	2C2-065	45-46'50"N	89-29'30"W	27OCT84
	CAMP TEN LAKE	2C1-066	45-59'50"N	89-23'05"W	30OCT84
	CAMP TWELVE LAKE	2C1-075	45-59'03"N	89-22'14"W	04NOV84
	CHAIN LAKE	2C3-063	45-50'30"N	89-22'05"W	31OCT84
	CLEAR LAKE	2C1-074	45-22'00"N	89-13'50"W	05NOV84
	CRYSTAL LAKE	2C1-070	46-00'05"N	89-36'45"W	30OCT84
	DOG LAKE	2C3-064	45-46'45"N	89-06'30"W	10OCT84
	DUCK LAKE	2C1-061	45-22'50"N	89-14'45"W	08NOV84
	ELNA LAKE	2C1-067	45-41'36"N	89-34'05"W	27OCT84
	FINLEY LAKE	2C2-061	45-54'40"N	89-25'00"W	31OCT84
	FOUND LAKE	2C2-066	45-57'05"N	89-27'10"W	31OCT84
	GREATER BASS LAKE	2C1-065	45-21'25"N	89-11'30"W	05NOV84
	HARMONY LAKE	2C3-065	45-57'10"N	89-11'20"W	31OCT84
	ISLAND LAKE	2C3-066	45-49'45"N	89-07'55"W	10OCT84

(continued)

TABLE B-1. (continued)

State	Lake name	Lake ID	Latitude	Longitude	Date sampled
WISCONSIN (cont)	LITTLE ROCK LAKE	2C1-071	45-59'55"N	89-42'15"W	30OCT84
	LONG LAKE	2C1-073	45-43'00"N	89-36'15"W	07NOV84
	LUNA LAKE	2C2-062	45-54'19"N	88-57'35"W	10OCT84
	MIDGE(LARRAINE)LAKE	2C1-072	46-00'05"N	89-41'40"W	30OCT84
	MOON LAKE	2C2-067	45-55'05"N	89-26'05"W	31OCT84
	NICHOLS LAKE	2C1-069	46-06'14"N	89-41'15"W	09OCT84
	OTTER LAKE	2C3-067	45-26'30"N	89-32'45"W	08OCT84
	PLUMMER LAKE	2C3-068	45-58'10"N	89-46'30"W	01NOV84
	SAND LAKE	2C1-068	45-43'28"N	89-39'05"W	27OCT84
	SHISHEBOGAMA LAKE	2C3-069	45-53'55"N	89-49'15"W	07NOV84
	SUGAR CAMP LAKE	2C2-063	45-48'00"N	89-18'15"W	31OCT84
	SUMMIT LA	2C1-062	45-22'30"N	89-12'25"W	05NOV84
	SUNSET LAKE	2C1-063	45-55'35"N	89-20'15"W	30OCT84
	TROSTEL LAKE	2C3-070	46-16'13"N	89-54'40"W	06NOV84
	VANDERCOOK LAKE	2C1-064	45-58'55"N	89-41'13"W	30OCT84

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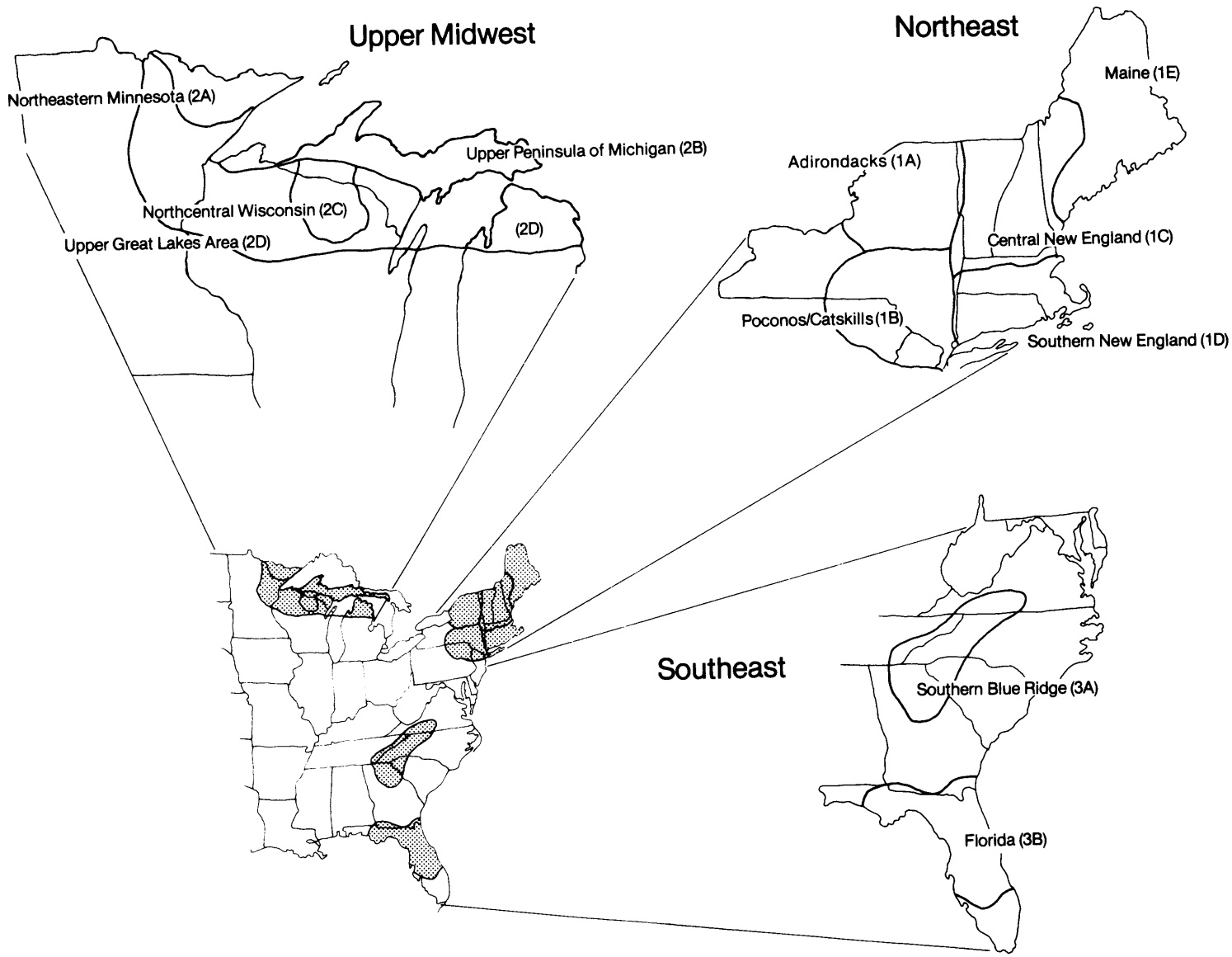

Regions and Subregions, Eastern Lake Survey-Phase I

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